The Carlsbad Area Office (CAO) will be performing an audit of the TRU Waste Characterization activities at the Rocky Flats Environmental Technology Site (RFETS) during the period October 2, 1995 through October 6, 1995. The Audit Team Leader will be Robert Paedon of the Department of Energy Carlsbad Area Office (DOE-CAO) WIPP Technical Assistance Contractor (WTAC). Also in attendance as Observers will be representatives of the Environmental Evaluation Group (EEG) and the Environmental Protection Agency (EPA). Additionally, members of the CAO management will attend.

The audit team will review activities and objective evidence to determine implementation of an effective system that meets the requirements imposed by the CAO TRU Waste Characterization Quality Assurance Program Plan (QAPP). The RFETS Waste Isolation Pilot Plant Experimental Waste Characterization Program Quality Assurance Project Plan (QAP)P), and associated implementing procedures will be used as the basis for evaluation.

Attached is the audit plan to be followed during the conduct of the audit. If you have any questions or comments concerning this audit, please contact me at (505) 234-7484.

R. Dennis Brown, Manager
Quality Assurance

Attachment

cc/attachment:
K. Hunter, CAO
M. Matthews, CAO
D. Watkins, CAO
R. Bisping, CAO
J. Suermann, CAO
J. Mawhinney, CAO
P. Kilgore, CAO
D. Chapman, DOE-CAO/WTAC
R. Paedon, DOE-CAO/WTAC
R. Schassburg, RFFO/T117A
L. Cindel, RFFO/T117A
M. Strum, RFFO/T117A
F. Grady, RFETS/T130C
J. O’Leary, RFETS/T130C
C. Kennedy, KH/T130A
J. Benetti, EPA-ORIA/NV
R. Rosnick, EPA-OSW/HQ
J. Kenney, EEG/Carlsbad
B. Walker, EEG/Carlsbad
S. Zappe, NMED
CARLSBAD AREA OFFICE AUDIT PLAN A-95-06

1.0 SCOPE

The audit team will evaluate the Rocky Flats Environmental Technology Site Waste Characterization Program to determine whether the requirements imposed by the Department of Energy CAO TRU Waste Characterization Quality Assurance Program Plan are adequately and effectively implemented.

2.0 AUDIT SCHEDULE

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>Pre-audit Team/Observer Meeting</td>
<td>8:00 a.m., October 2, 1995</td>
<td>RFETS Conference Room</td>
</tr>
<tr>
<td>Pre-audit Conference</td>
<td>9:00 a.m., October 2, 1995</td>
<td>RFETS Conference Room</td>
</tr>
<tr>
<td>Audit Activities</td>
<td>9:30 a.m. to 4:00 p.m., October 2, 1995</td>
<td>Characterization Facilities</td>
</tr>
<tr>
<td></td>
<td>8:00 a.m. to 4:00 p.m., October 3 - 5, 1995</td>
<td>Characterization Facilities</td>
</tr>
<tr>
<td></td>
<td>8:00 a.m. to 11:30 a.m., October 6, 1995</td>
<td>Characterization Facilities</td>
</tr>
<tr>
<td>Post Audit Conference</td>
<td>9:00 a.m., October 2, 1995</td>
<td>RFETS Conference Room</td>
</tr>
</tbody>
</table>

There will be daily meetings between the Audit Team Leader, Observers, and RFETS management representatives at 8:15 a.m. to discuss the previous day's audit activities and results. There will also be a daily Audit Team and Observer Meetings at 4:00 p.m. to discuss preliminary results and establish needed liaison for continuing audit activities. Both daily meetings will be held at locations (conference rooms) provided by RFETS.

3.0 REQUIREMENTS TO BE AUDITED AND APPLICABLE REFERENCES

- 1-10000-EWQA, 1.2.1, Quality Assurance Project Plan, Waste Isoiation Pilot Plant Experimental Waste Characterization Program, dated January 15, 1992
• 3-21000-ALQAP, Revision A, Analytical Laboratories, Quality Assurance Plan, dated April 16, 1993

• Implementing procedures and instruction covering characterization activities

4.0 ACTIVITIES TO BE AUDITED

The audit team will review and evaluate the quality assurance controls including software quality assurance, applied to the processes used for waste characterization. These processes include:

• Headspace Gas Sampling
• Nondestructive Assay
• Segmented Gamma Scan
• Passive Active Drum Counter
• Real Time Radiography
• Gas Analysis
• Measurement and Data Acquisition
• Sample Process Design
• Sample Handling and Custody
• Data Validation and Reduction

Additional program elements and technical areas may be identified during the audit and will be added to the audit scope and verified as necessary.

5.0 AUDIT TEAM MEMBERS

Bob Paedon  Audit Team Leader  DOE CAO/WTAC
Steve Davis  Auditor, Characterization  DOE CAO/WTAC
Sandy Wander  Auditor, Quality Assurance  DOE CAO/WTAC
Paul Bryant  Auditor, Quality Assurance  DOE CAO/WTAC
Fred Dunhour  Auditor, Records and Document Control  DOE CAO/WTAC
Sid Ailes  Technical Specialist, Software Quality Assurance  DOE CAO/WTAC
James Lloyd  Technical Specialist, M&TE  WID
Eng Tan  Technical Specialist, Non-Destructive Assay  DOE CAO/WTAC
6.0 AUDIT OBSERVERS

<table>
<thead>
<tr>
<th>Name</th>
<th>Agency</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Hauschild</td>
<td>EPA</td>
<td>Las Vegas, NV</td>
</tr>
<tr>
<td>Patrick Kelly</td>
<td>EPA</td>
<td>St. Louis, MO</td>
</tr>
<tr>
<td>Howard Finkel</td>
<td>EPA</td>
<td>Fairfax, VA</td>
</tr>
<tr>
<td>Ben Walker</td>
<td>EEG</td>
<td>Carlsbad, MN</td>
</tr>
<tr>
<td>Bob Stoneking</td>
<td>DOE</td>
<td>Washington, DC</td>
</tr>
</tbody>
</table>

Bob Paedon  
Audit Team Leader

R. Dennis Brown  
CAO QA Manager