

March 2, 2001

MEMORANDUM TO: Kenneth A. Raglin, Associate Director  
for Training and Development  
Office of Human Resources

FROM: John Greeves, Director /RA/  
Division of Waste Management  
Office of Nuclear Material Safety  
and Safeguards

SUBJECT: TRAINING COURSE ON REGULATORY PROCESS FOR LICENSING  
AND EVALUATION OF HIGH-LEVEL WASTE REPOSITORY

Currently, the Division of Waste Management (DWM) is actively involved in pre-licensing work related to the proposed U.S. Department of Energy's (DOE's) high-level radioactive waste repository program at Yucca Mountain, Nevada. DOE expects to submit a license application for a potential repository by 2002. As part of its preparation for reviewing such an application, DWM has Manual Chapter (MC) 1246, "Formal Qualification Program in the Nuclear Materials Safety and Safeguards Program Area," (Appendices A and B) to prescribe qualification provisions for technical reviewers and inspectors in the high-level waste (HLW) program. Because the qualification process for the reviews is scheduled to be completed by individual staff in two years, DWM is beginning to look at what is needed in terms of training to support a license application review by 2002.

The purpose of this memorandum is to request assistance from the Technical Training Center (TTC) in setting up an introductory course on the licensing and evaluation of the HLW repository. In the MC 1246 qualification requirements, each technical reviewer must take a series of core courses including an introductory course on regulatory process for licensing and evaluation of HLW repository. DWM is finalizing the procedure to evaluate HLW repository and is just beginning the qualification process for the staff assigned to the HLW program. Because the majority of the individuals in this program have no licensing experience, nearly all the reviewers need to take this introductory course. The number of DWM staff assigned to the HLW program is approximately 50. The present TTC program does not have a course on this subject. Thus, the DWM is requesting TTC's help to prepare and organize such a course. The DWM expectation is that the course would cover subjects outlined in the attached draft course content.

Given the large number of personnel that DWM would like to receive this training, DWM expects that two sessions of the course need to be offered. In addition, if other organizations, such as the Office of the General Counsel or Region IV want to include personnel in the course, DWM would have no objections provided all the slots DWM needed were available. Once the initial volume of staff are trained, future staff can receive the necessary training on an as needed basis

I have assigned Kien Chang of my staff to work with TTC in the development. Please contact Kien Chang at 415-6612 for matters related to this subject.

Attachments: As stated

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OFC	HLWB	HLWB	HLWB	DWM
NAME	KChang	KStablein	WReamer	JGreeves
DATE	2/ /01	2/ /01	2/ /01	2/ /01

## Course Outline for Licensing and Evaluation of High-Level Waste Repository

### Course Objective

To provide Division of Waste Management's new staff members with an introductory knowledge of the regulatory process and techniques that are used in the Nuclear Regulatory Commission's evaluation of geological repository at Yucca Mountain. The emphasis is on the understanding of the licensing philosophy and a cursory demonstration of performance evaluation being developed to support NRC's repository licensing activities. This course will also serve as a refresher course for DWM staff members who are developing many of the techniques being used in repository pre-licensing activities.

Course Length: One day

### Course instructors

DWM (and CNWRA) management staff and senior staff members who are involved in the continuing pre-licensing activities, PRA experts employed in private industry and national laboratories.

### Course Outline

Time and suggested  
Source of instructor

- |    |  |                        |
|----|--|------------------------|
| 1. | Introduction   | (15 minutes)           |
|    | 1.1 Course logistics   |                        |
|    | 1.2 Four legs of the regulatory process - technical review, licensing, inspection, enforcement |                        |
| 2. | NRC Licensing Philosophy and Process   | (60 minutes)           |
|    | 2.1 NRC Regulatory Philosophy  | (DWM Directors Office) |
|    | 2.2 Approach to Regulatory Responsibilities  |                        |
|    | 2.3 Regulations versus Guidance  |                        |
|    | 2.4 Regulatory Role  |                        |
|    | 2.5 Licensing Review   |                        |
|    | Safety Review, Environmental Review, YMRP  |                        |
| 3. | Hearing Process and Decision   | (30 Minutes/OGC)       |
| 4. | Statutory Responsibilities and Regulations   | (45 Minutes)           |
|    | 4.1 Nuclear Waste Policy Act   | (HLWB)                 |
|    | 4.2 EPA Rule (40 CFR 191)  | (T. McCartin)          |
|    | 4.3 NRC Rule (10 CFR 63)   | (T. McCartin)          |
|    | 4.4 Other Rules: 10 CFR Part 2   | (OGC)                  |
| 5. | What is high level waste repository licensing?   | (60 Minutes)           |
|    | 5.1 Use of YMRP in the licensing review  |                        |
|    | 5.2 Findings to make   |                        |
|    | 5.3 Writing an SER - the dos and don'ts  |                        |

- 6. Inspections (30 Minutes/RIV)
  - 6.1 What are inspections
  - 6.2 Relationship to licensing reviews
  - 6.3 Manual Chapters and Inspection Procedures
  - 6.4 Headquarters and regional coordination
- 7. Enforcement Actions (15 Minutes HLWB)
  - 7.1 What are enforcement actions
  - 7.2 Orders
  - 7.3 2.206 petitions
- 8. Allegations (15 Minutes/O'Connor)
- 9. Close (Reamer)