

DEC 6 1979

INTERIM REPORT

Accession No. _____

Contractor's Report No. _____

Contract Program or Project Title: LWR Source Term Measurements Program

Subject of this Document: Progress reported for November 1979

Type of Document: Informal monthly progress report

Author(s): J. W. Mandler

Date of Document: November 20, 1979

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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NRC FIN No. A6075

NRC Research and Technical
Assistance Branch

INTERIM REPORT

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November 20, 1979

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

TRANSMITTAL OF OCTOBER, 1979 MONTHLY PROGRESS REPORT FOR LWR IN-PLANT
MEASUREMENT PROGRAM - Mand-40-79

Dear Mr. Wood:

Attached is the monthly progress report for the LWR In-Plant Measurement
Program (project No. A6075) for the month of October, 1979..

Sincerely yours,

John W. Mandler

John W. Mandler
Applied Physics Branch

jr

Attachment:
As stated

- cc: B. R. Dickey, ENICO
- W. A. Emel, ENICO
- C. E. Gilmore, DOE-ID
- J. Y. Lee, NRC
- G. D. McPherson, NRC
- B. G. Motes, ENICO
- D. E. Solberg, NRC
- G. L. Vivian, DOE-ID
- R. W. Kiehn, EG&G Idaho

1599 007

TECHNICAL PROGRAM PROGRESS REPORT

Idaho OPERATIONS OFFICE	Physics Division DIVISION	October, 1979 PERIOD REPORTED
40 10 01 064 ACTIVITY NO	Environmental and Fuel Cycle Research ACTIVITY TITLE	J. W. Mandler/11-20-79 PREPARED BY DATE
A6075 CONTRACTOR PROJ. NO	Source Term Measurements at PWR's PROJECT TITLE	I-399 REF (PROJ PROPOSAL DOE-189)

TECHNICAL PROGRESS

Achievements This Month:

A. Program Planning and Measurements

1. Rancho Seco Station:

Writing of the final report for the measurements made at Rancho Seco continued during October. The main emphasis of the work was the revision of the individual sections concerning the gaseous measurements. The sections concerning the liquid measurements were completed during September. Review of these revisions will begin in November.

2. Turkey Point Station:

Revision of the final report for the measurements made at Turkey Point continued during October. Revision of the sections concerning the liquid measurements were completed during September. It is anticipated that the remaining revisions will be completed during December.

3. Three Mile Island:

Although it is anticipated that the emphasis of the In-Plant Measurement Program will be redirected to Three Mile Island (TMI) related studies, the NRC has not yet defined the scope of these studies. It is anticipated that the TMI related studies will be defined during the next several months.

4. Remote Monitoring Subtask:

During a meeting between D. Solberg and P. Grant (NRC), B. Motes (ENICO), and J. Mandler (EG&G Idaho) on 10/23/79, a subtask concerning remote monitoring of reactor coolant was added to the program. It was decided that a literature search be conducted to determine the state-of-the-art of applicable remote monitoring technology. A report summarizing the available technology and outlining recommendations concerning implementation of remote monitoring in commercial power reactors will be issued during May, 1980.

1599 008

TECHNICAL PROGRAM PROGRESS REPORT**Idaho**

OPERATIONS OFFICE

Physics Division

DIVISION

October 1979

PERIOD REPORTED

5. Fifth PWR:

During a meeting between D. Solberg and R. Bangart (NRC), B. Motes (ENICO), and J. Mandler (EG&G Idaho) held on 10/23/79, the possibility of performing in-plant measurements at a fifth PWR was discussed. Neither the scope of the measurements nor the time schedule were finalized, however, these measurements are not expected to begin until late spring or summer of 1980.

6. Summary Report:

Work on the summary report proceeded during October. The main emphasis during the month was on analysis, correlation, and interpretation of the data obtained at all four PWR's investigated.

B. Reports Issued This Month

"Advanced Mobile Multi-Processor Gamma-Ray Acquisition and Analysis System," draft report prepared by EG&G Idaho, Inc., that describes the new data acquisition and analysis system which has been installed in the NRC Mobile Laboratory.

C. Expenditures

October, 1979: \$30.1K

FY 1980 to date: \$30.1K

D. Expected Accomplishments Next Month

1. Continue review and revision of final report for measurements made at Rancho Seco.
2. Continue data analysis, correlation, and interpretation and preparation of report summarizing studies made at four PWR's.

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