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INTERIM REPORT

ACCESSION NO.

ORNL/MCD/NEES-80/3

Project Title:

Type of Document:

Author(s), Affiliation, and Address:

Nondestructive Examination Evaluation Report

Monthly Frogress Report March 1980

J. H. Smith Metals and Ceramics Division*

Date of Document:

NRC Individual and NRC Office or Division to Whom Inquiries Should be Addressed: April 7, 1980

D. Sellers Materials Engineering

This document was prepared primarily for preliminary or internal use. It has not received full review and approval. since there may be substantive changes, this document should not be considered final.

> Prepared for U.S. Nuclear Regulatory Commission Washington, D.C. 20555 Under Interagency Agreement DOE 40-544-75 NRC FIN No. B0233

> > *Oak Ridge National Laboratory Oak Ridge, Tennessee 37830 operated by Union Carbide Corporation for the U.S. Department of Energy

INTERIM REPORT

NRC Research and Technical Assistance Report

Monthly Report for March 1980

PROGRAM TITLE: Nondestructive Examination Evaluation Report PROGRAM MANAGER: Robert W. McClung ACTIVITY NUMBER: ORNL 41 88 54 40 4 (FIN No. B0233)/B&R No. 20 19 01 02 OBJECTIVE:

To provide an independent evaluation of the results of nondestructive examination on components of operating nuclear power plants and of the state-of-the-art NDE techniques, and to provide recommendations for alternate and improved inspection techniques.

TECHNICAL HIGHLIGHTS:

During the past month, program personnel, at NRC request, made several visits to Bethesda or reactor sites to review examination procedures and data, and to observe performance of examinations. The following is a brief summary.

A visit was made to Bethesda, Maryland, to review ultrasonic inspection data for underclad cracking in the reactor vessel nozzles at Sequoyah, unit 1. The testing was conducted by Westinghouse. A memo was written to R. M. Gamble (NRC) providing an evaluation of the ultrasonic inspection procedure and the data obtained.

A trip was made to the Pilgrim reactor at Plymouth, Massachusetts, to observe the ultrasonic inspection of turbine wheels by General Electric personnel. A report summarizing the visit was written to V. Noonan. A meeting was attended at Bethesda at which representatives of General Electric Company described the results of ultrasonic inspections of turbines at the Dresden and Pilgrim reactor sites. A report summarizing this meeting, including an evaluation the data presented, was written to V. Noonan.

A trip was made to the Point Beach reactor to observe and review eddycurrent inspection of the steam generators by Westinghouse and Zetec personnel. A trip report was written to R. W. McClung summarizing the visit.

> NRC Research and Technical Assistance Report

FINANCIAL STATUS: (\$000)

Financial Plan FY 1980											78
Costs through Febr	cua	iry	,							19	
Costs in March .										12.2	
Total										31.2	
Balance											46.8

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ORNL/MCD/NEES-80/3

INTERNAL DISTRIBUTION

- 1. K. K. Klindt
- 2. R. W. McClung
- 3. F. R. Mynatt
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- 7-8. Technical Information Center, DOE, Oak Ridge, TN 37830
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 - D. Sellers, Section A, Engineering Branch, Division of Operating Reactors, U.S. Nuclear Regulatory Commission, Mail Stop 440, Washington, DC 20555
- V. Noonan, Engineering Branch Chief, Division of Operating Reactors, U.S. Nuclear Regulatory Commission, Mail Stop 440, Washington, DC 20555
- 12-13. Division of Technical Information and Document Control, U.S. Nuclear Regulatory Commission, 7920 Norfolk Avenue, Bethesda, MD 20012