1	Q.	GENERATION HYDRO
2		
3		PUB 37.0
4		
5		Please provide an economic rationale supporting approval of the expenditures for
6		the related items.
7		
8		
9	A.	The related items, as noted in the response to PUB 36.0 NP, are the turbine overhaul and
10		the penstock coating replacement.
11		A
12 13		As noted at page 4 of 1.2 Petty Harbour Hydro Plant Refurbishment, the related items
13		are required to be completed in 2006, regardless of whether the other project items
15		proceed at that time.
16		The turbine overhaul is required to ensure the safe operation of Unit 2 and to enable the
17		unit to produce its rated power output. The penstock coating replacement is required to
18		provide corrosion protection for the penstock and maintain its life expectancy based on
19		recent industry findings.
20		recent made y imamgs.
21		Completing the two related items at the same time as the interdependent work results in
22		overall cost reductions estimated to be in the order of \$35,000. These cost savings result
23		from the elimination of additional site supervision, engineering and administration, as
24		well as contractor-related savings.
25		
26		Completing all of the items in 2006 also avoids an additional 10-week shutdown of the
27		plant in a later year, which could result in additional spilling of water and associated lost
28		production.