



**PERRY NUCLEAR POWER PLANT**

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**Donald C. Shelton**  
SENIOR VICE PRESIDENT  
NUCLEAR

February 28, 1995  
PY-CEI/NRR-1918L

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

Perry Nuclear Power Plant  
Docket No. 50-440  
1994 Annual Report

Gentlemen:

Attached is the 1994 Annual Report for Perry Unit 1. This report is submitted in accordance with Technical Specifications 6.9.1.4 and 6.9.1.5 and fulfills ongoing commitments associated with Licensing Commitment 17 of USAR Appendix 1B.

If you have questions or require additional information, please contact Mr. James D. Kloosterman, Manager - Regulatory Affairs at (216) 280-5833.

Very truly yours,

A handwritten signature in dark ink, appearing to read 'D. Shelton', written over a horizontal line.

GMN:sc

Attachment

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

080026

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PDR ADDCK 05000440  
R PDR

Operating Companies  
Cleveland Electric Illuminating  
Toledo Edison

JEH 7/1

CLEVELAND ELECTRIC ILLUMINATING COMPANY

PERRY NUCLEAR POWER PLANT

JANUARY 1 - DECEMBER 31, 1994

**ANNUAL REPORT**

DOCKET NUMBER: 50-440

LICENSE NUMBER: NPF-58

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I. Occupational Radiation Exposure Summary Report

Enclosed in this section is the 1994 Annual Occupational Exposure Summary Report required by Technical Specification 6.9.1.5.a of Appendix A to the Perry Unit 1 Operating License. The following work Categories were grouped as indicated below:

STATION     Perry Nuclear Power Plant Department, Site Protection Section  
                 of the Perry Nuclear Services Department

UTILITY     Perry Nuclear Assurance Department, Perry Nuclear Engineering  
                 Department, other Sections of the Perry Nuclear Services  
                 Department, and CEI support personnel

OTHER       Contractor, Consultant, Centerior, Davis-Besse, and other  
                 support personnel

1994 ANNUAL EXPOSURE REPORT  
REGULATORY GUIDE 1.16 APPENDIX A SUMMARY

WORK CATEGORY	JOB CATEGORY	# PERSONS >= 0 MREM				TOTAL MAN-REM		
		STATION	UTILITY	OTHER		STATION	UTILITY	OTHER
REACTOR OPER. & SURVEILLANCE	MAINTENANCE	132	63	502		1.090	0.085	9.111
	OPERATIONS	278	39	10		23.211	1.026	0.771
	HEALTH PHYSICS	58	23	213		7.618	1.184	26.650
	SUPERVISORY	3	2	34		0.034	0.007	0.279
	ENGINEERING	8	141	66		0.269	1.272	0.722
ROUTINE MAINTENANCE	MAINTENANCE	179	127	1510		23.544	6.716	255.248
	OPERATIONS	308	47	32		8.832	0.330	1.089
	HEALTH PHYSICS	61	26	246		4.633	0.710	18.144
	SUPERVISORY	4	3	64		0.005	0.000	0.483
	ENGINEERING	19	226	211		0.275	7.356	18.593
INSERVICE INSPECTION	MAINTENANCE	59	10	701		0.400	0.271	46.431
	OPERATIONS	62	6	7		1.199	0.180	0.160
	HEALTH PHYSICS	15	4	68		0.267	0.058	1.092
	SUPERVISORY	0	0	7		0.000	0.000	0.102
	ENGINEERING	4	60	73		0.157	2.412	9.608
SPECIAL MAINTENANCE	MAINTENANCE	110	46	785		5.385	0.120	67.185
	OPERATIONS	103	4	5		1.860	0.027	0.096
	HEALTH PHYSICS	30	8	97		1.290	0.084	2.745
	SUPERVISORY	1	0	2		0.000	0.000	0.004
	ENGINEERING	5	61	59		0.024	1.911	1.938
WASTE PROCESSING	MAINTENANCE	105	58	370		0.068	4.563	4.749
	OPERATIONS	70	9	3		3.325	0.009	0.010
	HEALTH PHYSICS	48	19	166		2.491	1.791	3.554
	SUPERVISORY	0	1	2		0.000	0.000	0.000
	ENGINEERING	2	24	4		0.005	0.085	0.015
REFUELING	MAINTENANCE	96	51	690		19.386	1.204	68.225
	OPERATIONS	133	9	8		21.369	2.540	0.604
	HEALTH PHYSICS	29	19	144		1.201	0.377	6.893
	SUPERVISORY	1	0	2		0.002	0.000	0.032
	ENGINEERING	6	76	35		0.647	4.655	1.238
TOTALS	MAINTENANCE	681	355	4558		49.873	12.959	450.949
	OPERATIONS	954	114	65		59.796	4.112	2.730
	HEALTH PHYSICS	241	99	934		17.500	4.204	59.078
	SUPERVISORY	9	6	111		0.041	0.007	0.900
	ENGINEERING	44	588	448		1.377	17.691	32.114
GRAND TOTALS		1929	1162	6116		128.587	38.973	545.771

Note:

MAN-REM is based on Direct Reading Dosimeter Readings.

# Persons is based on number of unique individuals signing in on any 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 individual signing in on corresponding RWP.



## II. SAFETY/RELIEF VALVE CHALLENGES

The attached report includes all actuations during the 1994 year. During Refuel Outage #4 all the SRVs were removed and replaced with refurbished valves. Prior to declaring the newly installed valves operable, per Technical Specifications 4.0.5, each valve was tested as required by SVI B21-T2005, "SRV Exercise Test."

On February 25 and 26, two SRVs, 1B21-F051C and 1B21-F051D, were unexpectedly opened. Each valve was actuated four times. The plant was shutdown for Refuel Outage #4. Licensee Event Report (LER) 94-008 rev. 0 was submitted to the NRC as a voluntary report.

This information is submitted in accordance with Technical Specification 6.9.1.5.b of Appendix A to Operating License NPF-58 for the Perry Nuclear Power Plant, Unit 1.

Included as an SRV "challenge" are the following actions/events.

1. The SRV being physically operated by the manual control switch in the control room.
2. The SRV automatically lifts per design pressure limit when installed in the plant.

SAFETY/RELIEF ACTUATIONS DURING 1994

DATE-2/25/94 & 2/26/94

DATE-7/25/94 & 7/26/94

<u>VALVE NUMBER</u>	<u>VALVE NUMBER</u>
1B21-F041A	1B21-F041B
1B21-F041C*	1B21-F041D
1B21-F041E	1B21-F041F
1B21-F041G	1B21-F041K
1B21-F047B	1B21-F047D
1B21-F047F*	1B21-F047G
1B21-F047H	1B21-F051A
1B21-F051B	1B21-F051C**
1B21-F051D**	1B21-F051G
1B21-F047C	

\*These two valves were actuated three times during the test, all other valves were actuated twice.

\*\*These two valves were both actuated unexpectedly on 2/25 for 1B21-F051C and 2/26 for 1B21-F051D. The number of actuations for each valve was four, a total of eight actuations.

### III. Reactor Coolant System Specific Activity Analysis

During 1994 there were no occurrences in which Technical Specification 3.4.5, "Specific Activity", Limiting Condition for Operation was exceeded. This information is submitted in accordance with Technical Specification 6.9.1.5.c.

### IV. Silicone Sealant Inspections

In accordance with commitments made in response to License Commitment 17 of the USAR Appendix 1B (reference letter PY-CEI/NRR-0703L dated August 27, 1987 from Murray R. Edelman) the following summary report is provided. During the Perry Unit 1 fourth refueling outage (February 5, 1994 - August 14, 1994) 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, with acceptable results. The results of the duct specimen leak test showed that no additional air leakage was present than previously identified in the original test.

A walkdown of representative portions of Engineered Safety Feature (ESF) ventilation systems [Annulus Exhaust Gas Treatment (M15), Control Room HVAC (M25) and Fuel Handling Building Ventilation (M40)] was conducted and the exposed exterior silicone sealants were inspected, also with acceptable results.