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February 28, 1997

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U.S. Nuclear Regulatory Commission
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February 28, 1997

Gentlemen:

Donald C. Cook Nuclear Plant Units 1 and 2
1996 ANNUAL OPERATING REPORT

Paragraph 6.9.1.5 of the Donald C. Cook Nuclear Plant Technical Specifications requires that an annual report be submitted to address personnel exposure, steam generator in-service inspection results, challenges to power-operated relief and safety valves, and information regarding I-131 reactor coolant activity. In addition, 10 CFR 50.59(b)(2) requires submittal of an annual report describing changes, tests, and experiments made in the preceding year. Consistent with these requirements, a copy of the Cook Nuclear Plant 1996 Annual Operating Report is contained in attachment 1.

Sincerely,

E. E. Fitzpatrick
Vice President

jen

Attachment

cc: A. A. Blind
A. B. Beach
MDEQ DW & RPD
NRC Resident Inspector
J. R. Padgett

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1.0 INTRODUCTION

1.1 PLANT DESCRIPTION

The Donald C. Cook Nuclear Plant is owned by Indiana Michigan Power Company and is located north of Bridgman, Michigan. The plant consists of two nuclear power 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.

2.0 PERSONNEL RADIATION EXPOSURE SUMMARY

Table 1 provides a summary of the number of station, utility, and contractor/other personnel receiving exposures greater than 100 millirem in 1996. The total record dose for all personnel was 216.325 rem as measured by thermoluminescent dosimetry (TLD) and reported in accordance with Regulatory Guide 1.16.

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