

Washington Public Power Supply System
A JOINT OPERATING AGENCY

P. O. BOX 1223

ELMA, WASHINGTON 98541

PHONE (206) 249-5001

June 18, 1981
G03-81-2135



Docket Nos. 50-508, 50-509

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



Dear Mr. Engelken:

Subject: PROJECT NOS. 3 AND 5
RESPONSE TO IE BULLETIN 80-05

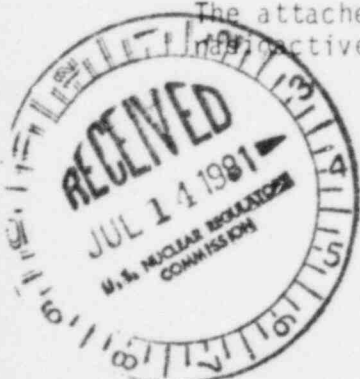
Reference: Letter, D. L. Renberger to R. H. Engelken, Same
Subject, dated June 12, 1980

In the referenced letter, the Supply System provided an initial response to the subject IE Bulletin, entitled, "Vacuum Conditions Resulting in Damage to Chemical Volume Control System (CVCS) Tanks." In the letter, we indicated our intention to review the design of all tanks and components in the radioactive waste system.

All systems containing tanks that could possibly contain radioactive materials were investigated to determine if a partial vacuum would cause any damage to the tanks. The following systems were investigated:

1. Chemical Volume Control System (CVCS)
2. Solid Waste System (SWS)
3. Detergent Waste System (DWS)
4. Floor Drain System (FDS)

The attached Table 1 lists the tanks in these systems which could contain radioactive wastes with an explanation of their vacuum protection.



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As a result of our investigations, the Supply System feels that adequate protection has been provided in the design of WNP-3/5 to preclude the possibility of tank damage and the release of radioactive material or detrimental effects with regard to overall safety of plant operation. Therefore, no corrective action will be taken.

Please notify us if you have any questions regarding our response.

Very truly yours,

R. S. LEDDICK
Program Director, WNP-3/5

Attachment

cc: Director, NRC Office of I&E, Washington D. C.
W. Woods, NUS
N. S. Reynolds, D&L
D. Smithpeter, BPA
Ebasco, NY (Licensing)
Ebasco, Elma

TABLE 1
VACUUM PROTECTION FOR TANKS WHICH COULD CONTAIN RADIOACTIVE WASTE

Tank	System	Design Pressure	Capacity (Gallons)	Vacuum Protection
Holdup Tanks A,B,C,D, & E	CVCS	1.5 psig	103,000	Each tank equipped with 6" vacuum breaker, which cannot be accidentally valved off. The specific surveillance program will be finalized at a later time.
Equipment Drain Tank	CVCS	60 psig (INT.) 15 psig (EXT.)	108,000	Designed for full vacuum conditions.
Volume Control Tank	CVCS	75 psig (INT.) 15 psig (EXT.)	5,110	Designed for full vacuum conditions.
Reactor Drain Tank	CVCS	130 psig (INT.) 15 psig (EXT.)	2,990	Designed for full vacuum conditions.
Concentrate Storage Tank	SWS	Atmosphere (ATM)	3,000	Overflow line is adequately sized such that the differential pressure required to induce flow of air into the tank at the same volumetric flow rate as liquid being pumped out (at runout flow) is less than the maximum allowed by the API code for atmospheric tanks.
Feed Tanks A & B	SWS	ATM	5,000	Same as Concentrate Storage Tank.
Secondary Particulate Filter Hopper	SWS	ATM	2,000	Same as Concentrate Storage Tank.
VRS Condensate Sample Tanks A & B	SWS	ATM	5,000	Same as Concentrate Storage Tank.

Tank	System	Design Pressure	Capacity (Gallons)	Vacuum Protection
Dewatering Tank	SWS	ATM	2,000	Same as Concentrate Storage Tank.
Flush Tank	SWS	ATM	1,000	Same as Concentrate Storage Tank.
Detergent Waste Tanks A&B	DWS	ATM	7,500	Same as Concentrate Storage Tank.
Decontamination Sample Tank	DWS	ATM	600	Same as Concentrate Storage Tank.
Floor Drain Tanks A & B	FDS	ATM	30,000	Same as Concentrate Storage Tank.
Spent Resin Storage Tank	SWS	50 psig	6,500	Same as Concentrate Storage Tank except differential pressure is less than the maximum allowed by the ASME code.