

Pictures of the Transformer requiring replacement and Fall Pond and Substation Inspection forms for the West Brook and Gander substations

Pictures of Fall Pond transformer rusting





10/24/02 THU 18:41 FAX 709 891 4080 NF. POWER BURIN
Newfoundland Light & Power Co., Limited N →→→ ENERGY SUPPLY 001
PLANT OPERATOR'S INSPECTION REPORT

Form will be Handwritten

POWER PLANT WEST BROOK

☒ OK ☒ Needs Attention ☐ Adjustment Made ☐ Not Applicable

REMARKS - ACTION TAKEN

CHECK LIST

<input checked="" type="checkbox"/>	Powerhouse Security	
<input checked="" type="checkbox"/>	Powerhouse Heating System	27°
<input checked="" type="checkbox"/>	Powerhouse Ventilation System	
<input checked="" type="checkbox"/>	Turbine Bearing Temperatures	61°
<input checked="" type="checkbox"/>	Turbine Bearing Oil/Grease	
<input checked="" type="checkbox"/>	Generator Bearing Temperatures	38°
<input checked="" type="checkbox"/>	Generator Bearing Oil/Grease	
<input checked="" type="checkbox"/>	Generator Stator Temperatures	36°
<input checked="" type="checkbox"/>	Generator Brush Gear	
<input checked="" type="checkbox"/>	Governor Oil System	190 psi
<input checked="" type="checkbox"/>	Backup Oil System	
<input checked="" type="checkbox"/>	Cooling Water System	12°
<input checked="" type="checkbox"/>	Air Compressor	
<input checked="" type="checkbox"/>	Switchgear	
<input checked="" type="checkbox"/>	Battery Specific Gravity	1225
<input checked="" type="checkbox"/>	Battery Water Level	
<input checked="" type="checkbox"/>	Battery Charger	VOLTS 132 Amps 2.5
<input checked="" type="checkbox"/>	Standby Generator	
<input checked="" type="checkbox"/>	Substation Yard Security	
<input checked="" type="checkbox"/>	Substation Yard Switchgear	
<input checked="" type="checkbox"/>	Power Transformer	One sweating a little This sweat has stopped.
<input checked="" type="checkbox"/>	Tailrace	
<input checked="" type="checkbox"/>	Surge Tank	
<input checked="" type="checkbox"/>	Penstock	
<input checked="" type="checkbox"/>	Forebay	Water level 9.2"
<input checked="" type="checkbox"/>	Gate - House	
<input checked="" type="checkbox"/>	Gate	
<input checked="" type="checkbox"/>	Trashracks	
<input checked="" type="checkbox"/>	Canals	
<input checked="" type="checkbox"/>	Dams	
<input checked="" type="checkbox"/>	Control Structures	
<input checked="" type="checkbox"/>	Spillways	
<input checked="" type="checkbox"/>	Other	

FEED FAX THIS END

FAX

To: Rick Spurrell
 Dept.: Power Systems
 Fax No.: _____
 No. of Pages: 2
 From: Cory Hollett
 Date: Oct 24 / 02
 Company: _____
 Fax No.: _____
 Comments: _____

Post-it fax pad 7903C

	GEN. No. 1	GEN. No.	SERVICE	
			WATER	POWER
END of MONTH				
BEG. of MONTH				
DIFFERENCE				
MULTIPLIER				
KWH for MONTH				

TOTAL GROSS TOTAL SERVICE NET

Operator R. Edwards Supervisor _____
 Time 11:15 AM Date _____
 Date Oct 19 Yr. Mo. Day

White Copy: Supt. Hydro Generation
Yellow Copy: File at Power Plant

Revis

10/25/02 08:59 FAX 709 651 8865

NF POWER GANDER

→ ENERGY SUPPLY

004

Routine Substation Inspection

NEWFOUNDLAND
POWER
A FORTIS COMPANY

Substation: Gander Identification No. 5901 Completed By: Rick Wind Date: 99-06-29

Please X if satisfactory

Building & Accessories

Lighting A.C. / D.C.	<input checked="" type="checkbox"/>	Hard hats	<input checked="" type="checkbox"/>	Humus toilet	<input type="checkbox"/>
Heaters	<input checked="" type="checkbox"/>	First aid kit	<input checked="" type="checkbox"/>	Housekeeping	<input checked="" type="checkbox"/>
Telephone(s) with directories	<input checked="" type="checkbox"/>	Panel A.C. / D.C. Wall	<input checked="" type="checkbox"/>	Garbage can	<input checked="" type="checkbox"/>
Fire-break doors	<input checked="" type="checkbox"/>	cabinet	<input checked="" type="checkbox"/>	Hot line gloves	<input checked="" type="checkbox"/>
Spare power fuses	<input checked="" type="checkbox"/>				

Remarks:

Battery & Battery Charger

Liquid level in cells	<input checked="" type="checkbox"/>	Eye wash Neutralize	<input checked="" type="checkbox"/>	Float voltage	<u>130.1</u>
Battery cleanliness	<input checked="" type="checkbox"/>	Eye wash expiry date	<input checked="" type="checkbox"/>	Equalize voltage	
Fan	<input checked="" type="checkbox"/>	Ground test	<input checked="" type="checkbox"/>	Charger current	<u>1</u>
Hydrometer, apron, and goggles	<input checked="" type="checkbox"/>			Pilot cell S.P.G.	<u>12.17</u>
				Pilot cell temperature	<u>67°F</u>

Remarks:

Equipment in Yard

Breakers closed and springs charged	<input checked="" type="checkbox"/>	Oil leaks	<input checked="" type="checkbox"/>	Electronic Reclosers; Ground	
Bleed compressor tanks	<input type="checkbox"/>	Lubrication	<input checked="" type="checkbox"/>	trip block switch, lockout	
Compressor belts	<input type="checkbox"/>	Switch blades	<input checked="" type="checkbox"/>	indicating lamp, battery test,	
Oil levels (all)	<input checked="" type="checkbox"/>	Potheads and cables	<input checked="" type="checkbox"/>	heater & spare fuses.	<input type="checkbox"/>
Heaters	<input checked="" type="checkbox"/>	Hinges, hasps, latches and handles	<input checked="" type="checkbox"/>	Westinghouse recloser;	
Silica gel	<input checked="" type="checkbox"/>	Physical condition of equipment	<input checked="" type="checkbox"/>	Block reclose switch in	
Gas detectors	<input checked="" type="checkbox"/>	Metering Tank	<input type="checkbox"/>	mechanism compartment	<input type="checkbox"/>
Fans	<input checked="" type="checkbox"/>	Metering cabinet	<input type="checkbox"/>	Westinghouse reclosers & O.C.B.;	
Pressure relief dev Indicator buttons	<input checked="" type="checkbox"/>	Recloser and feeder breakers in		Relay targets & indicating lamps	<input type="checkbox"/>
Relief vent diaphragms	<input checked="" type="checkbox"/>	"Reclose"	<input checked="" type="checkbox"/>	Tapchangers automatic	<input checked="" type="checkbox"/>
Glass in gauges, etc.	<input checked="" type="checkbox"/>	Ground trip blocking switches	<input type="checkbox"/>	Voltage regulators	<input type="checkbox"/>
Bushings and insulators	<input checked="" type="checkbox"/>	Recloser meters	<input type="checkbox"/>	Equipment Identification	<input checked="" type="checkbox"/>
Foundations	<input checked="" type="checkbox"/>	Equipment grounding	<input checked="" type="checkbox"/>		

Remarks: Replaced Silica Gel on T2

Indoor Switchgear & Control Panels

Control panel lamps	<input checked="" type="checkbox"/>	Meters	<input checked="" type="checkbox"/>	Check for excessive heating,	
Relay targets	<input checked="" type="checkbox"/>	Elevating motors, racking handles		unusual noises or other	
Breakers closed and springs charged	<input type="checkbox"/>	and dollies in holders on wall	<input type="checkbox"/>	abnormal conditions	<input checked="" type="checkbox"/>
Cubicle heaters	<input type="checkbox"/>			Equipment Identification	<input checked="" type="checkbox"/>

Remarks: 30/81X on Gander

05/97 Form No. 139

10/25/02 08:59 FAX 709 651 6665
10/25/02 09:00 FAX 709 651 6665

NE POWER CANTER
NF POWER GANDER

ENERGY SUPPLY 1000

Equipment Readings

Ambient Temperature 20 °C

Transformer I.D. No.	Designation	Winding Temperature °C			Oil Temperature °C		
		Min.	Max.	Present	Min.	Max.	Present
<u>200249</u>	<u>GAN-T1</u>		<u>50</u>	<u>40</u>		<u>52</u>	<u>42</u>
<u>200175</u>	<u>GAN-T2</u>		<u>50</u>	<u>38</u>		<u>52</u>	<u>40</u>

Remarks: Slight leak around air gauges on T3

Breaker I.D. No.	Designation	Gas Pressure (psi)			Units	Air Pressure (psi)
		Phase A	Phase B	Phase C		

Remarks:

Cable I.D. No.	Designation	Oil Pressure (psi)			Units
		A	B	C	

Remarks:

General Property

Gates and locks	<input checked="" type="checkbox"/>	Yard lighting	<input checked="" type="checkbox"/>	Check for vandalism	<input checked="" type="checkbox"/>
Telephone in yard	<input type="checkbox"/>	Station service	<input checked="" type="checkbox"/>	Drainage	<input checked="" type="checkbox"/>
Ground sticks and hot sticks	<input checked="" type="checkbox"/>	Fence and fence grounds	<input checked="" type="checkbox"/>	Crushed stone	<input checked="" type="checkbox"/>
Cable trench covers	<input type="checkbox"/>	Yard clean	<input checked="" type="checkbox"/>	Snow clearing	<input checked="" type="checkbox"/>
H.V. danger signs	<input checked="" type="checkbox"/>				

Remarks 12.5 - 123V

66 - 112V

138 - 115V

Alders both inside and outside yard need attention
Prun needs cutting