

April 21, 1998

MEMORANDUM TO: Jayne Halvorsen, Technical Assistance
Project Manager
Resource Management Branch, NMSS

FROM: Daniel M. Gillen, Assistant Branch Chief [Signed by]
Uranium Recovery Branch
Division of Waste Management, NMSS

SUBJECT: REQUEST TO SOLICIT A PROPOSAL FROM CNWRA FOR WORK
UNDER CONTRACT NRC-02-98-002, JOB CODE J5220

Attached is a Statement of Work (SOW) for evaluating the seismic stability of two Title II sites. This work is covered in the basic contract with CNWRA, Contract NRC-02-98-002, Job Code 5220, and may be designated as Task 3. Please take the necessary actions to request a proposal from CNWRA.

Should you have any questions, please call me at 415-7295, or Banad Jagannath at 415-6653.

Attachment: As stated

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DOCUMENT NAME: S:\DWM\URB\BNJ\FY98SEISSOW.f98 *See previous concurrence

OFC	URB		URB <i>Site</i>					
NAME	BJagannath*		DGillen					
DATE	04/17/98		04/21/98					

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

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TASK ORDER NO.

TITLE: SEISMIC REVIEWS FOR TITLE II SITES

JOB CODE

J5220

NRC ISSUING OFFICE

NMSS

NRC PROJECT MANAGER

JAYNE HALVORSEN, 415-6001

NRC TECHNICAL MONITOR

BANAD JAGANNATH, 415-6653

DOCKET NUMBER

N/A

TAC NUMBER

N/A

FEE RECOVERABLE

NO

1.0 BACKGROUND

Uranium Mill sites under license after November 8, 1978, are regulated under Title II of the Uranium Mill Tailings Radiation Control Act (UMTRCA), which amended the Atomic Energy Act. The reclamation (closure) plans for these sites should meet the requirements of 10 CFR 40, Appendix A, which are, in part, that reclamation of Uranium Mill tailings sites be conducted in accordance with a plan which provides reasonable assurance of long-term stability, and does not rely on active maintenance. Reclamation plans should provide stabilized embankments that maintain control of tailings under the effects of seismic forces which could reasonably be expected to occur. Given recently updated site-specific Peak Ground Accelerations (PGA) for the Rio Algom Lisbon, UT, and Homestake Mining Company Grants, NM, sites, the tailings embankments' stability at these sites need to be confirmed. CNWRA worked on this task in FY97, but could not complete it because of lack of needed site-specific information. This task is to complete the evaluation of the seismic stability of these two sites.

2.0 Objective

The objective is to confirm the stability of the tailings embankments under updated seismic loading. The CNWRA had reviewed available information provided by NRC and found the information to be lacking in details. The NRC shall provide additional information on the as-built condition of these sites. As these sites were licensed about 15 years ago, the available documentation of the site conditions may not be very detailed. The CNWRA has to use all of the available as-designed and as-built information, and evaluate the seismic stability. Participation in a teleconference with the licensee to obtain information on the site may be required. When design parameters are not available, the parameters may have to be assigned on the basis of professional judgment and information from literature. A sensitivity analysis may be necessary to justify the reasonableness of the assumed parameters and the resulting conclusion on the stability of the tailings embankments. CNWRA shall provide a written, final evaluation.

3.0 Technical Qualifications Required

The contractor shall provide the services of a geotechnical engineer who has the capability to evaluate PGA effects on the uranium mill tailings embankment. Familiarity with the NRC Standard Review Plan is required.

Attachment

4.0 Level of Effort

The estimated effort for each of the two evaluations in this task is 40 hours for the geotechnical engineering staff. This does not include time spent waiting for licensee responses or NRC and management reviews. The total estimated level of effort for this task is approximately 80 hours.

5.0 Period of Performance

This task order will commence on or about May 15, 1998 and will expire on September 25, 1998.

6.0 Scope of Work

The contractor shall use the Final Standard Review Plan for the Review of Remedial Action of Inactive Mill Tailings Sites Under Title I of UMTRCA, Revision 1, June 1993, and draft Standard Review Plan for the Review of Reclamation Plan for Mill Tailings Sites Under Title II Sites of UMTRCA (1998), and other current design guidance, in addition to discussions with NRC staff, to:

1. Evaluate the licensee's submittal on stability, including, as necessary:
 - a. revised configuration (if any)
 - b. previously-approved reclamation plan and as-built information
 - c. relevant geotechnical data and construction specifications
2. Perform sensitivity analyses, if needed
3. Prepare a draft report for the embankment stability verification (similar to a model report to be provided by NRC staff) presenting the contractor's findings for the design, including whether or not the design meets the standard, needs to be justified or redesigned, or needs supporting data (specify which data).
4. Finalize the report following NRC's review. The report should be provided as a hard copy, and in diskette form compatible with the WordPerfect 6.1 processing system.

7.0 Meeting and Travel

No travel is expected for this task.

8.0 NRC-Furnished Materials

Final Standard Review Plan for the Review of Remedial Action of Inactive Mill Tailings Sites Under Title I of UMTRCA, Revision 1, June 1993, and draft Standard Review Plan for the Review of Reclamation Plan for Mill Tailings Sites Under Title II of UMTRCA (1998).

Embankment stability section of a Technical Evaluation Report (Title II)

Embankment stability evaluation of a Title II Reclamation Plan

The above documents have been provided to CNWRA in connection with FY97 work for NRC.

9.0 Schedule

The following schedule of the staff time required is based on estimates of time intervals to accomplish the task.

Calendar Time To Accomplish Each of the Two Seismic Reviews

Review the material and prepare a final report with conclusions of acceptance or requests for information as required:

<u>Site</u>	<u>Due Date</u>
Rio Algom Lisbon	Due 4 weeks from effective date of task order
Homestake Grants	Due 6 weeks from effective date of task order

10.0 Technical Direction

Banad Jagannath is the designated Technical Monitor for this task. Technical instructions may be issued from time to time during the duration of this task. Technical instructions shall not constitute new assignments of work or changes of such nature as to justify an adjustment in cost or period of performance. Directions for changes in the scope of work, cost, or period of performance must be coordinated through the NMSS Project Manager and approved by the NRC Contracting Officer.

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