

Name Craig K. Seaman Title Director Department Emergency Services Division Tel. 623-393-2099 Fax 623-393-1414 e-mail Z98956@apsc.com Mail Station 7002 PO Box 52034 Phoenix, Arizona 85072-2034

090-04925-CKS/lgl June 8, 2000

U. S. Nuclear Regulatory Commission ATTN: Document Control Desk Mail Station P1-37 Washington, DC 20555-0001

Dear Sirs:

Reference: APS letter no. 094-01319-EEL/LL, from C. K. Seaman to U.S. Nuclear

Regulatory Commission, dated April 11, 2000, subject: transmittal of revised

PVNGS Emergency Plan Implementing Procedures (EPIP).

Subject:

Palo Verde Nuclear Generating Station (PVNGS)

Units 1, 2, and 3

Docket Nos. STN 50-528/529/530

Emergency Plan Implementing Procedure Update

Attached are the updates to the PVNGS Emergency Plan Implementing Procedures. This update is being submitted to supplement a previous submittal (Reference) which was discovered to be missing two pages.

Specifically, the referenced submittal did not include page 212 of 433 of EPIP-02 or page 355 of 446 of EPIP-04. This omission was the result of an administrative error. The missing pages are contained in the enclosure to this letter and can be inserted in the previously provided Emergency Plan Implementing Procedures without additional modification. APS apologizes for any inconvenience this omission may have caused.

In accordance with 10 CFR 50.4(b)(5)(iii), two copies of this update are being forwarded to the Regional Administrator, Region IV, and one copy is being provided to the PVNGS Senior Resident Inspector. The implementation date of this update was March 31, 2000 for EPIP-04 and April 6, 2000 for EPIP-02.

If you have questions regarding this submittal, please contact me at (623) 393-2099.

Sincerely.

Craig K. Seaman

Director

Emergency Services

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MRR-037

U. S. Nuclear Regulatory Commission ATTN: Document Control Desk Emergency Plan Implementing Procedure Update Page 2

CKS/lgI

Enclosure

cc: E. W. Merschoff

(w/Enclosure - 2 copies)

M. B. Fields

(w/o Enclosure)

J. H. Moorman

(w/Enclosure)

ENCLOSURE PVNGS EMERGENCY PLAN IMPLEMENTING PROCEDURES

TITLE	NUMBER	REVISION	PAGE NUMBER
Operations Support Center Actions	EPIP-02	17	212 of 433
Emergency Operations Facility Actions	EPIP-04	23	355 of 446

NUC	LEAR AD	MIN	ISTRATIVE AND TECHNICAL M	ANUAL	Page 212	of 433		
OPERATIONS SUPPORT CENTER ACTIONS			El	PIP-02	Revision 17			
				Appen	dix L Page 3	4 of 44		
	5.7.2	.4	Calculate the total lodine concentration to	oy summing	the isotopic			
	5.7.2	5	Proceed to section 6.0, Sample Analysis	ection 6.0, Sample Analysis Follow-up.				
	5.7.3	5.7.3 If dose rates are less than or equal to 0.8 REM / hour, perform the following actions:						
	5.7.3	1.1	Using six 1-inch attenuator blocks initially, carefully and quickly place the sample filter head assembly in the lead shield in the sample holder rack at the highest elevation centered directly over the appropriate attenuator block. Remove blocks as necessary.					
	5.7.3.2 Perform sample analysis in accordance with 74CH-9XC50, Opera Calibration of the Gamma Spectrometry System. Multiply the sam volume by 0.04 Iodine plate-out correction factor.							
5.7.3.3 Remove the sample from the lead shield and place the sample in a lead cask / pig					carefully using	g tongs		
5.7.3.4 Proceed to section 6.0, Sample Analysis Follow-up.								
6.0	Sample a	analys	is follow-up					
	6.1 Control of Analyzed Samples							
		Form EP-0514, Containment Radiochemistry CDA (Parts 1-11 - see Appendix C - Forms) can be used to facilitate transmittal of data to the Technical Support Center.						
	,	port ar alysis.	nalytical results to the Chemistry Coordinat	or upon com	npletion of sam	ple		

NUCLEAR ADMINISTRATIVE AND TECHNICAL MANUAL Page 355 of 446 EMERGENCY OPERATIONS FACILITY ACTIONS EPIP-04 Appendix Q Page 94 of 146

1.5.63 3-17 (page 6 of 7)

TECHNICAL BASIS (continued...):

A "depleted c/Q" could be used for the lodine isotopes; the resulting reduction in external EDE would be small.

In MESOREM Jr. Mode-A dose projections, CEDE is from inhalation only and external EDE is from immersion only; that is, CEDE from ingestion is calculated only in Mode-B, and external EDE from deposition is used only in PAG calculations and not EAL calculations. Particulate source term is also reserved for Mode-B projections. Therefore, for purposes of Initial Phase EALs:

TEDE = CEDE_{inhalation} + External EDE

- = 1.5E-01 + 4.7E-01
- = 6.2E-01 rem/hour

Conclusion 1:

Based on a Plant Vent concentration (noble gas) of $2.2 \,\mu$ Ci/cc or a Fuel Building Vent concentration of 19.6 μ Ci/cc, the TEDE PAG is not reached for the postulated accident type.

The thyroid CDE will now be calculated for a Plant Vent concentration (noble gas) of 2.2 µCi/cc to show whether this proposed EAL value reaches or exceeds the thyroid CDE PAG.

 $CDE = \hat{A}_{l=1 \text{ to } p} (DCF)_i (c/Q) (Release Rate)_i (Unit Conversion)$

where:

 DCF_i = Dose Conversion Factor from EPA-400, Tables 5-2 and 5-4, for nuclide "i", in remcc per μ Ci-hour

c/Q = 8.91E-06 seconds/meter³, as discussed previously

(Release Rate); is as calculated above, in Ci/second

(Unit Conversion) = 1 μCi/cc per Ci/m³

Nuclide DCF_ic/Q Release Rate Thyroid CDE_i

 I-131
 1.3E+06
 8.91E-06
 3.0E-01
 3.5E+00

 I-132
 7.7E+03
 8.91E-06
 3.0E-01
 2.0E-02

 I-133
 2.2E+05
 8.91E-06
 6.1E-01
 1.2E+00

 I-134
 1.3E+03
 8.91E-06
 6.6E-01
 7.6E-03

 I-135
 3.8E+04
 8.91E-06
 5.6E-01
 1.9E-01

Thyroid CDE = 4.9 rem/hour