1	Q.	Re: CBA, Rev. 1, vol. II, Labrador City L22 Voltage Conversion, page 1 (p. 609 pdf)		
2		Citation:		
3 4 5 6 7 8		The	Cooper Hill Substation, located in Labrador City, supplies 4.16 kV power via distribution line 22 ("L22") which services the Labrador Mall and approximately 35 residential customers. L22 is the only distribution line originating from the Cooper Hill Substation, where the voltage is stepped down through transformer T1 from 46 kV to 4.16 kV. In the event of a failure of Cooper Hill T1it is estimated that restoration of L22 would take approximately one week.	
9		a. Please situate this project in the context of the Labrador City voltage conversion w		
10 undertaken over the las		ur	ndertaken over the last 15 years.	
l1 l2 l3		i.	Is Cooper Hill the only substation that was remains at 4.16 kV? If not, please describe what portions of the Labrador City distribution system have been converted, and which have not.	
L4 L5		ii.	Why was Cooper Hill not converted as part of the Labrador City Distribution Upgrade?	
L6 L7	Α.			
18		a.		
19 20 21 22 23 24 25		i.	Cooper Hill is the only substation that remains 4.16 kV; however, there are three feeders that are supplied from Vanier and Quartzite substations that operate at 4.16 kV. This includes feeders QZ27, VA9, and VA28. Feeders QZ27 and VA9 are both customerowned feeders and are served by aerial banks of 3 x 167 kVA transformers connected to feeders QZ11 and VA9. Feeder VA28 is served by a single 100 kVA transformer connected to feeder VA5. These feeders were not included in the scope of the Labrador City Distribution Upgrade (voltage conversion project) as upgrades were not necessary	
26			on these feeders to meet the electricity needs at the time.	

ii. Cooper Hill was not converted as part of the Labrador City Distribution Upgrade due to challenges with land acquisition and elevated distribution line construction costs at the time. Required step-down transformer platforms could not be practically installed in the area of the Labrador Mall and it was determined that the substation should remain in operation at 4.16kV.

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