

**STATEMENT OF WORK FOR  
DR. J. E. JONISH FOR  
REVIEW OF THE U. S. DEPARTMENT OF ENERGY  
DRAFT ENVIRONMENTAL IMPACT STATEMENT FOR  
A PROPOSED GEOLOGIC REPOSITORY FOR HIGH-LEVEL RADIOACTIVE WASTE  
AT YUCCA MOUNTAIN, NEVADA**

**BACKGROUND:**

The U.S. Department of Energy (DOE) has prepared a draft environmental impact statement (DEIS) for a proposed geologic repository for the disposal of high-level radioactive waste (HLW) at Yucca Mountain, Nevada. This DEIS will be submitted in support of any site recommendation report to the President that is required by law. The Nuclear Regulatory Commission (NRC) has special expertise related to radiological health and safety and has jurisdiction to license the construction, operation, and closure of such a repository. The NRC also has responsibility under the National Environmental Policy Act of 1969 (NEPA) to provide comments on the DEIS. Additionally, the Nuclear Waste Policy Act of 1982, as amended, requires NRC to provide sufficiency comments on the site recommendations to the President made by DOE.

DOE released the DEIS for public comment on August 5, 1999. The public comment period is scheduled to last 180 days. NRC will conduct a thorough review of the DEIS during this period, and the Center for Nuclear Waste Regulatory Analyses (CNWRA) will provide technical support in the review. The CNWRA requires consultant support from Dr. Jonish for the DEIS.

**STATEMENT OF WORK:**

Dr. Jonish is to conduct an evaluative review of the DEIS in the area of socioeconomic impacts.

The evaluative review shall include an evaluation of supporting data, data-gathering methods, analysis methods, and any relevant supporting documents to determine whether the stated environmental impacts have been adequately supported. The evaluative review shall also include an assessment of potential environmental impacts and the proposed mitigation measures. Significant assumptions and areas of uncertainty that underlie the stated impact for the preferred and alternative disposal options should also be identified and evaluated. Dr. Jonish should specifically comment on any areas of the DEIS that, in his experience, would likely be at issue during the judicial review process.

If Dr. Jonish identifies concerns regarding a predictive methodology used in the DEIS, an alternative preferred methodology should be described and a rationale for this preference should be provided. Any comments should be specific and should provide a path for resolution. The CNWRA will provide an example of an appropriate comment format. These comments should include an identification of any required copyrighted references or areas requiring additional clarification.

The evaluative review comments are to be provided to the CNWRA by October 25, 1999.

Comments are to be submitted in hard copy and electronically, in a format compatible with WordPerfect Version 8.0.

**Consultant:** James Jonish

**Position:** D-3 Labor Market System Specialist

**Date of First Assignment:** July 6-August 5, 1999

**Scope of Work:** The purpose of this specialist's assignment is to work collaboratively with the Yemeni counterparts on the development of a labor market information system for the Labor Market Unit (LMU) within the HCCC Executive Directorate Office. The major function of this unit will be to conduct labor market studies for collecting middle-level manpower demand data which will be used for making decisions regarding the initiation and/or continuation of existing training programs. This unit will also conduct follow-up studies on the community college graduates.

**Tasks:** Specific tasks to be performed are:

- Meet with MOL/MOE staff to acquire data and information for a LMIS system.
- Design LMIS program components and system.
- Develop a tentative training program for and with Yemeni counterparts which will be conducted in the U.S.

**Expected Outcomes:**

- Input data and information will be identified and downloaded.
- Validated stock flow linkages will be documented.
- Tentative LMIS program will be developed.
- A tentative training program for Yemeni counterparts will have been developed.
- The organizational structure, duties and responsibilities, personnel, facilities, and equipment needed for the LMU will have been discussed and documented.

**Date of Second Assignment:** February 1-March 3, 2000

**Scope of Work:** This assignment will occur after the Yemeni counterparts have participated in a short-term training program in the U.S. The purpose of this assignment is to finalize plans and initiate the operation of a LMIS in the HCCC Executive Directorate Office, Labor Market Unit.

**Tasks:** Specific tasks to be performed are:

- Refinement of the LMIS program.
- Present and discuss the LMIS program with MOE/MOL staff.
- Revise and finalize the documentation of the LMIS program.

**Expected Outcomes:**

- An updated LMIS system relevant to the Yemeni situation.
- Model validated and system debugged.
- Integrated MOL/MIS program which includes LMIS output.
- Completed LMIS program document.

## **TRAINING**

### **1. STUDY TOURS AND SHORT-TERM TRAINING**

(a) **Title:** D-10 Fellowships in Labor Market System Development

**Number:** Two Yemeni counterparts located in the HCCC Labor Management Unit

**Duration:** Five weeks

**Dates of Program:** September 27-October 29, 1999

**Training Coordinator:** James Jonish

**Purpose/Objectives:** The major purpose of this five week program is to further develop the abilities of the two Yemeni counterparts in the HCCC-LMU to understand all aspects of the LMIS program so that, they can adapt what they have learned to their situation in Yemen. Information and insights regarding the interests and needs of the Yemeni counterparts acquired during the specialist's first assignment in Yemen will be used to develop and refine the proposed program so that, the most relevant and useable training can be provided for these trainees.

**Activity One:** Visits to the Texas Department of Labor, Texas Higher Education Coordinating Board (Austin), several Community Colleges (Temple, Waco), client system representatives (employer groups) and Regional Workforce Development Board Offices (Belton, Temple, Waco).

**Expected Outcomes:**

- Understand statewide modeling and monitoring of workforce planning and postsecondary education initiatives. Review and discuss key industry, occupation and labor market information by region which is used by community colleges to initiate and maintain technical and academic programs. Understand how this information helps demand side needs for employment of postsecondary workforce.
- Examine regional and statewide labor market studies of post-secondary education workforce.
- Understand labor market study rationale, information base and policy uses.

**Activity Two:** Development of LMIS for Yemen LMU. This continues work begun in Yemen with two LMU fellows. It assumes hard copy of relevant existing database brought to training site (Texas) by labor market specialist and/or two LMU fellows.

**Expected Outcomes:**

- Develop relational database system for post-secondary labor market in Yemen. Perform initial testing of program, make modifications.
- Understand scenario development concepts ("what if") and system limitations and suggest external data needs for Yemen.
- "Hands on" educational training with LMU counterparts in development, testing, modification of program with shared duties and responsibilities.
- Begin write-up of documentation of database system to be completed in Yemen (English/Arabic).

## **SUPPORT FOR CONTRACTOR REQUEST**

**CONTRACTOR:** James E. Jonish, Ph.D.

**RATE (dollars/hour):**

**PERIOD OF PERFORMANCE:** July 30, 1999–December 31, 1999

**STATEMENT OF WORK:** See Attached

**ESTIMATED UTILIZATION (hours):** 60 (for review of the DEIS)  
128 (for travel and meetings)

**PRIOR CONTRACTOR WORK EXPERIENCE WITH SWRI:**  
None

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### **PROGRAMMATIC NEED FOR CONTRACTOR WORK:**

The U.S. Department of Energy Draft Environmental Impact Statement is a key document in the NRC high-level radioactive waste disposal program. The NRC has a legal mandate to review it. The CNWRA has been tasked to support this review, including obtaining consultant support for the review of those sections of the document that are outside its areas of technical expertise.

### **LIST OF ELIGIBLE CONSULTANTS CONSIDERED:**

A. Fentiman, Ph.D.	T. Mollahagan, Ph.D.
Lloyd V. Urban, Ph.D.	(Others are also being evaluated)
Priyantha Jaywickrama, Ph.D.	

### **RATIONALE FOR SOLE/SINGLE SOURCE SELECTION:**

NA—Multiple consultants will be used for the review, including individuals from the list above.

### **RATIONALE FOR NOT USING SWRI RESOURCES:**

SwRI does not have staff with expertise in review of the socioeconomic, environmental justice, cultural, ecological, environmental, or transportation impacts addressed in environmental impact statements.

### **PROJECT NUMBER(S):**

20-1402-931