

REGULATOR INFORMATION DISTRIBUTION ITEM (RIDS)

ACCESSION NBR:8312130214 DOC.DATE: 83/12/02 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 AUTHUR AFFILIATION
 VAN BRUNT,E.E. Arizona Public Service Co.
 RECIP.NAME RECIPIENT AFFILIATION
 KNIGHTON,G. Licensing Branch 3

SUBJECT: Forwards supplemental info to 830414 response to Suppl 1 to
 NUREG-0737, Info reflects clarification to Reg Guide 1.97
 exception. Two ranges of vertical temp difference (delta
 temp) utilized at facilities.

DISTRIBUTION CODE: A003S COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4
 TITLE: OR/Licensing Submittal: Suppl 1 to NUREG-0737(Generic Ltr 82-33)

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 LB3 BC	7 7		
INTERNAL:	IE/DEPER/EPB	3 3	NRR/DHFS/HFEB	5 5
	NRR/DHFS/PSRB	1 1	NRR/DL/ORAB	1 1
	NRR/DL/ORBS	5 5	NRR/DSI/CPB	1 1
	NRR/DSI/ICSB	1 1	NRR/DSI/METB	1 1
	NRR/DSI/RAB	1 1	NRR/DSI/RSB	1 1
	ORBS PAULSON,W	1 1	REG FILES	1 1
	RGNS	1 1		
EXTERNAL:	LPDR	1 1	NRC PDR	1 1
	NSIC	1 1	NTIS	1 1

Arizona Public Service Company

P.O. BOX 21666 • PHOENIX, ARIZONA 85036

December 2, 1983
ANPP-28344 - WFQ/MAJ

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: 83-056-026; G.1.01.10

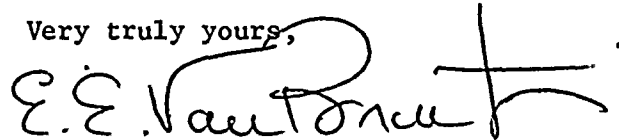
Reference: Letter to G. W. Knighton, NRC, from E. E. Van Brunt, Jr, APS,
(ANPP-23505), dated April 14, 1983, Subject: Response to
Supplement 1 to NUREG-0737

Dear Mr. Knighton:

Attached is supplemental information to the above referenced letter.
This additional information reflects a clarification to an exception to
R.G.1.97 contained in Table 1, Footnote (4). The attached pages (16 and
16-A) supersedes page 16 in Attachment 3 of the referenced letter.

If you have any questions, please call me.

Very truly yours,



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

EEVB/MAJ/sp
Attachment

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


8312130214 831202
PDR ADOCK 05000528
F PDR

A003
11

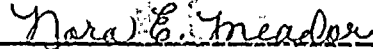
December 2, 1983
ANPP-28344 - WFO/MAJ

STATE OF ARIZONA)
) ss.
COUNTY OF MARICOPA)

I, Edwin E. Van Brunt, Jr., represent that I am Vice President Nuclear Projects of Arizona Public Service Company, that the foregoing document has been signed by me 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.


Edwin E. Van Brunt, Jr.

Sworn to before me this 2nd day of December, 1983.


Notary Public

My Commission expires:

My Commission Expires April 6, 1987



10 21 1964

Table 1

APS RESPONSE TO REGULATORY GUIDE 1.97 REQUIREMENTS

NOTES1. LIST OF ABBREVIATIONS

ASSUR	- Assurance
BATT	- Battery
CEA	- Control Element Assembly
CR	- Control Room
ENVIR	- Environmental
EOF	- Emergency Operations Facility
FP	- Full Power
IN	- Inches
M	- Micro (μ)
MCB	- Main Control Board
PMS	- Plant Monitoring System (Plant Computer)
PPS	- Plant Protection System
QUAL	- Qualification
RCP	- Reactor Coolant Pump
RHR	- Residual Heat Removal
SEIS	- Seismic
S/G	- Steam Generator
TSC	- Technical Support Center

2. FOOTNOTES

- (1) Reg. Guide 1.97, Rev. 2, Category 2 sensors shall be qualified in accordance with Regulatory Guide 1.89 (NUREG-0588). Seismic Qualification in accordance with Regulatory Guide 1.100 shall be provided when the instrumentation is part of a safety related system. (Reference Independent Design Review of the PVNGS Instrumentation and Controls Systems, June 17-18, 1981, pages 2C3-1 through 2C3-28). The components qualified seismic 2 are given in the reference. This complies with the Regulatory Guide.
- (2) Vent flow calculations are performed using the design flow of heating, ventilation, and air conditioning fans versus measured flow.
- (3) Heat removal by containment fan heat removal system indication is accomplished using the containment atmospheric temperature monitors listed with R.G. 1.97.

Table 1

APS RESPONSE TO REGULATORY GUIDE 1.97 REQUIREMENTS

NOTES

- (4) PVNGS utilizes two ranges of vertical temperature difference (delta temperature). One range is -6° to $+6^{\circ}\text{F}$ with the portion from -5° to $+5^{\circ}\text{F}$ being calibrated. The range from, -6° to $+18^{\circ}\text{F}$, is for extended range indication beyond $\pm 6^{\circ}\text{F}$. Thus PVNGS meets the ranges required by R.G.1.23 (normalized for the PVNGS tower height) for the Pasquill Categories indicated that are used for the atmospheric stability class calculations. The PVNGS delta temperature range has also proven to be adequate and reliable; evidenced by historical data at the location.

