

LETTER REPORT

December 5, 1980

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Responsible NRC Individual and NRC Office or Division _____

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NRC FIN NO. A6075

LETTER REPORT

8012110

NRC Research and Technical
Assistance Report

551

November 12, 1980

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

TRANSMITTAL OF OCTOBER, 1980 MONTHLY PROGRESS REPORT FOR LWR IN-PLANT
MEASUREMENT PROGRAM - Mand-51-80

Dear Mr. Wood:

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

Sincerely yours,

John W. Mandler

John W. Mandler
Applied Physics Branch

jr

Attachment:
As stated

cc: R. Bangart, NRC
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NRC Research and Technical
Assistance Report

TECHNICAL PROGRAM PROGRESS REPORT

Idaho

Physics Division

October 1980

OPERATIONS OFFICE

DIVISION

PERIOD REPORTED

40 10 01 064

Environmental and Fuel Cycle Research

J. W. Mandler/11-12-80

ACTIVITY NO

ACTIVITY TITLE

PREPARED BY DATE

A-6075

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 Measurements1. Prairie Island Station:

During October major emphasis was placed on the initiation of measurements at Prairie Island. The mobile laboratory arrived at Prairie Island on 10/15/80 at which time setup and checkout of the systems began. Final checkout of the computer systems was completed on 10/23/80 and measurements were then initiated. By the end of the month samples had been obtained from the reactor coolant and letdown systems for both units, one of the boric acid evaporators (the other boric acid evaporator and the radwaste evaporator were not in operation), the demineralizer train in the boron recovery system, and the secondary system.

Iodine samplers were installed on 10/16/80 on the Unit #1 exhaust vent, Unit #2 exhaust vent, spent fuel pool exhaust, hot chemistry lab vent, sampling room vent, radwaste exhaust upstream of the filter bank, and radwaste exhaust downstream of the filter bank. Tritium-¹⁴C samples were also installed on Unit #1 main stack, Unit #2 main stack, and the spent fuel pool exhaust. The first set of air samples was obtained on 10/30/80.

An intensive sampling program will be conducted throughout November and early December and the results will be assessed to determine whether the radionuclide concentrations at Prairie Island are sufficiently high to allow program objectives to be met. The decision whether or not to remain at Prairie Island will be made by EG&G and NRC personnel during December.

2. Radionuclide Transport Subtask:

Internal review of the final report for this subtask was completed during October and the report was submitted to the NRC for review and comments.

B. Reports Issued This Month

"A Survey of Corrosion Product Generation, Release, Transport, and Deposition in Water-Cooled Commercial Nuclear Power Plants."

**EG&G**

Idaho, Inc.

FORM EG&G 446A
(Rev. 10-77)

TECHNICAL PROGRAM PROGRESS REPORT

Idaho

Physics Division

October 1980

OPERATIONS OFFICE

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C. Expenditures

October, 1980: \$56.0K; FY 1981 to date: \$56.0K.

D. Expected Accomplishments Next Month

1. Continue intensive measurement program at Prairie Island.
2. Develop and test new methods and procedures to increase radionuclide detection sensitivities.
3. Continue preparation of detailed measurement plan for Prairie Island.