

INTERIM REPORT

August 11, 1980

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Date of Document: July 14, 1980

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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Prepared for  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

NRC FIN No. A6075

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INTERIM REPORT

NRC Research and Technical  
Assistance Report

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July 14, 1980

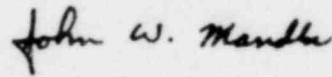
Mr. R. E. Wood, Director  
Energy and Technology Division  
Idaho Operations Office - DOE  
Idaho Falls, ID 83401

TRANSMITTAL OF JUNE, 1980 MONTHLY PROGRESS REPORT FOR LWR IN-PLANT  
MEASUREMENT PROGRAM - Mand-30-80

Dear Mr. Wood:

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

Sincerely yours,



John W. Mandler  
Applied Physics Branch

jr

Attachment:  
As stated

cc: B. R. Dickey, ENICO  
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**TECHNICAL PROGRAM PROGRESS REPORT**

<b>Idaho</b> OPERATIONS OFFICE	<b>Physics Division</b> DIVISION	<b>June 1980</b> PERIOD REPORTED
<b>40 10 01 064</b> ACTIVITY NO	<b>Environmental and Fuel Cycle Research</b> ACTIVITY TITLE	<b>J. W. Mandler/7-14-80</b> PREPARED BY DATE
<b>A6075</b> CONTRACTOR PROJ. NO	<b>Source Term Measurements at PWR's</b> PROJECT TITLE	<b>I-399</b> REF (PROJ PROPOSAL L OE-169)

**TECHNICAL PROGRESS****Achievements This Month:****A. Program Planning and Measurements****1. Summary Report:**

Work on the summary report was completed during June and a draft version of the report was submitted to the NRC for review and comments.

**2. Remote Monitoring Subtask:**

The major emphasis of the work on this task during June was organization of the workshop on remote monitoring that was requested by the NRC. Reactor vendors and other laboratories currently working in the area of remote monitoring of primary coolant have been contacted. The response has been favorable for a workshop to be held during the latter part of August or early September.

**3. Radionuclide Transport Subtask:**

Work on this task continued during June. The major emphasis has been a literature search and discussions with personnel at other laboratories to determine the current knowledge of radionuclide transport around the primary system of a reactor.

**4. Fifth PWR:**

Investigation of the suitability of various reactors as candidates for the fifth PWR to be studied continued during June. The NRC is currently investigating the possibility of making Prairie Island the fifth PWR. Development of the general measurement plan to be pursued at the fifth PWR was initiated during June. This plan will include measurements recommended in the summary report and those discussed with NRC representatives on 4/30/80.

Routine maintenance and necessary repairs to instruments and equipment required before beginning measurements at the fifth PWR continued during June.

NRC Research and Technical  
Assistance Report

## TECHNICAL PROGRAM PROGRESS REPORT

Idaho

Physics Division

June 1980

OPERATIONS OFFICE

DIVISION

PERIOD REPORTED

B. Reports Issued This Month

"In-Plant Source Term Measurements at Four PWR's," EG&G Idaho, Exxon Nuclear Idaho Company, and Science Applications, Inc.

C. Expenditures

	<u>Budget</u>	<u>Actual</u>
June, 1980	\$55K	\$ 44.8K
FY 1980 to date	\$445K	\$420.1K

D. Expected Accomplishments Next Month

1. Continue preparations for measurements at fifth PWR. This includes selection of the fifth PWR, development of the measurement plan, and repair and maintenance of instruments and equipment.
2. Continue review of technique development for remote monitoring subtask and organization of workshop to be held later this summer.
3. Continue work on subtask concerning radionuclide transport in reactor primary system.