

OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT

QUALITY ASSURANCE AUDIT PLAN

FOR AUDIT YM-ARC-96-10

OF THE

UNITED STATES GEOLOGICAL SURVEY

DENVER, COLORADO

MARCH 25 THROUGH 29, 1996

Prepared by: *Richard L. Maudlin* Date: 01-19-96

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Approved by: *Donald G. Horton* Date: 1/26/96

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Enclosure

### **3.0 REQUIREMENTS TO BE AUDITED AND APPLICABLE REFERENCES**

The requirements to be audited will be contained in the programmatic checklist. This checklist will be developed from the latest available revision of the following documents.

- OCRWM Quality Assurance Requirements and Description document DOE/RW-0333P
- USGS Quality Implementing Procedures
- Yucca Mountain Site Characterization Office procedures as directly implemented by USGS

The conduct of the audit will be guided by the documents (latest revision) listed below:

- Quality Assurance Procedure (QAP) 18.2, "Audit Program"
- Administrative Procedure (AP) 16.1Q, "Performance/Deficiency Reporting"
- AP 16.2Q, "Corrective Action and Stop Work"

### **4.0 ACTIVITIES TO BE AUDITED**

#### **Programmatic Elements**

- 1.0 Organization
- 2.0 Quality Assurance Program
- 4.0 Procurement Document Control
- 5.0 Implementing Documents
- 6.0 Document Control
- 7.0 Control of Purchased Items and Services
- 12.0 Control of Measuring and Test Equipment
- 15.0 Nonconformances
- 16.0 Corrective Action
- 17.0 Quality Assurance Records
- Supplement I, Software
- Supplement II, Sample Control
- Supplement III, Scientific Investigation

The following QA program elements were also considered during the development of this audit plan and found to be not applicable, since USGS currently has no activities to which these elements apply:

- 3.0 Design Control
  - 8.0 Identification and Control of Items
  - 9.0 Control of Special Processes
  - 10.0 Inspection
  - 11.0 Test Control
  - 13.0 Handling, Storage, and Shipping
  - 14.0 Inspection, Test, and Operating Status
  - 18.0 Audits
- Supplement IV, Field Surveying

If the audit team identifies a need to verify additional programmatic areas during the audit, these areas will be added to the audit scope and evaluated accordingly.

#### **5.0 AUDIT TEAM MEMBERS**

Richard L. Maudlin, YMQAD, Las Vegas, Nevada, ATL  
Woody W. Hudson, YMQAD, Las Vegas, Nevada, Auditor  
Mary G. McDaniel, YMQAD, Las Vegas, Nevada, Auditor  
Kenneth T. McFall, YMQAD, Las Vegas, Nevada, Auditor  
James Blaylock, YMQAD, Las Vegas, Nevada, Auditor

#### **6.0 AUDIT CHECKLIST**

The following checklist will be used during the audit:

YM-ARC-96-10-01, Programmatic Checklist