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 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: Forwards corrective action w/implementation dates re human factor problems identified during evaluation of equipment outside control room.

DISTRIBUTION CODE: B001S COPIES RECEIVED:LTR 1 ENCL 1 SIZE: 4
 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
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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/EOB 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
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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	REG FILE 04	1 1
RGNS	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

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Arizona Public Service Company

May 4, 1984
ANPP-29422 - JWR/GAS

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

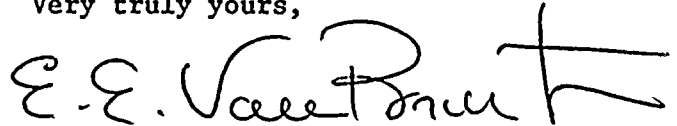
Reference: (A) APS Letter from E. E. Van Brunt, Jr., APS, to George Knighton, NRC, dated June 17, 1983.

Dear Mr. Knighton:

In Reference (A), Attachment (D), Arizona Public Service Company (APS) committed to evaluate the equipment provided outside the control room. The intent of this review was to evaluate equipment with respect to the requirements of 10CFR 50, General Design Criteria 19 which are to: (1) achieve prompt hot shutdown of the reactor, (2) maintain the unit in a safe condition during hot shutdown, and (3) achieve cold shutdown of the reactor through the use of suitable procedures. The objective of this evaluation was to identify and correct human factor items using the plan outlined in Reference (A), Attachment D.

With Attachment A of this letter, APS is submitting the corrective actions with their implementation dates, of those human factors problems which were identified during the equipment evaluation.

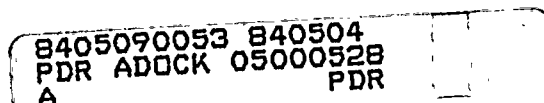
Very truly yours,



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

EEVB/GAS:dm
Attachments

cc: A. C. Gehr (w/a)
E. Licitra (w/a)
A. Ramey-Smith (w/a)
D. Tondi (w/a)

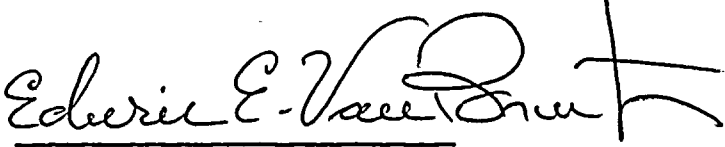


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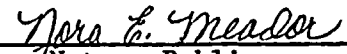


STATE OF ARIZONA)
) ss.
COUNTY OF MARICOPA)

I, Edwin E. Van Brunt, Jr., represent that I am Vice President, Nuclear of Arizona Public Service Company, that the foregoing document has been signed by me on behalf of Arizona Public Service Company with full authority to do so, 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 4th day of May, 1984.


Notary Public

My Commission Expires:

My Commission Expires April 6, 1987


$$E^{\circ} = 1.07 \text{ V} \quad \text{at } 25^{\circ}\text{C}$$

X

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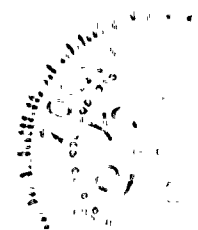
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CATEGORY A

Implementation: Prior to exceeding 5% power.

1. APS will remove the doors off equipment cabinets ZJB/D-E01, ZJA/C-E01, ZJB-E02 and JZN-E01. (151)
2. APS will provide an appropriate surface suitable for writing in equipment area. (151)
3. APS will provide instrument nameplates on the equipment panels that match the Main Control Boards (MCB) instrument nameplates for color and nomenclature. (152)
4. APS will provide an audible alarm to be annunciated during Steam Generator (S/G) Pressure Low Reset and Pressurizer Low Pressure Reset visual indications. (154)
5. APS will provide a step of suitable construction to be used by the operators in viewing indicators which are located high on equipment panels ZJB/D-E01 and ZJA/C-E01 and ZJN-E01. (158)
6. APS will provide additional communications equipment in equipment area. Communications equipment will consist of (1) two radios/consoles, (2) one five-line telephone, and (3) one sound powered telephone jack. (161)
7. APS will engrave the lenses on the indicating lights with required functions. (163)
8. APS will modify the essential lighting wiring, to connect one room's lighting to the "A" Train essential power supply and the other room to the "B" Train. (164)
9. APS is changing the labeling on the Atmospheric Dump Valves (ADV's) controller switches on equipment panel ZJA/C-B01 and ZJB/D-E01 from "Auto-Man to CR-Local". (165)
10. APS will add annunciation in the Main Control Room to indicate when the Atmospheric Dump Valve controllers are in the manual/local control mode on equipment panels ZJB/D-E01 and ZJA/C-E01. (166)
11. APS will add permanent lighting by equipment ZJB/D-E01 and ZJB-E02. (164)
12. APS will change procedure 41A0-1ZZ27 in order to prevent exceeding the maximum shutdown cooling warm-up rate. (169)

CATEGORY B

Implementation: Prior to or at First Refueling

1. APS will review instrumentation and controls on the equipment in order to achieve functional grouping of instrumentation and controls by the use of mimics or demarcation. (153)(160)

