

INTERIM REPORT

July 11, 1980

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Contract Program or Project Title: \_\_\_\_\_

LWR In-Plant Measurement Program

Subject of this Document: Progress reported for May 1980

Type of Document: Informal monthly progress report

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Date of Document: June 24, 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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June 24, 1980

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

TRANSMITTAL OF MAY, 1980 MONTHLY PROGRESS REPORT FOR LWR IN-PLANT  
MEASUREMENT PROGRAM - Mand-23-80

Dear Mr. Wood:

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

Sincerely yours,

John W. Mandler  
Applied Physics Branch

jr

Attachment:  
As stated

cc: B. R. Dickey, ENICO  
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NRC Research and Technical  
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**TECHNICAL PROGRAM PROGRESS REPORT**

|                                     |                                                                |                                                  |
|-------------------------------------|----------------------------------------------------------------|--------------------------------------------------|
| <u>Idaho</u><br>OPERATIONS OFFICE   | <u>Physics Division</u><br>DIVISION                            | <u>May 1980</u><br>PERIOD REPORTED               |
| <u>40 10 01 064</u><br>ACTIVITY NO. | <u>Environmental and Fuel Cycle Research</u><br>ACTIVITY TITLE | <u>J. W. Mandler/6-24-80</u><br>PREPARED BY/DATE |
| <u>A6075</u><br>CONTRACTOR PROJ NO  | <u>Source Term Measurements at PWR's</u><br>PROJECT TITLE      | <u>I-399</u><br>REF (PROJ PROPOSAL<br>DOE-189)   |

TECHNICAL PROGRESSAchievements This Month:A. Program Planning and Measurements1. Summary Report:

Work on the summary report continued during May. A draft version of the report was completed and is currently being reviewed. The report will be completed and submitted to the NRC by the end of June.

2. Remote Monitoring Subtask:

Work on this task continued during May. The major emphasis of the work was to begin organization of the workshop on remote monitoring that was requested by the NRC.

3. Radionuclide Transport Subtask:

The literature search to assess current knowledge about radionuclide transport around the primary system of a reactor continued during May.

4. Fifth PWR:

Investigation of the suitability of Prairie Island, Crystal River, and Point Beach as candidates for the fifth PWR to be studied was initiated during May. The FSAR's for the plants were obtained and the P&ID's were studied. Currently, of the three plants, Prairie Island appears to be the most suitable.

Routine maintenance and necessary repairs to instruments and equipment (including the NRC Mobile Laboratory) were initiated during May. This maintenance and repairs are necessary before the equipment can be used at the fifth PWR.

B. Reports Issued This Month

None

## TECHNICAL PROGRAM PROGRESS REPORT

Idaho

OPERATIONS OFFICE

Physics Division

DIVISION

May 1980

PERIOD REPORTED

C. Expenditures

|                 | <u>Budget</u> | <u>Actual</u> |
|-----------------|---------------|---------------|
| May, 1980       | \$55K         | \$40.0K       |
| FY 1980 to date | \$390K        | \$375.3K      |

D. Expected Accomplishments Next Month

1. Complete summary report and submit it to the NRC for review and comments.
2. Continue review of technique development for remote monitoring subtask and continue organization of workshop to be held this summer.
3. Continue work on subtask concerning radionuclide transport in reactor primary system.
4. Continue review of candidates for the fifth PWR to be studied and repair and maintenance of equipment to be used at the fifth PWR.