

September 14, 1979

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

TRANSMITTAL OF AUGUST, 1979 MONTHLY PROGRESS REPORT FOR LWR SOURCE
TERM MEASUREMENTS PROGRAM - Mand-31-79

Dear Mr. Wood:

Attached is the monthly progress report for the LWR Source Term
Measurements Program (project No. A6075) for the month of August, 1979.
Included in this report are the activities being performed in support
of the NRC at Three Mile Island.

Sincerely yours,

John W. Mandler

John W. Mandler
Applied Physics Branch

jr

Attachment:
As stated

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

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NRC Research and Technical
Assistance Report

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TECHNICAL PROGRAM PROGRESS REPORT

Idaho

OPERATIONS OFFICE

Physics Division

DIVISION

August, 1979

PERIOD REPORTED

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ACTIVITY NO.

A6075

CONTRACTOR PROJ. NO.

Environmental and Fuel Cycle Research

ACTIVITY TITLE

Source Term Measurements at PWR's

PROJECT TITLE

J. W. Mandler/9-14-79

PREPARED BY/DATE

I-399

REF. (PROJ. PROPOSAL
DOE-189)TECHNICAL PROGRESSAchievements 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 August. The individual sections written by the subsystem engineers were integrated into the report and the liquid and gaseous portions of the report were reviewed by EG&G and ENICO Source Term program managers, respectively. Revisions of the individual sections of the report were then initiated. It is anticipated that the full report will be ready for review by the end of September.

2. Turkey Point Station:

Revision of the final report for the measurements made at Turkey Point continued during August.

3. Three Mile Island:

The activities performed in support of the NRC at Three Mile Island (TMI) were completed during August. The routine counting ended on 8/15/79, and the Mobile Laboratory was shipped back to INEL. The study to locate and identify the sources of airborne ^{131}I activity in the auxiliary building was concluded on 8/24/79 with the completion of the helium measurements performed for sample validation purposes.

Although the services of Source Term personnel are no longer needed at TMI, the Mobile Laboratory will be kept in operational status so that it can return to TMI on short notice if the situation arises.

4. Final Report:

Work on the final report (formerly the interim report) proceeded during August. This report will summarize the results of the studies at Fort Calhoun, Zion, Turkey Point, and Rancho Seco.

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5. Redirection of the Source Term Program:

Due to redirection of the In-Plant Source Term Measurement Program, plans to make measurements at Maine Yankee and a sixth PWR have been canceled. In the future, efforts will be directed to TMI related studies and other special studies. These studies have not yet been defined in detail.

B. Reports Issued This Month

None.

C. Expenditures

Expenditures for TMI activities

August, 1979: \$20.8K

FY 1979 to date: \$195.1K

Total expenditures

August, 1979: \$49.0K

FY 1979 to date: \$798.6K

D. Expected Accomplishments Next Month

1. Continue preparation of final report for measurements made at Rancho Seco.
2. Continue preparation of final report summarizing studies made at four PWR's.

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INTERIM REPORT

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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

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.

EG&G
P.O. Box 1625
Idaho Falls, Idaho 83401

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Washington, D.C. 20555

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NRC Research and Technical
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INTERIM REPORT

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