1	Q.	References: Volume I, 2019 Capital Projects, \$500,000 and Over, Project Title:		
2		Thermal Generation In-Service Failures, page C17.		
3				
4		Provide historical expenditures for the period 2014 to 2018 for the historical		
5		projects now covered by this project.		
6				
7				
8	A.	Prior to the inception of the "Thermal Generation In-Service Failures Program",		
9		failures and incipient failures of Thermal Generation equipment were addressed		
10		either as a Supplemental Capital Budget Application, within Hydro's Unforeseen		
11		Allowance, or within Projects less than \$50,000. The "In-Service Failures Program"		
12		has allowed Hydro to address equipment failures or incipient equipment failures, in		
13		a more prompt and regulatory efficient manner to maintain or restore system		
14		reliability.		
15				
16		Activities for the years 2014-2017, inclusive, which were covered under the		
17		Unforeseen Allowance, Supplemental Application, or Projects less than \$50,000, but		
18		would be addressed under in-service failures today, are outlined in Table 1. For		
19		2018, the forecasted in-service failures expenditures are provided.		

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Table 1: Thermal In-Service Failures (\$000s)

		. ,	
Activity	Actual Expenditures - Completed Activities	Forecasted Expenditures - Ongoing Activities	Addressed Within
2014			
Replace Unit #1 Air Compressor - Holyrood	319.4		Supplemental
Total	319.4		
2015			
Unit Service Transformer for Unit 3 - Holyrood Thermal Generating Station	75.8		Unforeseen Allowance
Purchase Critical Spares Generation Stations	400.0		Supplemental
Replace Rectifier Transformers - Holyrood Units 1 and 2	870.4		Supplemental
Total	1,346.20		
2016			
N/A			
Total	0.0		
2017			
Holyrood Unit 2 Fire Damage Rehabilitation	540.8		Unforeseen
Domestic Waterline Replacement - Holyrood	56.9		Projects less than \$50k
Line Replacement and New Valve - Holyrood	50.3		Projects less than \$50k
PA System Wiring Damage Refurbishment - Holyrood	54.1		Projects less than \$50k
Total	702.1		
2018			
Refurbish 4160 V FD Fan and Boiler Feed Pump motors		70.0	In-Service Failures
4" pump out line refurb (Marine Terminal)		150.0	In-Service Failures
Variable Frequency Drive (VFD) Failures, U1 U2		74.0	In-Service Failures
Mark V Failure U1		85.0	In-Service Failures
Boiler Refractory Ports, U1 U2 (Boiler Defined Work)		571.0	In-Service Failures

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2018		
DCS Failure	35.0	In-Service Failures
DCS Operator Station	6.0	In-Service Failures
Unit 3 East Cooling Water Pump Motor	65.0	In-Service Failures
Unit 2 West Cooling Water Pump Motor	42.0	In-Service Failures
Total	1,098.0	