Substation Inspection Forms

Print

008925 Abraham's Cove
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 12/21/2012

Routine Substation Inspection

Sub: **008925 Abraham's Cove** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Metering Cabinet	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

ABC-S/S

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

ABC-T1

Meter Number: 139635 Multiplier: 7.20

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

ABC Telecommunication Equipment

RTU - SAGE 1150

	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

ABC-01-R

230530 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

ABC-01-VR1

220115 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐

Reset	No Yes								
220430 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Max Drag Hand Position	_____			
Min Drag Hand Position	_____								
220535 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

ABC-01-VR2

220120 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

ABC-02-R

230532 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

ABC-02-VR1

220220 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								
220306 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								
220508 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

ABC-02-VR2

220265 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								
220278 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220399 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

ABC-BAT-S

100238 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Filled	No Yes				Fluid Film	☐	☐	☐	☐
Pilot Cell Temperature oC	_____				Specific Gravity of Pilot Cell	_____			

ABC-T1

200260 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Drag Hand Pos.	_____			
Max Oil Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

Remarks / Details of Work Completed :

Follow Up Work :

(1)

Suggested Priority :

1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

003901 Bay L'Argent
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 11/5/2013

Routine Substation Inspection

Sub: **003901 Bay L'Argent** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

BLA-01-VR3

Meter Number: _____ Multiplier: _____
Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

BLA-S/S

Meter Number: 143 827 Multiplier: 1.00
Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

BLA-T1

Meter Number: 8-346314 Multiplier: 8.00
KVA: unmultiplied reading _____ KWH: unmultiplied reading _____
Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

BLA-01-R

230441 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter				
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A				
Max Amps Phase B					Max Amps Phase C				
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

BLA-01-VR1

220154 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220521 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220797- Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Drag Hand Position	_____			
Min Drag Hand Position	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

BLA-01-VR2

220255 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220500 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220793- Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

BLA-01-VR3

220711 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

BLA-T1

200240 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐

Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

002903 Bay Roberts
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 2/14/2014

Routine Substation Inspection

Sub: **002903 Bay Roberts** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Oil Storage Facilities	☐	☐	☐	☐
Telephone and Directory	☐	☐	☐	☐	Wall Cabinet	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Potheads and Cables	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

BRB Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

BRB-01-B

210778- CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

BRB-02-B

210361 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

BRB-03-B

210765- CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

BRB-04-B

210764- CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

BRB-04-VR1

220695 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Reset	No Yes			
220744 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Drag Hand Position	_____			
Min Drag Hand Position	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes				Structure	☐	☐	☐	☐

220745 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Drag Hand Position	_____			
Min Drag Hand Position	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes				Structure	☐	☐	☐	☐

BRB-05-B

210672 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

BRB-39L-B

210790 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

BRB-48L-B

210215 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Compressor Belt	☐	☐	☐	☐
Compressor Tank Bled	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			

Max Amps Phase B	_____				Max Amps Phase C	_____						
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐			
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐			
Tank Heater	☐	☐	☐	☐								

BRB-56L-B

210153 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

BRB-57L-B

210075 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

BRB-BAT-S

100277 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

BRB-CHG

110196 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

BRB-T1

200303 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐

Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual			

BRB-T1-B

210197 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

BRB-T2

200302 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual			

BRB-T2-B

210072 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐

Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

BRB-T3

200330 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual			

BRB-T3-B

210082 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

007901 Bayview
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 3/6/2013

Routine Substation Inspection

Sub: **007901 Bayview** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Potheads and Cables	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

BVS-S/S

Meter Number:	213134	Multiplier:	1.00
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐

BVS-T1

Meter Number:	1-625-273	Multiplier:	28.80
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐

BVS-T1-B

Meter Number: 1-625-273 Multiplier: 28.80
KVA: unmultiplied reading _____ KWH: unmultiplied reading _____
Multiplier Correct? ☐ ☐ ☐ ☐

BVS-T2-B

Meter Number: _____ Multiplier: _____
MVA: unmultiplied reading _____

BVS Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

BVS-01

220245 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220467 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220494 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

BVS-01-R

230576 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

BVS-02-R

230579 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

BVS-03-R

230574 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

BVS-04-R

230578 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

BVS-04-VR1

220613 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220659 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220694 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

BVS-357L-B

210079 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

BVS-358L-B

210703 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Compressor Belt	☐	☐	☐	☐
Compressor Tank Bled	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

BVS-359L-B

210282 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

BVS-BAT-S

100276 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

BVS-CHG

110194 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equip. Current A	_____			
Float Voltage V	_____								

BVS-T1

200307 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Counter	_____			
Diaphragm in Relief Vent	☐	☐	☐	☐	Drag Hand Reset	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Indication Button on Pressure Relief Device	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Drag Hand Pos.	_____			
Max Oil Temp	_____				Max Winding Temp	_____			
Min Drag Hand Pos.	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

BVS-T1-B

210745- CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐

Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

BVS-T2

200145 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Counter	_____			
Diaphragm in Relief Vent	☐	☐	☐	☐	Drag Hand Reset	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Indication Button on Pressure Relief Device	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual			

BVS-T2-B

210670 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

008932 Berry Head
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 3/21/2013

Routine Substation Inspection

Sub: **008932 Berry Head** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Metering Cabinet	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

BHD-S/S

Meter Number:	359851	Multiplier:	1.00
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

BHD-T1

Meter Number:	359851	Multiplier:	_____
KVA: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

BHD Telecommunication Equipment

RTU - SAGE 1150	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

BHD-01-R

230408 - Recloser-Relay	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Block Reclose Switch in Mech. Comp.	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐

Recloser Meters	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐

BHD-01-VR1

220761 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

220765 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

220766 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

BHD-T1

200110 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	KWH (Dial)	_____			
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				MVA Demand	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

001940 Big Pond
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 8/18/2011

Routine Substation Inspection

Sub: **001940 Big Pond** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Housekeeping	☐	☐	☐	☐
Spare Power Fuses	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Metering Cabinet	☐	☐	☐	☐	Potheads and Cables	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

BIG-01-R

230542 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Instantaneous Amps Phase A	_____			
Instantaneous Amps Phase B	_____				Instantaneous Amps Phase C	_____			
Peak Mthly Demand KW	_____				Physical Condition	☐	☐	☐	☐
Power Factor	_____								

BIG-02-R

230538 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Instantaneous Amps Phase A	_____				Instantaneous Amps Phase B	_____			
Instantaneous Amps Phase C	_____				Peak Mthly Demand KW	_____			
Physical Condition	☐	☐	☐	☐	Power Factor	_____			

BIG-T1

200195 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Condition of Filter and Water Flow in Pipe Satisfactory?	☐	☐	☐	☐	Counter	_____			
Diaphragm in Relief Vent	☐	☐	☐	☐	External Filter on Petro Pipe?	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Oil Temp	_____			
MVA (Dial)	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual			

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

006901 Bishop's Falls
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 7/10/2012

Routine Substation Inspection

Sub: **006901 Bishop's Falls** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

BFS-S/S

Meter Number:	_____	Multiplier:	_____
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____

BFS Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor,	C/C				Signs of rodent activity (droppings,	C/C			

etc.)?	N/A Satisfactory Un-Satisfactory	shavings, foul smell etc.)?	N/A Satisfactory Un-Satisfactory

BFS-01-R

230604 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Gas Pressure	_____			
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

BFS-01-VR1

220703 Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220706 Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220707 Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

BFS-02-R

230569 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

BFS-132L-B

210262 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Compressor Belt	☐	☐	☐	☐
Compressor Tank Bled	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

BFS-133L-B

210263 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Compressor Belt	☐	☐	☐	☐
Compressor Tank Bled	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

BFS-134L-B

210183 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Compressor Belt	☐	☐	☐	☐
Compressor Tank Bled	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

BFS-136L-B

210264 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Compressor Belt	☐	☐	☐	☐
Compressor Tank Bled	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

Relay Targets and Indicating Lamps	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

BFS-BAT-S

100324- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

BFS-CHG

110208 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

BFS-T1

200305 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Condition of control cabinet door (especially hinges)	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Max Oil Temp	_____				Max Winding Temp	_____			

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

002904 Blaketown
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 7/11/2013

Routine Substation Inspection

Sub: **002904 Blaketown** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Hard Hats	☐	☐	☐	☐
Heaters	☐	☐	☐	☐	Housekeeping	☐	☐	☐	☐
Telephone and Directory	☐	☐	☐	☐	Wall Cabinet	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

BLK-55L-B

Meter Number:	_____	Multiplier:	_____
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

BLK-94L-B

Meter Number:	_____	Multiplier:	_____
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐

MVA: unmultiplied reading _____

BLK Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

BLK-01-B

210247 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

BLK-02-B

210248 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

BLK-48L-B

210749 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure	☐	☐	☐	☐	Gas Pressure	_____			
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

BLK-55L-B

210116 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

BLK-64L-B

210750 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure	☐	☐	☐	☐	Gas Pressure	_____			
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

BLK-80L-B

210073 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

BLK-86L-B

210097 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			

Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

BLK-94L-B

210100 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

BLK-BAT

100291- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

BLK-CHG

110200 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

BLK-T2

200296 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Counter	_____			
Diaphragm in Relief Vent	☐	☐	☐	☐	Drag Hand Reset	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Indication Button on Pressure Relief Device	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Drag Hand Pos.	_____			
Max Oil Temp	_____				Max Winding Temp	_____			
Min Drag Hand Pos.	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐

Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

BLK-T3

200314 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual			

BLK-T3-B

210724 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure	☐	☐	☐	☐	Gas Pressure	_____			
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work :

Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

004912 Bonavista
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 12/20/2012

Routine Substation Inspection

Sub: **004912 Bonavista** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

BVA-S/S

Meter Number:	_____	Multiplier:	_____
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____

BVA-T1

Meter Number:	116589	Multiplier:	24.00
KVA: unmultiplied reading	_____	KWH: unmultiplied reading	_____
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____

BVA-01-R

230337 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

BVA-01-VR1

220380 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Grounding	☐	☐	☐	☐	Max Drag Hand Position	_____			
Min Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

220783 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Grounding	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Max Drag Hand Position	_____			
Min Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

BVA-02-R

230357 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

BVA-03-R

230353 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

BVA-03-VR2

220107 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220113 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			

Operations Counter	_____	Physical Condition	☐ ☐ ☐ ☐
Reset	No Yes		

BVA-BAT-S

100342 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

BVA-T1

200343 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Counter	_____			
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number : Work Order Keyed : ☐

Print

006902 Botwood
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 11/18/2011

Routine Substation Inspection

Sub: **006902 Botwood** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Potheads and Cables	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

BOT Building

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

BOT-S/S

Meter Number: 487593 Multiplier: 1.00

KVA: unmultiplied reading _____ KWH: unmultiplied reading _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

BOT-01-R

230609 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter				_____
Foundations	☐	☐	☐	☐	Gas Pressure				_____
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

BOT-01-R2

230442 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter				_____
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

BOT-01-R3

230202 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

BOT-01-R4

230336 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

BOT-01-VR1

220712 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220713 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220717 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

BOT-01-VR2

220414 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

BOT-01-VR3

220718 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

BOT-01-VR5

220263 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

BOT-02-R

230611 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

BOT-03-R

230614 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Gas Pressure	_____			
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

BOT-03-R2

230340 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

BOT-BAT-S

100339- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

BOT-CHG

110266- Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equip. Current A	_____			
Float Voltage V	_____								

BOT-T1

200280 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐

Max Drag Hand Pos.	_____	Max Oil Temp	_____
Max Winding Temp	_____	Min Drag Hand Pos.	_____
Oil Leaks	☐ ☐ ☐ ☐	Oil Level	☐ ☐ ☐ ☐
PCB Label	☐ ☐ ☐ ☐	Physical Condition	☐ ☐ ☐ ☐
Silica Gel	☐ ☐ ☐ ☐	Tapchanger Position	Automatic Manual

Special Instructions:

Description	Date Complete	Notes
Record the type, size and test date of all ground and switch sticks at the sub. Note any outstanding requests to replace sticks which are supposed to be at the sub.	2013/04/23	completed

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

005911 Boyds Cove
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/23/2012

Routine Substation Inspection

Sub: **005911 Boyds Cove** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check AC Lighting Working	☐	☐	☐	☐	Check Arc Flash Suits Available	☐	☐	☐	☐
Check Building for Leaks	☐	☐	☐	☐	Check DC Lighting Working	☐	☐	☐	☐
Check Eye Wash Station OK	☐	☐	☐	☐	Check Fence OK	☐	☐	☐	☐
Check Fire Extinguisher in Place and Charged	☐	☐	☐	☐	Check First Aid Kit Contents Ok	☐	☐	☐	☐
Check for Any Risk to System Reliability	☐	☐	☐	☐	Check For Oil Leaks	☐	☐	☐	☐
Check For Vandalism	☐	☐	☐	☐	Check Gates and Locks OK	☐	☐	☐	☐
Check High Voltage Danger Signs in Place	☐	☐	☐	☐	Check Hot Sticks OK	☐	☐	☐	☐
Check to See if Snow Clearing is Required	☐	☐	☐	☐					

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Meters	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Switch Blades	☐	☐	☐	☐					

BOY-BAT-S

100275 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐

BOY-CHG

110193 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

BOY-T1

200337 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundation	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

BOY-TL254-B

210080 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work :

Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

001903 Broad Cove
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/16/2012

Routine Substation Inspection

Sub: **001903 Broad Cove** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Wall Cabinet	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potheads and Cables	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

BCV-01-R

230580 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

BCV-01-VR1

220653 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220689 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220696 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

BCV-02-R

230581 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

BCV-02-VR1

220302 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220319 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220353 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Operations Counter	_____				Physical Condition	☐	☐	☐	☐

BCV-02-VR2

220475 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220543 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			

Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								
220555 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

BCV-03-R

230582 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

BCV-04-R

230583 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

BCV-04-VR1

220209 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								
220314 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								
220536 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								
220569 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

BCV-BAT-CHG

110264- Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			

Float Voltage V _____

BCV-BAT-S

100347 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

BCV-T1

200327 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Drag Hand Pos.	_____			
Max Oil Temp	_____				Max Winding Temp	_____			
Min Drag Hand Pos.	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number : Work Order Keyed : ☐

Print

006919 Buchans
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/24/2013

Routine Substation Inspection

Sub: **006919 Buchans** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Equipment Identification	☐	☐	☐	☐	Meters	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Switch Blades	☐	☐	☐	☐					

General Metering

BUC-T2

Meter Number: _____254753 Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

BUC-01-R

230596 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

BUC-02-R

230597 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

BUC-02-VR1

220266 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220426 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐

Reset	No Yes								
220429 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

001904 Cape Broyle
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/23/2012

Routine Substation Inspection

Sub: **001904 Cape Broyle** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐
Telephone and Directory	☐	☐	☐	☐	Wall Cabinet	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Potheads and Cables	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

CAB Building

Meter Number: _____ Multiplier: _____

Multiplier Correct?	☐	☐	☐	☐	MVA: unmultiplied reading	_____			

CAB Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

CAB-01-R

230467 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

CAB-01-VR1

220673 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220674 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220675 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

CAB-01-VR2

220661 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220663 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220669 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐

Max Drag Hand Position	_____	Min Drag Hand Position	_____
Operations Counter	_____	Physical Condition	☐ ☐ ☐ ☐
Reset	No Yes		

CAB-66L-B

210150 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

CAB-BAT-G

100317- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

CAB-G-B

210581 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

CAB-T2

200290 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Condition of control cabinet door (especially hinges)	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Oil Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

CAB-VR

220488 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220670 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220672 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number :

Work Order Keyed : ☐

Print

002905 Carbonear
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/26/2011

Routine Substation Inspection

Sub: **002905 Carbonear** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐
Wall Cabinet	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cable Trench Covers	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Current Transformers	☐	☐	☐	☐	Lightning Arrestors	☐	☐	☐	☐
Metering Cabinet	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Potheads and Cables	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

CAR Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

CAR-01-R

230299 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

CAR-03-R

230460 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

CAR-04-R

230612 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Instantaneous Amps Phase A	_____				Instantaneous Amps Phase B	_____			
Instantaneous Amps Phase C	_____				Peak Mthly Demand KW	_____			
Physical Condition	☐	☐	☐	☐					

CAR-40L-B

210135 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

CAR-41L-B

210137 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐

Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

CAR-56L-B

210136 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

CAR-68L-B

210139 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

CAR-BAT-S

100331- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

CAR-T1

200333 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Counter	_____			
Diaphragm in Relief Vent	☐	☐	☐	☐	Drag Hand Reset	☐	☐	☐	☐

Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Max Drag Hand Pos.	_____			
Max Oil Temp	_____				Max Winding Temp	_____			
Min Drag Hand Pos.	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number :

Work Order Keyed : ☐

Print

004911 Catalina
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 1/7/2014

Routine Substation Inspection

Sub: **004911 Catalina** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Wall Cabinet	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

CAT-S/S

Meter Number: _____373161 Multiplier: _____1.00

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

MVA: unmultiplied reading _____

CAT Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory	Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory

CAT-01-R

230401 - Recloser-Relay	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Block Reclose Switch in Mech. Comp.	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐

CAT-02-R

230402 - Recloser-Relay	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Block Reclose Switch in Mech. Comp.	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐

CAT-03-R

230485 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

CAT-117L-B

210743 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure - Phase A	_____			
Gas Pressure - Phase B	_____				Gas Pressure - Phase C	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

CAT-BAT-S

100186 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Apron and Goggles	☐	☐	☐	☐	Cleanliness	☐	☐	☐	☐
Condition of Posts	☐	☐	☐	☐	Eye Wash	☐	☐	☐	☐
Fan or Vent	☐	☐	☐	☐	Filled	No Yes			
Fluid Film	☐	☐	☐	☐	Hydrometer	☐	☐	☐	☐
Pilot Cell Temperature oC	_____				Specific Gravity of Pilot Cell	_____			

CAT-CHG

110172 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

CAT-T1

200239 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Counter	_____			
Diaphragm in Relief Vent	☐	☐	☐	☐	Drag Hand Reset	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Indication Button on Pressure Relief Device	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Drag Hand Pos.	_____			
Max Oil Temp	_____				Max Winding Temp	_____			
Min Drag Hand Pos.	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

CAT-T1-B

210118 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

CAT-T2

200297 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Counter	_____			
Diaphragm in Relief Vent	☐	☐	☐	☐	Drag Hand Reset	☐	☐	☐	☐

Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Drag Hand Pos.	_____			
Max Oil Temp	_____				Max Winding Temp	_____			
Min Drag Hand Pos.	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

001937 Chamberlains
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/16/2012

Routine Substation Inspection

Sub: **001937 Chamberlains** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number:
	Completed By:
	Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐
Wall Cabinet	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Potheads and Cables	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

CHA-S/S

Meter Number:	374006	Multiplier:	1.00
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

CHA-T1-A

Meter Number:	_____	Multiplier:	_____

Multiplier Correct?	☐	☐	☐	☐	MVA: unmultiplied reading	_____			

CHA Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

CHA-01-B

210527 - CB-Min Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

CHA-02-B

210644 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

CHA-03-B

210541 - CB-Min Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

CHA-49L-B

210083 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐

Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

CHA-51L-B

210134 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

CHA-79L-B

210084 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

CHA-BAT-S

100369 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

CHA-CHG

110280 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Float Voltage V	_____			

CHA-T1

200331 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Counter	_____			
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Indication Button on Pressure Relief Device	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			

Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual			

CHA-T1-B

210526 - CB-Min Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

CHA-T2

200353 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Counter	_____			
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Drag Hand Pos.	_____			
Max Oil Temp	_____				Max Winding Temp	_____			
Min Drag Hand Pos.	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

CHA-T2-B

210660 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

004904 Clarenville
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 1/7/2014

Routine Substation Inspection

Sub: **004904 Clarenville** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐
Wall Cabinet	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

CLV-S/S

Meter Number: _____491538 Multiplier: _____10.00

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

MVA: unmultiplied reading _____

CLV Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory	Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory

CLV-01-B

210159 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

CLV-02-B

210160 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

CLV-03-B

210253 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

CLV-03-VR1

220246 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220524 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220742 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

CLV-100L-B

210171 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Compressor Belt	☐	☐	☐	☐
Compressor Tank Bled	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

CLV-109L-B

210187 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Compressor Belt	☐	☐	☐	☐
Compressor Tank Bled	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐

PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

CLV-110L-B

210076 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

CLV-123L-B

210789 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

CLV-124L-B

210693 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

CLV-BAT-S

100296 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

CLV-CHG

110210 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

CLV-T1

200349 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

CLV-T2

200270 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Counter	_____			
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual			

Remarks / Details of Work Completed :

Follow Up Work :

Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

002906 Clarkes Pond
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 7/7/2011

Routine Substation Inspection

Sub: **002906 Clarkes Pond** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Relay Targets	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Current Transformers	☐	☐	☐	☐	Lightning Arrestors	☐	☐	☐	☐
Metering Cabinet	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

CLK-T1

Meter Number:	_____	Multiplier:	1.00
KVA: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____	VA: unmultiplied reading	_____

CLK-T2

Meter Number:	_____	Multiplier:	1.00
Multiplier Correct?	☐ ☐ ☐ ☐		

CLK-02-R

230543 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

CLK-03-R

230545 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

CLK-04-R

230539 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

CLK-04-VR1

220699 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220700 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220701 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

CLK-55L-B

210652 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

CLK-BAT

100256 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

CLK-CHG

110160 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

CLK-T1

200223 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of Filter and Water Flow in Pipe Satisfactory?	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	External Filter on Petro Pipe?	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Min Drag Hand Pos.	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

CLK-T2

200287 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of Filter and Water Flow in Pipe Satisfactory?	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	External Filter on Petro Pipe?	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual			

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

005910 Cobbs Pond
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 1/21/2013

Routine Substation Inspection

Sub: **005910 Cobbs Pond** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Equipment Identification	☐	☐	☐	☐	Meters	☐	☐	☐	☐
Relay Targets	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

COB-S/S

Meter Number: _____546851 Multiplier: _____

KVA: unmultiplied reading _____ KWH: unmultiplied reading _____

Multiplier Correct? ☐ ☐ ☐ ☐

COB-01-B

210734- CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			

Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

COB-02-B

210737- CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

COB-03-B

210735- CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

COB-142L-B

210718 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

COB-144/210-B

210256 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Compressor Belt	☐	☐	☐	☐
Compressor Tank Bled	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

COB-BAT-S

100307- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐

COB-CHG

110236 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

COB-T1-B

210736- CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

COB-T1/144-B

210257 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Compressor Belt	☐	☐	☐	☐
Compressor Tank Bled	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐

Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

COB-T1/T3-B

210692 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Gas Pressure - Phase A	_____			
Gas Pressure - Phase B	_____				Gas Pressure - Phase C	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

COB-T2/136-B

210254 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Compressor Belt	☐	☐	☐	☐
Compressor Tank Bled	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

COB-T2/210-B

210708 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Gas Pressure - Phase A	_____			
Gas Pressure - Phase B	_____				Gas Pressure - Phase C	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

COB-T3

200362 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Condition of Filter and Water Flow in Pipe Satisfactory?	☐	☐	☐	☐	Counter	_____			
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Indication Button on Pressure Relief Device	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

COB-T3-B

210738 CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

210738- CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

COB-T3/136-B

210255 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Compressor Belt	☐	☐	☐	☐
Compressor Tank Bled	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐

Lubrication	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

002942 Colliers
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/15/2012

Routine Substation Inspection

Sub: **002942 Colliers** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Relay Targets	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

COL-T1

Meter Number:	_____	Multiplier:	_____9600.00
KVA: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

COL-01-R

230413 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			

COL-01-VR1

220377 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

COL-02-R

230564 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Instantaneous Amps Phase A	_____				Instantaneous Amps Phase B	_____			
Instantaneous Amps Phase C	_____				Peak Mthly Demand KW	_____			
Physical Condition	☐	☐	☐	☐	Power Factor	_____			

COL-BAT-S

100288 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

COL-CHG

110214 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

COL-T1

200346 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Counter	_____			
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual			

Remarks / Details of Work Completed :

Follow Up Work :

(1) _____

Suggested Priority :

1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

007902 Deer Lake
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 5/4/2011

Routine Substation Inspection

Sub: **007902 Deer Lake** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C
Check to See if Snow Clearing is Required	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Hard Hats	☐	☐	☐	☐
Heaters	☐	☐	☐	☐	Housekeeping	☐	☐	☐	☐
Telephone and Directory	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

DLK-S/S

Meter Number: _____449060 Multiplier: _____1.00

KWH: unmultiplied reading _____

DLK-01-R

230610 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

DLK-03-R

230608 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

DLK-03-R2

230258 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

DLK-03-VR1

220149 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Grounding	☐	☐	☐	☐	Max Drag Hand Position	_____			
Min Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			
Structure	☐	☐	☐	☐					

220493 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

DLK-03-VR2

220229 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220315 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220604 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

DLK-04-R

230615 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

DLK-BAT-S

100336- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

DLK-T1

200359 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Counter	_____			
Diaphragm in Relief Vent	☐	☐	☐	☐	Drag Hand Reset	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Indication Button on Pressure Relief Device	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Drag Hand Pos.	_____			
Max Oil Temp	_____				Max Winding Temp	_____			
Min Drag Hand Pos.	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

DLK-T1-B

210712 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work :

Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

008904 Doyles
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 9/23/2011

Routine Substation Inspection

Sub: **008904 Doyles** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

DOY-01-R

230601 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

DOY-01-VR1

220526 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220533 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220757 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Counter	_____	Max Amps Phase A	_____
Max Amps Phase B	_____	Max Amps Phase C	_____
Max Drag Hand Position	_____	Min Drag Hand Position	_____
Operations Counter	_____	Physical Condition	☐ ☐ ☐ ☐
Reset	No Yes		

DOY-01-VR2

220637 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

DOY-T2

200221 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number : Work Order Keyed : ☐

Print

002909 Dunville
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 1/29/2013

Routine Substation Inspection

Sub: **002909 Dunville** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐
Telephone and Directory	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

DUN-01-VR2

Meter Number:	_____	Multiplier:	_____
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____

DUN-T1

Meter Number:	185711	Multiplier:	14.40
KVA: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

DUN-01-R

230511 - Recloser-Electronic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	_____				Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐

Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Spare Fuses	☐	☐	☐	☐					

DUN-01-R2

230350 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

DUN-01-VR1

220514 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220634 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220682 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

DUN-01-VR2

220381 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

220527 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220723 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

DUN-02-R

230506 - Recloser-Electronic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Battery Test	_____				Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Heater	☐	☐	☐	☐
Lockout Indicating Lamp	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

DUN-T1

200328 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

DUN-VR

220698 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220708 Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220709 Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

003902 Fall Pond
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/26/2011

Routine Substation Inspection

Sub: **003902 Fall Pond** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check AC Lighting Working	☐	☐	☐	☐	Check Arc Flash Cabinet Signage In Place	☐	☐	☐	☐
Check Arc Flash Suits Available	☐	☐	☐	☐	Check Building for Leaks	☐	☐	☐	☐
Check DC Lighting Working	☐	☐	☐	☐	Check Eye Wash Station OK	☐	☐	☐	☐
Check Fence OK	☐	☐	☐	☐	Check Fire Extinguisher in Place and Charged	☐	☐	☐	☐
Check First Aid Kit Contents Ok	☐	☐	☐	☐	Check for Any Risk to System Reliability	☐	☐	☐	☐
Check For Oil Leaks	☐	☐	☐	☐	Check For Vandalism	☐	☐	☐	☐
Check Gates and Locks OK	☐	☐	☐	☐	Check Ground Sticks OK	☐	☐	☐	☐
Check High Voltage Danger Signs in Place	☐	☐	☐	☐	Check Hot Sticks OK	☐	☐	☐	☐
Check to See if Snow Clearing is Required	☐	☐	☐	☐					

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Signage	☐	☐	☐	☐	Earplugs	☐	☐	☐	☐
Outside Signage	☐	☐	☐	☐					

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐

Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐					

FPD Telecommunication Equipment

RTU - SAGE 1150	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

FPD-BAT-G

100270 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

FPD-CHG

110184 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

FPD-G-B

210603 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Conduits	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

FPD-T1

200790 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
200791 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
200792 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

001936 Fermeuse
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/19/2012

Routine Substation Inspection

Sub: **001936 Fermeuse** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
Fire Extinguisher	☐	☐	☐	☐	First Aid Kit	☐	☐	☐	☐
Flashlight	☐	☐	☐	☐	Hard Hats	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Meters	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

FER Building

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

FER-S/S

Meter Number: _____370126 Multiplier: _____1.00

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

MVA: unmultiplied reading _____

FER-T1-FD

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

FER-01-R

230317 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

FER-01-VR1

220660 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220662 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220666 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

FER-902E-B

210691 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Gas Pressure - Phase A	_____			
Gas Pressure - Phase B	_____				Gas Pressure - Phase C	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

FER-BAT-S

100319- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

FER-CHG

110241 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			

Float Voltage V _____

FER-T1

200093 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

FER-VR

220354 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220631 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220664 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

007906 Frenchman's Cove
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 6/29/2011

Routine Substation Inspection

Sub: **007906 Frenchman's Cove** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Hard Hats	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

FRN-T1

Meter Number:	440978	Multiplier:	4800.00
KVA: unmultiplied reading	_____	KWH: unmultiplied reading	_____
Multiplier Correct?	☐ ☐ ☐ ☐	VA: unmultiplied reading	_____

FRN-01-R

230379 - Recloser-Relay	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Block Reclose Switch in Mech. Comp.	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐

FRN-02-R

230396 - Recloser-Relay	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Block Reclose Switch in Mech. Comp.	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐

FRN-02-VR1

220103 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220623 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220624 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

FRN-T1

200285 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

FRN-VR

220643 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220644 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220648 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

008909 Gallant Street
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/28/2011

Routine Substation Inspection

Sub: **008909 Gallant Street** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check AC Lighting Working	☐	☐	☐	☐	Check Arc Flash Cabinet Signage In Place	☐	☐	☐	☐
Check Arc Flash Suits Available	☐	☐	☐	☐	Check Building for Leaks	☐	☐	☐	☐
Check DC Lighting Working	☐	☐	☐	☐	Check Eye Wash Station OK	☐	☐	☐	☐
Check Fence OK	☐	☐	☐	☐	Check Fire Extinguisher in Place and Charged	☐	☐	☐	☐
Check First Aid Kit Contents Ok	☐	☐	☐	☐	Check for Any Risk to System Reliability	☐	☐	☐	☐
Check For Oil Leaks	☐	☐	☐	☐	Check For Vandalism	☐	☐	☐	☐
Check Gates and Locks OK	☐	☐	☐	☐	Check Ground Sticks OK	☐	☐	☐	☐
Check High Voltage Danger Signs in Place	☐	☐	☐	☐	Check Hot Sticks OK	☐	☐	☐	☐
Check to See if Snow Clearing is Required	☐	☐	☐	☐					

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐
Telephone and Directory	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐

Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Current Transformers	☐	☐	☐	☐	Lightning Arrestors	☐	☐	☐	☐
Potheads and Cables	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

GAL-S/S

Meter Number:	_____	Multiplier:	_____
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____

Gallant Street Control Room Meter

Meter Number:	448825	Multiplier:	1.00
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

Gallant Street Warehouse Meter

Meter Number:	548967	Multiplier:	40.00
KVA: unmultiplied reading	_____	KWH: unmultiplied reading	_____
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____

GAL Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

GAL-01-R

230563 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

GAL-03-R

230562 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

GAL-03-VR1

220277 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

GAL-04-R

230566 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

GAL-05-R

230565 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

GAL-401L-B

210559 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Compressor Belt	☐	☐	☐	☐	Compressor Tank Bled	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure	☐	☐	☐	☐	Gas Pressure - Phase A	_____			
Gas Pressure - Phase B	_____				Gas Pressure - Phase C	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

GAL-402L-B

210632 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure	☐	☐	☐	☐	Gas Pressure	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

GAL-406L-B

210562 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Compressor Belt	☐	☐	☐	☐	Compressor Tank Bled	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

GAL-BAT-S

100283- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐

Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

GAL-CHG

110205 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equip. Current A	_____			
Float Voltage V	_____								

GAL-T1

200278 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

GAL-T2

200265 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

005902 Gambo
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/23/2012

Routine Substation Inspection

Sub: **005902 Gambo** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number:
	Completed By:
	Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐
Telephone and Directory	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

GAM-S/S

Meter Number: _____372095 Multiplier: _____

KWH: unmultiplied reading _____

GAM Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory			

	Un-Satisfactory					Un-Satisfactory			
GAM-01-R									
230600 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐					
GAM-02-R									
230550 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
GAM-115L-B									
210380 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					
GAM-124L-B									
210381 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Compressor Belt	☐	☐	☐	☐
Compressor Tank Bled	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐
GAM-146L-B									
210382 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Compressor Belt	☐	☐	☐	☐

Compressor Tank Bled	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

GAM-BAT-S

100332- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐

GAM-T1

200212 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Diaphragm in Relief Vent	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

GAM-T2

200301 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual			

GAM-VR

220577 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			

Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								
220578 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								
220579 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number :

Work Order Keyed : ☐

Print

005903 Gander Bay
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 12/14/2012

Routine Substation Inspection

Sub: **005903 Gander Bay** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐
Telephone and Directory	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

GBY-T1

Meter Number: _____ Multiplier: 1.00

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

MWH: unmultiplied reading _____

GBY-01-R

230308 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			

Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

GBY-02-R

230471 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

GBY-02-VR1

220684 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220685 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220686 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

GBY-03-R

230431 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

GBY-03-R2

230473 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐

Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

GBY-03-R3

230498 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

GBY-03-VR1

220721 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220748 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220749 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

GBY-03-VR2

220755 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

GBY-T1

200248 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐

PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual										

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

005901 Gander
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 6/12/2013

Routine Substation Inspection

Sub: **005901 Gander** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number:
	Completed By:
	Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check AC Lighting Working	☐	☐	☐	☐	Check Arc Flash Cabinet Signage In Place	☐	☐	☐	☐
Check Building for Leaks	☐	☐	☐	☐	Check DC Lighting Working	☐	☐	☐	☐
Check Eye Wash Station OK	☐	☐	☐	☐	Check Fence OK	☐	☐	☐	☐
Check Fire Extinguisher in Place and Charged	☐	☐	☐	☐	Check First Aid Kit Contents Ok	☐	☐	☐	☐
Check for Any Risk to System Reliability	☐	☐	☐	☐	Check For Oil Leaks	☐	☐	☐	☐
Check For Vandalism	☐	☐	☐	☐	Check Gates and Locks OK	☐	☐	☐	☐
Check Ground Sticks OK	☐	☐	☐	☐	Check High Voltage Danger Signs in Place	☐	☐	☐	☐
Check Hot Sticks OK	☐	☐	☐	☐	Check to See if Snow Clearing is Required	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

GAN-S/S

Meter Number: _____ Multiplier: 10.00

KWH: unmultiplied reading _____

Gander Service Building

Meter Number: _____ Multiplier: 1.00

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

GAN Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

GAN-01-B

210115 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

GAN-02-B

210141 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

GAN-03-B

210112 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local				Breaker Status	Closed			

	Remote					Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

GAN-04-B

210114 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

GAN-102L-B

210092 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

GAN-108L-B

210093 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐

Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

GAN-144L-B

210062 - CB-Min Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐					

GAN-146L-B

210063 - CB-Min Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐					

GAN-BAT-S

100310- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐

GAN-CHR

110235 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

GAN-T1

200249 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Counter	_____			
Diaphragm in Relief Vent	☐	☐	☐	☐	Drag Hand Reset	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐

Max Drag Hand Pos.	_____				Max Oil Temp	_____						
Max Winding Temp	_____				Min Drag Hand Pos.	_____						
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐			
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐			
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual						

GAN-T1-B

210723 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

GAN-T2

200175 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Counter	_____			
Diaphragm in Relief Vent	☐	☐	☐	☐	Drag Hand Reset	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual			

GAN-T2-B

210095 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

GAN-T3

200001 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Diaphragm in Relief Vent	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

200003 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Diaphragm in Relief Vent	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

200004 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Diaphragm in Relief Vent	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

Gander Service Building

100375 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Filled	No Yes								

110178 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

110179 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

003903 Garnish
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 6/29/2011

Routine Substation Inspection

Sub: **003903 Garnish** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check AC Lighting Working	☐	☐	☐	☐	Check Arc Flash Cabinet Signage In Place	☐	☐	☐	☐
Check Arc Flash Suits Available	☐	☐	☐	☐	Check Building for Leaks	☐	☐	☐	☐
Check DC Lighting Working	☐	☐	☐	☐	Check Eye Wash Station OK	☐	☐	☐	☐
Check Fence OK	☐	☐	☐	☐	Check Fire Extinguisher in Place and Charged	☐	☐	☐	☐
Check First Aid Kit Contents Ok	☐	☐	☐	☐	Check for Any Risk to System Reliability	☐	☐	☐	☐
Check For Oil Leaks	☐	☐	☐	☐	Check For Vandalism	☐	☐	☐	☐
Check Gates and Locks OK	☐	☐	☐	☐	Check Ground Sticks OK	☐	☐	☐	☐
Check High Voltage Danger Signs in Place	☐	☐	☐	☐	Check Hot Sticks OK	☐	☐	☐	☐
Check to See if Snow Clearing is Required	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

GAR-S/S

Meter Number: _____460877

Multiplier: _____1.00

KWH: unmultiplied reading _____

Multiplier Correct? ☐ ☐ ☐ ☐

MVA: unmultiplied reading _____

GAR-01-R

230567 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Instantaneous Amps Phase A	_____				Instantaneous Amps Phase B	_____			
Instantaneous Amps Phase C	_____				Peak Mthly Demand KW	_____			
Physical Condition	☐	☐	☐	☐	Power Factor	_____			

GAR-01-VR1

220628 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220629 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220630 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

GAR-T1

200198 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Condition of control cabinet door (especially hinges)	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
KWH (Dial)	_____				Lubrication	☐	☐	☐	☐
MVA Demand	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

007907 Gillams
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 6/29/2011

Routine Substation Inspection

Sub: **007907 Gillams** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Housekeeping	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

GIL-T1

Meter Number:	142488	Multiplier:	4800.00
KVA: unmultiplied reading	_____	KWH: unmultiplied reading	_____
Multiplier Correct?	☐ ☐ ☐ ☐		

GIL-01-R

230415 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

GIL-01-VR1

220297 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220303 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220351 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

GIL-02-R

230421 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

GIL-02-VR1

220545 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220580 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220581 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

GIL-T1

200288 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

GIL-VR

220645 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220646 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220647 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

001934 Glendale
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 3/7/2014

Routine Substation Inspection

Sub: **001934 Glendale** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐
Wall Cabinet	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Relay Targets	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cable Trench Covers	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Potheads and Cables	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

GDL-S/S

Meter Number:	38396102	Multiplier:	1.00
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
VA: unmultiplied reading	_____		

GDL-T1

Meter Number:	8881355	Multiplier:	28800.00

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

GDL-T2

Meter Number: _____2235054 Multiplier: _____28800.00

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

GDL Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

GDL-01-B

210767 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

GDL-02-B

210769 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

GDL-04-B

210774 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

GDL-05-B

210770 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐

Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

GDL-06-B

210775 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

GDL-07-B

210773 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

GDL-08-B

210771 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

GDL-18L-B

210149 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

GDL-73L-B

210151 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

GDL-BAT-S

100371 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Filled	No Yes				Fluid Film	☐	☐	☐	☐
Pilot Cell Temperature oC	_____								

GDL-CHG

110276 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

GDL-T1

200344 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

GDL-T1-B

210772 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

GDL-T1/T2-B

210754 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

GDL-T2

200332 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

GDL-T2-B

210776 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

GDL-T2/T3-B

210753 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

GDL-T3

200363 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐

Cabinet Light	☐	☐	☐	☐	Check Oil Leaks	☐	☐	☐	☐
Condition of control cabinet door (especially hinges)	☐	☐	☐	☐	Condition of Filter and Water Flow in Pipe Satisfactory?	☐	☐	☐	☐
Counter	_____				Drag Hand Reset	☐	☐	☐	☐
External Filter on Petro Pipe?	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

GDL-T3-B

210777 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

005923 Glenwood
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/23/2012

Routine Substation Inspection

Sub: **005923 Glenwood** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check AC Lighting Working	☐	☐	☐	☐	Check Arc Flash Suits Available	☐	☐	☐	☐
Check Building for Leaks	☐	☐	☐	☐	Check DC Lighting Working	☐	☐	☐	☐
Check Eye Wash Station OK	☐	☐	☐	☐	Check Fence OK	☐	☐	☐	☐
Check Fire Extinguisher in Place and Charged	☐	☐	☐	☐	Check First Aid Kit Contents Ok	☐	☐	☐	☐
Check for Any Risk to System Reliability	☐	☐	☐	☐	Check For Oil Leaks	☐	☐	☐	☐
Check For Vandalism	☐	☐	☐	☐	Check Gates and Locks OK	☐	☐	☐	☐
Check Ground Sticks OK	☐	☐	☐	☐	Check High Voltage Danger Signs in Place	☐	☐	☐	☐
Check Hot Sticks OK	☐	☐	☐	☐	Check to See if Snow Clearing is Required	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

GLN-S/S

Meter Number: _____371224 Multiplier: _____1.00

KWH: unmultiplied reading _____

GLN-T1

Meter Number: _____96 Multiplier: _____7.20

KVA: unmultiplied reading _____ KWH: unmultiplied reading _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

GLN-BAT-S

100201 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Vent	☐	☐	☐	☐					

GLN-T1

200300 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

005909 Glovertown
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 7/12/2013

Routine Substation Inspection

Sub: **005909 Glovertown** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐
Telephone and Directory	☐	☐	☐	☐	Wall Cabinet	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

GLV Building

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

GLV-S/S

Meter Number: 444457 Multiplier: 1.00

KWH: unmultiplied reading _____

GLV-01-R

230556 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

GLV-02-R

230573 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

GLV-02-R2

230456 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

GLV-02-VR1

220590 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220642 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220740 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Grounding	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Max Drag Hand Position	_____			
Min Drag Hand Position	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

GLV-02-VR2

220752 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Grounding	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Max Drag Hand Position	_____			
Min Drag Hand Position	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

GLV-BAT-S

	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

100311- Battery									
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐

GLV-CHG

110234 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

GLV-T1

200275 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual			

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

001905 Goulds
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 3/21/2013

Routine Substation Inspection

Sub: **001905 Goulds** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C
Heaters	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Potheads and Cables	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

GOU Building

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

GOU-S/S

Meter Number: 60 108 625 Multiplier: 1.00

KWH: unmultiplied reading _____

GOU-T3-B

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

GOU Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory			

Un-Satisfactory Un-Satisfactory

GOU-01-R

230589 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Instantaneous Amps Phase A	_____				Instantaneous Amps Phase B	_____			
Instantaneous Amps Phase C	_____				Peak Mthly Demand KW	_____			
Physical Condition	☐	☐	☐	☐	Power Factor	_____			

GOU-02-R

230590 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Instantaneous Amps Phase A	_____				Instantaneous Amps Phase B	_____			
Instantaneous Amps Phase C	_____				Peak Mthly Demand KW	_____			
Physical Condition	☐	☐	☐	☐	Power Factor	_____			

GOU-03-R

230591 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Instantaneous Amps Phase A	_____				Instantaneous Amps Phase B	_____			
Instantaneous Amps Phase C	_____				Peak Mthly Demand KW	_____			
Physical Condition	☐	☐	☐	☐	Power Factor	_____			

GOU-17L-B1

210091 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Compressor Belt	☐	☐	☐	☐	Compressor Tank Bled	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

GOU-17L-B2

210024 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure - Phase A	_____			
Gas Pressure - Phase B	_____				Gas Pressure - Phase C	_____			

Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

GOU-18L-B

210742 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Compressor Tank Bled	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure - Phase A	_____			
Gas Pressure - Phase B	_____				Gas Pressure - Phase C	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

GOU-25L-B

210657 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐

GOU-3L-B

210704 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Compressor Belt	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Gas Pressure - Phase A	_____			
Gas Pressure - Phase B	_____				Gas Pressure - Phase C	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

GOU-4L-B

210230 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			

Breaker Status	Closed Open				Bushings	☐	☐	☐	☐		
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐		
Compressor Belt	☐	☐	☐	☐	Compressor Tank Bled	☐	☐	☐	☐		
Conduits	☐	☐	☐	☐	Counter	_____					
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐		
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____					
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐		
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Max Amps Phase A	_____					
Max Amps Phase B	_____				Max Amps Phase C	_____					
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐		

GOU-72L-B

210697 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

GOU-BAT-S

100287- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

GOU-CHG

110209 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

GOU-T1

200124 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Oil Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

GOU-T2

200292 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐

Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Indication Button on Pressure Relief Device	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
MVA (Dial)	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

GOU-T2-B

210242 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

GOU-T3

200257 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Indication Button on Pressure Relief Device	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual			

GOU-T3-B

210680 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐

Counter	_____	Equipment Identification	☐ ☐ ☐ ☐
Foundation	☐ ☐ ☐ ☐	Grounding	☐ ☐ ☐ ☐
Hinges / Hasps / Latches and Handles	☐ ☐ ☐ ☐	Lubrication	☐ ☐ ☐ ☐
Max Amps Phase A	_____	Max Amps Phase B	_____
Max Amps Phase C	_____	Physical Condition	☐ ☐ ☐ ☐
Springs Charged	☐ ☐ ☐ ☐		

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

008931 Grand Bay
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 1/4/2012

Routine Substation Inspection

Sub: **008931 Grand Bay** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	Exit Sign	☐	☐	☐	☐
Fire Extinguisher	☐	☐	☐	☐	First Aid Kit	☐	☐	☐	☐
Flashlight	☐	☐	☐	☐	Hard Hats	☐	☐	☐	☐
Heaters	☐	☐	☐	☐	Housekeeping	☐	☐	☐	☐
Spare Power Fuses	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Capacitor Banks	☐	☐	☐	☐	Lightning Arrestors	☐	☐	☐	☐
Potential Transformers	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

GBS Grid Meter

Meter Number:	P61142	Multiplier:	
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	

GBS-S/S

Meter Number:	254431	Multiplier:	60.00
KWH: unmultiplied reading		Multiplier Correct?	☐ ☐ ☐ ☐

GBS-T1

Meter Number:	2521384	Multiplier:	14.40

KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐

GBS Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

GBS-01-R

230385 - Recloser-Relay	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Block Reclose Switch in Mech. Comp.	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐

GBS-02-R

230358 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

GBS-02-VR1

220678 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220681 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220683 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Reset	No Yes			

GBS-215L-B

210068 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐

Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

GBS-416L-B

210071 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

GBS-417L-B

210070 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

GBS-BAT-S

100185 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Apron and Goggles	☐	☐	☐	☐	Cleanliness	☐	☐	☐	☐
Condition of Posts	☐	☐	☐	☐	Eye Wash	☐	☐	☐	☐
Fan or Vent	☐	☐	☐	☐	Filled	No Yes			
Fluid Film	☐	☐	☐	☐	Hydrometer	☐	☐	☐	☐
Pilot Cell Temperature oC	_____				Specific Gravity of Pilot Cell	_____			

GBS-T1

200134 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐

Drag Hand Reset	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number :

Work Order Keyed : ☐

Print

003906 Grand Beach
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/30/2012

Routine Substation Inspection

Sub: **003906 Grand Beach** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check Fence OK	☐	☐	☐	☐	Check for Any Risk to System Reliability	☐	☐	☐	☐
Check For Oil Leaks	☐	☐	☐	☐	Check For Vandalism	☐	☐	☐	☐
Check Gates and Locks OK	☐	☐	☐	☐	Check High Voltage Danger Signs in Place	☐	☐	☐	☐
Check to See if Snow Clearing is Required	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

GBE-01-R

Meter Number:	_____	Multiplier:	_____
KVA: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

GBE-T1

Meter Number:	_____	Multiplier:	_____
KVA: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

GBE-01-R

230285 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐

GBE-01-VR1

220068 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

GBE-T1

200203 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundation	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
KWH (Dial)	_____				Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				MVA Demand	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

006904 Grand Falls
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/12/2012

Routine Substation Inspection

Sub: **006904 Grand Falls** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potheads and Cables	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

GFS

Meter Number: _____3449890 Multiplier: _____10.00

KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

GFS-105L-B

Meter Number:	_____	Multiplier:	_____
KVA: unmultiplied reading	_____	KWH: unmultiplied reading	_____
Multiplier Correct?	☐ ☐ ☐ ☐		

GFS Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

GFS-01-B

210272 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

GFS-03-B

210266 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

GFS-04-B

210267 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

GFS-05-B

210271 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

GFS-105L-B

210719 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Compressor Belt	☐	☐	☐	☐	Compressor Tank Bled	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure	☐	☐	☐	☐	Gas Pressure	_____			
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			

Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐		
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐		
Max Amps Phase A	_____				Max Amps Phase B	_____					
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐		
Springs Charged	☐	☐	☐	☐							

GFS-BAT-S (4KV)

100269 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

GFS-CHG

110183 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

GFS-Spare Breakers

210268 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Cubicle Heater	☐	☐	☐	☐
Cubicle Light	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

210269 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Cubicle Heater	☐	☐	☐	☐
Cubicle Light	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

210270 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Cubicle Heater	☐	☐	☐	☐
Cubicle Light	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

GFS-T5

200189 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Foundation	☐	☐	☐	☐

Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

GFS-T5-B

210265 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐					

Special Instructions:

Description	Date Complete	Notes
Record the type, size and test date of all ground and switch sticks at the sub. Note any outstanding requests to replace sticks which are supposed to be at the sub.	2013/04/23	completed

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :
1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)

4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

003915 Greenhill
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/12/2012

Routine Substation Inspection

Sub: **003915 Greenhill** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check AC Lighting Working	☐	☐	☐	☐	Check Arc Flash Cabinet Signage In Place	☐	☐	☐	☐
Check Arc Flash Suits Available	☐	☐	☐	☐	Check Building for Leaks	☐	☐	☐	☐
Check DC Lighting Working	☐	☐	☐	☐	Check Eye Wash Station OK	☐	☐	☐	☐
Check Fence OK	☐	☐	☐	☐	Check Fire Extinguisher in Place and Charged	☐	☐	☐	☐
Check First Aid Kit Contents Ok	☐	☐	☐	☐	Check for Any Risk to System Reliability	☐	☐	☐	☐
Check For Oil Leaks	☐	☐	☐	☐	Check For Vandalism	☐	☐	☐	☐
Check Gates and Locks OK	☐	☐	☐	☐	Check Ground Sticks OK	☐	☐	☐	☐
Check High Voltage Danger Signs in Place	☐	☐	☐	☐	Check Hot Sticks OK	☐	☐	☐	☐
Check to See if Snow Clearing is Required	☐	☐	☐	☐					

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Suppression System	☐	☐	☐	☐
Telephone and Directory	☐	☐	☐	☐	Wall Cabinet	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Potheads and Cables	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

GRH-S/S

Meter Number:	60-092-382	Multiplier:	400.00
KWH: unmultiplied reading		Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading			

GRH-T1

Meter Number:		Multiplier:	
KWH: unmultiplied reading		Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading			

GRH-T2

Meter Number:	4-593-582	Multiplier:	28.80
KVA: unmultiplied reading		KWH: unmultiplied reading	
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	

GRH Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

GRH-01-B

210222 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

GRH-02-B

210213 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐

Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

GRH-02-VR1

220434 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220435 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220463 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

GRH-03-B

210365 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

GRH-301L-B

210647 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Gas Pressure - Phase A	_____			
Gas Pressure - Phase B	_____				Gas Pressure - Phase C	_____			

Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

GRH-305L-B

210656 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Gas Pressure - Phase A	_____			
Gas Pressure - Phase B	_____				Gas Pressure - Phase C	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

GRH-BAT-S

100334- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

GRH-BAT-T (TURBINE)

100329- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

GRH-C1-B

210577 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure	☐	☐	☐	☐	Gas Pressure	_____			
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

GRH-CHG

110255- Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

GRH-CHG (TURBINE)

110257- Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Charger Current A	_____	Equalize Voltage V	_____
Equip. Current A	_____	Float Voltage V	_____

GRH-G-B

210524 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

GRH-T1

200282 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

GRH-T2

200310 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual			

GRH-T2-B

210225 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐

Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

005921 Greenspond
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 6/14/2013

Routine Substation Inspection

Sub: **005921 Greenspond** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Equipment Identification	☐	☐	☐	☐	Meters	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

GPD-S/S

Meter Number: _____371168 Multiplier: _____1.00
KWH: unmultiplied reading _____

GPD-01-R

230548 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

GPD-01-VR1

220296 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220611 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐

Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								
220784 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

GPD-T1

200210 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Diaphragm in Relief Vent	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Oil Temp	_____			
MVA Demand	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)

4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

002912 Harbour Grace
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 1/29/2014

Routine Substation Inspection

Sub: **002912 Harbour Grace** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐
Telephone and Directory	☐	☐	☐	☐	Wall Cabinet	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Potential Transformers	☐	☐	☐	☐	Potheads and Cables	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

HGR Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

HGR-01-R

230257 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Bushings and Insulators	☐	☐	☐	☐	Counter	_____				
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐	
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐	
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____				
Max Amps Phase B	_____				Max Amps Phase C	_____				
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐	

HGR-01-VR1

220350 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220441 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220442 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

HGR-02-R

230472 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

HGR-03-R

230333 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

HGR-57L-B

210127 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			

Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

HGR-68L-B

210138 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

HGR-BAT-S

100383 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Apron and Goggles	☐	☐	☐	☐	Cleanliness	☐	☐	☐	☐
Condition of Posts	☐	☐	☐	☐	Eye Wash	☐	☐	☐	☐
Fan or Vent	☐	☐	☐	☐	Filled	No Yes			
Fluid Film	☐	☐	☐	☐	Hydrometer	☐	☐	☐	☐
Pilot Cell Temperature oC	_____				Specific Gravity of Pilot Cell	_____			

HGR-CHG

110301 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

HGR-T1

200219 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Condition of control cabinet door (especially hinges)	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

HGR-T2

200229 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

001906 Hardwoods
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 1/15/2013

Routine Substation Inspection

Sub: **001906 Hardwoods** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐
Wall Cabinet	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Potheads and Cables	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

HWD Buildings (2)

Meter Number:	_____	Multiplier:	_____
KVA: unmultiplied reading	_____	KWH: unmultiplied reading	_____
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____

HWD-12.5KV-S/S

Meter Number:	227	Multiplier:	1.00

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐
MVA: unmultiplied reading _____

HWD-12.5KV-S/S-2

Meter Number: _____223835 Multiplier: _____1.00
KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐
MVA: unmultiplied reading _____

HWD-25KV-S/S

Meter Number: _____404563 Multiplier: _____
KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐
MVA: unmultiplied reading _____

HWD-T1-DB

Meter Number: _____ Multiplier: _____
MVA: unmultiplied reading _____

HWD-01-B

210103 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

HWD-02-B

210102 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

HWD-03-B

210599 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

HWD-04-B

210669 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

HWD-06-B

210101 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

HWD-07-B

210642 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

HWD-08-B

210641 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

HWD-19L-B

210117 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐

Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

HWD-49L-B

210202 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

HWD-54L-B

210706 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Gas Pressure - Phase A	_____			
Gas Pressure - Phase B	_____				Gas Pressure - Phase C	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

HWD-5L-B

210203 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

HWD-72L-B

210571 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Compressor Belt	☐	☐	☐	☐	Compressor Tank Bled	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

HWD-73L-B

210579 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Compressor Belt	☐	☐	☐	☐	Compressor Tank Bled	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐					

HWD-79L-B

210185 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

HWD-BAT-E

100335- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐

Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

HWD-BAT-W

100370 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Apron and Goggles	☐	☐	☐	☐	Cleanliness	☐	☐	☐	☐
Condition of Posts	☐	☐	☐	☐	Eye Wash	☐	☐	☐	☐
Fan or Vent	☐	☐	☐	☐	Filled	No Yes			
Fluid Film	☐	☐	☐	☐	Hydrometer	☐	☐	☐	☐
Pilot Cell Temperature oC	_____								

HWD-CHG-E

110258 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

HWD-CHG-W

110124 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

HWD-T1

200271 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

HWD-T1-B

210122 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

HWD-T2

200236 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐

Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

HWD-T2-B

210123 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

HWD-T3

200341 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

HWD-T3-B

210600 - CB-VACUUM	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

HWDE Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

HWDW Telecommunication Equipment				
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory	Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory	

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

005906 Hare Bay
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/19/2012

Routine Substation Inspection

Sub: **005906 Hare Bay** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	Exit Sign	☐	☐	☐	☐
Fire Extinguisher	☐	☐	☐	☐	First Aid Kit	☐	☐	☐	☐
Flashlight	☐	☐	☐	☐	Hard Hats	☐	☐	☐	☐
Heaters	☐	☐	☐	☐	Housekeeping	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

HBS Telecommunication Equipment

RTU - SAGE 1150	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

HBS-01-R

230541 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Instantaneous Amps Phase A	_____			
Instantaneous Amps Phase B	_____				Instantaneous Amps Phase C	_____			

Physical Condition	☐	☐	☐	☐

HBS-02-R

230586 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

HBS-BAT

100254 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐

HBS-CHG

110159 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Float Voltage V	_____								

HBS-T1

200231 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Condition of control cabinet door (especially hinges)	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number : Work Order Keyed : ☐

Print

008910 Harmon
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 1/20/2010

Routine Substation Inspection

Sub: **008910 Harmon** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

HAR-S/S

Meter Number: _____313427 Multiplier: _____1.00

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

MVA: unmultiplied reading _____

HAR-T1

Meter Number: _____185998 Multiplier: _____7.20

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

HAR-01-R

230533 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

HAR-02-R

230534 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

HAR-T1

200208 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number :

Work Order Keyed : ☐

Print

002913 Hearts Content
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/18/2012

Routine Substation Inspection

Sub: **002913 Hearts Content** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐
Telephone and Directory	☐	☐	☐	☐	Wall Cabinet	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Potential Transformers	☐	☐	☐	☐	Potheads and Cables	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

HCT Telecommunication Equipment									

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

HCT-41L-B

210623 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

HCT-43L-B

210226 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Compressor Belt	☐	☐	☐	☐	Compressor Tank Bled	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐					

HCT-80L-B

210695 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Gas Pressure - Phase A	_____			
Gas Pressure - Phase B	_____				Gas Pressure - Phase C	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

HCT-BAT-S

100194 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Apron and Goggles	☐	☐	☐	☐	Cleanliness	☐	☐	☐	☐
Condition of Posts	☐	☐	☐	☐	Eye Wash	☐	☐	☐	☐
Fan or Vent					Filled	No			

	☐	☐	☐	☐						Yes
Fluid Film	☐	☐	☐	☐	Hydrometer	☐	☐	☐	☐	
Pilot Cell Temperature oC	_____				Specific Gravity of Pilot Cell	_____				

HCT-CHG

110026 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

HCT-G-B

210643 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

HCT-T1

200094 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Diaphragm in Relief Vent	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	KWH (Dial)	_____			
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
MVA Demand	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

HCT-T3

200184 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	KWH (Dial)	_____			
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
MVA Demand	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

002933 Holyrood
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 2/14/2014

Routine Substation Inspection

Sub: **002933 Holyrood** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Potential Transformers	☐	☐	☐	☐	Potheads and Cables	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

HOL-02-R

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

HOL-BAT-S

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

HOL-T1

Meter Number: 251474 Multiplier: 12.00

KVA: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

MVA: unmultiplied reading _____

HOL-01-R

230465 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

HOL-01-VR1

220102 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220710 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220719 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

HOL-02-R

230595 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Instantaneous Amps Phase A	_____				Instantaneous Amps Phase B	_____			
Instantaneous Amps Phase C	_____				Peak Mthly Demand KW	_____			
Physical Condition	☐	☐	☐	☐	Power Factor	_____			

HOL-BAT-S

100313 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

HOL-CHG

110263- Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

HOL-T1

200306 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual			

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

001908 Horse Chops
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/28/2011

Routine Substation Inspection

Sub: **001908 Horse Chops** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potheads and Cables	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

HCP Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A			

Satisfactory
Un-Satisfactory

Satisfactory
Un-Satisfactory

HCP-BAT-G

100328- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

HCP-G-B

210611 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

007911 Howley
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 6/29/2011

Routine Substation Inspection

Sub: **007911 Howley** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐
Wall Cabinet	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Potheads and Cables	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

HOW-T2-D1

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐

HOW-T2-D2

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐

HOW-T3

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐

HOW-01-R

230371 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

HOW-T3

200600 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Indication Button on Pressure Relief Device	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
MVA Demand	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

007903 Humber
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/12/2012

Routine Substation Inspection

Sub: **007903 Humber** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number:
	Completed By:
	Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats (2)	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Potheads and Cables	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

HUM-S/S

Meter Number: _____3696823 Multiplier: _____1.00

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

HUM Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

HUM-02-B

210396 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

HUM-03-B

210392 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

HUM-04-B

210394 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

HUM-05-B

210391 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

HUM-06-B

210395 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

HUM-07-B

210397 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

HUM-09-R

230577 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

HUM-356L-B

210689 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Compressor Belt	☐	☐	☐	☐
Compressor Tank Bled	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

HUM-359L-B

210065 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

HUM-BAT-S

100322- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

HUM-T1-B

210390 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

HUM-T2

200122 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Counter	_____			
Diaphragm in Relief Vent	☐	☐	☐	☐	Drag Hand Reset	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Min Drag Hand Pos.	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

HUM-T3

200258 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual			

HUM-T3-B

210283 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐

Lubrication	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

006917 Indian River
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 11/18/2011

Routine Substation Inspection

Sub: **006917 Indian River** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C
Exit Sign	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C
Equipment Identification	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

BVJ-T1

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

BVJ-01-R1

230434 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

BVJ-T1

200320 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Condition of control cabinet door (especially hinges)	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐

Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
MVA Demand	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

002939 Island Cove
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 6/29/2011

Routine Substation Inspection

Sub: **002939 Island Cove** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

ILC-T1

Meter Number:	108084	Multiplier:	7.20
KVA: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

ILC-01-R

230474 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

ILC-02-R

230423 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐

Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

ILC-02-VR1

220147 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

ILC-T1

200263 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

002930 Islington
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 7/12/2011

Routine Substation Inspection

Sub: **002930 Islington** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

ISL-T1

Meter Number:	169638	Multiplier:	4.80
KVA: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

ISL-01-R

230419 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐

Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

ISL-01-VR1

220474 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220602 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220665 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

ISL-T1

200090 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

005920 Jonathan's Pond
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 1/22/2010

Routine Substation Inspection

Sub: **005920 Jonathan's Pond** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐					

General Metering

JON-T1

Meter Number:	_____	Multiplier:	_____
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____

JON-T1

200102 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundation	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work :

Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

001938 Kelligrews
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 12/18/2013

Routine Substation Inspection

Sub: **001938 Kelligrews** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Current Transformers	☐	☐	☐	☐	Lightning Arrestors	☐	☐	☐	☐
Potential Transformers	☐	☐	☐	☐	Potheads and Cables	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

KEL Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

KEL-01-R

230605 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Gas Pressure	_____			
Grounding	☐	☐	☐	☐	Instantaneous Amps Phase A	_____			
Instantaneous Amps Phase B	_____				Instantaneous Amps Phase C	_____			
Peak Mthly Demand KW	_____				Physical Condition	☐	☐	☐	☐
Power Factor	_____								

KEL-02-R

230606 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Gas Pressure	_____			
Grounding	☐	☐	☐	☐	Instantaneous Amps Phase A	_____			
Instantaneous Amps Phase B	_____				Instantaneous Amps Phase C	_____			
Peak Mthly Demand KW	_____				Physical Condition	☐	☐	☐	☐
Power Factor	_____								

KEL-03-R

230631 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Gas Pressure	_____			
Grounding	☐	☐	☐	☐	Instantaneous Amps Phase A	_____			
Instantaneous Amps Phase B	_____				Instantaneous Amps Phase C	_____			
Peak Mthly Demand KW	_____				Physical Condition	☐	☐	☐	☐
Power Factor	_____								

KEL-03-VR1

220641 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220750 Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

KEL-51L-B

210354 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Oil Leaks	☐	☐	☐	☐

Oil Level	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

KEL-52L-B

210699 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Gas Pressure - Phase A	_____			
Gas Pressure - Phase B	_____				Gas Pressure - Phase C	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

KEL-BAT-S

100352-Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

KEL-CHG

110268 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

KEL-T1-B

210729- CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work :

Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

001935 Kenmount
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/19/2012

Routine Substation Inspection

Sub: **001935 Kenmount** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐
Wall Cabinet	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

KEN-BAT-C

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

KEN-S/S

Meter Number: 490516 Multiplier: 1.00

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

MVA: unmultiplied reading _____

KEN-T1

Meter Number: _____ Multiplier: _____38400.00

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

KEN-T2

Meter Number: _____ Multiplier: _____38400.00

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

KEN Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

KEN-01-B

210711 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

KEN-02-B

210379 - CB-Min Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

KEN-03-B

210568 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Compressor Belt	☐	☐	☐	☐
Compressor Tank Bled	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

KEN-04-B

210572 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

KEN-35L-B

210720 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

KEN-54L-B

210142 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

KEN-69L-B

210144 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

KEN-BAT-C

100285- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

KEN-CHG

110237 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

KEN-T1

200329 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

KEN-T1-B

210732- CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

KEN-T2

200342 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

KEN-T2-B

210542 - CB-Min Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			

Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

001909 Kings Bridge
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/19/2012

Routine Substation Inspection

Sub: **001909 Kings Bridge** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐
Wall Cabinet	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Current Transformers	☐	☐	☐	☐	Lightning Arrestors	☐	☐	☐	☐
Potential Transformers	☐	☐	☐	☐	Potheads and Cables	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

KBR

Meter Number:	_____	Multiplier:	_____
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____

KBR-S/S

Meter Number:	433485	Multiplier:	10.00
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

KBR-T3-B

Meter Number:	5285143	Multiplier:	1000.00
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐

KBR Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

KBR-01-B

210008 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

KBR-02-B

210292 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

KBR-03-B

210544 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

KBR-04-B

210007 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

KBR-05-B

210330 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

KBR-06-B

210294 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

KBR-07-B

210296 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

KBR-08-B

210291 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

KBR-09-B

210348 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

KBR-10-B

210302 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			

Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

KBR-11-B

210349 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

KBR-12-B

210350 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

KBR-12L-B

210145 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

KBR-16L-B

210227 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

KBR-30L-B

210698 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local				Breaker Status	Closed			

	Remote					Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

KBR-BAT-S

100327- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

KBR-CHG

110254- Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

KBR-SPARE

210006 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

KBR-T1

200131 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Oil Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

KBR-T1-B

210344 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

KBR-T2

200130 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Oil Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

KBR-T2-B

210345 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

KBR-T3

200293 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

KBR-T3-B

210346 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

KBR-TB-3-5-B

210347 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

003914 Laurentian
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/16/2012

Routine Substation Inspection

Sub: **003914 Laurentian** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number:
	Completed By:
	Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐
Wall Cabinet	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

LAU-S/S

Meter Number:	413440	Multiplier:	1.00
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

LAU-T1

Meter Number:	_____	Multiplier:	9.60

KVA: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

MVA: unmultiplied reading _____

LAU Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

LAU-01-R

230599 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Gas Pressure	_____			
Grounding	☐	☐	☐	☐	Instantaneous Amps Phase A	_____			
Instantaneous Amps Phase B	_____				Instantaneous Amps Phase C	_____			
Peak Mthly Demand KW	_____				Physical Condition	☐	☐	☐	☐
Power Factor	_____								

LAU-302L-B

210090 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

LAU-305L-B

210705 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

LAU-901E-B

210677 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			

Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure	☐	☐	☐	☐	Gas Pressure	_____			
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

LAU-BAT-S

100366 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

LAU-CHG

110187 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

LAU-T1

200298 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Counter	_____			
Diaphragm in Relief Vent	☐	☐	☐	☐	Drag Hand Reset	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual			

Remarks / Details of Work Completed :

Follow Up Work :

(1) _____

Suggested Priority :

1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

003907 Lawn
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/26/2011

Routine Substation Inspection

Sub: **003907 Lawn** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check AC Lighting Working	☐	☐	☐	☐	Check Arc Flash Cabinet Signage In Place	☐	☐	☐	☐
Check Building for Leaks	☐	☐	☐	☐	Check DC Lighting Working	☐	☐	☐	☐
Check Eye Wash Station OK	☐	☐	☐	☐	Check Fire Extinguisher in Place and Charged	☐	☐	☐	☐
Check First Aid Kit Contents Ok	☐	☐	☐	☐	Check for Any Risk to System Reliability	☐	☐	☐	☐
Check For Oil Leaks	☐	☐	☐	☐	Check For Vandalism	☐	☐	☐	☐
Check Gates and Locks OK	☐	☐	☐	☐	Check Ground Sticks OK	☐	☐	☐	☐
Check High Voltage Danger Signs in Place	☐	☐	☐	☐	Check Hot Sticks OK	☐	☐	☐	☐
Check to See if Snow Clearing is Required	☐	☐	☐	☐					

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Signage	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐
Wall Cabinet	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐

Vandalism	☐	☐	☐	☐

General Metering

LWN-S/S

Meter Number:	368471	Multiplier:	10.00
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

LWN Telecommunication Equipment

RTU - SAGE 1150

	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

LWN-BAT-G

100330- Battery

	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

LWN-CHG-G

110256- Charger

Charger Current A	_____	Equalize Voltage V	_____
Equip. Current A	_____	Float Voltage V	_____

LWN-G-B

210664 - CB-Air

	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Cubicle Light	☐	☐	☐	☐
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

004906 Lethbridge
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 2/4/2013

Routine Substation Inspection

Sub: **004906 Lethbridge** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

LET-T1

Meter Number:	185630	Multiplier:	7200.00
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐

LET-01-R

230420 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

LET-01-VR1

220593 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220595 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220789 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

LET-01-VR2

220130 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220469 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

LET-T1

200289 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

006906 Lewisporte
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 5/16/2013

Routine Substation Inspection

Sub: **006906 Lewisporte** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Metering Cabinet	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

LEW Building

Meter Number: _____ Multiplier: _____
Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

LEW-S/S

Meter Number: _____ Multiplier: _____
Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

LEW-T1

Meter Number: 221473 Multiplier: 28.80
KVA: unmultiplied reading _____ KWH: unmultiplied reading _____
Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

LEW-01-R

230494 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater					Lockout Indicating Lamp				

	☐	☐	☐	☐		☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

LEW-01-R2

230497 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

LEW-01-VR1

220779 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

LEW-02-R

230447 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐					

LEW-02-R2

230274 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

LEW-02-R3

230296 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

LEW-02-VR1

220334 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220425 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220547 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

LEW-02-VR2

220499 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220501 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

LEW-02-VR3

220542 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

LEW-03-R

230463 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			

LEW-03-R2

230204 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

LEW-03-VR1

220635 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Reset	No Yes			

LEW-04-R

230483 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

LEW-BAT-S

100338 -Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

LEW-T1

200340 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Counter	_____			
Diaphragm in Relief Vent	☐	☐	☐	☐	Drag Hand Reset	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Indication Button on Pressure Relief Device	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Drag Hand Pos.	_____			
Max Oil Temp	_____				Max Winding Temp	_____			
Min Drag Hand Pos.	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

Special Instructions:

Description	Date Complete	Notes
Record the type, size and test date of all ground and switch sticks at the sub. Note any outstanding requests to replace sticks which are supposed to be at the sub.	2013/04/25	completed

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

003908 Linton Lake
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/12/2012

Routine Substation Inspection

Sub: **003908 Linton Lake** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check AC Lighting Working	☐	☐	☐	☐	Check Arc Flash Cabinet Signage In Place	☐	☐	☐	☐
Check Building for Leaks	☐	☐	☐	☐	Check DC Lighting Working	☐	☐	☐	☐
Check Eye Wash Station OK	☐	☐	☐	☐	Check Fence OK	☐	☐	☐	☐
Check Fire Extinguisher in Place and Charged	☐	☐	☐	☐	Check First Aid Kit Contents Ok	☐	☐	☐	☐
Check for Any Risk to System Reliability	☐	☐	☐	☐	Check For Oil Leaks	☐	☐	☐	☐
Check For Vandalism	☐	☐	☐	☐	Check Gates and Locks OK	☐	☐	☐	☐
Check Ground Sticks OK	☐	☐	☐	☐	Check High Voltage Danger Signs in Place	☐	☐	☐	☐
Check Hot Sticks OK	☐	☐	☐	☐	Check to See if Snow Clearing is Required	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐
Wall Cabinet	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐

Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Current Transformers	☐	☐	☐	☐	Lightning Arrestors	☐	☐	☐	☐
Potential Transformers	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

LLK-S/S

Meter Number:	_____228109	Multiplier:	_____1.00
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

LLK Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

LLK-01-B

210658 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

LLK-02-R

230290 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

LLK-03-B

210659 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

LLK-03-VR1

220571 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220583 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220584 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

LLK-03-VR2

220680 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

LLK-BAT-S

100284- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

LLK-CHG

110204 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

LLK-T1

200281 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Condition of Filter and Water Flow in Pipe Satisfactory?	☐	☐	☐	☐	Counter	_____			
Diaphragm in Relief Vent	☐	☐	☐	☐	Drag Hand Reset	☐	☐	☐	☐
External Filter on Petro Pipe?	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			

Max Winding Temp	_____				Min Drag Hand Pos.	_____					
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐		
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐		
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual					

LLK-TL212-B

210730 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure	☐	☐	☐	☐	Gas Pressure	_____			
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

004907 Lockston
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 3/8/2013

Routine Substation Inspection

Sub: **004907 Lockston** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

LOK-S/S

Meter Number: _____441023 Multiplier: _____1.00

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

MVA: unmultiplied reading _____

LOK-T1

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

LOK-T4

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

VA: unmultiplied reading _____

LOK Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

LOK-01-R

230245 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐					

LOK-01-VR1

220480 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220491 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220617 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

LOK-01-VR2

220716 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

LOK-01-VR3

220457 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

LOK-110L-B

210132 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local				Breaker Status	Closed			

	Remote					Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

LOK-BAT-H

100325- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

LOK-CHG

110251- Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

LOK-G1-B

210763 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

LOK-G2-B

210761 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

LOK-S/S-B

210583 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Equipment Identification	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐					

LOK-T1

200176 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Diaphragm in Relief Vent	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Oil Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Spill Pan Drained	☐	☐	☐	☐

LOK-T1-B

210762 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

LOK-T2

200209 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Spill Pan Drained	☐	☐	☐	☐					

LOK-T3

200222 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐

Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

LOK-T4

200177 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Diaphragm in Relief Vent	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Oil Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Spill Pan Drained	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

008935 Long Lake
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/26/2011

Routine Substation Inspection

Sub: **008935 Long Lake** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

LGL-S/S

Meter Number:	_____	Multiplier:	_____
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐

LGL Telecommunication Equipment

RTU - SAGE 1150	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

LGL-01-R

230568 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Instantaneous Amps Phase A	_____				Instantaneous Amps Phase B	_____			
Instantaneous Amps Phase C	_____				Peak Mthly Demand KW	_____			
Physical Condition	☐	☐	☐	☐	Power Factor	_____			

LGL-02-R

230523 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐

Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

LGL-02-R2

230535 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

LGL-02-VR1

220724 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220725 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220726 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

LGL-T1

200120 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

008913 Lookout Brook
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/26/2011

Routine Substation Inspection

Sub: **008913 Lookout Brook** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐
Telephone and Directory	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potheads and Cables	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

LBK Gate House Meter

Meter Number: _____354834 Multiplier: _____1.00

KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

LBK New Shed Meter

Meter Number:	462328	Multiplier:	1.00
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

LBK Storage Shed Meter

Meter Number:	462329	Multiplier:	1.00
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

LBK-S/S-FD

Meter Number:	368493	Multiplier:	80.00
KVA: unmultiplied reading	_____	KWH: unmultiplied reading	_____
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____

LBK Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

LBK-BAT-T

100337- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

LBK-CHG

110207 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equip. Current A	_____			
Float Voltage V	_____								

LBK-G3-B

210714 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

LBK-G4-B

210713 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

LBK-T1

200112 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			

Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

LBK-T1-B

210715 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

007915 Marble Mountain
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 1/14/2010

Routine Substation Inspection

Sub: **007915 Marble Mountain** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
Fire Extinguisher	☐	☐	☐	☐	First Aid Kit	☐	☐	☐	☐
Flashlight	☐	☐	☐	☐	Hard Hats	☐	☐	☐	☐
Heaters	☐	☐	☐	☐	Housekeeping	☐	☐	☐	☐
Wall Cabinet	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

MMT-S/S

Meter Number: _____205619 Multiplier: _____1.00

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

MMT-T1

Meter Number: _____245933 Multiplier: _____7.20

KVA: unmultiplied reading _____ KWH: unmultiplied reading _____

Multiplier Correct? ☐ ☐ ☐ ☐

MMT-01-R

230484 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐

Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

MMT-T1

200091 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

003913 Marystown
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 2/1/2013

Routine Substation Inspection

Sub: **003913 Marystown** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check AC Lighting Working	☐	☐	☐	☐	Check Arc Flash Cabinet Signage In Place	☐	☐	☐	☐
Check Arc Flash Suits Available	☐	☐	☐	☐	Check Building for Leaks	☐	☐	☐	☐
Check DC Lighting Working	☐	☐	☐	☐	Check Eye Wash Station OK	☐	☐	☐	☐
Check Fence OK	☐	☐	☐	☐	Check Fire Extinguisher in Place and Charged	☐	☐	☐	☐
Check First Aid Kit Contents Ok	☐	☐	☐	☐	Check for Any Risk to System Reliability	☐	☐	☐	☐
Check For Oil Leaks	☐	☐	☐	☐	Check For Vandalism	☐	☐	☐	☐
Check Gates and Locks OK	☐	☐	☐	☐	Check Ground Sticks OK	☐	☐	☐	☐
Check High Voltage Danger Signs in Place	☐	☐	☐	☐	Check Hot Sticks OK	☐	☐	☐	☐
Check to See if Snow Clearing is Required	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

MSY-S/S

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

MSY-T1

Meter Number: _____ Multiplier: 24.00

KVA: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

MVA: unmultiplied reading _____

MSY-T1-LV

Meter Number:	_____	Multiplier:	_____
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____

MSY-01-R

230602 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Instantaneous Amps Phase A	_____			
Instantaneous Amps Phase B	_____				Instantaneous Amps Phase C	_____			

MSY-02-R

230603 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Instantaneous Amps Phase A	_____			
Instantaneous Amps Phase B	_____				Instantaneous Amps Phase C	_____			

MSY-02-VR1

220515 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220658 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

MSY-03-R

230354 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

MSY-03-VR1

220594 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220596 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220668 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

MSY-03-VR2

220112 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220182 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220782 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

MSY-04-R

230355 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

MSY-CHG

110042 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

MSY-T1

200311 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	KWH Demand	_____			
Lubrication	☐	☐	☐	☐	Max Drag Hand Pos.	_____			
Max Oil Temp	_____				Max Winding Temp	_____			

Min Drag Hand Pos.	_____	MVA (Dial)	_____
Oil Leaks	☐ ☐ ☐ ☐	Oil Level	☐ ☐ ☐ ☐
PCB Label	☐ ☐ ☐ ☐	Physical Condition	☐ ☐ ☐ ☐
Silica Gel	☐ ☐ ☐ ☐	Tapchanger Position	Automatic Manual

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

007910 Massey Drive
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 3/8/2013

Routine Substation Inspection

Sub: **007910 Massey Drive** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number:
	Completed By:
	Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Switch Blades	☐	☐	☐	☐					

MAS Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

MAS-351L-B

210726 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Compressor Belt	☐	☐	☐	☐
Compressor Tank Bled	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐

Gas Pressure	☐	☐	☐	☐	Gas Pressure	_____						
Gas Pressure - Phase A	_____				Grounding	☐	☐	☐	☐			
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐			

MAS-352L-B

210725 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	_____			
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

MAS-356L-B

210287 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Compressor Belt	☐	☐	☐	☐	Compressor Tank Bled	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

MAS-357L-B

210688 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Compressor Belt	☐	☐	☐	☐
Compressor Tank Bled	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

001929 Memorial
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 2/24/2012

Routine Substation Inspection

Sub: **001929 Memorial** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐
Wall Cabinet	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
12L Cable Pressures A	_____				12L Cable Pressures B	_____			
12L Cable Pressures C	_____				12L Cable Pressures D	_____			
12L Cable Terminations - A&C Centre	☐	☐	☐	☐	12L Cable Terminations - MUN	☐	☐	☐	☐
14L Cable Pressures A	_____				14L Cable Pressures B	_____			
14L Cable Pressures C	_____				14L Cable Pressures D	_____			

14L Cable Terminations - CBC	☐	☐	☐	☐	14L Cable Terminations - MUN	☐	☐	☐	☐
Oil Filled Cables	☐	☐	☐	☐	Potheads and Cables	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

MUN-S/S

Meter Number: 3454988 Multiplier: 10.00

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

MUN-T1

Meter Number: 2 278 503 Multiplier: 24000.00

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

MUN-T2

Meter Number: 8 854 237 Multiplier: 24000.00

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

MUN Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

MUN-12L-B

210152 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

MUN-14L-B

210155 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

MUN-BAT-S

100323- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐

Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐	Pilot Cell Temperature oC	_____			

MUN-CHG

110249- Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Equalize Voltage V	_____				Float Voltage V	_____			

MUN-T1

200142 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

MUN-T1-B

210341 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐					

MUN-T2

200273 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

MUN-T2-B

210373 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐					

MUN-TB-1-2

210372 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

004905 Milton
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 1/24/2013

Routine Substation Inspection

Sub: **004905 Milton** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number:
	Completed By:
	Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check Fence OK	☐	☐	☐	☐	Check Fire Extinguisher in Place and Charged	☐	☐	☐	☐
Check First Aid Kit Contents Ok	☐	☐	☐	☐	Check for Any Risk to System Reliability	☐	☐	☐	☐
Check For Oil Leaks	☐	☐	☐	☐	Check For Vandalism	☐	☐	☐	☐
Check Gates and Locks OK	☐	☐	☐	☐	Check Ground Sticks OK	☐	☐	☐	☐
Check High Voltage Danger Signs in Place	☐	☐	☐	☐	Check Hot Sticks OK	☐	☐	☐	☐
Check to See if Snow Clearing is Required	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

MIL-T1

Meter Number: _____473745
KVA: unmultiplied reading _____
MVA: unmultiplied reading _____

Multiplier: _____
Multiplier Correct? ☐ ☐ ☐ ☐

MIL-01-R

230481 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐

Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

MIL-02-R

230517 - Recloser-Electronic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	_____				Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

MIL-02-VR1

220794- Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Max Drag Hand Position	_____			
Min Drag Hand Position	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes				Structure	☐	☐	☐	☐
220795- Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Drag Hand Position	_____			
Min Drag Hand Position	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes				Structure	☐	☐	☐	☐
220796- Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Drag Hand Position	_____			
Min Drag Hand Position	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes				Structure	☐	☐	☐	☐

MIL-02-VR2

220655 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

MIL-T1

200339 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Drag Hand Reset	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐

Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐		
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐		
Indication Button on Pressure Relief Device	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐		
KWH Demand	_____				Lubrication	☐	☐	☐	☐		
Max Drag Hand Pos.	_____				Max Oil Temp	_____					
Max Winding Temp	_____				Min Drag Hand Pos.	_____					
MVA (Dial)	_____				Oil Leaks	☐	☐	☐	☐		
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐		
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐		
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual					

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number :

Work Order Keyed : ☐

Print

001623 Mobile Diesel 3
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 5/4/2011

Routine Substation Inspection

Sub: **001623 Mobile Diesel 3** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

General Metering

MD3 Meter

Meter Number: _____369980 Multiplier: _____1.00

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

MD3-BAT-1-G

100262 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Apron and Goggles	☐	☐	☐	☐	Cleanliness	☐	☐	☐	☐
Condition of Posts	☐	☐	☐	☐	Eye Wash	☐	☐	☐	☐
Fan or Vent	☐	☐	☐	☐	Filled	No Yes			
Fluid Film	☐	☐	☐	☐	Hydrometer	☐	☐	☐	☐
Pilot Cell Temperature oC	_____				Specific Gravity of Pilot Cell	_____			

MD3-BAT-2-G

100261 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Apron and Goggles	☐	☐	☐	☐	Cleanliness	☐	☐	☐	☐
Condition of Posts	☐	☐	☐	☐	Eye Wash	☐	☐	☐	☐
Fan or Vent	☐	☐	☐	☐	Filled	No Yes			
Fluid Film	☐	☐	☐	☐	Hydrometer	☐	☐	☐	☐
Pilot Cell Temperature oC	_____				Specific Gravity of Pilot Cell	_____			

MD3-CHG-1

110171 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

MD3-CHG-2

110170 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

Special Instructions:

Description	Date Complete	Notes
Please check for signs of silicone grease leakage on Nulec reclosers. Especially note stains around bushings.		

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

001615 Mobile Gas Turbine
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 5/4/2011

Routine Substation Inspection

Sub: **001615 Mobile Gas Turbine** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check AC Lighting Working	☐	☐	☐	☐	Check Arc Flash Cabinet Signage In Place	☐	☐	☐	☐
Check Building for Leaks	☐	☐	☐	☐	Check DC Lighting Working	☐	☐	☐	☐
Check Eye Wash Station OK	☐	☐	☐	☐	Check Fence OK	☐	☐	☐	☐
Check Fire Extinguisher in Place and Charged	☐	☐	☐	☐	Check First Aid Kit Contents Ok	☐	☐	☐	☐
Check for Any Risk to System Reliability	☐	☐	☐	☐	Check For Oil Leaks	☐	☐	☐	☐
Check For Vandalism	☐	☐	☐	☐	Check Gates and Locks OK	☐	☐	☐	☐
Check Ground Sticks OK	☐	☐	☐	☐	Check High Voltage Danger Signs in Place	☐	☐	☐	☐
Check Hot Sticks OK	☐	☐	☐	☐	Check to See if Snow Clearing is Required	☐	☐	☐	☐

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Signage	☐	☐	☐	☐	Earplugs	☐	☐	☐	☐
Outside Signage	☐	☐	☐	☐					

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Panel	☐	☐	☐	☐	Exit Sign	☐	☐	☐	☐
Fire Extinguisher	☐	☐	☐	☐	First Aid Kit	☐	☐	☐	☐
Flashlight	☐	☐	☐	☐	Hard Hats	☐	☐	☐	☐
Heaters	☐	☐	☐	☐	Housekeeping	☐	☐	☐	☐
Suppression System	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Current Transformers	☐	☐	☐	☐	Lightning Arrestors	☐	☐	☐	☐
Potential Transformers	☐	☐	☐	☐	Potheads and Cables	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

MGT Meter

Meter Number:	216558	Multiplier:	
KVA: unmultiplied reading		KWH: unmultiplied reading	
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	

MGT-T1

Meter Number:		Multiplier:	
KVA: unmultiplied reading		Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading			

MGT-BAT-T

100257 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

100258 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

MGT-CHG

110161 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A					Float Voltage V				

110162 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A					Float Voltage V				

MGT-G-B

210589 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter					Cubicle Heater	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

MGT-T1

200308 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Oil Temp					Max Winding Temp				
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

001911 Mobile
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 12/17/2012

Routine Substation Inspection

Sub: **001911 Mobile** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

MOP-T1

Meter Number:	_____	Multiplier:	_____
KVA: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

MOB Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

MOB-01-R

230616 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

MOB-01-VR1

220727 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Drag Hand Position	_____			
Min Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

220728 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Drag Hand Position	_____			
Min Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

220729 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Drag Hand Position	_____			
Min Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

MOB-02-R

230617 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

MOB-11L-B

210049 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Oil Leaks	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

MOB-20L-B

210077 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

MOB-23L-B

210707 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Gas Pressure - Phase A	_____			
Gas Pressure - Phase B	_____				Gas Pressure - Phase C	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

MOB-24L-B

210635 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure	☐	☐	☐	☐	Gas Pressure	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

MOB-BAT-S

100349 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

MOB-CHG-S

110173 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

MOB-T2

200262 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐

Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Drag Hand Pos.	_____			
Max Oil Temp	_____				Max Winding Temp	_____			
Min Drag Hand Pos.	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

MOB-T2-B

210710 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

MOB-TIE-B

210637 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

MOP Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

MOP-BAT-G

100271 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

MOP-CHG-G

110191 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

MOP-G-B

210567 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

MOP-T1

200152 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Condition of control cabinet door (especially hinges)	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	KWH (Dial)	_____			
Max Oil Temp	_____				MVA Demand	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

001913 Molloys Lane
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 2/14/2014

Routine Substation Inspection

Sub: **001913 Molloys Lane** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check AC Lighting Working	☐	☐	☐	☐	Check Building for Leaks	☐	☐	☐	☐
Check DC Lighting Working	☐	☐	☐	☐	Check Eye Wash Station OK	☐	☐	☐	☐
Check Fence OK	☐	☐	☐	☐	Check Fire Extinguisher in Place and Charged	☐	☐	☐	☐
Check First Aid Kit Contents Ok	☐	☐	☐	☐	Check for Any Risk to System Reliability	☐	☐	☐	☐
Check For Oil Leaks	☐	☐	☐	☐	Check For Vandalism	☐	☐	☐	☐
Check Gates and Locks OK	☐	☐	☐	☐	Check Ground Sticks OK	☐	☐	☐	☐
Check High Voltage Danger Signs in Place	☐	☐	☐	☐	Check Hot Sticks OK	☐	☐	☐	☐
Check to See if Snow Clearing is Required	☐	☐	☐	☐					

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐
Wall Cabinet	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Potheads and Cables	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

MOL-S/S

Meter Number: _____405202 Multiplier: _____1.00

KWH: unmultiplied reading _____

MOL Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

MOL-01-B

210110 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

MOL-02-B

210126 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

MOL-03-B

210783- CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐

Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

MOL-04-B

210228 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

MOL-05-B

210109 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

MOL-06-B

210367 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

MOL-09-B

210224 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

Tank Heater	☐	☐	☐	☐					

MOL-15L-B

210128 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

MOL-19L-B

210173 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

MOL-BAT

100263 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Apron and Goggles	☐	☐	☐	☐	Cleanliness	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐

MOL-CHG

110259- Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

MOL-T1

200324 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level					PCB Label				

	☐	☐	☐	☐		☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

MOL-T1-B

210779- CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

MOL-T2

200295 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

MOL-T2-B

210368 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

003919 Monkstown
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 2/2/2010

Routine Substation Inspection

Sub: **003919 Monkstown** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check AC Lighting Working	☐	☐	☐	☐	Check Arc Flash Cabinet Signage In Place	☐	☐	☐	☐
Check Building for Leaks	☐	☐	☐	☐	Check Eye Wash Station OK	☐	☐	☐	☐
Check Fence OK	☐	☐	☐	☐	Check Fire Extinguisher in Place and Charged	☐	☐	☐	☐
Check First Aid Kit Contents Ok	☐	☐	☐	☐	Check for Any Risk to System Reliability	☐	☐	☐	☐
Check For Oil Leaks	☐	☐	☐	☐	Check For Vandalism	☐	☐	☐	☐
Check Gates and Locks OK	☐	☐	☐	☐	Check Ground Sticks OK	☐	☐	☐	☐
Check High Voltage Danger Signs in Place	☐	☐	☐	☐	Check Hot Sticks OK	☐	☐	☐	☐
Check to See if Snow Clearing is Required	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

MKS-S/S

Meter Number: 528280 Multiplier: 1.00

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

MVA: unmultiplied reading _____

MKS-T1

Meter Number: _____ Multiplier: 2.40

KVA: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

MVA: unmultiplied reading _____

MKS-T1-A

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

MKS-01-R

230369 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

MKS-01-VR1

220161 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220163 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

MKS-01-VR2

220422 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

MKS-02-R

230493 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

MKS-T1

200321 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐

Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

001946 Morris
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 11/8/2012

Routine Substation Inspection

Sub: **001946 Morris** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐
Telephone and Directory	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potheads and Cables	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

MRP Telecommunication Equipment									
RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor,	C/C				Signs of rodent activity (droppings,	C/C			

etc.)?	N/A Satisfactory Un-Satisfactory				shavings, foul smell etc.)?	N/A Satisfactory Un-Satisfactory			

MRP-BAT-G

100367 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Fan or Vent	☐	☐	☐	☐	Vent	☐	☐	☐	☐

MRP-CHG-G

110278 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

MRP-G-B

210550 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

MRP-T1

200326 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Diaphragm in Relief Vent	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Oil Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

002916 New Chelsea
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 11/1/2012

Routine Substation Inspection

Sub: **002916 New Chelsea** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Signage	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐
Telephone and Directory	☐	☐	☐	☐	Wall Cabinet	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Capacitor Banks	☐	☐	☐	☐	Current Transformers	☐	☐	☐	☐
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Potheads and Cables	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

NCH-43L-B

Meter Number: _____ Multiplier: _____

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

MVA: unmultiplied reading _____

NCH-65L-B

Meter Number: _____ Multiplier: _____

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

MVA: unmultiplied reading _____

NCH-T1

Meter Number: _____ Multiplier: 7.20

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

NCH-VR

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

NCH Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

NCH-01-R

230247 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

NCH-02-R

230359 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

NCH-02-VR1

220076 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220114 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Max Drag Hand Position	_____			
Min Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

220178 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐

Max Drag Hand Position	_____	Min Drag Hand Position	_____
Operations Counter	_____	Physical Condition	☐ ☐ ☐ ☐
Reset	No Yes		

NCH-03-R

230613 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Gas Pressure	_____				Grounding	☐	☐	☐	☐
Instantaneous Amps Phase A	_____				Instantaneous Amps Phase B	_____			
Instantaneous Amps Phase C	_____				Physical Condition	☐	☐	☐	☐

NCH-43L-B

210387 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

NCH-65L-B

210206 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

NCH-BAT-S

100312- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

NCH-CHG

110244- Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

NCH-G-B

210731 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Bushings	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

NCH-T1

200252 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

NCH-T2

200253 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
KWH (Dial)	_____				Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				MVA Demand	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

NCH-VR

220356 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220455 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220490 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

006915 New Grand Falls
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 6/29/2011

Routine Substation Inspection

Sub: **006915 New Grand Falls** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

GFS-T1-B

Meter Number:	9-596-184	Multiplier:	4.20
KVA: unmultiplied reading	_____	KWH: unmultiplied reading	_____
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____

GFS-T2-B

Meter Number:	9050010	Multiplier:	28.80
KVA: unmultiplied reading	_____	KWH: unmultiplied reading	_____

Multiplier Correct? ☐ ☐ ☐ ☐

GFS-02-B

210165 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

GFS-06-B

210180 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

GFS-06-R2

230444 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

GFS-06-VR1

220122 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220415 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220525 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐

Max Drag Hand Position	_____	Min Drag Hand Position	_____
Operations Counter	_____	Physical Condition	☐ ☐ ☐ ☐
Reset	No Yes		

GFS-07-B

210273 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

GFS-08-B

210371 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

GFS-10-B

210179 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

GFS-130L-B

210182 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Compressor Belt	☐	☐	☐	☐

Compressor Tank Bled	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

GFS-132L-B

210181 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Compressor Belt	☐	☐	☐	☐
Compressor Tank Bled	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

GFS-BAT-S (25KV)

100315- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

GFS-CHG

110190 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

GFS-T1

200146 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

GFS-T1-B

210143 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

GFS-T2

200274 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

GFS-T2-B

210166 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

GFS-T3

200299 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐

Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

GFS-T3-B

210274 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

Special Instructions:

Description	Date Complete	Notes
Record the type, size and test date of all ground and switch sticks at the sub. Note any outstanding requests to replace sticks which are supposed to be at the sub.	2013/04/23	completed

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

002908 New Harbour
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 6/29/2011

Routine Substation Inspection

Sub: **002908 New Harbour** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

NHR Building

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

NHR-T1

Meter Number: _____204270 Multiplier: _____12.00

KVA: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

MVA: unmultiplied reading _____

NHR-T1-A

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

NHR-01-R

230255 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

NHR-01-VR1

220538 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Operations Counter	_____				Physical Condition	☐	☐	☐	☐

220539 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Operations Counter	_____				Physical Condition	☐	☐	☐	☐

220616 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

NHR-02-R

230466 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

NHR-T1

200247 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

004914 North West Brook
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 1/31/2013

Routine Substation Inspection

Sub: **004914 North West Brook** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

NWB-T1

Meter Number:	11510	Multiplier:	7200.00
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

NWB-01-R

230512 - Recloser-Electronic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	_____				Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Spare Fuses	☐	☐	☐	☐					

NWB-02-R

230509 - Recloser-Electronic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	_____				Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐
Spare Fuses	☐	☐	☐	☐					

NWB-02-VR2

220402 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

NWB-02-VR3

220403 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

NWB-BAT-S

100358- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

NWB-CHG

110282- Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

NWB-T1

200319 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Condition of control cabinet door (especially hinges)	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	KWH (Dial)	_____			
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

NWB-VR

220361 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

006907 Notre Dame Junction
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/19/2012

Routine Substation Inspection

Sub: **006907 Notre Dame Junction** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Metering Cabinet	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

NDJ-S/S

Meter Number: _____274796
KWH: unmultiplied reading _____
MVA: unmultiplied reading _____

Multiplier: _____
Multiplier Correct? ☐ ☐ ☐ ☐

NDJ-BAT-S

100343 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Fan or Vent	☐	☐	☐	☐	Filled	No Yes			
Pilot Cell Temperature oC	_____								

NDJ-CHG

110085 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

Special Instructions:

Description	Date Complete	Notes

Record the type, size and test date of all ground and switch sticks at the sub. Note any outstanding requests to replace sticks which are supposed to be at the sub.	2013/04/23	completed

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

002931 Old Perlican
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 1/19/2007

Routine Substation Inspection

Sub: **002931 Old Perlican** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

OPL Building

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

OPL-01-R

230492 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

OPL-02-R

230475 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

OPL-02-VR1

220688 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220690 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220692 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

OPL-02-VR2

220702 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220704 Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220705 Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

OPL-03-R

230480 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

OPL-T1

200147 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

OPL-VR

220599 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220600 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220601 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

001914 Oxen Pond
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/18/2012

Routine Substation Inspection

Sub: **001914 Oxen Pond** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Panel	☐	☐	☐	☐	Building Condition	☐	☐	☐	☐
Danger and Caution Tags	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Housekeeping	☐	☐	☐	☐
Telephone and Directory	☐	☐	☐	☐	Wall Cabinet	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

OXP Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

OXP-01-B

210682 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐

Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

OXP-01-VR1

220495 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

OXP-31L-B

210609 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Gas Pressure - Phase A	_____			
Gas Pressure - Phase B	_____				Gas Pressure - Phase C	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

OXP-32L-B

210363 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

OXP-34L-B

210229 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐

Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

OXP-35L-B

210140 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

OXP-58L-B

210580 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Compressor Belt	☐	☐	☐	☐	Compressor Tank Bled	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

OXP-67L-B

210133 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

OXP-70L-B

210174 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

OXP-T1

200279 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5)

_____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

999999 P1 Portable
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 5/4/2011

Routine Substation Inspection

Sub: **999999 P1 Portable** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

P1-B

210162 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

P1-BAT

100168 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Pilot Cell Temperature oC	_____				Specific Gravity of Pilot Cell	_____			

100340 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Apron and Goggles	☐	☐	☐	☐	Cleanliness	☐	☐	☐	☐
Condition of Posts	☐	☐	☐	☐	Eye Wash	☐	☐	☐	☐
Fan or Vent	☐	☐	☐	☐	Filled	No Yes			
Fluid Film	☐	☐	☐	☐	Hydrometer	☐	☐	☐	☐
Pilot Cell Temperature oC	_____				Specific Gravity of Pilot Cell	_____			

P1-CHG

110099 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

P1-T1

200135 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	KWH (Dial)	_____			
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				MVA Demand	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number :

Work Order Keyed : ☐

Print

999999 P3 Portable
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 5/4/2011

Routine Substation Inspection

Sub: **999999 P3 Portable** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number:
	Completed By:
	Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

P3-B

210520 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

P3-BAT

100142 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

P3-CHG

110142 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Float Voltage V	_____			

P3-T1

200335 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Indication Button on Pressure Relief Device	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
KWH (Dial)	_____				Lubrication	☐	☐	☐	☐

Max Oil Temp	_____	Max Winding Temp	_____
MVA Demand	_____	Oil Leaks	☐ ☐ ☐ ☐
Oil Level	☐ ☐ ☐ ☐	PCB Label	☐ ☐ ☐ ☐
Physical Condition	☐ ☐ ☐ ☐	Silica Gel	☐ ☐ ☐ ☐

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

999999 P4 Portable
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 5/4/2011

Routine Substation Inspection

Sub: **999999 P4 Portable** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

P4-B

210604 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

P4-BAT

100281 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

P4-T1

200435 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of Filter and Water Flow in Pipe Satisfactory?	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	External Filter on Petro Pipe?	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Indication Button on Pressure Relief Device	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
KWH Demand	_____				Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			

MVA (Dial)	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual			

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

007904 Pasadena
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 1/14/2010

Routine Substation Inspection

Sub: **007904 Pasadena** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	First Aid Kit	☐	☐	☐	☐
Flashlight	☐	☐	☐	☐	Hard Hats	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Potential Transformers	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

PAS-T1

Meter Number:	_____	Multiplier:	1.00
KVA: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

PAS-01-R

230428 - Recloser-Relay	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Block Reclose Switch in Mech. Comp.	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐

PAS-02-R

230450 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

PAS-02-VR1

220676 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

PAS-T1

200250 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Counter	_____			
Diaphragm in Relief Vent	☐	☐	☐	☐	Drag Hand Reset	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

Remarks / Details of Work Completed :

Follow Up Work :

Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

001916 Pepperrell
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/26/2011

Routine Substation Inspection

Sub: **001916 Pepperrell** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐
Wall Cabinet	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Potheads and Cables	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

PEP-S/S

Meter Number: 5578468 Multiplier: 30.00

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

MVA: unmultiplied reading _____

PEP Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

PEP-01-B

210322 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

PEP-02-B

210321 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

PEP-03-B

210320 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

PEP-04-B

210370 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

PEP-16L-B

210668 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Grounding	☐	☐	☐	☐

Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

PEP-74L-B

210359 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

PEP-BAT

100286- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

PEP-CHG

110203 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

PEP-T1

200309 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

PEP-T1-B

210325 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

PEP-TB-1-2

210616 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Cubicle Heater	☐	☐	☐	☐
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

PEP-TB-1-3

210324 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

001917 Petty Harbour
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 1/15/2013

Routine Substation Inspection

Sub: **001917 Petty Harbour** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐
Telephone and Directory	☐	☐	☐	☐	Wall Cabinet	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

PHR-T3

Meter Number: _____ Multiplier: _____

MVA: unmultiplied reading _____

PHR Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

PHR-01-R

230546 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Instantaneous Amps Phase A	_____			
Instantaneous Amps Phase B	_____				Instantaneous Amps Phase C	_____			

PHR-3L-B

210040 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

PHR-BAT-G

100368 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐	Pilot Cell Temperature oC	_____			

PHR-G1-B

210554 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

PHR-G2-B

210578 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

PHR-G3-B

210555 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			

Counter	_____				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

PHR-T1

200325 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Oil Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

PHR-T1-B

210552 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

PHR-T3

200098 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Condition of control cabinet door (especially hinges)	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
MVA Demand	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

001918 Pierres Brook
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/26/2011

Routine Substation Inspection

Sub: **001918 Pierres Brook** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C
Cabinet Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Current Transformers	☐	☐	☐	☐	Lightning Arrestors	☐	☐	☐	☐
Potential Transformers	☐	☐	☐	☐	Potheads and Cables	☐	☐	☐	☐

PBK Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

PBK-BAT-G

100279 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

PBK-CHG

110197 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

PBK-G-B

210551 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

PBK-T1

200356 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Check Oil Leaks	☐	☐	☐	☐
Condition of Filter and Water Flow in Pipe Satisfactory?	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
External Filter on Petro Pipe?	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Indication Button on Pressure Relief Device	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
KWH Demand	_____				Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Max Oil Temp	_____			
Max Winding Temp	_____				MVA (Dial)	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work :

Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

002917 Pitman's Pond
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/19/2012

Routine Substation Inspection

Sub: **002917 Pitman's Pond** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Signage	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐
Wall Cabinet	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potheads and Cables	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

PIT Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

PIT-BAT-G

100350 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Apron and Goggles	☐	☐	☐	☐	Cleanliness	☐	☐	☐	☐
Condition of Posts	☐	☐	☐	☐	Eye Wash	☐	☐	☐	☐
Fan or Vent	☐	☐	☐	☐	Filled	No Yes			
Fluid Film	☐	☐	☐	☐	Pilot Cell Temperature oC	_____			
Specific Gravity of Pilot Cell	_____								

PIT-G-B

210663 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

PIT-T1

201054 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check Oil Leaks	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	KWH (Dial)	_____			
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
MVA Demand	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐

201055 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check Oil Leaks	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	KWH (Dial)	_____			
Lubrication	☐	☐	☐	☐	Max Amps Phase B	_____			
MVA Demand	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐

201056 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check Oil Leaks	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	KWH (Dial)	_____			
Lubrication	☐	☐	☐	☐	Max Amps Phase C	_____			
MVA Demand	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐

Physical Condition ☐ ☐ ☐ ☐ Power Fuses ☐ ☐ ☐ ☐

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1)	1 2 3 4 5 6
(2)	1 2 3 4 5 6
(3)	1 2 3 4 5 6
(4)	1 2 3 4 5 6
(5)	1 2 3 4 5 6
(6)	1 2 3 4 5 6
(7)	1 2 3 4 5 6
(8)	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number : Work Order Keyed : ☐

Print

002918 Placentia Junction
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 6/13/2011

Routine Substation Inspection

Sub: **002918 Placentia Junction** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

PJN-T1

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

PJN-T1

200204 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundation	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
MVA Demand	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

008915 Port Aux Basques
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/19/2012

Routine Substation Inspection

Sub: **008915 Port Aux Basques** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check AC Lighting Working	☐	☐	☐	☐	Check Arc Flash Cabinet Signage In Place	☐	☐	☐	☐
Check Arc Flash Suits Available	☐	☐	☐	☐	Check Building for Leaks	☐	☐	☐	☐
Check DC Lighting Working	☐	☐	☐	☐	Check Eye Wash Station OK	☐	☐	☐	☐
Check Fence OK	☐	☐	☐	☐	Check Fire Extinguisher in Place and Charged	☐	☐	☐	☐
Check First Aid Kit Contents Ok	☐	☐	☐	☐	Check for Any Risk to System Reliability	☐	☐	☐	☐
Check For Oil Leaks	☐	☐	☐	☐	Check For Vandalism	☐	☐	☐	☐
Check Gates and Locks OK	☐	☐	☐	☐	Check Ground Sticks OK	☐	☐	☐	☐
Check High Voltage Danger Signs in Place	☐	☐	☐	☐	Check Hot Sticks OK	☐	☐	☐	☐
Check to See if Snow Clearing is Required	☐	☐	☐	☐					

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	Exit Sign	☐	☐	☐	☐
Fire Extinguisher	☐	☐	☐	☐	First Aid Kit	☐	☐	☐	☐
Flashlight	☐	☐	☐	☐	Hard Hats	☐	☐	☐	☐
Heaters	☐	☐	☐	☐	Housekeeping	☐	☐	☐	☐
Spare Power Fuses	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Drainage	☐	☐	☐	☐

Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Potheads and Cables	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

PAB Telecommunication Equipment

RTU - SAGE 1150	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

PAB-03-R

230529 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

PAB-05-R

230522 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

PAB-BAT-G10

100237 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

PAB-BAT-S

100356 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Apron and Goggles	☐	☐	☐	☐	Cleanliness	☐	☐	☐	☐
Condition of Posts	☐	☐	☐	☐	Eye Wash	☐	☐	☐	☐
Fan or Vent	☐	☐	☐	☐	Filled	No Yes			
Fluid Film	☐	☐	☐	☐	Liquid Level in Cells	☐	☐	☐	☐
Pilot Cell Temperature oC	_____				Pilot Cell Temperature oF	_____			
Specific Gravity of Pilot Cell	_____				Vent	☐	☐	☐	☐

PAB-CHG-G10

110108 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

PAB-CHG-S

110270 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			

Float Voltage V _____

PAB-G10-B

210596 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Cubicle Heater	☐	☐	☐	☐
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

PAB-T3

200101 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐

PAB-T5

200246 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

004913 Port Blandford
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 5/4/2011

Routine Substation Inspection

Sub: **004913 Port Blandford** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number:
	Completed By:
	Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check AC Lighting Working	☐	☐	☐	☐	Check Building for Leaks	☐	☐	☐	☐
Check DC Lighting Working	☐	☐	☐	☐	Check Eye Wash Station OK	☐	☐	☐	☐
Check Fence OK	☐	☐	☐	☐	Check Fire Extinguisher in Place and Charged	☐	☐	☐	☐
Check for Any Risk to System Reliability	☐	☐	☐	☐	Check For Oil Leaks	☐	☐	☐	☐
Check For Vandalism	☐	☐	☐	☐	Check Gates and Locks OK	☐	☐	☐	☐
Check Ground Sticks OK	☐	☐	☐	☐	Check High Voltage Danger Signs in Place	☐	☐	☐	☐
Check Hot Sticks OK	☐	☐	☐	☐	Check to See if Snow Clearing is Required	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

PBD-T1

Meter Number:	395359	Multiplier:	_____
KVA: unmultiplied reading	_____	KWH: unmultiplied reading	_____
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____

PBD-01-R

230461 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

PBD-BAT-S

100316 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Apron and Goggles	☐	☐	☐	☐	Cleanliness	☐	☐	☐	☐
Condition of Posts	☐	☐	☐	☐	Eye Wash	☐	☐	☐	☐
Fan or Vent	☐	☐	☐	☐	Filled	No Yes			
Fluid Film	☐	☐	☐	☐	Hydrometer	☐	☐	☐	☐
Pilot Cell Temperature oC	_____				Specific Gravity of Pilot Cell	_____			

PBD-CHG

110087 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

PBD-T1

200338 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Counter	_____			
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual			

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

004908 Port Union
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/15/2012

Routine Substation Inspection

Sub: **004908 Port Union** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drain Spill Pan	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

PUN -CHG

110262- Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Float Voltage V	_____			

PUN-BAT-H

100346- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Filled	No Yes			

PUN-G1-B

210530 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

PUN-G2-B

210529 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

PUN-T1

200103 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundation	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐					

200104 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundation	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐					

200105 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundation	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐					

PUN-T1-B

210531 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

004915 Princeton Pond

MSF002
Form No. 139

Maintenance Standard Report Form

Revised:

Routine Substation Inspection

Sub: **004915 Princeton Pond** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check AC Lighting Working	☐	☐	☐	☐	Check Arc Flash Cabinet Signage In Place	☐	☐	☐	☐
Check Arc Flash Suits Available	☐	☐	☐	☐	Check Building for Leaks	☐	☐	☐	☐
Check DC Lighting Working	☐	☐	☐	☐	Check Eye Wash Station OK	☐	☐	☐	☐
Check Fence OK	☐	☐	☐	☐	Check First Aid Kit Contents Ok	☐	☐	☐	☐
Check for Any Risk to System Reliability	☐	☐	☐	☐	Check For Oil Leaks	☐	☐	☐	☐
Check For Vandalism	☐	☐	☐	☐	Check Gates and Locks OK	☐	☐	☐	☐
Check Ground Sticks OK	☐	☐	☐	☐	Check High Voltage Danger Signs in Place	☐	☐	☐	☐
Check Hot Sticks OK	☐	☐	☐	☐	Check to See if Snow Clearing is Required	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Equipment Identification	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Potential Transformers	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

001932 Pulpit Rock
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/19/2012

Routine Substation Inspection

Sub: **001932 Pulpit Rock** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Panel	☐	☐	☐	☐	Building Condition	☐	☐	☐	☐
Danger and Caution Tags	☐	☐	☐	☐	Exit Sign	☐	☐	☐	☐
Fire Extinguisher	☐	☐	☐	☐	First Aid Kit	☐	☐	☐	☐
Flashlight	☐	☐	☐	☐	Hard Hats	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Relay Targets	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

PUL-S/S

Meter Number:	51205	Multiplier:	1.00
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

PUL-T2-B

Meter Number:	_____	Multiplier:	_____
KVA: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

PUL-01-R

230524 - Recloser-Maintenance									

Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

PUL-02-R

230594 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

PUL-02-VR1

220773 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220774 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220775 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

PUL-02-VR2

220225 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220614 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220741 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

PUL-03-R

230552 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

PUL-03-VR1

220108 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220418 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

PUL-04-R

230540 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

PUL-59L-B

210700 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

PUL-BAT-S

100351 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Filled	No Yes				Pilot Cell Temperature oC	_____			
Specific Gravity of Pilot Cell	_____								

PUL-CHG

110273 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Float Voltage V	_____			

PUL-T1

	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

200345 - Power Xfmr-LTC									
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Counter	_____			
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Drag Hand Pos.	_____			
Max Oil Temp	_____				Max Winding Temp	_____			
Min Drag Hand Pos.	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

PUL-T2

200360-Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Condition of Filter and Water Flow in Pipe Satisfactory?	☐	☐	☐	☐	Counter	_____			
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Indication Button on Pressure Relief Device	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Drag Hand Pos.	_____			
Max Oil Temp	_____				Max Winding Temp	_____			
Min Drag Hand Pos.	_____				Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

PUL-T2-B

210722 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

PUL-TI-B

210721 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐

Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

002920 Quartz
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 1/19/2007

Routine Substation Inspection

Sub: **002920 Quartz** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number:
	Completed By:
	Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

QTZ-T1

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

QTZ-T1

200187 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Oil Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

006908 Rattling Brook
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 3/19/2013

Routine Substation Inspection

Sub: **006908 Rattling Brook** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Signage	☐	☐	☐	☐	Earplugs	☐	☐	☐	☐
Outside Signage	☐	☐	☐	☐					

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Panel	☐	☐	☐	☐	Exit Sign	☐	☐	☐	☐
Fire Extinguisher	☐	☐	☐	☐	First Aid Kit	☐	☐	☐	☐
Heaters	☐	☐	☐	☐	Housekeeping	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐

General Metering

RBK Control Center

Meter Number:	254-040	Multiplier:	_____
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____

RBK-T2

Meter Number:	_____	Multiplier:	_____
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____

RBK Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

RBK-01-R

230549 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

RBK-01-VR1

220746 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Reset	No Yes				Structure	☐	☐	☐	☐

220747 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Reset	No Yes				Structure	☐	☐	☐	☐

220758 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Reset	No Yes				Structure	☐	☐	☐	☐

RBK-01-VR2

220714 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Reset	No Yes				Structure	☐	☐	☐	☐

220715 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Reset	No Yes				Structure	☐	☐	☐	☐

220720 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Reset	No Yes				Structure	☐	☐	☐	☐

RBK-101L-B

210646 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

RBK-102L-B

210640 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local				Breaker Status	Closed			

	Remote					Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

RBK-BAT-G

100290- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐

RBK-CHG

110216- Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

RBK-G1-B

210684	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Cubicle Heater	☐	☐	☐	☐
Cubicle Light	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

RBK-G2-B

210685	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

RBK-T1

200351 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Condition of Filter and Water Flow in Pipe Satisfactory?	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
External Filter on Petro Pipe?	☐	☐	☐	☐	Fans	☐	☐	☐	☐

Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
MVA Demand	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

RBK-T1-B

210687	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

RBK-T2

200243 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Check Oil Leaks	☐	☐	☐	☐
Condition of control cabinet door (especially hinges)	☐	☐	☐	☐	Condition of Filter and Water Flow in Pipe Satisfactory?	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	External Filter on Petro Pipe?	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
MVA Demand	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Spill Pan Drained	☐	☐	☐	☐

Special Instructions:

Description	Date Complete	Notes
Record the type, size and test date of all ground and switch sticks at the sub. Note any outstanding requests to replace sticks which are supposed to be at the sub.	2013/04/25	

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

001919 Ridge Road
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 11/2/2012

Routine Substation Inspection

Sub: **001919 Ridge Road** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐
Wall Cabinet	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Current Transformers	☐	☐	☐	☐	Lightning Arrestors	☐	☐	☐	☐
Potential Transformers	☐	☐	☐	☐	Potheads and Cables	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

RRD-S/S

Meter Number: _____401163 Multiplier: _____1.00

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

RRD Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

RRD-02-B

210326 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐

RRD-03-B

210327 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐

RRD-04-B

210328 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐

RRD-05-B

210329 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

RRD-07-B

210342 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

RRD-08-B

210337 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

RRD-09-B

210336 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

RRD-10-B

210339 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

RRD-30L-B

210696 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Compressor Belt	☐	☐	☐	☐
Compressor Tank Bled	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

RRD-32L-B

210701 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

Springs Charged	☐	☐	☐	☐					

RRD-67L-B

210702 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

RRD-BAT-C

100308- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐

RRD-CHG

110104 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

RRD-T2

200228 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

RRD-T2-B

210334 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐

RRD-T3

200272 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐

Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

RRD-T3-B

210338 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

RRD-TB-2-3

210335 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work :

Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

002927 Riverhead
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/26/2011

Routine Substation Inspection

Sub: **002927 Riverhead** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐
Telephone and Directory	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

RVH-T1

Meter Number:	216266	Multiplier:	7.20
KVA: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

RVH Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory			

Un-Satisfactory Un-Satisfactory

RVH-01-R

230361 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

RVH-01-VR1

220687 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220693 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220697 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

RVH-01-VR2

220190 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220260 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220262 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

RVH-02-R

230233 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

RVH-95L-B

210129 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

RVH-T1

200242 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Condition of control cabinet door (especially hinges)	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

RVH-VR

220570 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220572 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220573 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Foundations	☐ ☐ ☐ ☐	Grounding	☐ ☐ ☐ ☐
Max Drag Hand Position	_____	Min Drag Hand Position	_____
Operations Counter	_____	Physical Condition	☐ ☐ ☐ ☐
Reset	No Yes		

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

008923 Robinsons
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/26/2011

Routine Substation Inspection

Sub: **008923 Robinsons** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

ROB-T1

Meter Number:	440970	Multiplier:	2.40
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐

ROB Telecommunication Equipment

RTU - SAGE 1150	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

ROB-01-R

230572 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

ROB-01-VR1

220413 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐

Reset	No Yes								
220598 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								
220652 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

ROB-01-VR2

220211 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								
220512 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								
220589 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

ROB-02-R

230527 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

ROB-T1

200291 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐

Silica Gel ☐ ☐ ☐ ☐

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

001920 Rocky Pond
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 5/4/2011

Routine Substation Inspection

Sub: **001920 Rocky Pond** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

ROP

Meter Number:	_____				Multiplier:	_____
Multiplier Correct?	☐	☐	☐	☐	MVA: unmultiplied reading	_____

ROP-BAT-G

100274 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

ROP-CHG-G

110185 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

ROP-G1-B

210675 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

ROP-SPARE-GB

210674 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

ROP-T1

200148 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Diaphragm in Relief Vent	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Oil Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work :

Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

008927 Rose Blanche
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/26/2011

Routine Substation Inspection

Sub: **008927 Rose Blanche** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check AC Lighting Working	☐	☐	☐	☐	Check Arc Flash Cabinet Signage In Place	☐	☐	☐	☐
Check Building for Leaks	☐	☐	☐	☐	Check DC Lighting Working	☐	☐	☐	☐
Check Eye Wash Station OK	☐	☐	☐	☐	Check Fence OK	☐	☐	☐	☐
Check Fire Extinguisher in Place and Charged	☐	☐	☐	☐	Check First Aid Kit Contents Ok	☐	☐	☐	☐
Check for Any Risk to System Reliability	☐	☐	☐	☐	Check For Oil Leaks	☐	☐	☐	☐
Check For Vandalism	☐	☐	☐	☐	Check Gates and Locks OK	☐	☐	☐	☐
Check Ground Sticks OK	☐	☐	☐	☐	Check High Voltage Danger Signs in Place	☐	☐	☐	☐
Check Hot Sticks OK	☐	☐	☐	☐	Check to See if Snow Clearing is Required	☐	☐	☐	☐

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Signage	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐
Telephone and Directory	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐

Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Current Transformers	☐	☐	☐	☐	Lightning Arrestors	☐	☐	☐	☐
Potheads and Cables	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

RBH Penstock Heater Meter 1

Meter Number: _____351181 Multiplier: _____1.00
KWH: unmultiplied reading _____ MVA: unmultiplied reading _____

RBH Penstock Heater Meter 2

Meter Number: _____397569 Multiplier: _____1.00
KWH: unmultiplied reading _____ MVA: unmultiplied reading _____

RBH Penstock Heater Meter 3

Meter Number: _____351183 Multiplier: _____1.00
KWH: unmultiplied reading _____ MVA: unmultiplied reading _____

RBH Penstock Heater Meter 4

Meter Number: _____351180 Multiplier: _____1.00
KWH: unmultiplied reading _____ MVA: unmultiplied reading _____

RBH-BAT-FB

Meter Number: _____278261 Multiplier: _____1.00
KWH: unmultiplied reading _____

RBH-E-S/S

Meter Number: _____ Multiplier: _____
KWH: unmultiplied reading _____

RBH - BAT- P

100333 Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

RBH Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

RBH-BAT-FB

100239 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Apron and Goggles	☐	☐	☐	☐	Cleanliness	☐	☐	☐	☐
Condition of Posts	☐	☐	☐	☐	Eye Wash	☐	☐	☐	☐
Fan or Vent	☐	☐	☐	☐	Filled	No Yes			
Fluid Film	☐	☐	☐	☐	Hydrometer	☐	☐	☐	☐
Pilot Cell Temperature oC	_____				Specific Gravity of Pilot Cell	_____			

RBH-CHG-F

110136 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Float Voltage V	_____			

RBH-G-B

210679 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Cubicle Heater	☐	☐	☐	☐
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

RBH-T1

200350 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

RBH-T1-B

210573 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work :

Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number : Work Order Keyed : ☐

Print

005916 Roycefield
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/19/2012

Routine Substation Inspection

Sub: **005916 Roycefield** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Metering Cabinet	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

RFD-S/S

Meter Number: _____319245 Multiplier: _____

KWH: unmultiplied reading _____

RFD-104L-B

210232 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Compressor Belt	☐	☐	☐	☐	Compressor Tank Bled	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐

RFD-BAT-1

100273 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐

RFD-CHG

110143 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

003911 Salt Pond
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 2/1/2013

Routine Substation Inspection

Sub: **003911 Salt Pond** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check AC Lighting Working	☐	☐	☐	☐	Check Arc Flash Cabinet Signage In Place	☐	☐	☐	☐
Check Arc Flash Suits Available	☐	☐	☐	☐	Check Building for Leaks	☐	☐	☐	☐
Check DC Lighting Working	☐	☐	☐	☐	Check Eye Wash Station OK	☐	☐	☐	☐
Check Fence OK	☐	☐	☐	☐	Check Fire Extinguisher in Place and Charged	☐	☐	☐	☐
Check First Aid Kit Contents Ok	☐	☐	☐	☐	Check for Any Risk to System Reliability	☐	☐	☐	☐
Check For Oil Leaks	☐	☐	☐	☐	Check For Vandalism	☐	☐	☐	☐
Check Gates and Locks OK	☐	☐	☐	☐	Check Ground Sticks OK	☐	☐	☐	☐
Check High Voltage Danger Signs in Place	☐	☐	☐	☐	Check Hot Sticks OK	☐	☐	☐	☐
Check to See if Snow Clearing is Required	☐	☐	☐	☐					

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Oil Storage Facilities	☐	☐	☐	☐
Telephone and Directory	☐	☐	☐	☐	Wall Cabinet	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐

Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

SPO-S/S

Meter Number:	455896	Multiplier:	1.00
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

SPO-T1-D

Meter Number:	_____	Multiplier:	_____
MVA: unmultiplied reading	_____		

SPO Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

SPO-01-R

230464 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐

SPO-01-VR1

220503 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220585 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220591 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220636 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			

Operations Counter	_____	Physical Condition	☐ ☐ ☐ ☐
Reset	No Yes		

SPO-01-VR2

220191 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220343 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

SPO-02-R

230458 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

SPO-02-VR1

220516 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220560 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220691 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

SPO-02-VR2

220759 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

220760 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

SPO-03-R

230501 - Recloser-Electronic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	_____				Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Spare Fuses	☐	☐	☐	☐					

SPO-03-VR1

220355 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220519 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220520 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220671 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

SPO-301L-B

210205 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐

PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

SPO-302L-B

210154 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

SPO-308L-B

210569 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure - Phase A	_____			
Gas Pressure - Phase B	_____				Gas Pressure - Phase C	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

SPO-BAT-CHG

110239 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

SPO-BAT-S

100318- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

SPO-T1

200173 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐

PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

SPO-T4

200233 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Indication Button on Pressure Relief Device	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Drag Hand Pos.	_____			
Max Oil Temp	_____				Max Winding Temp	_____			
Min Drag Hand Pos.	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

SPO-T4-B

210636 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure	☐	☐	☐	☐	Gas Pressure	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

SPO-T5

200352 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of Filter and Water Flow in Pipe Satisfactory?	☐	☐	☐	☐
Counter	_____				Drag Hand Reset	☐	☐	☐	☐
External Filter on Petro Pipe?	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual			

SPO-T5-B

210654 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

SPO-TL219-B

210648 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure - Phase A	_____			
Gas Pressure - Phase B	_____				Gas Pressure - Phase C	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

006910 Sandy Brook
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/19/2012

Routine Substation Inspection

Sub: **006910 Sandy Brook** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Signage	☐	☐	☐	☐	Earplugs	☐	☐	☐	☐
Outside Signage	☐	☐	☐	☐					

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐
Wall Cabinet	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potheads and Cables	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

N&LH Meter

Meter Number: _____368491 Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

SBK-S/S

Meter Number:	_____	Multiplier:	_____
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____

SBK-BAT-G

100280 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐

SBK-CHG-G

110272 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

SBK-T1

200181 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Condition of Filter and Water Flow in Pipe Satisfactory?	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	External Filter on Petro Pipe?	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

Special Instructions:

Description	Date Complete	Notes
Record the type, size and test date of all ground and switch sticks at the sub. Note any outstanding requests to replace sticks which are supposed to be at the sub.	2013/04/26	completed

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

007912 Seal Cove Road
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 2/15/2013

Routine Substation Inspection

Sub: **007912 Seal Cove Road** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐
Wall Cabinet	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Potential Transformers	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

Bottom Waters TL260 Meter

Meter Number: _____ Multiplier: _____

KVA: unmultiplied reading _____ KWH: unmultiplied reading _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

SCR-01-R

Meter Number: _____ Multiplier: _____

KVA: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐

SCR-02-R

Meter Number:	_____	Multiplier:	_____
KVA: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐

SCR-S/S

Meter Number:	535434	Multiplier:	_____
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐

SCR Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

SCR-01-R

230416 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

SCR-01-R2

230470 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐					

SCR-02-R

230490 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Spare Fuses	☐	☐	☐	☐					

SCR-BAT-S

100295- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

SCR-T1

200323 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

SCR-TL260-B

210574 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

SCR-VR

220786 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

220787 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

220788 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

001922 Seal Cove
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/26/2011

Routine Substation Inspection

Sub: **001922 Seal Cove** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

SCV-01-R

Meter Number:	_____	Multiplier:	_____
KVA: unmultiplied reading	_____	KWH: unmultiplied reading	_____

Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____
MWH: unmultiplied reading	_____		

SCV-S/S

Meter Number:	_____	Multiplier:	_____
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

SCV-T1-B

Meter Number:	_____	Multiplier:	_____
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____

SCV Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

SCV-01-R

230598 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Instantaneous Amps Phase A	_____				Instantaneous Amps Phase B	_____			
Instantaneous Amps Phase C	_____				Physical Condition	☐	☐	☐	☐

SCV-38L-B

210086 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

SCV-52L-B

210666 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

SCV-BAT-G

100181 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Apron and Goggles	☐	☐	☐	☐	Cleanliness	☐	☐	☐	☐
Condition of Posts	☐	☐	☐	☐	Eye Wash	☐	☐	☐	☐
Fan or Vent	☐	☐	☐	☐	Filled	No Yes			
Fluid Film	☐	☐	☐	☐	Hydrometer	☐	☐	☐	☐
Pilot Cell Temperature oC	_____				Specific Gravity of Pilot Cell	_____			

SCV-CHG-G

110008 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

SCV-G1-B

210649 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

SCV-G2-B

210651 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

SCV-T1

200283 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Oil Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

SCV-T1-B

210650 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

SCV-T2

200121 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	KWH (Dial)	_____			
Max Oil Temp	_____				MVA Demand	_____			
Oil Leaks	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

006911 Springdale
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 1/27/2010

Routine Substation Inspection

Sub: **006911 Springdale** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

SPR Building

Meter Number:	_____	Multiplier:	_____
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____

SPR-S/S

Meter Number:	_____	Multiplier:	_____
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____

SPR-T1

Meter Number:	_____	Multiplier:	_____
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____

SPR-01-R

230457 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			

Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

SPR-02-R

230469 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

SPR-03-R

230443 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

SPR-04-R

230462 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

SPR-T1

200347 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Counter	_____			
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Indication Button on Pressure Relief Device	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Drag Hand Pos.	_____			
Max Oil Temp	_____				Max Winding Temp	_____			
Min Drag Hand Pos.	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

002932 Springfield
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 6/29/2012

Routine Substation Inspection

Sub: **002932 Springfield** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Potheads and Cables	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

SPF-T1

Meter Number: _____233120 Multiplier: _____7.20

KVA: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

MVA: unmultiplied reading _____

SPF-01-R

230344 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

SPF-02-R

230520 - Recloser-Electronic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	_____				Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Lockout Indicating Lamp	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

SPF-03-R

230518 - Recloser-Electronic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	_____				Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

SPF-BAT-S

100272 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

SPF-CHG

110192 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

SPF-T1

200277 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic			

Manual

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1)	1 2 3 4 5 6
(2)	1 2 3 4 5 6
(3)	1 2 3 4 5 6
(4)	1 2 3 4 5 6
(5)	1 2 3 4 5 6
(6)	1 2 3 4 5 6
(7)	1 2 3 4 5 6
(8)	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

001923 St Johns Main
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 11/8/2012

Routine Substation Inspection

Sub: **001923 St Johns Main** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐
Telephone and Directory	☐	☐	☐	☐	Wall Cabinet	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
13L Cable Terminations - SJM	☐	☐	☐	☐	13L Cable Terminations - SS Rd Twr	☐	☐	☐	☐
13L Cables Pressure A	_____				13L Cables Pressure B	_____			
13L Cables Pressure C	_____				13L Cables Pressure D	_____			
4L Cable Terminations - SJM	☐	☐	☐	☐	4L Cable Terminations - SS Rd Twr	☐	☐	☐	☐

4L Cables Pressure A	_____	4L Cables Pressure B	_____
4L Cables Pressure C	_____	4L Cables Pressure D	_____

Lightning Arrestors	☐	☐	☐	☐	Oil Filled Cables	☐	☐	☐	☐
Potential Transformers	☐	☐	☐	☐	Potheads and Cables	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

SJM-AUX-S/S

Meter Number:	_____	Multiplier:	40.00
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
MVA: unmultiplied reading	_____		

SJM-S/S

Meter Number:	5581873	Multiplier:	40.00
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
VA: unmultiplied reading	_____		

SJM Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

SJM-02-B

210297 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

SJM-03-B

210304 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

SJM-04-B

210305 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

SJM-06-B

210306 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

Springs Charged	☐	☐	☐	☐					

SJM-07-B

210107 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

SJM-08-B

210300 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

SJM-09-B

210307 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

SJM-10-B

210309 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

SJM-11-B

210308 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

SJM-12-B

210728- CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐

Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

SJM-13-B

210310 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

SJM-13L-B

210717 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

SJM-14-B

210311 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

SJM-15-B

210351 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Cubicle Heater	☐	☐	☐	☐
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

SJM-25L-B

210678 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure	☐	☐	☐	☐	Gas Pressure	_____			
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			

Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

SJM-4L-B

210690 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure	☐	☐	☐	☐	Gas Pressure	_____			
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

SJM-BAT-A

100278 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

SJM-CHG

110195 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

SJM-T1

200294 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

SJM-T1-B

210314 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			

Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

SJM-T2

200317 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

SJM-T2-B

210315 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

SJM-T4

200117 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Check Oil Leaks	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Oil Temp	_____			
MVA Demand	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

SJM-TB-1-2

210312 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

SJM-TB-1-3

210313 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Cubicle Heater	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐

Hinges / Hasps / Latches and Handles ☐ ☐ ☐ ☐ Physical Condition ☐ ☐ ☐ ☐

Springs Charged ☐ ☐ ☐ ☐

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

002907 St. Catherine's
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 2/17/2014

Routine Substation Inspection

Sub: **002907 St. Catherine's** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐
Telephone and Directory	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Eye Wash Station	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐
Risks to System Reliability	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

SCT Building

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

SCT-T1

Meter Number: _____ Multiplier: 1.00

KVA: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

MVA: unmultiplied reading _____

SCT-T2

Meter Number:	_____	Multiplier:	_____
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____

SCT-01-R

230628- Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Gas Pressure	_____			
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

SCT-02-R

230629- Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Gas Pressure	_____			
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

SCT-02-VR1

220763 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220764 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220769 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

SCT-BAT-S

100379 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Fan or Vent	☐	☐	☐	☐	Fluid Film	☐	☐	☐	☐

SCT-CHG

110298 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

SCT-T1

200284 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Condition of Filter and Water Flow in					Diaphragm in Relief Vent				

Pipe Satisfactory?	☐	☐	☐	☐		☐	☐	☐	☐
External Filter on Petro Pipe?	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
MVA Demand	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

SCT-T2

200315 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Condition of Filter and Water Flow in Pipe Satisfactory?	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
External Filter on Petro Pipe?	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

SCT-VR

220502 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220818 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Max Drag Hand Position	_____			
Min Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

220819 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Max Drag Hand Position	_____			
Min Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

220820 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Max Drag Hand Position	_____			
Min Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

008930 St. George's
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/26/2011

Routine Substation Inspection

Sub: **008930 St. George's** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Potential Transformers	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

STG-S/S

Meter Number: _____492783 Multiplier: _____1.00

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

STG-T1

Meter Number: _____232892 Multiplier: _____7.20

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

STG Telecommunication Equipment

RTU - SAGE 1150	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

STG-01-R

230536 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

STG-02-R

230525 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

STG-403L-B

210662 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

STG-BAT-S

100282- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

STG-T1

200316 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

001924 Stamps Lane
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/12/2012

Routine Substation Inspection

Sub: **001924 Stamps Lane** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐
Wall Cabinet	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Equipment Identification	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Potheads and Cables	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

SLA-S/S

Meter Number: _____356782 Multiplier: _____30.00

KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐
VA: unmultiplied reading	_____		

SLA-T3

Meter Number:	4 439 944	Multiplier:	1.20
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐

SLA-T4

Meter Number:	2235053	Multiplier:	28800.00
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐

SLA Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

SLA-02-B

210004 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

SLA-03-B

210299 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

SLA-05-B

210293 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

SLA-06-B

210005 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

SLA-07-B

210298 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

SLA-08-B

210352 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			

Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

SLA-09-B

210032 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Relay Targets and Indicating Lamps	☐	☐	☐	☐					

SLA-10-B

210175 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

SLA-11-B

210021 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

SLA-12-B

210161 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local				Breaker Status	Closed			

	Remote					Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

SLA-13-B

210634 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

SLA-13L-B

210694 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Compressor Belt	☐	☐	☐	☐
Compressor Tank Bled	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

SLA-14L-B

210239 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Compressor Tank Bled	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure - Phase A	_____			
Gas Pressure - Phase B	_____				Gas Pressure - Phase C	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

SLA-15L-B

210147 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

SLA-31L-B

210064 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

SLA-69L-B

210357 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Compressor Belt	☐	☐	☐	☐	Compressor Tank Bled	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

SLA-70L-B

210610 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure	☐	☐	☐	☐	Gas Pressure	_____			

Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

SLA-BAT-A

100289- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

SLA-CHG

110206 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

SLA-SPARE

210002 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

210295 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

210333 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

SLA-T1

200220 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Condition of control cabinet door (especially hinges)	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

SLA-T1-B

210119 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			

Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

SLA-T2

200139 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Diaphragm in Relief Vent	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Oil Temp	_____			
MVA Demand	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

SLA-T2-B

210036 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

SLA-T3

200245 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

SLA-T4

200334 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

SLA-T4-B

210030 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number :

Work Order Keyed : ☐

Print

008921 Stephenville Crossing
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/26/2011

Routine Substation Inspection

Sub: **008921 Stephenville Crossing** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check AC Lighting Working	☐	☐	☐	☐	Check Arc Flash Cabinet Signage In Place	☐	☐	☐	☐
Check Arc Flash Suits Available	☐	☐	☐	☐	Check Building for Leaks	☐	☐	☐	☐
Check DC Lighting Working	☐	☐	☐	☐	Check Eye Wash Station OK	☐	☐	☐	☐
Check Fence OK	☐	☐	☐	☐	Check Fire Extinguisher in Place and Charged	☐	☐	☐	☐
Check for Any Risk to System Reliability	☐	☐	☐	☐	Check For Oil Leaks	☐	☐	☐	☐
Check For Vandalism	☐	☐	☐	☐	Check Gates and Locks OK	☐	☐	☐	☐
Check Ground Sticks OK	☐	☐	☐	☐	Check High Voltage Danger Signs in Place	☐	☐	☐	☐
Check Hot Sticks OK	☐	☐	☐	☐	Check to See if Snow Clearing is Required	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

STX-T1

Meter Number: _____412117 Multiplier: _____7.20

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

STX Telecommunication Equipment

RTU - SAGE 1150	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

STX-01-R

230528 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

STX-T1

200286 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

_____

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

008926 Stephenville Gas Turbine
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 1/30/2014

Routine Substation Inspection

Sub: **008926 Stephenville Gas Turbine** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Danger and Caution Tags	☐	☐	☐	☐	Housekeeping	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Relay Targets	☐	☐	☐	☐					

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cable Trench Covers	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐
Risks to System Reliability	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Switch Blades	☐	☐	☐	☐					

STV-401L-B

210752 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

STV-405L-B

210741 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐

Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

STV-407L-B

210751 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

005913 Summerford
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 12/14/2012

Routine Substation Inspection

Sub: **005913 Summerford** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

SUM-S/S

Meter Number: _____1971751 Multiplier: _____

KWH: unmultiplied reading _____

SUM-T1

Meter Number: _____103 Multiplier: _____14.40

KVA: unmultiplied reading _____ KWH: unmultiplied reading _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

SUM-01-R

230418 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐

Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

SUM-01-R2

230347 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

SUM-01-R3

230348 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

SUM-01-R4

230341 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

SUM-01-ST3

200624 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Condition of control cabinet door (especially hinges)	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Oil Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

SUM-01-VR1

220133 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220530 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220534 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Grounding	☐	☐	☐	☐	Max Drag Hand Position	_____			

Min Drag Hand Position	_____	Operations Counter	_____
Physical Condition	☐ ☐ ☐ ☐	Reset	No Yes

SUM-02-R

230432 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

SUM-02-VR1

220558 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Grounding	☐	☐	☐	☐	Max Drag Hand Position	_____			
Min Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

220575 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220576 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

SUM-02-VR2

220556 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

SUM-140L-B

210096 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	House Heater	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐

Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

SUM-T1

200264 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Indication Button on Pressure Relief Device	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
KWH Demand	_____				Max Drag Hand Pos.	_____			
Max Oil Temp	_____				Max Winding Temp	_____			
Min Drag Hand Pos.	_____				MVA (Dial)	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

Special Instructions:

Description	**Date Complete**	**Notes**
Record the type, size and test date of all ground and switch sticks at the sub. Note any outstanding requests to replace sticks which are supposed to be at the sub.	2013/04/03	needs one ground stick

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

004909 Summerville
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 1/14/2013

Routine Substation Inspection

Sub: **004909 Summerville** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C
Spare Power Fuses	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

SMV-S/S

Meter Number: _____ Multiplier: _____

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

SMV-T1

Meter Number: _____473746 Multiplier: _____3600.00

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

MVA: unmultiplied reading _____

SMV-01-R

230446 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

SMV-01-VR1

220202 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220212 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220259 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

SMV-01-VR2

220654 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220781 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

SMV-01-VR3

220396 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220453 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

SMV-T1

200230 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐

Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

004910 Sunnyside
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 5/15/2013

Routine Substation Inspection

Sub: **004910 Sunnyside** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

SUN-01-B

210564 - CB-Min Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

SUN-01-R2

230500 - Recloser-Electronic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Battery Test	_____				Bushings and Insulators	☐	☐	☐	☐		
Counter	_____				Equipment Identification	☐	☐	☐	☐		
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐		
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐		
Heater	☐	☐	☐	☐	Max Amps Phase A	_____					
Max Amps Phase B	_____				Max Amps Phase C	_____					
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐		
Spare Fuses	☐	☐	☐	☐							

SUN-01-VR2

220564 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220780 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

220790- Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

SUN-03-R

230516 - Recloser-Electronic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	_____				Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Spare Fuses	☐	☐	☐	☐					

SUN-T5

200348 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐

PCB Label ☐ ☐ ☐ ☐ Physical Condition ☐ ☐ ☐ ☐

Silica Gel ☐ ☐ ☐ ☐ Tapchanger Position Automatic Manual

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

005905 Terra Nova
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/23/2012

Routine Substation Inspection

Sub: **005905 Terra Nova** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

TNS-01-R

230499 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

TNS-T1

200234 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				MVA Demand	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

001926 Topsail
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/16/2012

Routine Substation Inspection

Sub: **001926 Topsail** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potheads and Cables	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

TOP-S/S

Meter Number:	_____368470	Multiplier:	_____10.00
KWH: unmultiplied reading	_____	Multiplier Correct?	☐ ☐ ☐ ☐

MVA: unmultiplied reading _____

TOP Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

TOP-BAT-G

100348 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

TOP-CHG-G

110009 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

110260 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Float Voltage V	_____			

TOP-G-B

210614 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

TOP-T1

201074 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Amps Phase B	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

201075 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

201085 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Amps Phase A	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

001928 Tors Cove
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/26/2011

Routine Substation Inspection

Sub: **001928 Tors Cove** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Potheads and Cables	☐	☐	☐	☐					

General Metering

TCV-CHG-G

Meter Number:	_____	Multiplier:	_____
KVA: unmultiplied reading	_____	KWH: unmultiplied reading	_____
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____

MWH: unmultiplied reading _____

TCV Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

TCV-BAT-G

100309- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

TCV-CHG-G

110246- Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

TCV-G1-B

210548 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

TCV-G2-B

210622 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

TCV-G3-B

210547 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

TCV-T1

200162 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Diaphragm in Relief Vent	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Max Oil Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

TCV-T1-B

210549 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Counter	_____				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

002928 Trepassey
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/16/2012

Routine Substation Inspection

Sub: **002928 Trepassey** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Metering Cabinet	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

TRP-01-R

230621 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Gas Pressure	_____			
Grounding	☐	☐	☐	☐	Instantaneous Amps Phase A	_____			
Instantaneous Amps Phase B	_____				Instantaneous Amps Phase C	_____			
Peak Mthly Demand KW	_____				Physical Condition	☐	☐	☐	☐
Power Factor	_____								

TRP-01-VR1

220176 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220352 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐	
Max Drag Hand Position	_____				Min Drag Hand Position	_____				
Operations Counter	_____				Physical Condition	☐	☐	☐	☐	
Reset	No Yes									

220431 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

TRP-01-VR2 (BISCAY BAY)

220192 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

TRP-01-VR3

220295 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Operations Counter	_____				Physical Condition	☐	☐	☐	☐

TRP-01-VR4

220369 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

TRP-02-R

230252 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

TRP-02-VR1

220106 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220189 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			

Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220338 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

TRP-T1

200251 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

005914 Trinity
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/19/2012

Routine Substation Inspection

Sub: **005914 Trinity** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	Exit Sign	☐	☐	☐	☐
Fire Extinguisher	☐	☐	☐	☐	First Aid Kit	☐	☐	☐	☐
Flashlight	☐	☐	☐	☐	Hard Hats	☐	☐	☐	☐
Heaters	☐	☐	☐	☐	Housekeeping	☐	☐	☐	☐
Spare Power Fuses	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Snow Clearing	☐	☐	☐	☐
Station Service	☐	☐	☐	☐	Vandalism	☐	☐	☐	☐
Vegetation	☐	☐	☐	☐	Yard Clean	☐	☐	☐	☐
Yard Lighting	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Potential Transformers	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

TRN Telecommunication Equipment

RTU - SAGE 1150	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

TRN-02-R

230554 - Recloser-Maintenance	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Free									
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

TRN-BAT

100253 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐

TRN-CHG

110158 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Float Voltage V	_____								

TRN-T1

200238 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Counter	_____			
Diaphragm in Relief Vent	☐	☐	☐	☐	Drag Hand Reset	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Drag Hand Pos.	_____			
Max Oil Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

Remarks / Details of Work Completed :

Follow Up Work :

Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

005915 Twillingate
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 3/11/2014

Routine Substation Inspection

Sub: **005915 Twillingate** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐

General Metering

TWG-T1

Meter Number:	113	Multiplier:	12.00
KVA: unmultiplied reading	_____	KWH: unmultiplied reading	_____
Multiplier Correct? ☐ ☐ ☐ ☐		MVA: unmultiplied reading	_____

TWG-01-R

230626- Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Gas Pressure	_____			
Grounding	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

TWG-02-R

230624- Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Alarms	☐	☐	☐	☐	Counter	_____			
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Instantaneous Amps Phase A	_____				Instantaneous Amps Phase B	_____			
Instantaneous Amps Phase C	_____				Peak Mthly Demand KW	_____			
Physical Condition	☐	☐	☐	☐	Power Factor	_____			

TWG-T1

200261 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry					Condition of control cabinet door				

	☐	☐	☐	☐	(especially hinges)	☐	☐	☐	☐
Condition of Filter and Water Flow in Pipe Satisfactory?	☐	☐	☐	☐	Counter	_____			
Diaphragm in Relief Vent	☐	☐	☐	☐	Drag Hand Reset	☐	☐	☐	☐
External Filter on Petro Pipe?	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

002921 Victoria
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 6/13/2011

Routine Substation Inspection

Sub: **002921 Victoria** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number:
	Completed By:
	Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Signage	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Panel	☐	☐	☐	☐	Exit Sign	☐	☐	☐	☐
Fire Extinguisher	☐	☐	☐	☐	First Aid Kit	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐
Telephone and Directory	☐	☐	☐	☐	Wall Cabinet	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

VIC-T1

Meter Number: _____245937 Multiplier: _____3.60

KVA: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

MVA: unmultiplied reading _____

VIC-01-R

230477 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐

Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Heater	☐	☐	☐	☐	Lockout Indicating Lamp	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Recloser Meters	☐	☐	☐	☐	Spare Fuses	☐	☐	☐	☐

VIC-02-R

230422 - Recloser-Resistor	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Battery Test	☐	☐	☐	☐	Bushings and Insulators	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Equipment in Reclose Mode	☐	☐	☐	☐	Foundations	☐	☐	☐	☐
Ground Trip Blocking Switches	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Lockout Indicating Lamp	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐
Spare Fuses	☐	☐	☐	☐					

VIC-02-VR1

220649 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220650 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220651 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

VIC-02-VR2

220150 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220151 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220308 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

VIC-BAT-S

100218 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

VIC-CHG

110211 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

VIC-G-B

210566 - CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

VIC-T1

200217 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Diaphragm in Relief Vent	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				MVA Demand	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Power Fuses	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

VIC-T2

200729 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐

VIC-VR

220548 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220554 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220586 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

001933 Virginia Waters
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 1/29/2014

Routine Substation Inspection

Sub: **001933 Virginia Waters** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐
Wall Cabinet	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potential Transformers	☐	☐	☐	☐
Potheads and Cables	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

VIR-12.5KV-S/S

Meter Number:	_____	Multiplier:	_____
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____

VIR Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory	Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory

VIR-01-B

210757- CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

VIR-02-B

210760- CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

VIR-03-B

210758- CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

VIR-04-B

210683 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

VIR-05-B

210195 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

VIR-06-B

210681 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

VIR-07-B

210673 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Air Pressure	_____				Breaker Position	Local Remote			
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Cabinet Heater	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Pressure - Phase A	_____				Gas Pressure - Phase B	_____			
Gas Pressure - Phase C	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

VIR-07-VR1

220738 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Reset	No Yes								

220739 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Reset	No								

Yes

220743 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Reset	No Yes								

VIR-08-B

210671 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

VIR-34L-B

210190 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

VIR-58L-B

210189 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

VIR-59L-B

210188 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			

Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

VIR-74L-B

210204 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

VIR-BAT

100199 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Apron and Goggles	☐	☐	☐	☐	Cleanliness	☐	☐	☐	☐
Condition of Posts	☐	☐	☐	☐	Eye Wash	☐	☐	☐	☐
Fan or Vent	☐	☐	☐	☐	Filled	No Yes			
Fluid Film	☐	☐	☐	☐	Hydrometer	☐	☐	☐	☐
Pilot Cell Temperature oC	_____				Specific Gravity of Pilot Cell	_____			

VIR-CHG

110105 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Float Voltage V	_____								

VIR-T1

200256 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Drag Hand Pos.	_____			
Max Oil Temp	_____				Max Winding Temp	_____			
Min Drag Hand Pos.	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐

Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

VIR-T1-B

210744- CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

VIR-T2

200336 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

VIR-T2-B

210733- CB-Vacuum	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

VIR-T3

200354 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of Filter and Water Flow in Pipe Satisfactory?	☐	☐	☐	☐
Counter	_____				Drag Hand Reset	☐	☐	☐	☐
External Filter on Petro Pipe?	☐	☐	☐	☐	Fans	☐	☐	☐	☐

Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Drag Hand Pos.	_____			
Max Oil Temp	_____				Max Winding Temp	_____			
Min Drag Hand Pos.	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

VIR-T3-B

210661 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By : Employee # : Hours : Date Completed :

_____ _____ _____ _____

Supervisor Name : Reviewed Date :

_____ _____

Work Order Number : Work Order Keyed : ☐

Print

007905 Walbournes
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 3/12/2013

Routine Substation Inspection

Sub: **007905 Walbournes** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Arc Flash Hoods (2)	☐	☐	☐	☐	Arc Flash Jackets (2)	☐	☐	☐	☐
Arc Flash Pants (2)	☐	☐	☐	☐	Cabinet Signage	☐	☐	☐	☐
Earplugs	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Potheads and Cables	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

WAL-S/S

Meter Number: _____37 Multiplier: _____10.00

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

WAL-T2

Meter Number: _____ Multiplier: _____1.00

Multiplier Correct? ☐ ☐ ☐ ☐ MVA: unmultiplied reading _____

WAL Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

WAL-01-B

210404 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

WAL-02-B

210400 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

WAL-02-VR1

220762 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

220767 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

220768 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Operations Counter	_____			
Physical Condition	☐	☐	☐	☐	Reset	No Yes			

WAL-03-B

210402 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

WAL-04-B

210406 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐

Physical Condition	☐	☐	☐	☐					

WAL-05-B

210399 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

WAL-06-B

210408 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

WAL-07-B

210409 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

WAL-351L-B

210148 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Light	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐	Tank Heater	☐	☐	☐	☐

WAL-352L-B

210639 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

WAL-353L-B

210645 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Gas Pressure - Phase A	_____			
Gas Pressure - Phase B	_____				Gas Pressure - Phase C	_____			
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

WAL-BAT-S

100321- Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

WAL-BTB-1&2

210403 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

WAL-T1

200276 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Drag Hand Pos.	_____				Max Oil Temp	_____			
Max Winding Temp	_____				Min Drag Hand Pos.	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual			

WAL-T1-B

210401 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Counter	_____			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Amps Phase A	_____			

Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

WAL-T2

200355 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Counter	_____			
Diaphragm in Relief Vent	☐	☐	☐	☐	Drag Hand Reset	☐	☐	☐	☐
Fans	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Indication Button on Pressure Relief Device	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Drag Hand Pos.	_____			
Max Oil Temp	_____				Max Winding Temp	_____			
Min Drag Hand Pos.	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐
Tapchanger Position	Automatic Manual								

WAL-T2-B

210405 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

WAL-TIE-2-3

210407 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Equipment Identification	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

003920 Webber's Cove
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 8/31/2012

Routine Substation Inspection

Sub: **003920 Webber's Cove** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check AC Lighting Working	☐	☐	☐	☐	Check Arc Flash Cabinet Signage In Place	☐	☐	☐	☐
Check Arc Flash Suits Available	☐	☐	☐	☐	Check Building for Leaks	☐	☐	☐	☐
Check DC Lighting Working	☐	☐	☐	☐	Check Eye Wash Station OK	☐	☐	☐	☐
Check Fence OK	☐	☐	☐	☐	Check Fire Extinguisher in Place and Charged	☐	☐	☐	☐
Check First Aid Kit Contents Ok	☐	☐	☐	☐	Check for Any Risk to System Reliability	☐	☐	☐	☐
Check For Oil Leaks	☐	☐	☐	☐	Check For Vandalism	☐	☐	☐	☐
Check Gates and Locks OK	☐	☐	☐	☐	Check Ground Sticks OK	☐	☐	☐	☐
Check High Voltage Danger Signs in Place	☐	☐	☐	☐	Check Hot Sticks OK	☐	☐	☐	☐
Check to See if Snow Clearing is Required	☐	☐	☐	☐					

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐
Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Current Transformers	☐	☐	☐	☐	Lightning Arrestors	☐	☐	☐	☐
Metering Cabinet	☐	☐	☐	☐	Switch Blades	☐	☐	☐	☐

General Metering

WBC-S/S

Meter Number:	_____	Multiplier:	_____
Multiplier Correct? ☐ ☐ ☐ ☐		MVA: unmultiplied reading	_____

WBC Telecommunication Equipment

RTU - SAGE 1150	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

WBC-01-R

230537 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Gas Pressure	_____				Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

WBC-01-R2

230588 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Gas Pressure	_____				Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

WBC-01-VR1

220325 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220753 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220756 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

WBC-BAT

100314 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐
Fluid Film	☐	☐	☐	☐					

WBC-CHG

110213 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Equalize Voltage V	_____			
Equip. Current A	_____				Float Voltage V	_____			

WBC-T1

200213 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Condition of Filter and Water Flow in Pipe Satisfactory?	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
External Filter on Petro Pipe?	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
KWH (Dial)	_____				Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				MVA Demand	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

WBC-VR

220638 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220639 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220640 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

005907 Wesleyville
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/24/2012

Routine Substation Inspection

Sub: **005907 Wesleyville** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐
Suppression System	☐	☐	☐	☐	Telephone and Directory	☐	☐	☐	☐
Wall Cabinet	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Cable Trench Covers	☐	☐	☐	☐
Crushed Stone	☐	☐	☐	☐	Drainage	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Snow Clearing	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

WES

100265 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cleanliness	☐	☐	☐	☐	Condition of Posts	☐	☐	☐	☐
Eye Wash	☐	☐	☐	☐	Fan or Vent	☐	☐	☐	☐

110137 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Charger Current A	_____	Float Voltage V	_____

WES Telecommunication Equipment

RTU - SAGE 2100	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

WES-01-R

230547 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

WES-02-R

230557 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

WES-02-R2

230559 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

WES-02-VR1

220559 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220563 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220587 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

WES-02-VR2

220090 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220185 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220364 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

WES-02-VR3

220679 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

WES-03-R

230558 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐					

WES-116L-B

210655 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Gas Pressure	_____				Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Springs Charged	☐	☐	☐	☐

WES-G1-B

210638 - CB-SF6	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Pressure	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

WES-T1

200259 - Power Xfmr-LTC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Cabinet Heater	☐	☐	☐	☐
Cabinet Light	☐	☐	☐	☐	Condition of control cabinet door (especially hinges)	☐	☐	☐	☐
Counter	_____				Diaphragm in Relief Vent	☐	☐	☐	☐
Drag Hand Reset	☐	☐	☐	☐	Fans	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Indication Button on Pressure Relief Device	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Max Drag Hand Pos.	_____			
Max Oil Temp	_____				Max Winding Temp	_____			
Min Drag Hand Pos.	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Power Fuses	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐	Tapchanger Position	Automatic Manual			

WES-T2

200190 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Gas Detector	☐	☐	☐	☐	Glass in Gauges	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Oil Temp	_____				Max Winding Temp	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Silica Gel	☐	☐	☐	☐					

Remarks / Details of Work Completed :

Follow Up Work :

Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

003912 West Brook
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/28/2011

Routine Substation Inspection

Sub: **003912 West Brook** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check AC Lighting Working	☐	☐	☐	☐	Check Arc Flash Cabinet Signage In Place	☐	☐	☐	☐
Check Arc Flash Suits Available	☐	☐	☐	☐	Check Building for Leaks	☐	☐	☐	☐
Check DC Lighting Working	☐	☐	☐	☐	Check Eye Wash Station OK	☐	☐	☐	☐
Check Fence OK	☐	☐	☐	☐	Check Fire Extinguisher in Place and Charged	☐	☐	☐	☐
Check First Aid Kit Contents Ok	☐	☐	☐	☐	Check for Any Risk to System Reliability	☐	☐	☐	☐
Check For Oil Leaks	☐	☐	☐	☐	Check For Vandalism	☐	☐	☐	☐
Check Gates and Locks OK	☐	☐	☐	☐	Check Ground Sticks OK	☐	☐	☐	☐
Check High Voltage Danger Signs in Place	☐	☐	☐	☐	Check Hot Sticks OK	☐	☐	☐	☐
Check to See if Snow Clearing is Required	☐	☐	☐	☐					

Arc Flash Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Signage	☐	☐	☐	☐	Outside Signage	☐	☐	☐	☐

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐	Spare Power Fuses	☐	☐	☐	☐
Wall Cabinet	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Drainage	☐	☐	☐	☐	Fence and Fence Grounding	☐	☐	☐	☐

Gates and Locks	☐	☐	☐	☐	Ground Sticks and/or Hot Sticks	☐	☐	☐	☐
High Voltage Danger Signs	☐	☐	☐	☐	Station Service	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐	Yard Lighting	☐	☐	☐	☐

General Metering

WBK-S/S

Meter Number: _____368477 Multiplier: _____30.00

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

MVA: unmultiplied reading _____

WBK-T1

Meter Number: _____ Multiplier: _____

KWH: unmultiplied reading _____ Multiplier Correct? ☐ ☐ ☐ ☐

WBK Telecommunication Equipment

RTU - SAGE 1150	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Signs of Burning (discoloration, odor, etc.)?	C/C N/A Satisfactory Un-Satisfactory				Signs of rodent activity (droppings, shavings, foul smell etc.)?	C/C N/A Satisfactory Un-Satisfactory			

WBK-G-B

210585 - CB-Air	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Equipment Identification	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

WBK-T1

200787 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Condition of Filter and Water Flow in Pipe Satisfactory?	☐	☐	☐	☐	External Filter on Petro Pipe?	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

200788 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Condition of Filter and Water Flow in Pipe Satisfactory?	☐	☐	☐	☐	External Filter on Petro Pipe?	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

200789 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Condition of Filter and Water Flow in Pipe Satisfactory?	☐	☐	☐	☐	External Filter on Petro Pipe?	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Insulators and Bushings	☐	☐	☐	☐	Oil Leaks	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work :	Suggested Priority :
(1) _____	1 2 3 4 5 6
(2) _____	1 2 3 4 5 6
(3) _____	1 2 3 4 5 6
(4) _____	1 2 3 4 5 6
(5) _____	1 2 3 4 5 6
(6) _____	1 2 3 4 5 6
(7) _____	1 2 3 4 5 6
(8) _____	1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

002923 Western Avalon
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 10/18/2012

Routine Substation Inspection

Sub: **002923 Western Avalon** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Lightning Arrestors	☐	☐	☐	☐	Metering Cabinet	☐	☐	☐	☐
Switch Blades	☐	☐	☐	☐					

General Metering

WAV-03-VR1

Meter Number:	_____	Multiplier:	_____
Multiplier Correct?	☐ ☐ ☐ ☐	MVA: unmultiplied reading	_____

WAV-01-R

230468 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

WAV-01-VR1

220100 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220181 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220205 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C

Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

WAV-01-VR2

220290 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220597 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220633 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

WAV-01-VR3

220167 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

WAV-02-R

230279 - Recloser-Hydraulic	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Bushings and Insulators	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Equipment in Reclose Mode	☐	☐	☐	☐
Foundations	☐	☐	☐	☐	Ground Trip Blocking Switches	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Physical Condition	☐	☐	☐	☐	Recloser Meters	☐	☐	☐	☐

WAV-02-VR4

220264 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

220337 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			

Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								
220412 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Max Drag Hand Position	_____			
Min Drag Hand Position	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes				Structure	☐	☐	☐	☐

WAV-03-R

230607 - Recloser-Maintenance Free	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Counter	_____				Foundations	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Instantaneous Amps Phase A	_____			
Instantaneous Amps Phase B	_____				Instantaneous Amps Phase C	_____			

WAV-03-VR1

220732 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								
220733 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								
220734 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								

WAV-03-VR2

220735 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								
220736 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			
Operations Counter	_____				Physical Condition	☐	☐	☐	☐
Reset	No Yes								
220737 - Regulator	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Foundations	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Max Drag Hand Position	_____				Min Drag Hand Position	_____			

Operations Counter	_____	Physical Condition	☐ ☐ ☐ ☐
Reset	No Yes		

WAV-86L-B

210252 - CB-Bulk Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Status	Closed Open				Bushings	☐	☐	☐	☐
Conduits	☐	☐	☐	☐	Counter	_____			
Equipment Identification	☐	☐	☐	☐	Foundation	☐	☐	☐	☐
Grounding	☐	☐	☐	☐	Hinges / Hasps / Latches and Handles	☐	☐	☐	☐
House Heater	☐	☐	☐	☐	Max Amps Phase A	_____			
Max Amps Phase B	_____				Max Amps Phase C	_____			
Oil Leaks	☐	☐	☐	☐	Oil Level	☐	☐	☐	☐
PCB Label	☐	☐	☐	☐	Physical Condition	☐	☐	☐	☐
Tank Heater	☐	☐	☐	☐					

WAV-T6

200232 - Power Xfmr-TC	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Cabinet Dry	☐	☐	☐	☐	Diaphragm in Relief Vent	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Gas Detector	☐	☐	☐	☐
Glass in Gauges	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Insulators and Bushings	☐	☐	☐	☐
Lubrication	☐	☐	☐	☐	Max Oil Temp	_____			
Max Winding Temp	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Silica Gel	☐	☐	☐	☐

Remarks / Details of Work Completed :

Follow Up Work :

Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days)	2 - High (1 week)	3 - Medium (1 mth)
4 - Low (3 mths)	5 - Project	6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number :

Work Order Keyed : ☐

Print

008922 Wheelers
March, 2014

MSF002
Form No. 139

NEWFOUNDLAND POWER
A FORTIS COMPANY

Maintenance Standard Report Form

Revised: 5/4/2011

Routine Substation Inspection

Sub: **008922 Wheelers** Inspection Type: **SUBSTATION INSPECTION**	W.O. Number: Completed By: Date Completed:

Mark X in approprate block. Enter measurements as required.
Enter unmultiplied values unless otherwise asked.

Activities	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Check Building for Leaks	☐	☐	☐	☐	Check DC Lighting Working	☐	☐	☐	☐
Check Eye Wash Station OK	☐	☐	☐	☐	Check Fence OK	☐	☐	☐	☐
Check Fire Extinguisher in Place and Charged	☐	☐	☐	☐	Check First Aid Kit Contents Ok	☐	☐	☐	☐
Check for Any Risk to System Reliability	☐	☐	☐	☐	Check For Oil Leaks	☐	☐	☐	☐
Check For Vandalism	☐	☐	☐	☐	Check Gates and Locks OK	☐	☐	☐	☐
Check Ground Sticks OK	☐	☐	☐	☐	Check High Voltage Danger Signs in Place	☐	☐	☐	☐
Check to See if Snow Clearing is Required	☐	☐	☐	☐					

Building & Accessories	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
AC Lighting	☐	☐	☐	☐	AC Panel	☐	☐	☐	☐
Building Condition	☐	☐	☐	☐	Danger and Caution Tags	☐	☐	☐	☐
DC Lighting	☐	☐	☐	☐	DC Panel	☐	☐	☐	☐
Exit Sign	☐	☐	☐	☐	Fire Extinguisher	☐	☐	☐	☐
First Aid Kit	☐	☐	☐	☐	Flashlight	☐	☐	☐	☐
Hard Hats	☐	☐	☐	☐	Heaters	☐	☐	☐	☐
Housekeeping	☐	☐	☐	☐					

Control Panels	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Control Panel Lamps	☐	☐	☐	☐	Equipment Identification	☐	☐	☐	☐
Meters	☐	☐	☐	☐	Relay Targets	☐	☐	☐	☐

General Properties	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
*Special Instructions Completed	☐	☐	☐	☐	Crushed Stone	☐	☐	☐	☐
Fence and Fence Grounding	☐	☐	☐	☐	Gates and Locks	☐	☐	☐	☐
Ground Sticks and/or Hot Sticks	☐	☐	☐	☐	High Voltage Danger Signs	☐	☐	☐	☐
Vandalism	☐	☐	☐	☐	Vegetation	☐	☐	☐	☐
Yard Clean	☐	☐	☐	☐					

Miscellaneous Equipment	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Switch Blades	☐	☐	☐	☐					

WHE-404L-B

210061 - CB-Min Oil	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Breaker Position	Local Remote				Breaker Status	Closed Open			
Bushings	☐	☐	☐	☐	Conduits	☐	☐	☐	☐
Counter	_____				Equipment Identification	☐	☐	☐	☐
Foundation	☐	☐	☐	☐	Grounding	☐	☐	☐	☐
Hinges / Hasps / Latches and Handles	☐	☐	☐	☐	Lubrication	☐	☐	☐	☐
Max Amps Phase A	_____				Max Amps Phase B	_____			
Max Amps Phase C	_____				Oil Leaks	☐	☐	☐	☐
Oil Level	☐	☐	☐	☐	PCB Label	☐	☐	☐	☐
Physical Condition	☐	☐	☐	☐	Relay Targets and Indicating Lamps	☐	☐	☐	☐
Springs Charged	☐	☐	☐	☐					

WHE-BAT-S

100177 - Battery	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Apron and Goggles	☐	☐	☐	☐	Cleanliness	☐	☐	☐	☐
Condition of Posts	☐	☐	☐	☐	Eye Wash	☐	☐	☐	☐
Fan or Vent	☐	☐	☐	☐	Filled	No Yes			
Fluid Film	☐	☐	☐	☐	Hydrometer	☐	☐	☐	☐
Pilot Cell Temperature oC	_____				Specific Gravity of Pilot Cell	_____			

WHE-CHG

110018 - Charger	Sat	Unsat	N/A	C/C		Sat	Unsat	N/A	C/C
Charger Current A	_____				Float Voltage V	_____			

Remarks / Details of Work Completed :

Follow Up Work : Suggested Priority :

(1) _____ 1 2 3 4 5 6

(2) _____ 1 2 3 4 5 6

(3) _____ 1 2 3 4 5 6

(4) _____ 1 2 3 4 5 6

(5) _____ 1 2 3 4 5 6

(6) _____ 1 2 3 4 5 6

(7) _____ 1 2 3 4 5 6

(8) _____ 1 2 3 4 5 6

Priority Key :

1 - Immediate (2 days) 2 - High (1 week) 3 - Medium (1 mth)
4 - Low (3 mths) 5 - Project 6 - Deficiency (>3 mths)

Inspected By :	Employee # :	Hours :	Date Completed :
_____	_____	_____	_____

Supervisor Name :	Reviewed Date :
_____	_____

Work Order Number : Work Order Keyed : ☐