



FirstEnergy Nuclear Operating Company

Perry Nuclear Power Plant  
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Perry Nuclear Power Plant  
Docket No. 50-440  
Subject: 2001 Annual Report

Ladies and Gentlemen:

Attached is the 2001 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. Gregory A. Dunn, Manager-Regulatory Affairs at (440) 280-5305.

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, 2001 to December 31, 2001

ANNUAL REPORT TO NRC

DOCKET NUMBER: 50-440

LICENSE NUMBER: NPF-58

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

New Errors and Changes:

Changes:

The SAFER/GESTR analysis was updated to incorporate the addition of the General Electric Fuel Type, GE14. GE14 fuel was loaded into Perry during Refuel Outage 8 (March 2001) for Cycle 9 operations. Perry Cycle 9 currently contains GE12 and GE14 fuel types.

Errors:

One error was reported by General Electric in a customer notification notice in (May) 2001 in the SAFER/GESTR model. The error increased the Licensing Basis Peak Cladding Temperature (PCT) for both the GE12 and GE14 fuel by 5°F.



### 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 8, 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 2001 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 2001 was categorized as Special Maintenance.



**2001 PERRY NUCLEAR POWER PLANT TECHNICAL SPECIFICATION 5.6.1 APPENDIX A REPORT  
(REG GUIDE 1.16 )**

Work & Job Function	Number of Personnel (>100 mrem)			Total Man-mrem		
	Station Employees	Utility Employees	Contract Workers and Others	Station Employees	Utility Employees	Contract Workers and Others
Reactor Operations & Surveillance						
Maintenance Personnel	4	0	2	1164	458	1799
Operating Personnel	32	0	0	7679	81	21
Health Physicis Personnel	13	7	15	3398	1716	4817
Supervisory Personnel	0	0	0	18	0	19
Engineering Personnel	0	0	0	44	72	42
Routine Maintenance						
Maintenance Personnel	120	15	267	41802	4377	84189
Operating Personnel	52	8	22	19196	2115	5464
Health Physicis Personnel	28	4	7	13532	1100	3206
Supervisory Personnel	0	0	0	87	84	104
Engineering Personnel	12	4	6	3988	1116	2015
Inservice Inspection						
Maintenance Personnel	0	0	63	165	213	20819
Operating Personnel	0	0	4	217	255	1235
Health Physicis Personnel	2	0	1	651	65	480
Supervisory Personnel	0	0	0	0	5	17
Engineering Personnel	6	2	5	1641	532	1466
Special Maintenance						
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
Waste Processing						
Maintenance Personnel	11	0	0	3020	130	0
Operating Personnel	8	1	0	2202	217	115
Health Physicis Personnel	3	0	0	923	2	17
Supervisory Personnel	0	0	0	0	0	0
Engineering Personnel	0	0	0	21	3	6
Refueling						
Maintenance Personnel	3	2	106	842	639	38581
Operating Personnel	5	0	7	1286	528	2252
Health Physicis Personnel	2	2	7	786	599	1663
Supervisory Personnel	0	0	0	6	3	0
Engineering Personnel	0	0	0	101	63	0
Total						
Maintenance Personnel	138	17	438	46993	5817	145388
Operating Personnel	97	9	33	30580	3196	9087
Health Physicis Personnel	48	13	30	19290	3482	10183
Supervisory Personnel	0	0	0	111	92	140
Engineering Personnel	18	6	11	5795	1786	3529
Grand Total	301	45	512	102769	14373	168327