1	Q.	In reference to the response to PUB 116 NLH, please provide a detailed list
2		of all transmission facilities associated with generation and functionalized as
3		such. Please include the generation source linked to the transmission
4		facilities as well as the starting and ending point of the generation related
5		transmission facilities.
6		
7		
8	A.	A detailed list of all transmission facilities associated with generation and
9		functionalized as such follows. The transmission facilities are grouped by
10		generation source. Please note that foundations, structural supports, contro
11		cables, control and relay panels, grounding and conductors are associated
12		with each piece of major equipment listed below.
13		
14		Bay D'Espoir Generating Station
15		Transmission Lines
16		o None
17		Terminal Station Equipment
18		 Bay D'Espoir Terminal Station
19		 Six 13.8/230 kV, 64/85 MVA power transformers
20		complete with high voltage surge arresters
21		One 13.8/230 kV, 129/172 MVA power transformer
22		complete with high voltage surge arresters
23		 Fifteen 230 kV circuit breakers
24		 Thirty two 230 kV disconnect switches
25		 Six 230 kV ground switches
26		 Thirty nine 230 kV current transformers
27		 Eighteen 230 kV potential transformers
28		Compressed air system

	•			
D٥		2	Λf	7

1	Cat Arm Generating Station
2	Transmission Lines
3	 TL247 from Cat Arm Terminal Station to Deer Lake Terminal
4	Station
5	 TL248 from Deer Lake Terminal Station to Massey Drive
6	Terminal Station
7	Terminal Station Equipment
8	 Cat Arm Terminal Station
9	 Two 13.8/230 kV, 60.80 MVA power transformers
10	Two 13.8 kV/600 V, 1 MVA power transformers
11	 230 kV, SF₆ switchgear
12	 Three 230 kV surge arresters
13	 Two 230 kV capacitive voltage transformers
14	 Two 230 kV wave traps
15	 Coney Arm Terminal Station
16	One 25/69 kV, 2.5/3.3/4.0 MVA power transformer
17	 One 69 kV disconnect switch complete with ground
18	switch
19	 Three single phase 14.4 kV, 288 kVA voltage regulators
20	 14.4 kV/120 V, 10 kVA station service transformer
21	 Three voltage regulator bypass switches
22	 Three 69 kV power fuses
23	 Two 25 kV reclosers
24	 Two 25 kV fused recloser by pass switches
25	 One 25 kV fused cutout
26	 Three 69 kV lightning arresters
27	 Six low voltage lightning arresters
28	25 kV Metering tank
29	 Deer Lake Terminal Station
30	 Two 230 kV circuit breakers

PUB-185 NLH 2003 NLH General Rate Application

	D 0 . (1)
1	Page 3 of ■ Four 230 kV motorized disconnect switches, two
2	complete with ground switches
3	 Six 230 kV current transformers
4	 Six 230 kV potential transformers
5	 Massey Drive Terminal Station
6	 One 230 kV circuit breaker
7	 Two 230 kV motorized disconnect switches
8	 One 230 kV ground switch
9	 One 230 kV capacitive voltage transformer
10	 Three 230 kV current transformers
11	
12	Granite Canal Generating Station
13	Transmission Lines
14	 TL263 from Granite Canal Terminal Station to Upper Salmon
15	Terminal Station
16	Terminal Station Equipment
17	 Granite Canal Terminal Station
18	One 13.8/230 kV, 30/40/50 MVA power transformer
19	complete with high and low voltage station class surge
20	arresters
21	 Single phase, 230 kV high speed ground switch
22	 One 230 kV motorized disconnect switch
23	 One 230 kV ground switch
24	 Three 230 kV potential transformers
25	 Upper Salmon Terminal Station
26	 One 230 kV circuit breaker complete with current
27	transformers
28	 Two 230 kV motorized disconnect switches
29	 One 230 kV ground switch
30	 One 230 kV potential transformer

Pa	ПР	4	ωf	7

1	Hardwoods Gas Turbine
2	Transmission Lines
3	o None
4	Terminal Station Equipment
5	 Hardwoods Terminal Station
6	One 13.8/66 kV, 40/60/75 MVA power transformer
7	complete with high voltage surge arresters
8	 One 66 kV circuit breaker
9	 One 66 kV disconnect switch
10	
11	Hinds Lake Generating Station
12	Transmission Lines
13	 TL243 from Hinds Lake Terminal Station to Howley Terminal
14	Station
15	Terminal Station Equipment
16	 Hinds Lake Terminal Station
17	 Two 13.8/138 kV, 41.5/55.3/69.2 MVA power
18	transformers complete with high and low voltage surge
19	arresters
20	 One single phase 138 kV high speed ground switch
21	 One 138 kV motorized disconnect switch
22	 One 138 kV ground switch
23	 One 138 kV potential transformer
24	 One 138 kV current transformer
25	 Howley Terminal Station
26	 One 138 kV circuit breaker
27	 Three 138 kV current transformers
28	 Two 138 kV disconnect switches
29	 One 138 kV ground switch
30	 Two 138 kV potential transformers

Page	5	οf	7

1	Holyrood Generating Station	Page 5 of 7
2	Transmission Lines	
3	None	
4	Terminal Station Equipment	
	• •	
5	Holyrood Terminal Station	- (405/440/400 NA)/A
6	 Four 16/230 kV power transformers 	s (105/140/180 MVA –
7	unit 1, 115/152/190 MVA – unit 2,	170 MVA – unit 3 &
8	170 MVA – spare)	
9	 Nine 230 kV circuit breakers 	
10	 Nineteen 230 kV motorized discon 	nect switches
11	 Five 230 kV motorized disconnect 	switches complete
12	with ground switch	
13	 One 230 kV manual disconnect sw 	itch
14	 One 230 kV ground switch 	
15	 Thirty 230 kV current transformers 	
16	 Eleven 230 kV potential transformed 	ers
17	 Two 4.16/69 kV, 10.5/14 MVA state 	on service
18	transformers	
19	Three 4.16/16 kV, 10 MVA unit ser	vice transformers
20	 One 4.16/69 kV, 1.5 MVA outside s 	services substation
21	 One 69 kV circuit breaker 	
22	■ Two 60 kV disconnect switches (or	as with around switch)

Þ	an	Δ (6	ηf	7

1	Paradise River Generating Station
2	Transmission Lines
3	 TL258 from Paradise River Terminal Station to Monkstown
4	Terminal Station
5	Terminal Station Equipment
6	 Paradise River Terminal Station
7	 One 4.16/25 kV, 6/8/10 MVA power transformer
8	complete with high and low voltage surge arresters
9	 One 25 kV recloser
10	 Two 25 kV disconnect switches
11	 One 25 kV capacitive voltage transformer
12	 One 25 kV wave trap
13	 Three 14.4kV/600 V, 75 kVA station service
14	transformers
15	■ Two 14.4kV/600 V, 50 kVA station service transformers
16	 Monkstown Terminal Station
17	 One 25 kV potential transformer
18	 Cost for changeout of Monkstown power transformer to
19	accommodate Paradise River
20	
21	Star Lake – Non Utility Generator
22	Terminal Station Equipment
23	 Buchans Terminal Station
24	 One 69 kV circuit breaker
25	 Two 69 kV disconnect switches
26	 One 69 kV ground switch
27	 One 69 kV potential transformer
28	 One 69 kV wave trap

Page	7	οf	7

1	Stephenville Gas Turbine
2	Transmission Lines
3	o None
4	Terminal Station Equipment
5	 Stephenville Terminal Station
6	One 13.8/66 kV, 45/60/75 MVA power transformer
7	complete with high voltage surge arresters
8	 One 66 kV disconnect switches
9	
10	Upper Salmon Generating Station
11	Transmission Lines
12	 TL234 from Upper Salmon Terminal Station to Bay D'Espoir
13	Terminal Station
14	Terminal Station Equipment
15	 Upper Salmon Terminal Station
16	One 13.8/230 kV, 53.2/70.6/88.4 MVA power
17	transformer complete with high and low voltage surge
18	arresters
19	 One 230 kV circuit breaker
20	 Two 230 kV motorized disconnect switches
21	 One 230 kV ground switch
22	 Three 230 kV capacitive voltage transformers
23	 Three 230 kV current transformers
24	 One 230 kV wave trap
25	 Bay D'Espoir Terminal Station
26	 Two 230 kV circuit breakers
27	 Four 230 kV motorized disconnect switches
28	 One 230 kV ground switch
29	 Nine 230 kV current transformers
30	 Three potential transformers