

1998 Annual Operating Report

1.0 INTRODUCTION

Plant Description

Indiana Michigan Power Company is the licensee of the Donald C. Cook Nuclear Plant. The plant is located north of Bridgman, Michigan. The plant consists of two nuclear units, each employing a Westinghouse pressurized water reactor nuclear steam supply system. Each reactor unit employs an ice condenser reactor containment system. The American Electric Power Service Corporation was the architect-engineer and constructor.

Units 1 and 2 reactor licensed power levels are 3250 Mwt and 3411 Mwt, respectively. The main condenser cooling method is open cycle using Lake Michigan water as the cooling source for each unit.

Both units remained shutdown the entire 1998 calendar year to resolve design basis concerns identified during a NRC Architect and Engineering inspection.

2.0 PERSONNEL RADIATION EXPOSURE SUMMARY

The Regulatory Guide 1.16 Report (Page 2 of this attachment) provides a summary of the number of station, utility, and contractor/other personnel receiving exposures greater than 100 millirem (mr) in 1998. This estimated dose is based on electric dosimetry and reported in accordance with Regulatory Guide 1.16. The total record dose, as measured by thermoluminescent dosimetry for all personnel, was 104.630 rem.

The values shown in the individual categories (routine maintenance, etc.) represent the number of people who received greater than 100 mr in that particular category. The grand total figure represents the total number of people who received 100 mr, whether in one of the categories or multiple categories. A specific person could receive dose in two or more categories and still would be counted in the grand total. The summation of the totals in the individual categories would not necessarily equal the grand total.

Reg Guide 1.16 Report
INDIANA MICHIGAN POWER / COOK NUCLEAR PLANT
Prepared for Year 1998

Number of Personnel and Man-Rem By Work and Job Function

	Number of Personnel > 100 mrem			Total Man-Rem		
	Station Employees	Utility Employees	Contractors and Others	Station Employees	Utility Employees	Contractors and Others
Reactor Operation & Surveillance						
-Maintenance	1	0	0	0.312	0.000	0.048
-Operations	8	0	0	4.065	0.040	0.069
-Health Physics	0	0	0	0.033	0.000	0.007
-Supervisory	0	0	0	0.005	0.000	0.007
-Engineering	0	0	0	0.041	0.000	0.007
Routine Maintenance						
-Maintenance	11	0	155	6.117	0.022	57.793
-Operations	0	1	2	1.273	0.178	1.712
-Health Physics	26	0	3	6.784	0.002	1.092
-Supervisory	1	0	0	0.121	0.000	0.116
-Engineering	2	0	2	1.289	0.069	2.361
Inservice Inspection						
-Maintenance	0	0	15	0.026	0.000	3.616
-Operations	0	0	0	0.247	0.000	0.019
-Health Physics	0	0	0	0.022	0.000	0.006
-Supervisory	0	0	0	0.000	0.000	0.000
-Engineering	0	0	0	0.028	0.000	0.002
Special Maintenance						
-Maintenance	0	0	49	0.814	0.030	24.559
-Operations	0	0	2	0.335	0.001	0.529
-Health Physics	0	0	0	0.277	0.001	0.083
-Supervisory	0	0	0	0.015	0.000	0.042
-Engineering	0	0	0	0.144	0.017	0.720
Waste Processing						
-Maintenance	0	0	0	0.001	0.000	0.045
-Operations	0	0	1	0.011	0.000	0.204
-Health Physics	9	0	0	2.253	0.000	0.265
-Supervisory	0	0	0	0.000	0.000	0.000
-Engineering	0	0	0	0.017	0.000	0.054
Refueling						
-Maintenance	0	0	0	0.000	0.000	0.000
-Operations	0	0	0	0.000	0.000	0.000
-Health Physics	0	0	0	0.000	0.000	0.000
-Supervisory	0	0	0	0.000	0.000	0.000
-Engineering	0	0	0	0.000	0.000	0.000
Totals						
-Maintenance	13	0	212	7.269	0.052	86.061
-Operations	16	1	5	5.931	0.219	2.534
-Health Physics	36	0	3	9.368	0.002	1.452
-Supervisory	1	0	0	0.140	0.001	0.165
-Engineering	2	0	2	1.520	0.086	3.144
Grand Totals						
	68	1	222	24.228	0.360	93.356

3.0 STEAM GENERATOR INSPECTIONS

During 1998, there were no Steam Generator tube in-service inspections performed on either Unit 1 or Unit 2.

4.0 CHALLENGES TO PRESSURIZER POWER OPERATED RELIEF VALVES (PORVs) AND SAFETY VALVES

During 1998, there were no challenges on either Unit 1 or Unit 2 to the pressurizer PORVs, or the pressurizer safety valves.

5.0 REACTOR COOLANT SPECIFIC ACTIVITY

During 1998, there were no instances on either Unit 1 or Unit 2 in which the reactor coolant dose equivalent I-131 specific activity exceeded the limits of Technical Specification 3.4.8 (greater than or equal to 1 $\mu\text{Ci/g}$). Compliance was determined by routine gamma spectrometry analysis of reactor coolant per procedure 12-THP 6020 INS.026, "Gamma Spectroscopy System."

COMMITMENTS

The following table identifies those actions committed to by Indiana Michigan Power Company (I&M) in this submittal. Other actions discussed in the submittal represent intended or planned actions by I&M. They are described to the Nuclear Regulatory Commission (NRC) for the NRC's information and are not regulatory commitments.

Commitment	Date
In accordance with the requirements of 10 CFR 50.59(b)(2), the brief description of changes, tests and experiments including a summary of the safety evaluations, normally submitted with this annual operating report, will instead be provided as part of the FSAR updates required by 10 CFR 50.71(e).	7/22/1999