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ACCESSION NBR: 8512090195 DDC. DATE: 85/12/05 NOTARIZED: NO DOCKET #
 FACIL: STN-50-529 Palo Verde Nuclear Station, Unit 2, Arizona Publi 05000529
 AUTH. NAME AUTHOR AFFILIATION
 VAN BRUNT, E. E. Arizona Nuclear Power Project (formerly Arizona Public Serv
 RECIP. NAME RECIPIENT AFFILIATION
 KNIGHTON, G. W. PWR Project Directorate 7

SUBJECT: Forwards revised commitments to address adl. NRC concerns re
 charging pump operability. Engineering evaluation will
 schedules for procurement & installation of long-term
 solutions.

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 TITLE: Licensing Submittal: PSAR/FSAR Amdts & Related Correspondence

NOTES: Standardized plant.

05000529

	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL		RECIPIENT ID CODE/NAME	COPIES LTTR ENCL
	PWR-B ADTS	1 0		PWR-B PD7 PD	1 0
	PWR-B PD7 LA	1 0		LICITRA, E 01	1 1
INTERNAL:	ACRS 41	6 6		ADM/LFMB	1 0
	ELD/HDS3	1 0		IE FILE	1 1
	IE/DEPER/EPB 36	1 1		IE/DGAVT/QAB21	1 1
	NRR BWR ADTS	1 1		NRR PWR-A ADTS	1 1
	NRR PWR-B ADTS	1 1		NRR ROE, M. L	1 1
	NRR/DHFT/HFIB	1 1		NRR/DHFT/MTB	1 1
	NRR/DSRO/DIR	1 1		NRR/DSRO/RRAB	1 1
	<u>REG FILE</u> 04	1 1		RONS	3 3
	RM/DDAMI/MIB	1 0			
EXTERNAL:	24X	1 1		BNL (AMDTs ONLY)	1 1
	DMB/DSS (AMDTs)	1 1		LPDR 03	1 1
	NRC PDR 02	1 1		NSIC 05	1 1
	PNL GRUEL, R	1 1			



Arizona Nuclear Power Project

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December 5, 1985
ANPP-34174-EEVB/MAJ

Director of Nuclear Reactor Regulation
Attention: Mr. George W. Knighton, Project Director
PWR Project Directorate #7
Division of Pressurized Water Reactor Licensing - B
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Palo Verde Nuclear Generating Station
Unit 2
Docket No. STN-50-529
Charging Pump Operability
File: 85-056-026; G.1.01.10

- Reference: (A) Letter from E. E. Van Brunt, Jr., ANPP, to G. W. Knighton, NRC, dated December 4, 1985 (ANPP-34166); Subject: Charging Pump Operability.
(B) Letter from E. E. Van Brunt, Jr., ANPP, to G. W. Knighton, NRC, dated November 29, 1985 (ANPP-34127); Subject: Charging Pump Operability.
(C) Telecon between G. W. Knighton, NRC, and W. F. Quinn, ANPP, dated December 5, 1985; Subject: Charging Pump Operability Commitments Made in Reference (A) for PVNGS Unit 2.

Dear Mr. Knighton:

Reference (A) submitted ANPP commitments to close out the staff's Unit 2 licensing concerns related to the assurance of operability of the PVNGS Unit 2 charging pumps. The Reference (A) commitments were subsequently discussed in the Reference (C) telecon. Per the staff's request in the above telecon, we are revising the previously submitted commitments in the Reference (A) letter to address additional concerns of the staff. This letter supercedes Reference (A).

Please contact Mr. W.F. Quinn, of my staff, if you have any questions.

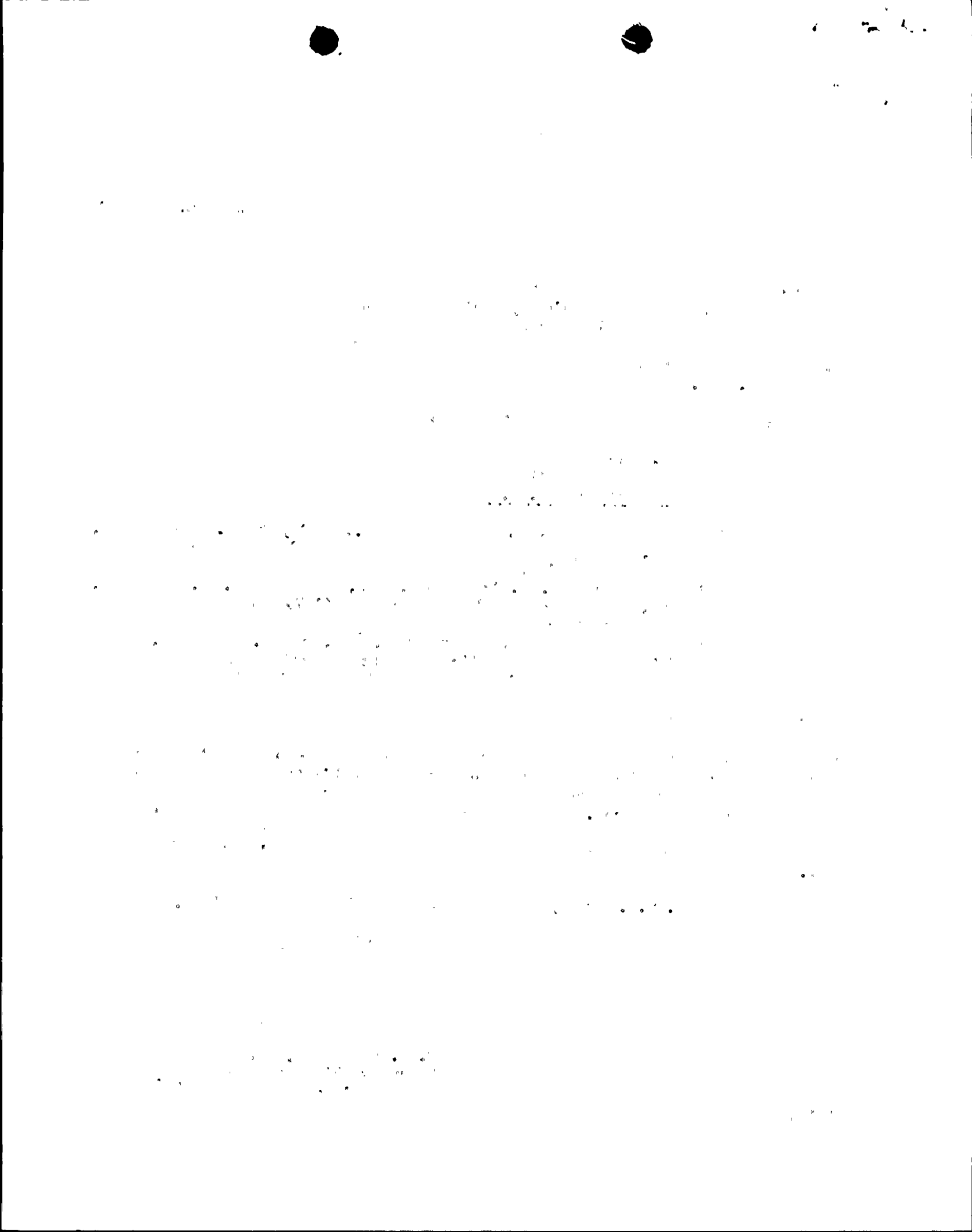
Very truly yours,

E. E. Van Brunt, Jr.
Executive Vice President
Project Director

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PDR ADOCK 05000529
A PDR

EEVB/MAJ/dlm
Attachment

✓ 3001
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Mr. G. W. Knighton
Docket No. STN-50-529
Charging Pump Operability
ANPP-34174
Page Two

cc: R. P. Zimmerman
E. A. Licitra
M. Ley
A. C. Gehr
F. J. Miraglia



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ATTACHMENT

- A. As discussed in Reference (B), we do not believe it is necessary to declare a charging pump inoperable based solely on the indication of a cracked block. However, to address the concern of the potential adverse effects of gas binding of a charging pump with a thru-wall cracked block, we will declare the charging pump inoperable within 72 hours of the apparent thru-wall crack discovery. This period of time will allow a thorough examination of the affected charging pump to verify a thru-wall crack does exist or allow the restoration of an inoperable charging pump, if necessary, to meet the Technical Specification requirements. If, at the end of this 72 hour period, the discovered crack has been confirmed to be a thru-wall crack, and less than the required number of charging pumps are operable, Unit 2 will follow the action statement of Technical Specification 3.1.2.3 or 3.1.2.4, depending upon the plant mode. This condition will be effective starting with initial criticality, and remain in effect until the evaluation of the effect of gas binding an operating charging pump which has a pre-existing block crack, committed to in Reference (B) (Item E of the Attachment), has been satisfactorily resolved with the NRC.
- B. As discussed in Reference (B) we do not believe it is necessary to perform a non-destructive examination (NDE) of the charging pumps on Unit 2. However, to collect baseline data, we will perform an external surface examination on the Unit 2 charging pumps utilizing the appropriate NDE technique. This examination will be completed prior to Unit 2 initially exceeding 5% power.
- C. The interim operation of the charging system requires procedures for venting of hydrogen from a charging pump(s) which has become gas bound. The hydrogen will not be vented into the charging pump cubicle, so that it will not pose a hazard to the operators performing the venting, nor will it result in an uncontrolled or unmonitored radioactive release. Procedures will be submitted for staff approval and a demonstration of the venting procedure will be performed prior to Unit 2 initial criticality.

While the proposed enhancements to the VCT level indicator and outlet valve of the VCT lessen the likelihood of the charging pumps becoming gas bound, a long-term solution to reduce this potential hazard to the pumps will be considered to achieve an appropriate level of system reliability. The long-term solution will be established by an engineering evaluation considering alternative hardware changes necessary to eliminate the need for venting hydrogen from the suction of the charging pumps. The engineering evaluation will include the schedules for procurement and installation of the selected solution. The evaluation and schedules for implementation will be submitted for staff approval by June 30, 1986.

