

United States Government


Department of Energy

memorandum

Carlsbad Field Office
Carlsbad, New Mexico 88221

DATE: May 15, 2001

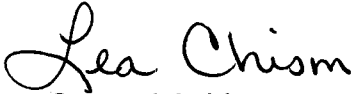
REPLY TO
ATTN OF: CBFO:QA:MLC:VW:01-1113:UFC:2300SUBJECT: Carlsbad Field Office Surveillance Report S-01-06, Idaho National
Engineering and Environmental Laboratory

to: Lori Fritz, ID

The Carlsbad Field Office (CBFO) conducted a surveillance of the Idaho National Engineering and Environmental Laboratory (INEEL) transuranic waste program on May 1, 2001. The surveillance team concluded that the INEEL quality assurance program relating to organization was adequate in accordance with the CBFO QAPD. In addition, the surveillance team concluded that the trailer mounted RTR mobile unit, hydrogen analysis, headspace gas analysis, and the TRUPACT II unloading and loading operations was adequate and satisfactorily implemented. The surveillance team also concluded that the INEEL procedures evaluated were being satisfactorily implemented and that the evaluated processes were effective. The CBFO surveillance report is attached.

There were no CBFO Corrective Action Reports or Recommendations issued as a result of the surveillance. One Observations has been documented in the report relating to transportation activities.

If you have any questions or comments concerning this report, please contact me at (505) 234-7484.


for Samuel A. Vega
Quality Assurance Manager

Attachment

010520



Lori Fritz

-2-

May 15, 2001

cc: w/attachment

I. Triay, CBFO

K. Watson, CBFO

L. Chism, CBFO

D. Winters, DNFSB

S. Monroe, EPA

M. Eagle, EPA

S. Zappe, NMED

B. Walker, EEG

T. Monk, BBWI

T. Preston, BBWI

M. Gerle, WTS

T. Bowden, CTAC



U.S. DEPARTMENT OF ENERGY
CARLSBAD FIELD OFFICE

SURVEILLANCE REPORT
OF THE
IDAHO NATIONAL ENGINEERING AND
ENVIRONMENTAL LABORATORY
(INEEL)

Idaho Falls, Idaho

SURVEILLANCE NUMBER S-01-06

MAY 1, 2001



TRANSURANIC WASTE QUALITY ASSURANCE PROGRAM

Prepared by: *SDC* Date: 5/9/01
Steven D. Calvert
Surveillance Team Leader

Approved for Issue by: *SAV* Date: 5/15/01
for Samuel A. Vega
CBFO Quality Assurance Manager

1.0 EXECUTIVE SUMMARY

CBFO Surveillance S-01-06 was conducted to evaluate the implementation and effectiveness of the Idaho National Engineering and Environmental Laboratory (INEEL) quality assurance program as it relates organization. The surveillance also included an evaluation of the trailer mounted real time radiography (RTR) unit, analysis of gas samples for hydrogen and methane, new gas chromatography/flame ionization detector equipment, and the TRUPACT loading and unloading operations. The surveillance was conducted at INEEL on May 1, 2001. The surveillance team determined that the activities evaluated relating to quality assurance were satisfactorily implemented and effective. The audit team determined that the RTR and TRUPACT operations procedures were adequate satisfactorily implemented and effective.

The surveillance team identified no conditions adverse to quality that required the issuance of a Corrective Action Report (CAR). One Observation was identified in the area of transportation. No Recommendations were issued as a result of this surveillance.

2.0 SCOPE

CBFO Surveillance S-01-06 was conducted to evaluate the implementation and effectiveness of the INEEL Transuranic Waste Quality Assurance Program relating to the organizational structure of the TRU Waste Project. In addition the surveillance evaluated the installation and use of a trailer mounted real time radiography unit, analysis of gas samples for hydrogen and methane, new gas chromatography/flame ionization detector equipment and TRUPACT unloading and loading operations.

3.0 SURVEILLANCE TEAM, INSPECTOR AND OBSERVER

| | |
|-------------------|--------------------------------|
| Steven D. Calvert | Surveillance Team Leader, CTAC |
| Amy Arceo | Surveillor, CTAC |
| Dee Scott | Technical Specialist, CTAC |
| BJ Verret | Technical Specialist, CTAC |
| Tom Ward | Technical Specialist, WTS |
| Gary Walvatne | Inspector, EPA |
| James Channell | Observer, EEG |

4.0 SURVEILLANCE PARTICIPANTS

A list of personnel contacted during the course of the surveillance is provided as Attachment 1 of this report.

5.0 SUMMARY OF SURVEILLANCE RESULTS

5.1 Surveillance Activities

Details of surveillance activities, along with the specific objective evidence reviewed and the results of the reviews are contained within the surveillance checklists. The checklists are maintained as QA records. No conditions adverse to quality were identified.

The surveillance team evaluated the activities to verify compliance to NQA-1 – 1989 Edition, Basic Requirement 1 and Supplementary Requirement 1S-1. The surveillance team determined that INEEL adequately defined the current organizational structure of the project. As a result, the surveillance team concluded that the QA program requirements related to the activities evaluated during the surveillance were adequate, satisfactorily implemented and effective. In addition the surveillance evaluated the installation and use of a trailer mounted real time radiography unit, analysis of gas samples for hydrogen and methane, new gas chromatography/flame ionization detector equipment and TRUPACT unloading and loading operations.

5.1.1 Organization

The surveillance team evaluated the adequacy of documents depicting the INEEL TRU Waste organization. The INEEL TRU Waste Characterization, Certification and Transportation Quality Assurance Plan, PLN-182, Revision 6 depicts the current organizational structure and defines the responsibilities of the TRU program at INEEL. The INEEL document adequately incorporates the requirements of NQA-1 – 1989 Edition, Basic Requirement 1, and Supplementary Requirement 1S – 1. The INEEL TRU Project organizational structure has been satisfactorily implemented and is effective.

5.1.2 Real Time Radiography (RTR)

The surveillance team evaluated the procedure being used to operate the trailer mounted RTR unit (TPR-1572, *Operation of the RTR System*). The installed equipment was examined to determine equivalency to the existing RTR equipment that has been previously approved for use. The surveillance team determined that the image intensifier, system resolution, video output, and digital encoding are consistent in both units. The quality control checks, data reporting, and data validation processes are the same for both units. Operators trained and qualified in accordance with the approved training program (PLN-587) are operating the trailer mounted RTR unit. The surveillance team determined that the procedure remains adequate and the RTR unit process is being satisfactorily implemented and is effective.

5.1.3 TRUPACT Unloading and Loading Operations

The surveillance team examined the new TRUPACT operations. Procedures TPR-

1665, *TRUPACT II Payload Assembly Operation in WMF-635* and TRP-1666, *TRUPACT II Loading Operations in WMF-635* were evaluated and found to adequate. The surveillance team witnessed the implementation of the unloading and loading of the process using a training TRUPACT. The surveillance team concluded that the procedures are being satisfactorily implemented and that the process is effective.

5.1.4 Hydrogen Analysis

Procedure ACMM-9925, *Analysis of Gas Samples for Hydrogen/Methane by GC/TDC* was reviewed and found to be adequate by the surveillance team. The surveillance team evaluated the use of logbooks, raw data, data packages, standards and instrument performance. The surveillance team concluded that the process for analysis of hydrogen and methane in support of transportation requirements is satisfactorily implemented and effective.

5.1.5 Headspace Gas Analysis

The procedure for headspace gas analysis (ACMM-9910, *Analysis of Samples for Volatile Organic Compounds by Gas Chromatography/Flame Ionization Detection*) was revised to accommodate the use of additional analytical equipment. The revision added the use of a non-cryogenic gas chromatography (GC) unit using a flame ionization detector (FID). At the time of this surveillance the additional equipment was still undergoing installation. The additional equipment is in the process of being tested and minimum detection limit (MDL) studies performed. The surveillance team concluded that the procedure is adequate, however the implementation and effective of the added equipment is indeterminate at this time.

Procedure ACMM-9910 also allows for the use of existing analytical equipment for headspace gas analysis. This equipment was previously approved for use during Audit A-00-06. The procedure remains adequate for the use of the existing equipment. The surveillance team concluded that the process for the existing equipment is still being satisfactorily implemented and remains effective.

6.0 CORRECTIVE ACTIONS AND RECOMMENDATIONS

The surveillance team identified no deficiencies during the surveillance that required the issuance of Corrective Action Reports (CARs) or Recommendations.

6.1 OBSERVATIONS

The following Observation was identified during the audit:

INEEL performs maintenance on the TRUPACT-II Shipping Packages in accordance with Work Instructions contained in DOE/WIPP 93-1001, TRUPACT-II Operating and Maintenance Instructions manual. The Maintenance forms (Form 1709) are sent to WIPP to track maintenance performed and part usage for each TRUPACT-II. One

INEEL Form 1709 for replacement of a lift pocket cover contained an attached and unrelated leak test. Form 1709 Maintenance Forms need to be complete and accurate to provide the correct maintenance history and part usage in accordance with the applicable Work Instruction and the Form 1709 format. INEEL operations personnel should be following the specific written instructions provided in DOE/WIPP 93-1001.

7.0 ATTACHMENTS

Attachment 1: Personnel Contacted During the Surveillance
Attachment 2: Procedures Reviewed During the Surveillance

PERSONNEL CONTACTED DURING THE SURVEILLANCE

| PERSONNEL CONTACTED | | | | |
|----------------------------|---------------------------|---------------------------------|--------------------------------------|----------------------------------|
| NAME | TITLE/ORG | PRE SURVEILLANCE MEETING | CONTACTED DURING SURVEILLANCE | POST SURVEILLANCE MEETING |
| Abbott, Preston | RTR Ops, BBWI | | X | |
| Arbon, Rod | SPO, BBWI | X | X | X |
| Bagley, Julia | SWEPP Foreman, BBWI | | X | |
| Barnes, Richard | Production Manager, BBWI | X | | X |
| Baxter, Don | Production Manager, BBWI | X | | |
| Beausoleil, G | Deputy Director DOE-ID | X | | |
| Bennett, Bill | SWEPP Ops, BBWI | | X | |
| Bright, David | Site Area Director, BBWI | X | | |
| Broers, Galyn | Issues Management, BBWI | X | | |
| Brown, Anthony | System Engineer, BBWI | X | X | X |
| Brown, Denny | Consultant, DB Associates | X | | X |
| Campbell, T | RADCON, BBWI | | X | |
| Chesnovar, B | FQR, BBWI | | X | |
| Crowder, Catherine | ECL Supervisor, BBWI | X | X | |
| Dunhour, Fred | FQR, ECL | X | X | |

| PERSONNEL CONTACTED | | | | |
|----------------------------|--------------------------|---------------------------------|--------------------------------------|----------------------------------|
| NAME | TITLE/ORG | PRE SURVEILLANCE MEETING | CONTACTED DURING SURVEILLANCE | POST SURVEILLANCE MEETING |
| Emanuelson, K | QA Supervisor, BBWI | | | |
| Evans, Bob | Principal Lab Tech, BBWI | | X | |
| Fife, Cindy | Facility QA, BBWI | | | |
| Ford, Bryant | 3100 Project Engineer | | | X |
| Fritz, Lori | Program Director, DOE-ID | X | | X |
| Galbraith, S | SME, BBWI | X | X | X |
| Griffin, Michael | WCO, BBWI | X | | X |
| Jenkins, Allen | Mechanic, BBWI | | X | |
| Johnsen, Tom | Document Control, BBWI | X | | X |
| Jones, Donald | Inspector, BBWI | | X | |
| Knox, Greg | QA Manager, BBWI | X | X | X |
| Krivanek, Ken | Contractor, GTI | X | | X |
| Larsen, Doug | Project Engineer, BBWI | X | | |
| Lee, Denise | SWEPP Ops, BBWI | | X | |
| Lent, Dave | Training, BBWI | | | X |
| McBath, Bill | ESH&Q Manager, BBWI | | | |
| Miklos, Robert | Production Manager, BBWI | X | | X |
| Monk, Thomas | Site Project Manager, | X | X | X |

| PERSONNEL CONTACTED | | | | |
|----------------------------|------------------------------------|---------------------------------|--------------------------------------|----------------------------------|
| NAME | TITLE/ORG | PRE SURVEILLANCE MEETING | CONTACTED DURING SURVEILLANCE | POST SURVEILLANCE MEETING |
| | BBWI | | | |
| Moore, Steve | SWEPP Ops | | X | |
| Morris, Brian | SWEPP Ops, BBWI | | X | |
| Ploger, Scott | Contractor, GTI | X | | X |
| Pound, Don | TCO/WCO, BBWI | X | X | X |
| Preston, Tim | SQAO, BBWI | X | X | X |
| Riggs, Trent | Associate Tech Specialist, BBWI | | X | |
| Rogers, Kim | Engineering Dept Manager, BBWI | X | | X |
| Rowberry, M | SWEPP Ops, BBWI | | X | |
| Sailer, Shelly | ALD QA Officer, BBWI | | X | |
| Shakelford, S | RADCON, BBWI | | X | |
| Sherick, Mark | CA Manager, BBWI | X | | |
| Sifuende, M | Project Engineer, BBWI | X | | |
| Simmons, Craig | SWEPP Ops, BBWI | | X | |
| Stailing, James | Operations Support, E ² | X | X | X |
| Torres, Carol | Inspector, BBWI | | X | |
| Troescher, Pat | QA Officer, BBWI | | | |
| Wasylyon, Scott | SWEPP Ops | | X | |
| Wells, Jerry | Program Manager, | X | | X |

| PERSONNEL CONTACTED | | | | |
|----------------------------|-----------------------|---|--|--|
| NAME | TITLE/ORG | PRE SURVEILLANCE MEETING | CONTACTED DURING SURVEILLANCE | POST SURVEILLANCE MEETING |
| | DOE-ID | | | |
| Whitehead, M | Training, BBWI | | | X |
| Yew, Paul | DAD, BBWI | X | | X |

INEEL PROCEDURES SURVEILLED IN S-01-06

| NUMBER | PROCEDURE NUMBER | TITLE |
|---------------|-----------------------------|--|
| 1. | ACMM-9910 | Analysis of Samples for VOCs by GC/FID |
| 2. | ACMM-9925 | Analysis of Gas Samples For Hydrogen/Methane By Micro GC/TDC |
| 3. | PLN-182 | INEEL TRU Waste Characterization, Certification, and Transportation Quality Program (QPP) |
| 4. | PLN-190 | Quality Assurance Project Plan (QAPjP) |
| 5. | QTP-027 | Mobile Real-Time Radiography, Trailer 1 |
| 6. | TPR-1572 | Operation of the RTR System |
| 7. | TPR-1665 | TRUPACT II Payload Assembly Operation in WMF-635 |
| 8. | TPR-1666 | TRUPACT II Loading Operations in WMF-635 |