

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:8402080332 DOC.DATE: 84/01/27 NOTARIZED: YES DOCKET #
 FACIL:STN-50-528 Palo Verde Nuclear Station, Unit 1, Arizona Publi 05000528
 STN-50-529 Palo Verde Nuclear Station, Unit 2, Arizona Publi 05000529
 STN-50-530 Palo Verde Nuclear Station, Unit 3, Arizona Publi 05000530
 AUTH.NAME AUTHOR AFFILIATION
 VAN BRUNT,E.E. Arizona Public Service Co.
 RECIP.NAME RECIPIENT AFFILIATION
 KNIGHTON,G. Licensing Branch 3

SUBJECT: Advises that design of atmospheric dump valve accumulators reevaluated,per NUREG-0857, SER Section 5.4.3, Design meets requirements, Info will be reflected in upcoming amend to FSAR.

DISTRIBUTION CODE: B001S COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 5
 TITLE: Licensing Submittal: PSAR/FSAR Amdts & Related Correspondence

NOTES: Standardized plant. 05000528
 Standardized plant. 05000529
 Standardized plant. 05000530

	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL
	NRR/DL/ADL	1 0	NRR LB3 BC	1 0
	NRR LB3 LA	1 0	LICITRA,E. 01	1 1
INTERNAL:	ELD/HDS3	1 0	IE FILE	1 1
	IE/DEPER/EPB 36	3 3	IE/DEPER/IRB 35	1 1
	IE/DQASIP/QAB21	1 1	NRR/DE/AEAB	1 0
	NRR/DE/CEB 11	1 1	NRR/DE/EHEB	1 1
	NRR/DE/EQB 13	2 2	NRR/DE/GB 28	2 2
	NRR/DE/MEB 18	1 1	NRR/DE/MTEB 17	1 1
	NRR/DE/SAB 24	1 1	NRR/DE/SGEB 25	1 1
	NRR/DHFS/HFEB40	1 1	NRR/DHFS/LQB 32	1 1
	NRR/DHFS/PSRB	1 1	NRR/DL/SSPB	1 0
	NRR/DSI/AEB 26	1 1	NRR/DSI/ASB	1 1
	NRR/DSI/CPB 10	1 1	NRR/DSI/CSB 09	1 1
	NRR/DSI/ICSB 16	1 1	NRR/DSI/METB 12	1 1
	NRR/DSI/PSB 19	1 1	NRR/DSI/RAB 22	1 1
	NRR/DSI/RSB 23	1 1	<u>REG FILE</u> 04	1 1
	RGN5	3 3	RM/DDAMI/MIB	1 0
EXTERNAL:	ACRS 41	6 6	BNL (AMDTs ONLY)	1 1
	DMB/DSS (AMDTs)	1 1	FEMA-REP DIV 39	1 1
	LPDR 03	1 1	NRC PDR 02	1 1
	NSIC 05	1 1	NTIS	1 1

The following information was obtained from the records of the
 Department of the Interior, Bureau of Land Management, at
 Washington, D. C., on the 10th day of March, 1904.
 The land described in the foregoing is situated in the
 State of California, and is more particularly described in
 the accompanying map.

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Arizona Public Service Company

P.O. BOX 21666 • PHOENIX, ARIZONA 85036

January 27, 1984
ANPP-28738 - WFQ/TFQ

Director of Nuclear Reactor Regulation
Attention: Mr. George Knighton, Chief
Licensing Branch No. 3
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Units 1, 2 and 3
Docket Nos. STN-50-528/529/530
File: 84-056-026; G.1.01.10

Reference: (A) NUREG-0857, "Safety Evaluation Report Related to the
Operation" of Palo Verde Nuclear Generating Station
Units 1, 2 and 3, dated November, 1981.
(B) Letter from A. E. Scherer, Combustion Engineering, to
D. G. Eisenhower, U. S. NRC, dated August 12, 1983.
LD-83-074.

Dear Mr. Knighton:

Section 5.4.3 of Reference (A) discusses an APS commitment to reevaluate the acceptability of the sizing of the Seismic Category I nitrogen accumulators for the Atmospheric Dump Valves (ADV), once the CE Natural Circulation Cooldown (NCCD) analysis for the System 80 design is completed.

Reference (B) transmitted the System 80 NCCD analysis. This analysis concluded that under natural circulation cooldown conditions, the ADV nitrogen accumulators should be of sufficient size to allow for 4 hours at hot standby plus 6.5 hours to cooldown to shutdown cooling initiating conditions.

We have reevaluated the design of the ADV accumulators and conclude that they meet the above stated requirement. This will be reflected in an upcoming amendment to the PVNGS Final Safety Analysis Report, as shown on the attached pages.

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Mr. G. W. Knighton
Page 2

Please contact me if you have any questions on this matter.

Very truly yours,

E. E. Van Brunt

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

EEVB/TFQ/sp
Attachment

cc: E. A. Licitra (w/a)
C. Liang "
A. C. Gehr "

January 27, 1984
ANPP-28738 - WFQ/TFQ

STATE OF ARIZONA)
) ss.
COUNTY OF MARICOPA)

I, A. Carter Rogers, represent that I am Nuclear Engineering Manager of Arizona Public Service Company, that the foregoing document has been signed by me for Edwin E. Van Brunt, Jr., Vice President, Nuclear, on behalf of Arizona Public Service Company with full authority so to do, that I have read such document and know its contents, and that to the best of my knowledge and belief, the statements made therein are true.

A. Carter Rogers
A. Carter Rogers

Sworn to before me this 27th day of January, 1984.

Nora E. Meador
Notary Public

My Commission Expires:

My Commission Expires April 6, 1987



MAIN STEAM SUPPLY SYSTEM

- 9| main steam safety valves are included in table 10.3-1. The safety valve pressure accumulation does not exceed 3% and the maximum pressure while relieving is below the maximum allowable of 10% above the steam generator design pressure, in accordance with Article NC-7000 of ASME Section III, Nuclear Power Plant Components Code. The design pressure-temperature rating of the main steam piping is 1270 psia and 575F to match the design conditions for the steam generator secondary side.

10.3.2.2.4 Atmospheric Dump Valves

- Atmospheric dump valves, one per main steam line, are provided to allow cooldown of the steam generators when the main steam isolation valves are closed, or when the main condenser is not available as a heat sink. Each atmospheric dump valve is sized to hold the plant at hot standby while dissipating core decay heat or to allow a flow of sufficient steam to maintain a controlled reactor cooldown rate. No automatic control capability is required or provided. Refer to section 7.4. for discussion of the control of the atmospheric dump valves. A nitrogen accumulator is provided for each valve. The accumulator is designed to Seismic Category I standards and is sized for
- 3| ~~8 hours of valve operation~~ in the event of failure of the normal control air system. Refer to section 9.3.6 for a discussion of the nitrogen supply for the atmospheric dump valve accumulators.

4 hours at hot standby plus 6.5 hours of operation to reach cold shutdown under natural circulation conditions⁽¹⁾

10.3.2.3 Radiological Considerations

Because the steam from the steam generator is not normally radioactive, no radiation shielding is required for the main steam system and associated components. Thus, radiological considerations will not affect access to system components during normal conditions. In the event of a primary-to-secondary system leak caused by a steam generator tube leak, it

10.3.7 REFERENCES

1. Scherer, A.E., Director, Nuclear Licensing,
Combustion Engineering, letter to Eisenhower, D.G.,
Director, Division of Licensing, U.S. N.R.C.,
August 12, 1953 (LD-53-074)

