

IPR Follow Up Question – Transmission Workshop

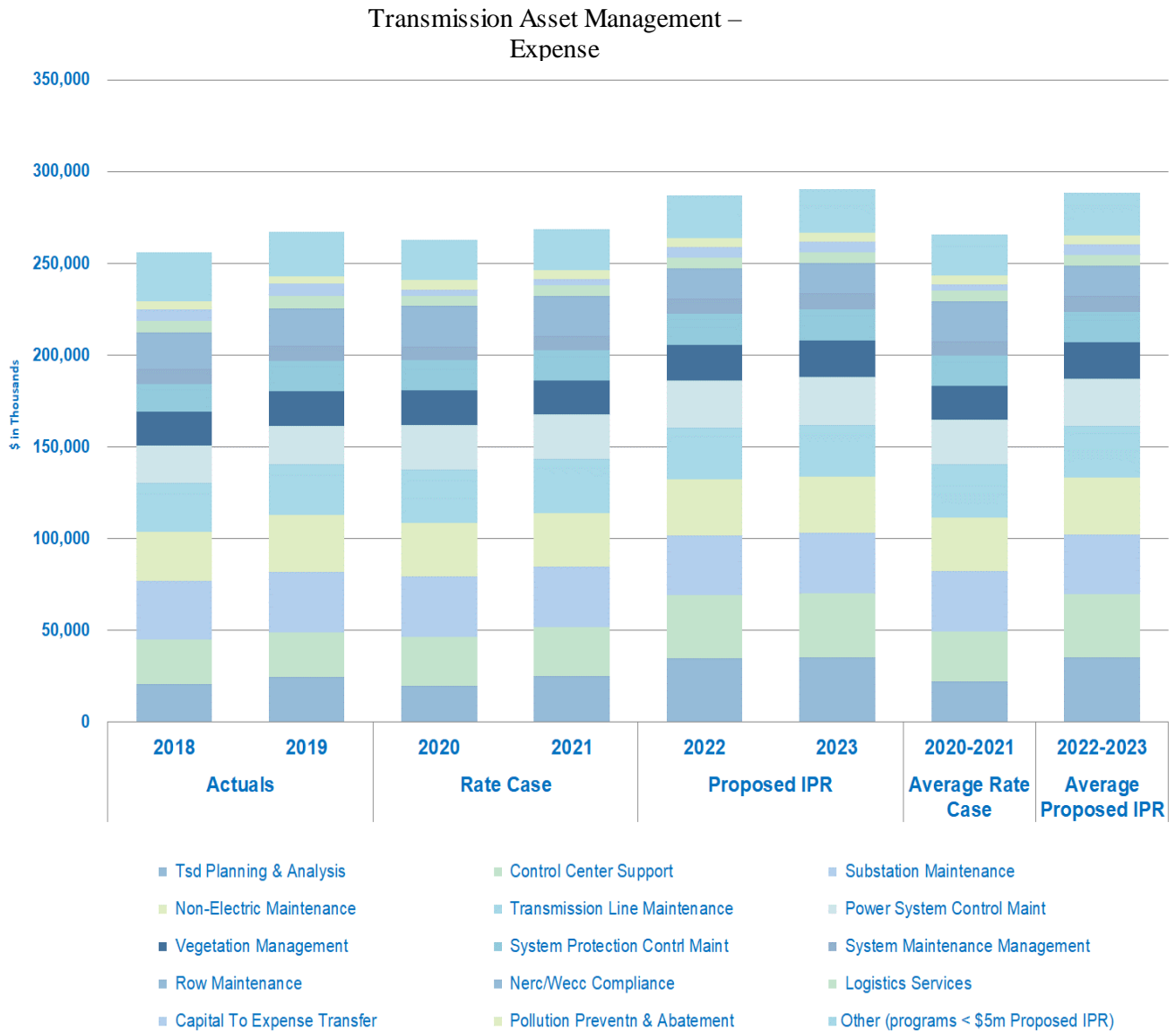
1. Clarification of the capital increase for the new control center.

If the new Vancouver Control Center project is approved, the estimated capital funding for this IPR period is listed in the table below. Our current projection is to have the VCC planning and approval in FY20 and FY21, building constructed in FY22 - FY24 (Facilities costs in the table below), equipment purchased in FY25 - FY27 (Transmission and IT costs in the table below), fully functional by FY28, and is subject to change based on internal decisions. BPA will continue our outreach to our customers as refinements are made to costs and schedules.

Capital Spending Assumed for VCC Project										
\$ in Thousands	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Facilities	\$ 37,300	\$ 74,600	\$ 74,600	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transmission	\$ -	\$ -	\$ -	\$ 148,600	\$ 144,000	\$ 70,000	\$ -	\$ -	\$ -	\$ -
IT				\$ 5,000						
Total	\$ 37,300	\$ 74,600	\$ 74,600	\$ 153,600	\$ 144,000	\$ 70,000	\$ -	\$ -	\$ -	\$ -

2. Graph on slide 17 of the Transmission Workshop package is hard to read.

This graph is posted below:



The corresponding Transmission Asset Management expense detail table is on the following page.

Transmission Asset Management, Expense Detail

(\$thousands)	Actuals		Rate Case		Proposed IPR		Avg Rate Case	Avg Proposed IPR
	2018	2019	2020	2021	2022	2023	2020 - 2021	2022 -2023
Tsd Planning & Analysis	20,651	24,518	19,418	24,726	34,694	35,022	22,072	34,858
Control Center Support	24,147	24,144	26,877	26,877	34,588	34,882	26,877	34,735
Substation Maintenance	32,051	33,038	33,201	33,201	32,355	32,926	33,201	32,640
Non-Electric Maintenance	26,636	30,892	28,968	29,053	30,708	30,880	29,010	30,794
Transmission Line Maintenance	26,565	27,987	29,249	29,249	27,868	28,279	29,249	28,074
Power System Control Maint	20,662	20,836	24,290	24,290	25,696	26,076	24,290	25,886
Vegetation Management	18,112	18,709	18,499	18,499	19,796	19,846	18,499	19,821
System Protection Contrl Maint	15,239	16,485	16,477	16,477	16,548	16,916	16,477	16,732
System Maintenance Management	8,480	8,604	7,713	7,713	8,641	8,760	7,713	8,700
Row Maintenance	8,073	8,421	7,052	7,052	8,208	8,275	7,052	8,241
Nerc/Wecc Compliance	11,859	11,495	14,973	14,973	8,096	8,140	14,973	8,118
Logistics Services	6,188	7,165	5,671	5,843	5,847	5,902	5,757	5,874
Capital To Expense Transfer	6,179	6,599	3,328	3,328	5,846	5,846	3,328	5,846
Pollution Preventn & Abatement	4,290	3,778	4,957	5,081	4,779	4,896	5,019	4,838
Information Technology	11,663	12,307	10,881	10,963	3,972	4,037	10,922	4,004
Asset Mgmt Exec & Admin Svcs	0	0	0	0	3,454	3,482	0	3,468
Security Enhancements Expense	727	640	711	711	3,031	3,031	711	3,031