



Palo Verde Nuclear
Generating Station

Scott A. Bauer
Department Leader,
Regulatory Affairs

Tel. 623-393-5978
Fax 623-393-5442
e-mail: sbauer@apsc.com

Mail Station 7636
PO Box 52034
Phoenix, Arizona 85072-2034

102-04694-SAB/TNW/CJJ
April 30, 2002

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

Dear Sirs:

**Subject: Palo Verde Nuclear Generating Station (PVNGS)
Units 1, 2, & 3
Docket Nos. STN 50-528/529/530
Annual Environmental Operating Report 2001**

Enclosed please find a copy of the Annual Environmental Operating Report for 2001. This report covers the operation of PVNGS Units 1, 2, and 3 during 2001, and is being submitted pursuant to Section 5.4.1 of Appendix B to the Operating License.

No commitments are being made to the NRC in this letter. If you have any questions, please contact Thomas N. Weber at (623) 393-5764.

Sincerely,

SAB/TNW/CJJ/kg

Enclosure

cc: E. W. Merschoff
J. N. Donohew
J. H. Moorman

IE25

ENCLOSURE

2001 Annual Environmental Operating Report

2001 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 4050 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 with a nominal generating capacity of 1270 MWE per Unit.

PVNGS was issued low power operating licenses NPF-34, NPF-46 and NPF-65 for Units 1, 2 and 3 by the United States Nuclear Regulatory Commission (NRC) on December 31, 1984, December 9, 1985, and March 25, 1987, respectively. The Unit 1 full power operating license NPF-41 was issued June 1, 1985. The Unit 2 full power operating license NPF-51 was issued April 24, 1986. The Unit 3 full power operating license NPF-74 was issued November 25, 1987. Appendix B to these operating licenses is entitled the "Environmental Protection Plan (Non Radiological)". The Environmental Protection Plans (EPP) of each of the current operating licenses are identical.

The EPP 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 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 the year 2001 related to the PVNGS EPP. For purposes of this report, references to the EPP are considered to be the EPP of NPF-41, NPF-51, and NPF-74.

2001 Annual Environmental Operating Report

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.

Forty-two design and operation changes were evaluated in 2001 to determine if they involved either an unreviewed environmental question or constituted a change in the EPP. Table III-1 summarizes the results of these evaluations. None of these changes involved an unreviewed environmental question or a change in the EPP.

IV. EPP NON-COMPLIANCES

There were no instances of non-compliance with the EPP identified during 2001.

V. NON-ROUTINE REPORTS

There were no non-routine reports required by Section 5.4.2 of the EPP submitted during 2001.

2001 Annual Environmental Operating Report

TABLE III - 1
SUMMARY OF ENVIRONMENTAL EVALUATIONS PERFORMED DURING 2001
FOR PLANT DESIGN AND OPERATION CHANGES

Log #	Title	Description	Analysis	Interpretation	Evaluation
01-003	WO 2349346 & Specific Contracts	WRSS February 2001 Manhole Repair Outage	Maintenance activities associated with the repair require the use of portable combustion equipment. The purchase / rental of equipment could increase airborne emissions due to the combustion of fossil fuel.	The FES does not address portable emission sources. The equipment purchased / rented will be permitted in accordance with county regulations.	There was no unreviewed environmental question because the equipment will be operated in accordance with county regulations.
01-004	WO 2351843; Specific Contracts	WRSS April 2001 Pipe Inspection and Repair	Maintenance activities associated with the inspection and repair require the use of portable combustion equipment, earth moving operations, and abrasive blasting / coating operations. These activities can increase airborne emissions. Maintenance and repair will also disturb offsite areas.	<p>The FES does not address portable emission sources. The equipment purchased / rented will be permitted in accordance with county regulations.</p> <p>The earth moving activities associated with the construction of the facility were discussed in the FES and no adverse environmental impacts were identified. The scope of the proposed work activities would be less than those already evaluated in the FES. Therefore, there are no adverse impacts as long as activities are conducted in accordance with county regulations.</p> <p>The FES does not address abrasive blasting / coating operations. There are no adverse impacts as long as activities are being conducted in accordance with county regulations.</p> <p>The offsite area that is disturbed is within the right of way of areas disturbed during initial construction. The FES identifies that routine maintenance may occur in these areas.</p>	There was no unreviewed environmental question because the equipment operation and maintenance activities will be conducted in accordance with county regulations. In addition, the area to be disturbed was previously identified in the FES.

2001 Annual Environmental Operating Report

TABLE III - 1
SUMMARY OF ENVIRONMENTAL EVALUATIONS PERFORMED DURING 2001
FOR PLANT DESIGN AND OPERATION CHANGES

Log #	Title	Description	Analysis	Interpretation	Evaluation
01-008	Generic Evaluation	Generic Evaluation for Rental and Contract Combustion Equipment	The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel.	The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations.	There was no unreviewed environmental question because the equipment will be operated in accordance with county regulations.
01-010	Rental Request	Outage Rental Equipment for IR09	The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel.	The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations.	There was no unreviewed environmental question because the equipment will be operated in accordance with county regulations.
01-012	PO 500220650	Contractor supplied Pollution Control Equipment used during 1R9 and Rental Equipment	The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel.	The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations.	There was no unreviewed environmental question because the equipment will be operated in accordance with county regulations.
01-013	PR 284311	Rental purchase for a liquid blaster powered by an industrial diesel engine	The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel.	The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations.	There was no unreviewed environmental question because the equipment will be operated in accordance with county regulations.
01-016	T-MOD CW-01-002	Dewater Unit 1 CWS to WRF Reservoir	This maintenance activity requires the rental of portable combustion equipment. The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel.	The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations.	There was no unreviewed environmental question because the equipment will be operated in accordance with county regulations.
01-017	73ST-9SI02, WD 2318018	Flow Verification of Containment Spray Nozzles	This maintenance activity requires the rental of portable combustion equipment. The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel.	The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations.	There was no unreviewed environmental question because the equipment will be operated in accordance with county regulations.

2001 Annual Environmental Operating Report

**TABLE III - 1
SUMMARY OF ENVIRONMENTAL EVALUATIONS PERFORMED DURING 2001
FOR PLANT DESIGN AND OPERATION CHANGES**

Log #	Title	Description	Analysis	Interpretation	Evaluation
01-018	DMWO 02212380	North Access Facility Construction	The construction of the North Access Facility requires the use of portable combustion equipment and earth moving operations. The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel. Earth moving operations could increase airborne emissions due to fugitive dust.	<p>The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations.</p> <p>The earth moving activities associated with the construction of the facility were discussed in the FES and no adverse environmental impacts were identified. The scope of the proposed work activities would be less than those already evaluated in the FES. Therefore, there are no adverse impacts as long as activities are conducted in accordance with county regulations.</p>	There was no unreviewed environmental question because equipment operation and construction activities will be conducted in accordance with county regulations.
01-024	JO 500240602	Railroad Restoration and Rehabilitation	Railroad restoration requires the use of portable combustion equipment and earth moving operations. The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel. Earth moving operations could increase airborne emissions due to fugitive dust.	<p>The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations.</p> <p>The earth moving activities associated with the construction of the facility were discussed in the FES and no adverse environmental impacts were identified. The scope of the proposed work activities would be less than those already evaluated in the FES. Therefore, there are no adverse impacts as long as activities are conducted in accordance with county regulations.</p>	There was no unreviewed environmental question because equipment operation and earth moving activities will be conducted in accordance with county regulations.

2001 Annual Environmental Operating Report

**TABLE III - 1
SUMMARY OF ENVIRONMENTAL EVALUATIONS PERFORMED DURING 2001
FOR PLANT DESIGN AND OPERATION CHANGES**

Log #	Title	Description	Analysis	Interpretation	Evaluation
01-025	WDP-TB-574	Design and Construct New Redundant Blowdown Line	The construction of a new redundant blowdown line requires the use of portable combustion equipment and earth moving operations. The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel. Earth moving operations could increase airborne emissions due to fugitive dust.	<p>The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations.</p> <p>The earth moving activities associated with the construction of the facility were discussed in the FES and no adverse environmental impacts were identified. The scope of the proposed work activities would be less than that already evaluated in the FES. Therefore, there are no adverse impacts as long as activities are conducted in accordance with county regulations.</p>	There was no unreviewed environmental question because equipment operation and earth moving activities will be conducted in accordance with county regulations.
01-026	74DP-9CY04	System Chemistry Specifications	The proposed change increased the discharge limits for hydrazine to the retention basins during outages. The increased limit has the potential to increase the level of hydrazine being sent to the evaporation ponds and could potentially affect the integrity of the evaporation pond liner. The increased limit also has the potential to increase discharges to the atmosphere due to evaporation of hydrazine from the basins.	<p>The FES discusses the management of chemical wastes and subsequent discharge to the evaporation ponds. The ER-OL identified hydrazine design limits for the pond liners. The potential increase in hydrazine concentration in the evaporation pond was determined to be within the current manufacturer's design specifications</p> <p>The FES does not discuss the discharges of hydrazine to the atmosphere. Therefore, as long as the discharges remain below federal emissions limits, there is no adverse environmental impact. An analysis determined that the potential increase in daily discharges of hydrazine were well below applicable limits.</p>	There was no unreviewed environmental question because the integrity of the evaporation pond liner will not be affected by the increased discharge limit and any increase in discharges of hydrazine to the atmosphere will be within federal limits.

2001 Annual Environmental Operating Report

**TABLE III - 1
SUMMARY OF ENVIRONMENTAL EVALUATIONS PERFORMED DURING 2001
FOR PLANT DESIGN AND OPERATION CHANGES**

Log #	Title	Description	Analysis	Interpretation	Evaluation
01-027	WDP-ZO-562	WRSS May 2001 Pipeline Refurbishment	<p>Maintenance activities associated with the inspection and repair require the use of portable combustion equipment and earth moving. These activities can increase airborne emissions due to the combustion of fossil fuel and generation of fugitive dust. Maintenance and repair will also disturb offsite areas.</p>	<p>The FES does not address portable emission sources. The equipment purchased / rented will be permitted in accordance with county regulations.</p> <p>The earth moving activities associated with the construction of the facility were discussed in the FES and no adverse environmental impacts were identified. The scope of the proposed work activities would be less than that already evaluated in the FES. Therefore, there are no adverse impacts as long as activities are conducted in accordance with county regulations.</p> <p>The offsite area disturbed is within the right of way of areas disturbed during initial construction. The FES identifies that routine maintenance may occur in these areas.</p>	<p>There was no unreviewed environmental question because the equipment and maintenance activities will be operated in accordance with county regulations. In addition, the area to be disturbed was previously identified in the FES.</p>

2001 Annual Environmental Operating Report

TABLE III - 1
SUMMARY OF ENVIRONMENTAL EVALUATIONS PERFORMED DURING 2001
FOR PLANT DESIGN AND OPERATION CHANGES

Log #	Title	Description	Analysis	Interpretation	Evaluation
01-029	DMWO 218598	Independent Spent Fuel Storage Installation (ISFSI)	The construction of ISFSI facility requires the use of portable combustion equipment and earth moving operations. The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel. Earth moving operations could increase airborne emissions due to fugitive dust.	The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations. The earth moving activities associated with the construction of the facility were discussed in the FES and no adverse environmental impacts were identified. The scope of the proposed work activities would be less than that already evaluated in the FES. Therefore, there are no adverse impacts as long as activities are conducted in accordance with county regulations.	There was no unreviewed environmental question because equipment operation and earth moving activities will be conducted in accordance with county regulations.

2001 Annual Environmental Operating Report

TABLE III - 1
SUMMARY OF ENVIRONMENTAL EVALUATIONS PERFORMED DURING 2001
FOR PLANT DESIGN AND OPERATION CHANGES

Log #	Title	Description	Analysis	Interpretation	Evaluation
01-031	WDP-ZI-566	Tolleson Interface Flow Increase	<p>The modification of Tolleson Interface involves the use of portable combustion equipment and earth moving operations. The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel. Earth moving operations could increase airborne emissions due to fugitive dust. Modification of the interface also involves a change to its external appearance as well as increase amount of water from the Tolleson Wastewater Treatment Plant that will be used.</p>	<p>The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations.</p> <p>The earth moving activities associated with the construction of the facility were discussed in the FES and no adverse environmental impacts were identified. The scope of the proposed work activities would be less than that already evaluated in the FES. Therefore, there are no adverse impacts as long as activities are conducted in accordance with county regulations.</p> <p>The FES describes the water supply pipeline in general terms. The interface modification will be in an industrial complex and will not adversely affect visual quality.</p> <p>The increase use of wastewater from the Tolleson Wastewater Treatment Plant will result in more water being discharged upstream at the 91st Avenue Treatment plant. The net change in the amount or quality of water entering the Gila River will not be affected and therefore will not adversely impact riparian environments in the river.</p>	<p>There was no unreviewed environmental question because equipment operation and earth moving activities will be conducted in accordance with county regulations. The modification will not adversely impact visual quality at the Tolleson Interface because the changes occur at an existing industrial setting. The net amount or quality of water entering the Gila River from the pipeline supply source will remain unchanged and not impact riparian environments.</p>

2001 Annual Environmental Operating Report

**TABLE III - 1
SUMMARY OF ENVIRONMENTAL EVALUATIONS PERFORMED DURING 2001
FOR PLANT DESIGN AND OPERATION CHANGES**

Log #	Title	Description	Analysis	Interpretation	Evaluation
01-033	DMWO 2330776	Plexiglass Area Acid/Caustic Skid Upgrade	The modification of the skid involves the removal of a desiccant and breather valve from the acid day tank. This modification could potentially result in an increase in sulfuric acid vapor emissions.	The FES does not address the emission of sulfuric acid vapors. An evaluation of the design indicates that any increase in emissions will be negligible and well below any federal daily reporting release level.	There was no unreviewed environmental question because the release of sulfuric acid vapors are negligible and well below any federal daily reporting level.
01-037	Generic Evaluation	Generic Evaluation for Earthmoving Operations	Earth moving operations could increase airborne emissions due to fugitive dust.	The earth moving activities associated with the construction of the facility were discussed in the FES and no adverse environmental impacts were identified. The scope of the any proposed work of activities would be less than that already evaluated in the FES. As long as all activities are conducted in accordance with county regulations there is no adverse environmental impact.	There was no unreviewed environmental question since earth-moving activities will be conducted in accordance with county regulations.
01-039	WDP-ST-561	Inspect and Evaluate Corrosion Effects on STP	The inspection requires the use of portable combustion equipment. The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel.	The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations.	There was no unreviewed environmental question because equipment operation will be conducted in accordance with county regulations.
01-040	DMWO 2367554	New Fire Protection Underground Main Loop. Phase 1, 6000 feet North Loop.	Construction of the new main loop involves earth moving operations which could increase airborne emissions due to fugitive dust.	The earth moving activities associated with the construction of the facility were discussed in the FES and no adverse environmental impacts were identified. The scope of the proposed work activities would be less than that already evaluated in the FES. Therefore, there are no adverse impacts as long as activities are conducted in accordance with county regulations.	There was no unreviewed environmental question since earth moving activities will be conducted in accordance with county regulations.

2001 Annual Environmental Operating Report

TABLE III - 1
SUMMARY OF ENVIRONMENTAL EVALUATIONS PERFORMED DURING 2001
FOR PLANT DESIGN AND OPERATION CHANGES

Log #	Title	Description	Analysis	Interpretation	Evaluation
01-041	T-MOD 2348847	T-Mod cooling tower fan replacement for performance testing	Changes to cooling tower operation or equipment could affect offsite impacts evaluated in the FES and drift-monitoring program.	The FES identifies that based on current cooling tower design there are no adverse environmental impacts identified. The proposed change does not change the fan design airflow rate or velocity and therefore will not affect cooling tower operations. The modification is considered a like for like replacement.	The design change is a like for like replacement of existing equipment already evaluated in the FES. The change therefore will have no adverse environmental as previously determined in the FES.
01-042	PR 000310179	Purchase of two Graco Gmax 7900 gas powered airless sprayers	The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel.	The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations.	There was no unreviewed environmental question because equipment operation will be conducted in accordance with county regulations.
01-043	DFWO 2409449	Unit 3 Louver Removal	The removal of louvers from the cooling towers has the potential to affect emissions from the cooling towers.	The FES and salt drift monitoring program identified impacts associated with cooling tower drift. The scope of work performed and the number of louvers removed would not cause a significant increase in emissions and the original impact assessments remain valid.	There was no unreviewed environmental question because the scope of work performed would not cause any significant increase in emissions. The towers will continue to be operated in accordance with county regulations.
01-044	DFWO 2409590	Unit 2 Louver Removal	The removal of louvers from the cooling towers has the potential to affect emissions from the cooling towers.	The FES and salt drift monitoring program identified impacts associated with cooling tower drift. The scope of work performed and the number of louvers removed would not cause a significant increase in emissions and the original impact assessments remain valid.	There was no unreviewed environmental question because the scope of work performed would not cause any significant increase in emissions. The towers will continue to be operated in accordance with county regulations.

2001 Annual Environmental Operating Report

**TABLE III - 1
SUMMARY OF ENVIRONMENTAL EVALUATIONS PERFORMED DURING 2001
FOR PLANT DESIGN AND OPERATION CHANGES**

Log #	Title	Description	Analysis	Interpretation	Evaluation
01-045	DFWO 2409550	Unit 1 Louver Removal	The removal of louvers from the cooling towers has the potential to affect emissions from the cooling towers.	The FES and salt drift monitoring program identified impacts associated with cooling tower drift. The scope of work performed and the number of louvers removed would not cause a significant increase in emissions and the original impact assessments remain valid.	There was no unreviewed environmental question because the scope of work performed would not cause any significant increase in emissions. The towers will continue to be operated in accordance with county regulations.
01-047	WDP-Z0-562, WO 2412300 & specific contracts	October 2001 WRSS Manhole Repair Outage	Maintenance activities associated with the inspection and repair require the use of portable combustion equipment and earth moving. These activities can increase airborne emissions due to the combustion of fossil fuel and generation of fugitive dust. Maintenance and repair will also disturb offsite areas.	<p>The FES does not address portable emission sources. The equipment purchased / rented will be permitted in accordance with county regulations.</p> <p>The earth moving activities associated with the construction of the facility were discussed in the FES and no adverse environmental impacts were identified. The scope of the proposed work activities would be less than that already evaluated in the FES. Therefore, there are no adverse impacts as long as activities are conducted in accordance with county regulations.</p> <p>The offsite area disturbed is within the right of way of areas disturbed during initial construction. The FES identifies that routine maintenance may occur in these areas.</p>	There was no unreviewed environmental question because the equipment and maintenance activities will be operated in accordance with county regulations. In addition, the area to be disturbed was previously identified in the FES.

2001 Annual Environmental Operating Report

**TABLE III - 1
SUMMARY OF ENVIRONMENTAL EVALUATIONS PERFORMED DURING 2001
FOR PLANT DESIGN AND OPERATION CHANGES**

Log #	Title	Description	Analysis	Interpretation	Evaluation
01-048	WDP-TB-559	Redhawk Makeup Water Line/ East Wash Crossing	The Redhawk makeup pipeline requires the use of portable combustion equipment and earth moving operations. The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel. Earth moving operations could increase airborne emissions due to fugitive dust.	The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations. The earth moving activities associated with the construction of the facility were discussed in the FES and no adverse environmental impacts were identified. The scope of the proposed work activities would be less than that already evaluated in the FES. Therefore, there are no adverse impacts as long as activities are conducted in accordance with county regulations.	There was no unreviewed environmental question because equipment operation and earth moving activities will be conducted in accordance with county regulations.
01-051	Purchase Request	Purchase of two wackers	The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel.	The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations.	There was no unreviewed environmental question because equipment operation will be conducted in accordance with county regulations.
01-053	Rental Request	Coatings Outage Rental Equipment	The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel.	The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations.	There was no unreviewed environmental question because equipment operation will be conducted in accordance with county regulations.
01-055	DFWO 2413149	Repair of Concrete Pipe in Plant Cooling Water Supply Line	The repair involves the rental of portable combustion equipment. The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel.	The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations.	There was no unreviewed environmental question because equipment operation will be conducted in accordance with county regulations.

2001 Annual Environmental Operating Report

**TABLE III - 1
SUMMARY OF ENVIRONMENTAL EVALUATIONS PERFORMED DURING 2001
FOR PLANT DESIGN AND OPERATION CHANGES**

Log #	Title	Description	Analysis	Interpretation	Evaluation
01-056	PR 316301	Rental of pumps for U3R9 CW System Dewatering & Pipe Repair	The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel.	The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations.	There was no unreviewed environmental question because equipment operation will be conducted in accordance with county regulations.
01-057	PR 314205	Hydrolasing CW/PW Pipe	The repair of the pipe involves the rental of portable combustion equipment. The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel.	The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations.	There was no unreviewed environmental question because equipment operation will be conducted in accordance with county regulations.
01-058	PR 317290	Transformer Oil Purification Equipment	The use of the transformer oil purification equipment has the potential for increased organic emissions.	The FES does not address emissions from transformer oil purification equipment. There are no significant regulated emissions from the operation of this equipment.	There was no unreviewed environmental question because the equipment operation will be conducted in accordance with county regulations.
01-060	AFCR 01-0166	ISFI - 12 KV APS Power Line Reroute	Rerouting of the powerline involves earth moving operations. Earth moving operations could increase airborne emissions due to fugitive dust.	The earth moving activities associated with the construction of the facility were discussed in the FES and no adverse environmental impacts were identified. The scope of the proposed work activities would be less than that already evaluated in the FES. Therefore, there are no adverse impacts as long as activities are conducted in accordance with county regulations.	There was no unreviewed environmental question as long as earth-moving activities are conducted in accordance with county regulations.
01-061	WO 2399706	Hydro-Vac to use 3 Pressure Washers	The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel.	The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations.	There was no unreviewed environmental question because equipment operation will be conducted in accordance with county regulations.

2001 Annual Environmental Operating Report

TABLE III - 1
SUMMARY OF ENVIRONMENTAL EVALUATIONS PERFORMED DURING 2001
FOR PLANT DESIGN AND OPERATION CHANGES

Log #	Title	Description	Analysis	Interpretation	Evaluation
01-063	Rental Request	900 CFM Breathing Air Compressor Rental	The repair of the pipe involves the rental of portable combustion equipment. The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel.	The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations.	There was no unreviewed environmental question because equipment operation will be conducted in accordance with county regulations.
01-064	AFCR 01-0169	Replacement Steam Generator Storage	The construction associated with the Steam Generator Storage area involves the use of portable combustion equipment and earth moving operations. The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel. Earth moving operations could increase airborne emissions due to fugitive dust.	<p>The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations.</p> <p>The earth moving activities associated with the construction of the facility were discussed in the FES and no adverse environmental impacts were identified. The scope of the proposed work activities would be less than that already evaluated in the FES. Therefore, there are no adverse impacts as long as activities are conducted in accordance with county regulations.</p>	There was no unreviewed environmental question because equipment operation and earth moving activities will be conducted in accordance with county regulations.
01-070	AFCR 01-164	ISFSI - Coatings Yard Area Lighting Modification	Construction of ISFSI Lighting Modification involves earth moving operations, which could increase airborne emissions due to fugitive dust.	The earth moving activities associated with the construction of the facility were discussed in the FES and no adverse environmental impacts were identified. The scope of the proposed work activities would be less than that already evaluated in the FES. Therefore, there are no adverse impacts as long as activities are conducted in accordance with county regulations.	There was no unreviewed environmental question since earth moving activities will be conducted in accordance with county regulations.

2001 Annual Environmental Operating Report

TABLE III - 1
SUMMARY OF ENVIRONMENTAL EVALUATIONS PERFORMED DURING 2001
FOR PLANT DESIGN AND OPERATION CHANGES

Log #	Title	Description	Analysis	Interpretation	Evaluation
01-071	AFCR 01-0171	Substation "N" and Furniture Storage Building	This modification requires underground powerline to be run to the building and involves earth moving operations, which could increase airborne due to fugitive dust.	The earth moving activities associated with the construction of the facility were discussed in the FES and no adverse environmental impacts were identified. The scope of the proposed work activities would be less than that already evaluated in the FES. Therefore, there are no adverse impacts as long as activities are conducted in accordance with county regulations.	There was no unreviewed environmental question since earth moving activities will be conducted in accordance with county regulations.
01-072	AFCR 01-0163	ISFSI - Owner Controlled Area Fence Removal/Relocation	The relocation involves the use of portable combustion equipment and earth moving operations. The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel. Earth moving operations could increase airborne emissions due to fugitive dust.	<p>The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations.</p> <p>The earth moving activities associated with the construction of the facility were discussed in the FES and no adverse environmental impacts were identified. The scope of the proposed work activities would be less than that already evaluated in the FES. Therefore, there are no adverse impacts as long as activities are conducted in accordance with county regulations.</p>	There was no unreviewed environmental question because equipment operation and earth moving activities will be conducted in accordance with county regulations.

2001 Annual Environmental Operating Report

**TABLE III - 1
SUMMARY OF ENVIRONMENTAL EVALUATIONS PERFORMED DURING 2001
FOR PLANT DESIGN AND OPERATION CHANGES**

Log #	Title	Description	Analysis	Interpretation	Evaluation
01-073	AFCR 01-0165	ISFI - Normal Power (480V) to PVNGS Independent Spent Fuel Storage Installation	Running power lines involves the use of portable combustion equipment and earth moving operations. The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel. Earth moving operations could increase airborne emissions due to fugitive dust.	<p>The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations.</p> <p>The earth moving activities associated with the construction of the facility were discussed in the FES and no adverse environmental impacts were identified. The scope of the proposed work activities would be less than that already evaluated in the FES. Therefore, there are no adverse impacts as long as activities are conducted in accordance with county regulations.</p>	There was no unreviewed environmental question because equipment operation and earth moving activities will be conducted in accordance with county regulations.
01-074	DMWO 2367236	Railroad Modification	The modification requires the rental of portable combustion equipment. The use of portable combustion equipment could increase airborne emissions due to the combustion of fossil fuel.	The FES does not address portable emission sources. The equipment purchased / rented / contracted will be permitted in accordance with county regulations.	There was no unreviewed environmental question because equipment operation will be conducted in accordance with county regulations.
01-075	WDP-TB-450	Secondary CTMU line installation Phase 3 work	The installation of the CTMU line involves earth moving operations, which could increase airborne emissions due to fugitive dust.	The earth moving activities associated with the construction of the facility were discussed in the FES and no adverse environmental impacts were identified. The scope of the proposed work activities would be less than that already evaluated in the FES. Therefore, there are no adverse impacts as long as activities are conducted in accordance with county regulations.	There was no unreviewed environmental question since earth-moving activities will be conducted in accordance with county regulations.

* FES - Final Environmental Statement, ER-OL - Environmental Report, Operating License Stage