

DISTRIBUTION:
 METB Docket File 50-334
 METB Docket File 50-220
~~METB Docket File 50-424~~
 METB Reading File
 SMBoyd
 BJGrenier
 WPGamill
 ISpickler
 JEFairobent

Mr. J. Van Ramsdell
 Pacific Northwest Laboratory
 P.O. Box 999
 Richland, WA 99352

MAR 06 1984

Dear Van:

SUBJECT: PROJECT 2, WORK ASSIGNMENT 2 (FIN B2537)

As we have discussed in our recent telephone conversations, enclosed is Work Assignment 2 for Project 2 ("Meteorological Data Tape and Computer Code Support") of the technical assistance contract, "Meteorological Data Assessment Program." This work assignment requests specific computer code support for three facilities (Reaver Valley, Vogtle and Nine Mile Point, Unit No. 2) in accordance with Task 2 of Project 2, as identified in the Statement of Work (SOW). My understanding of our verbal agreement is that the level of effort identified in the SOW is appropriate, and that selected computer runs can be expedited. The current licensing schedule for Reaver Valley requires PAVAN and/or XOODOO runs to be completed by the beginning of April 1984.

The initiation of this work assignment is contingent upon the successful completion of Work Assignment 1 on this project. Work Assignment 1 should be completed soon, with the effort on Work Assignment 2 to begin shortly thereafter.

Data and information for the three facilities covered by this work assignment are transmitted under separate cover. All costs associated with this work assignment are subject to fee recovery and should be reported as such in accordance with the requirements of the SOW.

Incremental funding in the amount of \$20,000 for this work assignment is being authorized under separate cover. If you have any questions concerning this work assignment, please call me at FTS 492-9427.

Sincerely,

Original signed by
 James E. Fairbent, Meteorologist

Enclosure:
 As stated

dlj

8501180463 840705
 PDR FOIA
 BELL84-463 PDR

OFFICE	DSI:RP:METB	DSI:RP:METB	DSI:RP:METB				
IRNAME	JFairobent:ds	ISpickler	WPGamill				16
DATE	03/05/84	03/6/84	03/6/84				

Project 2, Work Assignment 2
(FIN B2537)

BACKGROUND:

Development of staff input to safety evaluation reports and environmental impact statements requires analyses of hourly meteorological data, preparation of appropriate data summaries, and assessments of atmospheric transport and diffusion relative to both accidental and routine releases of radioactive material from nuclear power plants. In addition, information about the frequency of tornadoes in the area of the plant must be compiled. A number of computer codes are used to perform these analyses and assessments.

OBJECTIVE:

The objective of this work assignment is to extract meteorological data from magnetic tapes, develop appropriate data summaries, and run specified computer codes to provide analyses and assessments required by the staff for safety evaluation reports and environmental impact statements. This work assignment covers technical assistance for three nuclear power plants: Beaver Valley; Vogtle; and Nine Mile Point, Unit No. 2.

WORK REQUIREMENTS:

As described in the Statement of Work for Task 2 of Project 2, perform the following tasks:

1. (Subtask 2a). Extract hourly meteorological data from magnetic tapes containing data for Beaver Valley, Vogtle and Nine Mile Point, Unit No. 2. (These tapes are provided under separate cover.)

2. (Subtask 2b). Assess the quality of the meteorological data for each facility through use of the computer codes contained in NUREG-0917. As a minimum, Program QA should be run, with other programs (e.g., MISS and PRECP) run at the discretion of the Principal Investigator.
3. (Subtask 2c). For each facility, generate appropriate data summaries for input to the models contained in PAVAN, XOQDOQ, CRAC1, and CRAC2.
4. (Subtask 2d). Generate short-term (accident) and long-term (routine) atmospheric dispersion estimates using computer codes PAVAN and XOQDOQ for each facility. Release characteristics, boundary distances, and receptor locations will be provided under separate cover. Atmospheric dispersion estimates for Beaver Valley are required by May 4, 1984.
5. (Subtask 2e). For each facility, generate tornado statistics for a one-degree latitude-longitude "square," for a two-degree latitude "square," and for a 50-mile circle centered at each plant. Latitude-longitude coordinates for each plant will be provided under separate cover. The period of record for examining tornado occurrences should begin in 1954 and end with the latest full year of data available (1981, 1982 or 1983).
6. (Subtask 2f). Provide copies of the computer code output to the Project Manager as the computer runs are completed and checked for validity. Letter reports should accompany the computer code output.

For example, at the completion of Item 2 (Subtask 2b) of this work assignment, for each facility, a letter report should be prepared to transmit the computer code output and this letter report should identify the computer codes which were run, provide the rationale for selection of the computer codes, and identify any unusual aspects or peculiarities of the meteorological data analyzed. Similar letter reports should be prepared as each item (subtask) of this work assignment is completed for each facility.

At the completion of this work assignment, for each facility, submit a letter report which describes the work performed and which provides an assessment of the data analyses and results of the computer codes. Copies of these letter reports should also be furnished to the Director, Division of Systems Integration, and Mr. W. P. Gammill, as described in the Statement of Work. All costs associated with this work assignment are subject to fee recovery and should be reported as such in accordance with the requirements of the Statement of Work.

MEETINGS AND TRAVEL:

No meetings or travel are anticipated for this work assignment.

NRC-FURNISHED MATERIAL:

The following information will be provided under separate cover:

- magnetic tapes containing hourly meteorological data, with appropriate identification of data format and tape attributes, for Beaver Valley, Vogtle, and Nine Mile Point, Unit No. 2.

- appropriate exclusion area boundary distances, the distance to the outer boundary of the low population zone, and the distances to pertinent receptors for radiological impacts of routine releases for the three facilities
- release and building characteristics for each facility
- appropriate terrain and other topographic information