

INTERIM REPORT

April 30, 1980

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Contract Program or Project Title: LWR In-Plant Measurement Program

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Author(s): John W. Mandler

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Responsible NRC Individual and NRC Office or Division: _____

Donald E. Solberg, Chief, Systems Performance Research Branch, SAFER:RES

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.

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INTERIM REPORT

NRC Research and Technical
Assistance Report

April 17, 1980

Mr. R. E. Wood, Director
Energy and Technology Division
Idaho Operations Office - DOE
Idaho Falls, ID 83401

TRANSMITTAL OF MARCH, 1980 MONTHLY PROGRESS REPORT FOR LWR IN-PLANT
MEASUREMENT PROGRAM - Mand-16-80

Dear Mr. Wood:

Attached is the monthly progress report for the LWR In-Plant Measurement
Program (project No. A6075) for the month of March, 1980.

Sincerely yours,

John W. Mandler

John W. Mandler
Applied Physics Branch

jr

Attachment:
As stated

cc: B. R. Dickey, ENICO
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NRC Research and Technical
Assistance Report

TECHNICAL PROGRAM PROGRESS REPORT

Idaho

Physics Division

March 1980

OPERATIONS OFFICE

DIVISION

PERIOD REPORTED

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Environmental and Fuel Cycle Research

J. W. Mandler/4-17-80

ACTIVITY NO.

ACTIVITY TITLE

PREPARED BY/DATE

A6075

Source Term Measurements at PWR's

I-399

CONTRACTOR PROJ. NO.

PROJECT TITLE

REF (PROJ PROPOSAL
DOE-189)TECHNICAL PROGRESSAchievements This Month:A. Program Planning and Measurements

1. Summary Report:

Work on the summary report continued during March. Most of the data analysis has been completed and writing of the individual sections of the report has begun. Work is continuing on a schedule which will enable a draft version of the report to be completed by 7/1/80.

2. Remote Monitoring Subtask:

Work on this subtask continued during March. Mr. A. Miller (EPRI) visited the INEL during March to discuss remote monitoring and potential EPRI involvement in the development of remote monitoring and demonstration of state-of-the-art remote monitoring techniques at an operating nuclear power reactor. INEL suggested several areas of involvement appropriate for EPRI. Mr. Miller will discuss these areas with other EPRI personnel.

3. Radionuclide Transport Subtask:

Work on the subtask to assess current knowledge about radionuclide transport around the primary system of a reactor continued during the month.

4. Fifth PWR:

Selection of the fifth PWR to be studied has not yet been made. Maine Yankee, which was previously selected to be the fifth PWR, is currently scheduled to undergo its next refueling during Spring of 1981. It would be preferable if the fifth PWR would undergo refueling somewhat (3-4 months) earlier. Other candidates that have been suggested are Palisades (C-E), Arkansas Nuclear One (B&W), and Trojan (W). These alternates will be discussed with the NRC during a meeting to be held during the end of April.

B. Reports Issued This Month

None.

TECHNICAL PROGRAM PROGRESS REPORTIdaho

OPERATIONS OFFICE

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DIVISION

March 1980

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C. Expenditures

	<u>Budget</u>	<u>Actual</u>
March, 1980:	\$50.0K	\$57.1K
FY 1980 to date:	\$285.0K	\$340.4K

The reason the actual expenditures exceed the budget is because several In-Plant Measurement Program personnel are working with the NRC Lessons Learned Task Force. A portion of the cost for this effort is temporarily being paid for out of the In-Plant Source Term Measurement Program funds. Partial reimbursement to the In-Plant Source Term Measurement Program was made in March and full reimbursement is expected at a later date.

D. Expected Accomplishments Next Month

1. Continue preparation of the summary report.
2. Continue review of technique development for remote monitoring subtask.
3. Continue work on subtask concerning radionuclide transport in reactor primary system.