

ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8902220288 DOC. DATE: 89/02/01 NOTARIZED: NO 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
 KARNER, D.B. Arizona Nuclear Power Project (formerly Arizona Public Serv
 RECIP. NAME RECIPIENT AFFILIATION
 Document Control Branch (Document Control Desk)

SUBJECT: Forwards change to QA program description re requirements
 for meteorological tower equipment.

DISTRIBUTION CODE: A001D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 7
 TITLE: OR Submittal: General Distribution

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

RECIPIENT ID CODE/NAME	COPIES LTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTR ENCL
PD5 LA	1 0	PD5 PD	2 2
CHAN, T	1 1	DAVIS, M	1 1
DAVIS, M.J.	1 1		
INTERNAL: ACRS	6 6	ARM/DAF/LFMB	1 0
NRR/DEST/ADS 7E	1 1	NRR/DEST/CEB 8H	1 1
NRR/DEST/ESB 8D	1 1	NRR/DEST/MTB 9H	1 1
NRR/DEST/RSB 8E	1 1	NRR/DEST/SICB	1 1
NRR/DOEA/TSB 11	1 1	<u>NUDOCS-ABSTRACT</u>	1 1
OGC/HDS1	1 0	<u>REG-FILE</u> 01	1 1
RES/DSIR/EIB	1 1		
EXTERNAL: LPDR	1 1	NRC PDR	1 1
NSIC	1 1		

NOTES: 1 1

Add: NRR / DLPQ / QAB Ltr Encl
 1 1

NOTE TO ALL "RIDS" RECIPIENTS:

PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK,
 ROOM P1-37 (EXT. 20079) TO ELIMINATE YOUR NAME FROM DISTRIBUTION
 LISTS FOR DOCUMENTS YOU DON'T NEED!

TOTAL NUMBER OF COPIES REQUIRED: LTR 29 ENCL 26
 28 25



Arizona Nuclear Power Project

P.O. BOX 52034 • PHOENIX, ARIZONA 85072-2034

161-01668-DBK/BJA
February 1, 1989

Docket Nos. STN 50-528/529/530

Document Control Desk
U.S. Nuclear Regulatory Commission
Mail Station P1-137
Washington, D.C. 20555

Dear Sirs:

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Units 1, 2 and 3
Quality Requirements for Meteorological Tower Equipment
File: 89-A-056-026; 89-A-005-419.05

The purpose of this letter is to transmit a change to the quality assurance program description contained in the Safety Analysis Report for Palo Verde. This change may reduce the previous quality assurance commitments for the meteorological tower equipment. Therefore, this change is being submitted in accordance with the requirements of 10CFR50.54(a)(3). The information requested by 10CFR50.54(a)(3) is provided in the following paragraphs.

The proposed change clarifies the quality assurance requirements for the meteorological tower equipment. The present Updated Safety Analysis Report (USAR) states that the activities of administration, control, operation, maintenance, and inspection of the meteorological tower equipment are subject to the pertinent requirements of the quality assurance program. However, this commitment exceeds the current regulatory requirements. In Revision 2 of Regulatory Guide 1.97, the meteorological instrumentation is classified as a Category 3 variable. Category 3 instruments are only required to be "high-quality commercial grade". ANPP proposes to maintain the commitment to conduct system calibration in accordance with the pertinent requirements of the operational quality assurance program. Other activities related to the meteorological equipment will no longer be subject to quality assurance requirements.

The affected pages of the Palo Verde USAR are attached. ANPP believes that the proposed changes are in conformance with the applicable regulatory guidance. In accordance with the requirements of 10CFR170.12(c), an application fee of \$150.00 is attached. Should you have any questions concerning this matter, please contact Mr. A. C. Rogers at (602) 371-4041.

Very truly yours,

D. B. Karner
Executive Vice President

8902220288 890201
PDR ADOCK 05000528
P PDC

DBK/BJA/pvk
Attachment

1001 Add: NRR/DLPR/OAB 4r Encl

Document Control Desk
Page 2

161-01668-DBK/BJA
February 1, 1989

cc: G. W. Knighton (all w/a)
T. L. Chan
J. B. Martin
T. J. Polich
A. C. Gehr

ATTACHMENT

USAR CHANGE PAGES

METEOROLOGY

Strip chart data, when used, were manually reduced. One 15-minute sample of strip data is used for each 1-hour data period available. Average values of wind direction, wind speed, ambient temperature, temperature differential, and dewpoint are obtained by visually estimating a mean for the 15-minute sample of the analog traces. The precipitation trace cumulatively records precipitation amounts and resets each quarter hour.

2.3.3.3 Quality Assurance Procedures

The meteorological data collection program at PVNGS is subject to detailed APS and NUS Corporation quality assurance and quality control procedures.

The procedures involve daily examinations by a meteorologist of the digitally reduced data, routine comparisons of the digital data with analog reduced data, redundant data storage to mitigate data losses, detailed records keeping (data corrections, calculations, etc.), site specific work plans, and internal audits.

~~Calibrations and maintenance~~ of the meteorological system are subject to the APS quality assurance program.

2.3.3.4 Meteorological Data Recovery

The meteorological data recovery rates for the PVNGS meteorological program (August 13, 1973 to August 13, 1978) are listed in table 2.3-29.

The data recovery for wind data at the 35-foot level and 200-foot level was 97% and 94%, respectively, for the report period. Data recovery of the dewpoint temperature was 94%. The data recovery for $\Delta T_{200'-35'}$ was 94%.

Most of the data losses on the system are due to sensor malfunctions and calibrations. Other than sensor problems, periods of data loss on the digital system are due primarily

Table 3.2-1

QUALITY CLASSIFICATION OF STRUCTURES, SYSTEMS, AND COMPONENTS (Sheet 33 of 40)

Principal Components	Location	Principal Construction Codes and Standards	Seismic Category	PVNGS Quality Assurance Class	Regulatory Guide 1.26 Quality Group Classification	ANSI Std. Safety Class.
Plant vent	TG	B31.1	na	na(aa)	D	na
Radiowaste bldg vent. exhaust filter inlet	RW	B31.1	na	na(aa)	D	na
Waste gas system area comb. vent. exh.	RW	B31.1	na	na(aa)	D	na
Operating level area	C, AB	na	na	na(aa)	na	na
Incore inst. area	C, AB	na	na	na(aa)	na	na
Control room area	CB	na	na	na(aa)	na	na
New fuel area	FB	na	na	na(aa)	na	na
Solid waste process station area	RW	na	na	na(aa)	na	na
Solid waste storage area	RW	na	na	na(aa)	na	na
Loading bay area	RW	na	na	na(aa)	na	na
Radiochem lab area	AB	na	na	na(aa)	na	na
Central calibration facility area	OU	na	na	na(aa)	na	na
Central machine shop area	RW	na	na	na(aa)	na	na
Sample room area	AB	na	na	na(aa)	na	na
Waste solidification system process control area	RW	na	na	na(aa)	na	na
Portable area	All	na	na	na(aa)	na	na
Movable airborne	All	B31.1	na	na(aa)	D	na
Portable/movable monitor connection boxes	All	na	na	na(aa)	na	na
29. Accident-related meteorological data collection equipment	OU	na	na	na(aa)	na	na

NOTES

1. Location

AB = Auxiliary building

CB = Control building

C = Containment building

FB = Fuel building

DG = Diesel generator building

OU = Outside

(ii)

PVNGS UPDATED FSAR

CLASSIFICATION OF STRUCTURES,
COMPONENTS, AND SYSTEMS

Table 3.2-1

QUALITY CLASSIFICATION OF STRUCTURES, SYSTEMS, AND COMPONENTS (Sheet 39 of 40)

7. Letter in parentheses (continued)

PRINCIPAL COMPONENTS

REGULATORY GUIDE 1.26
QUALITY GROUP CLASSIFICATION

Radiation Monitoring System

Monitors:	
Control room ventilation intake	na
Fuel pool area	na
Fuel building ventilation exhaust	na
Refueling machine area	na
Containment building purge exhaust	na
Containment building atmosphere	na
Post-accident purge area	na
Auxiliary building vent exhaust	na
filter inlet	
Auxiliary building lower level	na
ventilation exhaust	
Auxiliary building upper level	na
ventilation exhaust	

(gg) All design, fabrication, materials, examination, inspection, and construction of the equipment hatch and its attachments shall comply with the requirements of ASME Section III, Division 1, Subsection NE. An ASME code stamp is not required.

(hh) The new fuel racks are designed to store new fuel in a noncritical array in accordance with Regulatory Guide 1.13. To fulfill this function they are required only to exhibit no permanent deformation following a seismic event. A QA program modified from the requirements of 10CFR50, Appendix B, is, therefore, acceptable. The design, specific components, and fabrication processes necessary for the structural integrity of the fuel racks provide that they will withstand the effects of a safe shutdown earthquake and remain functional per Regulatory Guide 1.29.

8. Expendable and Consumable Items

Expendable and consumable items necessary for the functional performance of safety-related structures, systems, and components are classified as safety-related items, and as such are subject to the pertinent requirements of the operational quality assurance program.

9. Radiation Protection Equipment

Radiation protection and chemistry equipment and services, limited to calibration standards procured for subsequent calibration of radiation protection and chemistry equipment and outside services procured to provide calibration of radiation protection and chemistry equipment, are subject to applicable requirements of the operational phase quality assurance program. Additionally, paragraphs 12.5.2.1.1, 12.5.2.1.2, and 12.5.2.1.3 are not subject to applicable requirements of the operational quality assurance program. This note does not supercede any of the requirements for radiation protection and chemistry systems and components which are contained in the body of table 3.2-1.

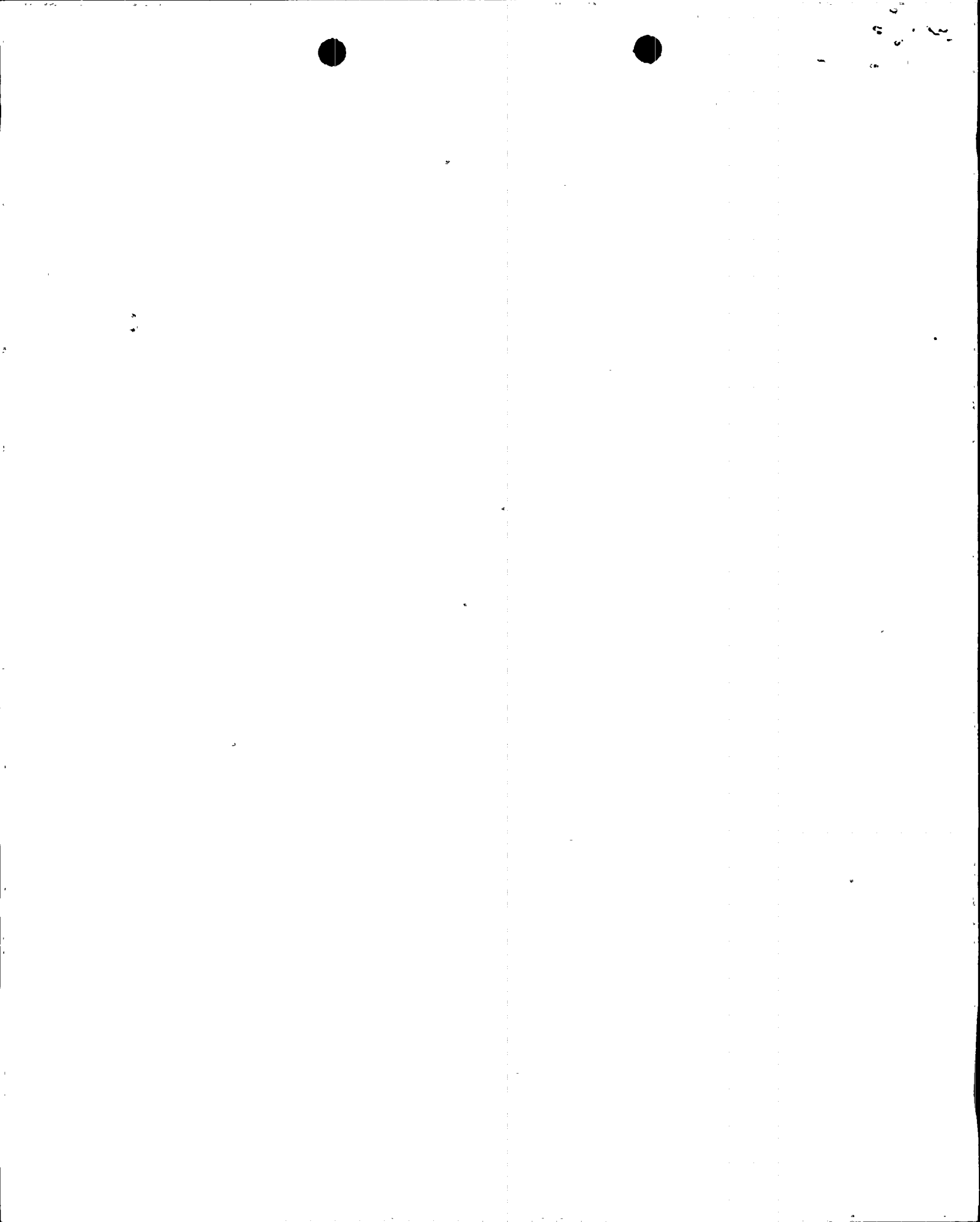
INSERT

Footnote (ii)

3.2-41

PVNGS UPDATED FSAR

CLASSIFICATION OF STRUCTURES,
COMPONENTS, AND SYSTEMS



FOOTNOTE (ii)

Meteorological system calibration is considered to be a quality-related activity and is subject to the pertinent requirements of the operational quality assurance program. The meteorological equipment is classified as not quality-related. This is in accordance with the Regulatory Guide 1.97, Rev. 2 requirements which require that Category 3 instrumentation be "high quality commercial grade". Regulatory Guide 1.97 does not impose any quality assurance program controls on Category 3 instrumentation.

