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PY-CEI/NRR-2259L

United States Nuclear Regulatory Commission
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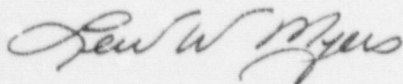
Perry Nuclear Power Plant
Docket No. 50-440
1997 Annual Report

Gentlemen:

Attached is the 1997 Annual Report for Perry Unit 1. This report is submitted in accordance with Technical Specification 5.6.1 and 10CFR50.46 and fulfills ongoing commitments associated with Licensing Commitment 17 of USAR Appendix 1B.

If you have questions or require additional information, please contact Mr. Henry L. Hegrat, Manager - Regulatory Affairs at (216) 280-5606.

Very truly yours,



HMC/s

Attachment

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

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CLEVELAND ELECTRIC ILLUMINATING COMPANY

PERRY NUCLEAR POWER PLANT

January 1, 1997 to December 31, 1997

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

Errors and changes reported since last annual report:

Letter number PY CEI/NRR-2205L was submitted to the NRC from L.W. Myers on August 21, 1997, in accordance with 10 CFR 50.46. The letter summarized several errors and model changes which were not properly incorporated into the program to determine Peak Cladding Temperature (PCT). The report concluded that compliance to 10 CFR 50.46(b)(1) was maintained with PCT less than 2200°F. Other 10 CFR 50.46(b) provisions were considered. No additional concerns were identified.

New Errors or changes

Errors

No additional errors have been identified since submittal of the letter referenced above.

Changes

A plant design change removed the Shroud Head Bolts and replaced them with the Shroud Head Stud Assembly Modification. This modification allows for a small flow path to exist through the core shroud. As a result, a slightly faster blowdown and a slightly slower reflood is predicted during a LOCA. The impact to the PCT is an increase of less than 1°F. A 1°F penalty was added to the PCT. Compliance to 10 CFR 50.46(b)(1) was maintained with the PCT less than 2200°F. Other 10 CFR 50.46(b) provisions were considered and no additional concerns were identified.

Silicone Sealant Inspections

In accordance with commitments made in response to License Commitment 17 of the USAR Appendix 1B, the following summary report is provided. During the Perry Unit 1 sixth refueling outage, September 12, 1997 to October 23, 1997, duct specimens that were previously placed in an environmentally representative horizontal pipe chase in the Intermediate Building, 585' elevation, 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 other than previously identified in the original test.

A walkdown of representative portions of Engineered Safety Feature (ESF) ventilation systems -- Annulus Exhaust Gas Treatment, Control Room HVAC and Fuel Handling Building Ventilation, was conducted and the exposed exterior silicone sealants were inspected, also with acceptable results.

Occupational Radiation Exposure Report

The Perry 1997 Annual Occupational Exposure Report required by Technical Specification 5.6.1 of Appendix A to the Perry Unit 1 Operating License follows. The work Categories are indicated below:

Station Perry Nuclear Power Plant Department, Perry Nuclear Maintenance Department and Site Protection Section of the Perry Nuclear Services Department personnel.

Utility Perry Quality and Personnel Development Department, Perry Nuclear Maintenance Department, Perry Nuclear Engineering Department, other sections of the Perry Nuclear Services Department, Cleveland Electric Illuminating Company, Centerior and Davis-Besse support personnel.

Other Contractor, Consultant and other support personnel.

Special Maintenance Work performing elimination of Hot Spots, Suppression Pool Strainer Modification, electrical repairs to the Incline Fuel Transfer System, re-inspection of new fuel for possible debris, free stuck Intermediate Range Monitor, repair of Condensate Demineralizing System leaks, and Reactor Recirculation and Reactor Water Clean-Up activities.

Man-Rem is based on Direct Reading Dosimeter Readings.

Number of personnel is based on number of unique individuals signing in on any Radiation Work Permit (RWP) in corresponding categories regardless of exposure received.

Work Category is based on RWP individual signed in on.

Job Category and Station/Utility/Other is based on personnel record of person signing in on RWP.

1997 PERRY NUCLEAR POWER PLANT TECHNICAL SPECIFICATION 5.6.1 APPENDIX A REPORT
(REG GUIDE 1.16)

Work & Job Function	Number of Personnel (>0 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	115	23	85	583	21	523
Operating Personnel	156	32	8	20233	654	122
Health Physics Personnel	52	9	91	5973	2885	10354
Supervisory Personnel	5	4	6	6	49	75
Engineering Personnel	25	70	15	679	989	165
Routine Maintenance						
Maintenance Personnel	215	116	1213	26029	8989	102649
Operating Personnel	260	93	86	6210	4102	6711
Health Physics Personnel	56	12	76	6478	684	5993
Supervisory Personnel	19	18	63	241	510	815
Engineering Personnel	72	147	81	1215	3349	2131
Inservice Inspection						
Maintenance Personnel	36	7	387	1041	181	24681
Operating Personnel	16	8	14	75	570	1603
Health Physics Personnel	14	2	25	249	27	726
Supervisory Personnel	1	1	4	6	454	334
Engineering Personnel	11	28	22	66	1915	2190
Special Maintenance						
Maintenance Personnel	47	28	359	820	156	18185
Operating Personnel	25	9	11	234	24	858
Health Physics Personnel	27	2	21	932	4	1220
Supervisory Personnel	1	2	10	0	0	189
Engineering Personnel	7	22	12	18	576	35
Waste Processing						
Maintenance Personnel	95	37	142	69	6	34
Operating Personnel	84	39	42	2179	1341	493
Health Physics Personnel	36	6	21	471	748	103
Supervisory Personnel	4	0	6	1	0	0
Engineering Personnel	9	12	1	26	1	0
Refueling						
Maintenance Personnel	28	12	186	166	48	17096
Operating Personnel	21	15	27	556	384	1140
Health Physics Personnel	26	2	20	213	2	925
Supervisory Personnel	4	2	4	1	2	83
Engineering Personnel	8	18	7	119	107	134
Total						
Maintenance Personnel	536	223	2372	28708	9401	163168
Operating Personnel	562	196	188	29487	7075	10927
Health Physics Personnel	211	33	254	14316	4350	19321
Supervisory Personnel	34	27	93	255	1015	1496
Engineering Personnel	133	297	138	2123	6937	4655
Grand Total	1476	776	3045	74889	28776	199567