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United States Nuclear Regulatory Commission  
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Perry Nuclear Power Plant  
Docket No. 50-440  
Subject: 2002 Annual Report

Ladies and Gentlemen:

Attached is the 2002 Annual Report for the Perry Nuclear Power Plant (PNPP), Unit 1. This report is submitted in accordance with Technical Specification 5.6.1 and 10 CFR 50.46, and fulfills ongoing commitments associated with Licensing Commitment 17 contained in the PNPP Updated Safety Analysis Report, Appendix 1B.

If you have questions or require additional information, please contact Mr. Vernon K. Higaki, Manager-Regulatory Affairs at (440) 280-5294.

Very truly yours,



Attachment

cc: NRC Project Manager  
NRC Resident Inspector Office  
NRC Region III  
REIRS Project Manager

A001  
IES6

FIRSTENERGY NUCLEAR OPERATING COMPANY

PERRY NUCLEAR POWER PLANT

January 1, 2002 to December 31, 2002

ANNUAL REPORT TO NRC

DOCKET NUMBER: 50-440  
LICENSE NUMBER: NPF-58

Contents

10 CFR 50.46 Reporting of Emergency Core Cooling System (ECCS) Errors and Model Changes  
Silicone Sealant Inspections  
Occupational Radiation Exposure Summary Report

10 CFR 50.46 Reporting of Emergency Core Cooling System (ECCS) Errors and Model Changes

New Errors and Changes:

Changes:

One change was reported in 2002 concerning the SAFER/GESTR model.

1. This notification reported the SAFER computer platform change. The change increases the Licensing Basis Peak Cladding Temperature (PCT) for both the GE12 and GE14 fuel by 0°F.

Errors:

Four errors were reported in 2002 concerning the SAFER/GESTR model.

1. This notification reported the SAFER/GESTR error in the core spray elevation. The error increases the Licensing Basis Peak Cladding Temperature (PCT) for both the GE12 and GE14 fuel by 15°F.
2. This notification reported the impact of SAFER Bulk Water Level Error on the Peak Clad Temperature (PCT). The error increases the Licensing Basis Peak Cladding Temperature (PCT) for both the GE12 and GE14 fuel by 0°F.
3. This notification reported the GESTR input file interpolation error. The error increases the Licensing Basis Peak Cladding Temperature (PCT) for the GE12 fuel by 0°F. This error is not applicable to the GE14 fuel since this error was incorporated in the GE14 LOCA analysis obtained in 2001.
4. This notification reported the error in WEVOL calculation of downcomer free volume. The error increases the Licensing Basis Peak Cladding Temperature (PCT) for both the GE12 and GE14 fuel by 0°F.

Silicone Sealant Inspections

No inspections were scheduled or performed this year. Inspection activities are currently scheduled to be performed in RFO9 (April-May, 2003).

Occupational Radiation Exposure Summary Report

Attached is the 2002 Annual Occupational Exposure Summary Report for the Perry Nuclear Power Plant as required by Technical Specification 5.6.1.

The Number of Personnel >100 mrem are determined by the number of individuals with greater than 100 mrem in the corresponding Work and Job Function. Both the Number of Personnel >100 mrem and the Total Person-mrem are determined using Direct Reading Dosimeters (DRD). The Radiation Work Permit (RWP) under which the individual worked defines the Work Function. An individual may be counted in more than one category. The Job Function and the Station/Utility/Contract Workers and Others are determined by record of individual signing in on an RWP.

No work activity for 2002 was categorized as Special Maintenance, Refueling, or In-Service Inspection.

Work & Job Function	Number of Personnel (>100 mrem)			Total Person-mrem		
	Station Employees	Utility Employees	Contract Workers and Others	Station Employees	Utility Employees	Contract Workers and Others
Reactor Operations & Surveillance						
Maintenance Personnel	0	0	0	66	3	0
Operating Personnel	27	1	1	6211	197	180
Health Physicist Personnel	0	0	0	224	22	0
Supervisory Personnel	0	0	0	0	0	19
Engineering Personnel	0	0	0	36	8	0
Routine Maintenance						
Maintenance Personnel	77	3	16	25774	827	9749
Operating Personnel	33	2	6	9641	740	1781
Health Physicist Personnel	26	0	0	10097	2	1
Supervisory Personnel	0	0	0	4	3	176
Engineering Personnel	1	0	0	1012	239	35
Inservice Inspection						
Maintenance Personnel	0	0	0	0	0	0
Operating Personnel	0	0	0	0	0	0
Health Physicist Personnel	0	0	0	0	0	0
Supervisory Personnel	0	0	0	0	0	0
Engineering Personnel	0	0	0	0	0	0
Special Maintenance						
Maintenance Personnel	0	0	0	0	0	0
Operating Personnel	0	0	0	0	0	0
Health Physicist Personnel	0	0	0	0	0	0
Supervisory Personnel	0	0	0	0	0	0
Engineering Personnel	0	0	0	0	0	0
Waste Processing						
Maintenance Personnel	9	0	0	1965	162	0
Operating Personnel	2	0	2	907	37	620
Health Physicist Personnel	0	0	0	463	0	0
Supervisory Personnel	0	0	0	1	0	0
Engineering Personnel	0	0	0	54	2	0
Refueling						
Maintenance Personnel	0	0	0	0	0	0
Operating Personnel	0	0	0	0	0	0
Health Physicist Personnel	0	0	0	0	0	0
Supervisory Personnel	0	0	0	0	0	0
Engineering Personnel	0	0	0	0	0	0
Total						
Maintenance Personnel	86	3	16	27805	992	9749
Operating Personnel	62	3	9	16759	974	2581
Health Physicist Personnel	26	0	0	10784	24	1
Supervisory Personnel	0	0	0	5	3	195
Engineering Personnel	1	0	0	1102	249	35
Grand Total	175	6	25	56455	2242	12561