



FirstEnergy Nuclear Operating Company

Perry Nuclear Power Station  
10 Center Road  
Perry, Ohio 44081

L. William Pearce  
Vice President

440-280-5382  
Fax: 440-280-8029

February 28, 2006  
PY-CEI/NRR-2943L

United States Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555

Perry Nuclear Power Plant  
Docket No. 50-440  
Subject: 2005 Annual Report

Ladies and Gentlemen:

Attached is the 2005 Annual Report for the Perry Nuclear Power Plant (PNPP). This report is submitted in accordance with 10 CFR 50.46(a)(3)(ii), and also fulfills ongoing commitments associated with License Commitment 17 contained in the PNPP Updated Safety Analysis Report, Appendix 1B.

If there are any questions or if additional information is required, please contact Mr. Jeffrey Lausberg, Manager-Regulatory Compliance at (440) 280-5940.

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, 2005 to December 31, 2005

ANNUAL REPORT TO NRC

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

Contents

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

Silicone Sealant Inspections

10 CFR 50.46 Reporting of ECCS Model Changes and Errors

New Model Changes:

None

New Model Errors:

None

### 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 10 in 2005, 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.