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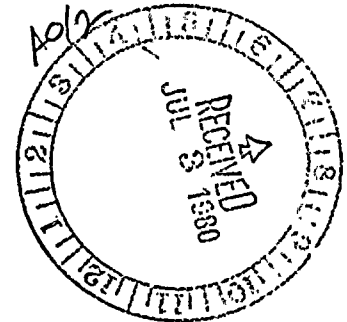


PUBLIC SERVICE COMPANY

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DOCKET NOS 50-528, 529, 530

June 27, 1980  
ANPP-15756 - JMA/KWG



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Mr. R. H. Engelken, Director  
U.S. Nuclear Regulatory Commission  
Region V  
202 Walnut Creek Plaza  
1990 North California Boulevard  
Walnut Creek, California 94596

Subject: NRC I&E Bulletin No. 80-05  
dated March 10, 1980  
File: D.4.06.1; 80-005-026

Dear Mr. Engelken:

The design and construction of PVNGS has been reviewed in regards to NRC I&E Bulletin No. 80-05, Vacuum Conditions Resulting in Damage to Chemical Volume Control System Holdup Tanks.

Our response to Items 1 and 2 of the subject Bulletin are as follows:

1. A review of the systems involved identified the following tanks:
  - a. Chemical Volume and Control System, Holdup Tank (CVCS HT). No additional/new vacuum protection measures are needed -- for justification, see Item 2a.
  - b. Liquid Radwaste System, Holdup Tanks ( LRS HT's). No additional/new vacuum protection features are needed -- for justification, see Item 2b.
2. The holdup tanks at PVNGS have adequate vacuum protection features as follows:
  - a. The CVCS HT is provided with a 100 equivalent feet long 1-1/2 inch vent pipe branched into a 500 equivalent feet long 10 inch Refueling Water Tank (RWT) vent header, which is connected into the Fuel Building normal exhaust duct with suction pressure of

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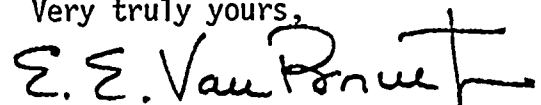
3 inches H<sub>2</sub>O vacuum. There are no valves in the vent system. The total discharge flow from both CVCS HT and RWT is 21580 gpm, which induces 22 inches H<sub>2</sub>O vacuum in addition to the exhaust duct suction pressure. The total vacuum in both the CVCS HT and RWT can thus be 25 inches H<sub>2</sub>O, which is less than the design pressure of 41.4 inches H<sub>2</sub>O vacuum. The CVCS Holdup Tank and Refueling Water Tank thus cannot collapse due to vacuum.

- b. The LRS HT's are provided with a 190 equivalent feet long 2 inch vent pipe connected with the radwaste building normal exhaust duct with suction pressure of 4 inches H<sub>2</sub>O vacuum. There are no valves in the vent system. The HT's total discharge flow rate is 130 gpm, which induces 1.2 inches H<sub>2</sub>O vacuum in addition to the exhaust duct suction pressure. The total vacuum in the tanks can thus be 5.2 in H<sub>2</sub>O vacuum, which is less than the HT's collapsing pressure of 14 inches vacuum.

The LRS Holdup Tanks thus cannot collapse due to vacuum.

If you have any questions, please advise.

Very truly yours,



E. E. Van Brunt, Jr.  
APS Vice President,  
Nuclear Projects  
ANPP Project Director

EEVBJr/KWG/av

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