



A subsidiary of Pinnacle West Capital Corporation

Palo Verde Nuclear
Generating Station

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

Dear Sirs:

**Subject: Palo Verde Nuclear Generating Station (PVNGS)
Units 1, 2, and 3
Docket Nos. STN 50-528/529/530
2010 Annual Environmental Operating Report**

Enclosed please find the 2010 Annual Environmental Operating Report for PVNGS Units 1, 2, and 3. Arizona Public Service Company is submitting this report pursuant to Section 5.4.1 of Appendix B to the PVNGS Units 1, 2, and 3 Renewed Operating License Nos. NPF-41, NPF-51, and NPF-74, respectively.

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

Sincerely,

TNW/RAS/RKR/gat

Enclosure

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
	A. V. Godwin	Arizona Radiation Regulatory Agency (ARRA)
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ENCLOSURE

Palo Verde Nuclear Generating Station

Units 1, 2, and 3

2010 Annual Environmental Operating Report

I. INTRODUCTION

The Palo Verde Nuclear Generating Station (PVNGS) is located in Maricopa County, Arizona, approximately 50 miles west of the Phoenix metropolitan area. The PVNGS site comprises approximately 4280 acres. Site elevations range from 890 feet above mean sea level at the southern boundary to 1030 feet above mean sea level at the northern boundary. The station consists of three pressurized water reactor electrical generating units. Units 1, 2 and 3 each have a rated thermal power of 3990 MW.

The Units 1, 2, and 3 Renewed Operating Licenses NPF-41, NPF-51, and NPF-74, respectively, were issued on April 21, 2011. Appendix B to these operating licenses is entitled the "Environmental Protection Plan (Non Radiological)." The Environmental Protection Plans (EPP) for each of the current operating licenses are identical and are unchanged by the renewed license.

The EPP purpose is to provide for protection of environmental values during construction and operation of the nuclear facility. The principal objectives of the EPP are as follows:

- (1) Verify that the station is operated in an environmentally acceptable manner, as established by the FES (Final Environmental Statement) and other Nuclear Regulatory Commission (NRC) environmental impact assessments.
- (2) Coordinate NRC requirements and maintain consistency with other Federal, State and Local requirements for environmental protection.
- (3) Keep NRC informed of the environmental effects of facility construction and operation and actions taken to control those effects.

This Annual Environmental Operating Report is required by Section 5.4.1 of the EPP. This report describes the activities during calendar year 2010 related to the PVNGS EPP. For purposes of this report, references to the EPP are considered to be the EPP (Appendix B) of Renewed Operating Licenses NPF-41, NPF-51, and NPF-74.

II. ENVIRONMENTAL MONITORING SUMMARIES AND ANALYSIS

A. Cultural Resources

Section 4.2.1 of the EPP requires that an archaeological survey be performed when final alignment of the PVNGS-to-Saguaro transmission line is completed. As of the date of this report, plans for this transmission line have been indefinitely suspended. Therefore, there has been no activity with regard to this requirement of the EPP.

B. Terrestrial Ecology Monitoring

As communicated in a letter from William F. Conway, APS, to NRC, dated December 30, 1991, the salt deposition monitoring program was discontinued at the end of 1991.

III. PLANT DESIGN AND OPERATION CHANGES

Section 3.1 of the EPP allows changes in station design or operation or the performance of tests or experiments affecting the environment provided that such changes, tests, or experiments do not involve an unreviewed environmental question and do not involve a change to the EPP. Changes, tests, or experiments in which all measurable non-radiological effects are confined to the on-site areas previously disturbed during site preparation and plant construction or in which the environment is not affected are exempt from the evaluation and reporting requirements of Section 3.1.

Section 3.2 of the EPP also exempts changes, tests, or experiments, which are required to comply with other Federal, State, or local environmental regulations.

No design and operational changes were initiated in 2010 that required an evaluation to determine if they involved either an unreviewed environmental question or constituted a change in the EPP.

IV. EPP NON-COMPLIANCES

There were no instances of non-compliance with the EPP identified during 2010.

V. NON-ROUTINE REPORTS

There were no non-routine reports required by Section 5.4.2 of the EPP submitted during 2010.