

JUL 25 1983

MEMORANDUM FOR: R. S. Brown, Jr., Assistant to the Director
and Chief, Program Support Branch, NMSS

FROM: Peter Loysen, Project Officer
Advanced Fuel and Spent Fuel Licensing Branch
Division of Fuel Cycle and Material Safety, NMSS

SUBJECT: RFPA UNDER CONTRACT NO. NRC-02-83-035
TECHNICAL ASSISTANCE CONTRACT

Attached is a description of a task to be performed under Contract No.
NRC-02-83-035. Please execute a Request for Procurement Action.

FIN-B7396

"Evaluation of Impacts on Seismic Design Criteria for
the Union Carbide Corporation Facility at Tuxedo, New York"

We estimate three man-months effort for this task.

Original signed by
Peter Loysen

Peter Loysen, Project Officer
Advanced Fuel and Spent Fuel
Licensing Branch
Division of Fuel Cycle and
Material Safety, NMSS

Enclosure: Task Description

Distribution:
Docket 70-687
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DATE	7/14/83	7/14/83	7/12/83	7/12/83			

TASK DESCRIPTION
FOR
EVALUATION OF IMPACTS ON SEISMIC DESIGN CRITERIA
FOR THE UNION CARBIDE CORPORATION FACILITY
AT TUXEDO, NEW YORK
FIN -B7396

1.0 Background

The Union Carbide Corporation (UCC), Tuxedo, New York, by letter dated December 23, 1980, has applied for renewal of Materials License No. SNM-639. Activities conducted under this license are performed in a facility contiguous with the Union Carbide reactor (Docket No. 50-54).

The NRC staff intends to incorporate an assessment of the potential seismic impact on the SNM licensed activities at Tuxedo as a part of NRC's safety evaluation associated with the renewal of UCC's license. As part of this assessment the NRC staff needs assistance in reviewing information concerning the seismic response of structures and equipment necessary to the safe confinement of radioactivity. A description of the work requested follows.

2.0 Work Required

1. Step One

The Contractor will make one visit to the UCC site to review all pertinent engineering drawings related to structural components of the hot cells and examine accessible structures and equipment. The Contractor will consider all available information related to the effect of earthquakes on similar facilities. The Contractor will be provided with copies of all pertinent documents related to these issues. (See Attachment 1).

2. Step Two

The Contractor shall assess the earthquake impact on the hot cells and other confinement structures and equipment at the Tuxedo facility. The Contractor shall meet with the NRC Project Manager (PM) to discuss the results of the assessment.

3.0 Meetings

Two or three additional meetings may be called by the PM to discuss technical aspects of the seismic impact evaluation. It is anticipated that the location will be Silver Spring, MD or the offices of the Contractor.

4.0 Reports

The Contractor shall provide a report documenting the results of this task. The title of the report shall be "Assessment of the Expected Response of Structures, Systems and Components to Seismic Input at the Union Carbide Corporation facility at Tuxedo, New York."

ATTACHMENT 1

1. Endebrock, E.G., "Seismic Evaluation of Building 102 of the General Electric Vallecitos Nuclear Center," Los Alamos Scientific Laboratory, October 23, 1979.
2. "The Effects of Natural Phenomena on the General Electric Company, Vallecitos Nuclear Center at Pleasanton, California," NUREG-0866, Docket No. 70-754, Nuclear Regulatory Commission, December 1981.
3. "Seismic Risk Analysis for General Electric Plutonium Facility, Pleasanton, California - Part I," TERA Corporation - submitted to Lawrence Livermore Laboratory, July 31, 1978.
4. "Seismic Risk Analysis for General Electric Plutonium Facility, Pleasanton, California - Part II," TERA Corporation submitted to Lawrence Livermore Laboratory, June 27, 1980.
5. "Structural Condition Documentation and Structural Capacity Evaluation of Building 102 of the General Electric Company, Vallecitos Nuclear Center, Task II Structural Capacity Evaluation," EDAC-175-060.01, Engineering Decision Analysis Company, Inc. (EDAC) - prepared for Lawrence Livermore Laboratory, March 1978.
6. "Analysis of Structural Consequences of Fault Displacement Through RML Cells of Building 101 General Electric Nuclear Facility, Vallecitos California," EDAC 175-061.1, Engineering Decision Analysis Company, Inc. (EDAC) - prepared for Lawrence Livermore Laboratory, March 1978.