



Palo Verde Nuclear  
Generating Station

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102-06373-TNW/RKR  
June 29, 2011

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

Dear Sirs:

**Subject: Palo Verde Nuclear Generating Station (PVNGS)  
Units 1, 2, & 3 and Independent Spent Fuel Storage Installation (ISFSI)  
Docket Nos. STN 50-528/529/530 and 72-44  
10 CFR 50.59, 10 CFR 72.48, and Commitment Change Reports  
(January 2010 – December 2010)**

Enclosed please find the Arizona Public Service Company (APS) 10 CFR 50.59 Report for the period of January 1, 2010, through December 31, 2010.


In accordance with 10 CFR 50.59(d)(2), APS is providing a brief description of each change and a summary of the evaluation required by 10 CFR 50.59(d)(1) for each change. This report contains all evaluations written during 2010, regardless of the implementation status of the evaluated action, and is included as an enclosure to this letter.

In accordance with 10 CFR 72.48(d)(2), APS is reporting that there were no changes completed during the period that were required to be reported pursuant to 10 CFR 72.48.

In accordance with commitment management program requirements, APS is reporting that no commitment changes have been made for the period that were not previously submitted to the NRC.

No new commitments are being made to the NRC by this letter. Should you need further information regarding this submittal, please contact Russell A. Stroud, Licensing Section Leader, at (623) 393-5111.

Sincerely,

 FOR T.N. WEBER

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Annual 10 CFR 50.59, 10 CFR 72.48, and Commitment Change Report  
(January 2010– December 2010)  
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Enclosure

Acronym/Abbreviation List, 10 CFR 50.59 Report

cc: E. E. Collins Jr. NRC Region IV Regional Administrator  
L. K. Gibson NRC NRR Project Manager for PVNGS  
J. R. Hall NRC NRR Senior Project Manager  
M. A. Brown NRC Senior Resident Inspector for PVNGS  
V. L. Ordaz Director, Division of Spent Fuel Storage and Transportation

**ENCLOSURE**

**PALO VERDE NUCLEAR GENERATING STATION**

**ACRONYM/ABBREVIATION LIST, and**

**10 CFR 50.59 Report**

**January 2010 - December 2010**

## **ACRONYM/ABBREVIATION LIST**

**(Acronyms included in calculation or document numbers are not included in this list)**

DFWO	Deficiency Work Order
DMWO	Design Modification Work Order
LDCR	Licensing Document Change Request
MWt	Megawatt-thermal
PUR	Power Uprate
PVNGS	Palo Verde Nuclear Generating Station
RSG	Replacement Steam Generator
SDOC	Supplier Document
UFSAR	Updated Final Safety Analysis Report

## 10 CFR 50.59 Report (January 2010 through December 2010)

Log	Doc Type	Doc Number	Description	Summary
E-08-0017 Rev. 1	LDCR	08-F051	Revised the UFSAR for the insertion of eight AREVA lead test assemblies in Palo Verde Unit 1 cycle 16 core.	This change does not require prior NRC approval in accordance with 10 CFR 50.59(c)(1).
E-09-000 Rev. 2, 3, and 4	DMWO	3095435	Simplified Head Assembly (SHA) for Palo Verde Units. The SHA was installed with the Replacement Reactor Vessel Closure Head.	This change does not require prior NRC approval in accordance with 10 CFR 50.59(c)(1).
E-09-0008 Rev. 2,3,4, and 5	DMWO	2992340	Replacement Reactor Vessel Closure Head for Palo Verde Units 1,2 and 3	This change does not require prior NRC approval in accordance with 10 CFR 50.59(c)(1).
E-09-0014 Rev. 1	LDCR	08-F049	Updates UFSAR section 11.2 to reflect the current operation of the liquid radwaste system (LRS) as described in the associated LRS operating procedures and design drawings	This change does not require prior NRC approval in accordance with 10 CFR 50.59(c)(1).
E-10-0001 Rev.0 and 1	ANALYSIS	TA-02-C00-2004-010 Rev. 1	Revised the Steam Generator Tube Rupture with and without Loss Of Offsite Power – Supplementary Analysis for PVNGS 3990 MWt - RSG/PUR Configuration analysis. Also changed UFSAR section 15.6.3.1 based on the analysis changes.	This change does not require prior NRC approval in accordance with 10 CFR 50.59(c)(1).
	LDCR	2010-F009		
E-10-0002 Rev.0	CALCULATION	LOCV-TA	New Palo Verde calculation for the loss of condenser vacuum analysis of record (LOCV-TA). The new calculation replaces the Westinghouse calculation for this event. The UFSAR section 15.2 was also revised for the new bounding analysis.	This change does not require prior NRC approval in accordance with 10 CFR 50.59(c)(1).
	LDCR	2009-F080		
E-10-0003 Rev. 0 and 1	CALCULATION	13-MC-CH-0208 Rev. 0	Calculation revises the charging system hydraulic analysis.	This change does not require prior NRC approval in accordance with 10 CFR 50.59(c)(1).
E-10-0005 Rev. 0 and 1	DFWO	3292278	Replaces the degraded oil impingement cleaner for the Unit 2 auxiliary building normal air handling unit with dry filter media.	This change does not require prior NRC approval in accordance with 10 CFR 50.59(c)(1).
E-10-0006 Rev. 0	SDOC	13-N001-1900-01418 Rev. 2	Revised the calculation for the inadvertent deboration analysis of record. Also updated UFSAR section 15.4.6.	This change does not require prior NRC approval in accordance with 10 CFR 50.59(c)(1).
	LDCR	2010-F026		

## 10 CFR 50.59 Report (January 2010 through December 2010)

Log	Doc Type	Doc Number	Description	Summary
E-10-0007 Rev. 0	LDCR	10-F047	Revised the UFSAR for the insertion of eight Westinghouse lead use assemblies in the Palo Verde Unit 3 cycle 16 core.	This change does not require prior NRC approval in accordance with 10 CFR 50.59(c)(1).
E-10-0008 Rev. 0	DMWO	2641860	Upgraded the control element drive mechanism control system by replacing the existing digital control element assembly timer cards with new digital automatic control element drive mechanism timer module cards and related equipment.	This change does not require prior NRC approval in accordance with 10 CFR 50.59(c)(1).
E-10-0009 Rev. 0	CALCULATION	13-MC-PC-0215 Rev. 4  13-MC-PC-0217 Rev. 5  13-NC-RC-0200 Rev. 10	Revised calculations to address spent fuel pool vortexing issues during certain pump combinations, correct spent fuel pool temperature for refueling operations, and determine maximum fuel assembly offload rate.	This change does not require prior NRC approval in accordance with 10 CFR 50.59(c)(1).
E-10-0010 Rev. 0	ENGINEERING STUDY	03-MS-C01 Rev. 0	Evaluates lowering the maximum normal operating temperature of the Unit 3 spent fuel pool from 125 °F to 122 °F to allow increasing the administrative limit for decay heat load for mode 4 entry during Unit 3 refueling 15.	This change does not require prior NRC approval in accordance with 10 CFR 50.59(c)(1).
E-10-0011 Rev. 0	DMWO  LDCR	3449152  2010-F054	Installation of a pneumatic cross-tie between the service air and the instrument air systems inside the containment building. Installation of a service air piping main line bypass with an air dryer in the auxiliary building. Also updated the UFSAR to address these changes	This change does not require prior NRC approval in accordance with 10 CFR 50.59(c)(1).