

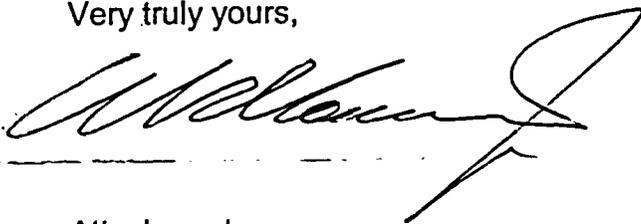
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Fax: 440-280-8029March 1, 2004  
PY-CEI/NRR-2774LUnited States Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555Perry Nuclear Power Plant  
Docket No. 50-440  
Subject: 2003 Annual Report

Ladies and Gentlemen:

Attached is the 2003 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

FIRSTENERGY NUCLEAR OPERATING COMPANY

PERRY NUCLEAR POWER PLANT

January 1, 2003 to December 31, 2003

ANNUAL REPORT TO NRC

DOCKET NUMBER: 50-440

LICENSE NUMBER: NPF-58

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10 CFR 50.46 Reporting of ECCS Errors and Model Changes

New Errors and Changes:

Changes:

None

Errors:

Three errors were reported in 2003 concerning the SAFER/GESTR model:

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1. GNF Notification 2003-01, Dated May 6, 2003.

This notification identifies an issue with how the SAFER/GESTR level/volume input tables are set up. This error resulted in an increase of 5 degrees F in the licensing basis peak cladding temperature for both the GE12 and GE14 fuel.

2. GNF Notification 2003-03, Dated May 6, 2003.

This notification identifies an issue with the initial steam separator pressure drop assumption used by the SAFER code. This error resulted in no change (0 degrees F) in the licensing basis peak cladding temperature for both the GE12 and GE14 fuel.

3. GE Letter KHN-PCT-099, Nov 28, 2003.

This letter identifies an issue with assumptions in SAFER/GESTR concerning the post LOCA recombination of hydrogen and oxygen. This error resulted in no change (0 degrees F) in the licensing basis peak cladding temperature for both the GE12 and GE14 fuel.

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### Silicone Sealant Inspections

In accordance with commitments made in response to License Commitment 17 of the Perry Nuclear Power Plant Updated Final Safety Analysis Report, Appendix 1B, the following summary report is provided. During Refueling Outage 9, duct specimens, located within the Intermediate Building 585' pipe chase, were inspected. The duct specimens were leak tested at rated pressure and found to be acceptable. The results of the duct specimen leak test showed that no additional air leakage was present.

The Engineered Safety Features (ESF) ventilation systems, i.e., the Annulus Exhaust Gas Treatment System, the Control Room HVAC System, and the Fuel Handling Building Ventilation System, were walked down and a representative portion of the exposed exterior silicone sealants were inspected. The exposed exterior sealant on all ductwork inspected during this walkdown was found to be in good condition with no observable degradation or leakage.

Occupational Radiation Exposure Summary Report

Attached is the 2003 Annual Occupational Exposure Summary Report for the Perry Nuclear Power Plant as required by Technical Specification 5.6.1.

The Radiation Work Permit (RWP) under which an 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 onto an RWP.

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 Man-mrem are determined using Direct Reading Dosimeters (DRD).

No work activity for 2003 was categorized as Special Maintenance 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
<b>Reactor Operations &amp; Surveillance</b>						
Maintenance Personnel	0	0	0	131	1	12
Operating Personnel	46	4	2	22981	1140	579
Health Physicis Personnel	0	0	0	265	0	20
Supervisory Personnel	0	0	0	0	0	0
Engineering Personnel	0	0	0	37	8	0
<b>Routine Maintenance</b>						
Maintenance Personnel	163	14	608	78985	5853	333846
Operating Personnel	73	6	22	28490	2516	9269
Health Physicis Personnel	33	4	57	34438	1641	35500
Supervisory Personnel	0	0	2	62	13	549
Engineering Personnel	21	5	5	6852	1787	1547
<b>Inservice Inspection</b>						
Maintenance Personnel	0	0	0	0	0	0
Operating Personnel	0	0	0	0	0	0
Health Physicis Personnel	0	0	0	0	0	0
Supervisory Personnel	0	0	0	0	0	0
Engineering Personnel	0	0	0	0	0	0
<b>Special Maintenance</b>						
Maintenance Personnel	0	0	0	0	0	0
Operating Personnel	0	0	0	0	0	0
Health Physicis Personnel	0	0	0	0	0	0
Supervisory Personnel	0	0	0	0	0	0
Engineering Personnel	0	0	0	0	0	0
<b>Waste Processing</b>						
Maintenance Personnel	0	0	0	11	0	0
Operating Personnel	3	0	0	978	21	24
Health Physicis Personnel	0	0	0	399	0	0
Supervisory Personnel	0	0	0	0	0	0
Engineering Personnel	0	0	0	0	0	0
<b>Refueling</b>						
Maintenance Personnel	5	3	113	1646	782	58811
Operating Personnel	14	2	13	5497	1467	4634
Health Physicis Personnel	3	0	5	1081	3	1071
Supervisory Personnel	0	0	0	0	15	1
Engineering Personnel	2	2	0	392	298	17
<b>Total</b>						
Maintenance Personnel	168	17	721	80773	6636	392669
Operating Personnel	136	12	37	57946	5144	14506
Health Physicis Personnel	36	4	62	36183	1644	36591
Supervisory Personnel	0	0	2	62	28	550
Engineering Personnel	23	7	5	7281	2093	1564
<b>Grand Total</b>	<b>363</b>	<b>40</b>	<b>827</b>	<b>182245</b>	<b>15545</b>	<b>445880</b>