1	Re: 2009 Capital Projects \$200,000 - \$500,000 p. D-3 - Condensate Drains - Holyrood	
2		
3	Q.	a) Has condensation ever been induced into the high pressure turbine at Unit
4		1, Holyrood?
5		
6		b) If the answer to a) is yes, has the induction of such condensate ever
7		caused damage, or otherwise required the unit to undergo maintenance?
8		
9		c) How long has Unit 1 operated without drain pots?
10		
11		
12	A.	a) Yes, there have been incidents at the Holyrood Plant whereby condensate
13		has been introduced into the high pressure turbine of Unit 1 through the
14		reheat steam piping during start-ups and has required urgent manual
15		opening of the existing cold reheat drain valves to remove the condensate.
16		The frequency and times when this has occurred has not been documented.
17		
18		b) Maintenance records indicate that there has been no turbine damage that
19		can be attributed to the induction of condensate into the turbine through the
20		cold reheat steam lines at Holyrood. Hydro may have been fortunate in this
21		regard. Such damage has occurred in the past at other thermal generating
22		stations as noted in FM Global Recommendations, Part B: The Hazard on
23		page D-6 of the 2009 Capital Budget Application.
24		
25		c) Unit 1 has operated without drain pots since the original construction in
26		1970. However, as stated in the Capital Budget Proposal, our insurer has
27		identified water induction as a major potential hazard, and installation of drain
28		pots is now necessary.