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1	Q.	C-215, Overhaul Turbine/Generator Units, \$456,600
2		Please provide the dates of previous overhauls of the Upper Salmon River
3		turbine/generator unit and of the Granite Canal turbine/generator unit, as well as
4		explanations of variances, if any, from the six-year overhaul schedule.
5		
6		
7	A.	The Granite Canal plant was commissioned in 2004 and has not had a major
8		overhaul. This variance from the standard six years is due to the fact that the unit is
9		new which allows for an extra two years to integrate the Granite Canal unit into the
10		rotation for overhauls.
11		
12		Hydro's electronic records (which go back to 1991) indicate that the Upper Salmon
13		Plant had previous overhauls in 1993, 1999 and 2006. The reason for the variance in
14		2005 is that Cat Arm Unit 1 required extra corrective work to repair leaks to cooling
15		water piping (96 hours), servo motor (20 hours) and turbine needles (40 hours). To
16		align with this extended outage, unit overhauls were swapped between Cat Arm
17		Unit 1 and Upper Salmon.
18		
19		Hydro Generation unit overhauls are scheduled to allow for cost and resource
20		leveling on an annual basis. Scheduling two overhauls per year simultaneously
21		facilitates the planned six year frequency for overhauls and levels resource
22		demands and costs on an annual basis.
23		
24		In any given year, the units scheduled for an overhaul may be adjusted to align with
25		other major planned work in an adjacent year, or to facilitate work on another unit
26		in an adjacent year. This is done in a controlled fashion based on test results,
27		recent visual inspections, and increasing forced outage trends.