Re: 2009 Capital Projects $200,000 - $500,000 p. D-15 - Generator Oil Level System - Holyrood

Q. a) When was the existing generator oil level system on Units #1 and #2 (Holyrood) installed?

b) Has a different oil level system ever been employed on Units #1 and #2, and if so, when?

c) Has there ever been a failure of Unit #1 or #2 due to depletion of oil levels?

d) If the answer to c) is yes, were these failures attributable to the existing oil level system?

A. a) (*Please note that this project is required to replace the generator oil level system on Units 1 and 2 at Cat Arm*).
The existing generator oil level system was installed on the units when the Cat Arm Generating Plant was constructed in 1985.

b) There has been no other oil level system employed on the units.

c) There has never been a failure of the units due to depletion of oil levels. However, the potential for failure exists because the current system is unreliable due to its inability to trigger a low level alarm. In October 2003, an oil leak from the generator thrust bearing was discovered during annual maintenance procedures. Had a low level alarm been operational, this leak would have been discovered sooner. This condition put the generator at risk

of failure due to loss of oil pressure causing increased friction to damage the generator and turbine bearing. A functional oil level system would have detected the leak and annunciated an alarm.

d) Please refer to c) above.