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Department of Energy

Carlsbad Field Office
P. O. Box 3090
Carlsbad, New Mexico 88221

MAY 21 2015



Mr. Val Cannon, Manager
Quality Assurance
Nuclear Waste Partnership LLC
P.O. Box 2078
Carlsbad, NM 88221-2078

Subject: Surveillance Report S-15-52, U/G Roof Bolting Activities

Dear Mr. Cannon:

The Carlsbad Field Office conducted the subject surveillance April 30 and May 13, 2015, at the Waste Isolation Pilot Plant. Results of the surveillance are provided in the enclosed report. No deficiencies were noted.

If you have any questions or comments concerning the surveillance, please contact me at (575) 234-7476.

Sincerely,


Michael R. Brown, Director
Quality Assurance Division

Enclosure

cc:w/enclosure

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CBFO SURVEILLANCE REPORT

Surveillance Number: S-15-52 **Date of Surveillance:** April 30, May 13, 2015

Surveillance Title: U/G Roof Bolting Activities

Organization: Nuclear Waste Partnership LLC (NWP)

Surveillance Team:

Kirk Kirkes Surveillance Team Lead, Carlsbad Field Office (CBFO) Technical Assistance Contractor (CTAC)

Surveillance Scope:

The surveillance evaluated the performance of work associated with roof bolting in the Waste Isolation Pilot Plant (WIPP) underground (U/G) to requirements identified in approved work order packages.

Governing Documents/Requirements:

- Work Order 1408052, Replace Broken Bolts Zone 1b
- Work Order 1408062, Replace Failed Bolts in Zone 8
- RWP 14-002, Task 5
- WP 04-AU1031, Fletcher Bolter
- MWO00534, Underground Entry/Exit
- Pre-job Briefing form #EA04AD3030-1-0

Activities Evaluated:

The surveillance team evaluated the activities associated with removing and replacing roof bolts in the WIPP U/G. On April 30, a pre-job briefing at S1000 was conducted for work package 1408052 that consisted of a review of the work order and task assignments for each individual. This work was performed outside of the contaminated area so Radiological Control support was not required. On May 13, a pre-job briefing at S1000 was conducted on work package 1408062 for the back shift roof bolting crew, including a review of the Radiation Work Permit (RWP) required for roof bolting activities conducted in the E140/S3080 contaminated area (CA).

The 1408052 work package for roof bolting activities in the clean area commenced with verification of ventilation airflow requirements and a preoperational check of the Fletcher Bolter. During the first day activity, U/G mine operators identified weak areas in the hydraulic hoses on the drill head. The Fletcher Bolter was tagged out and an action request was written for maintenance to replace the hoses as required in the Fletcher Bolter procedure. Other high priority activities and the completion of maintenance on the

hydraulic hoses prevented further roof bolting surveillance activities in the clean area between April 30 and May 13, 2015.

The 1408062 work package for roof bolting activities in the CA were evaluated on the May 13 back shift. The airflow requirements for roof bolting were verified by Underground Facility Services prior to any work being performed. Once airflow measurements were verified, two radiation control technicians, three mining operations technicians, and a mining supervisor donned the required personal protective equipment, entered the CA, performed ground control inspections at the work area, and performed the preoperational checks on the Fletcher Bolter. Broken, failed bolts were removed by cutting away the lanyards from the chain link and bolt head and pulling them out of the back. Next, new holes were drilled in close proximity to the old holes, glue sticks were inserted into the holes, and then bolts were installed and tightened. The new bolts were then secured to the chain link with lanyards. All work activities observed were performed in accordance with approved work instructions documented within the referenced work packages.

Contamination control activities by Radiological Control personnel were also observed. Radiological Control personnel assisted the roof bolting crew when donning and doffing protective clothing at the transition line.

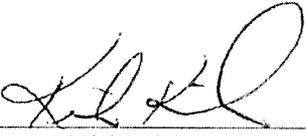
Qualifications of the roof bolting crew were verified through review of Technical Training records.

Surveillance Results:

Overall, the surveillance team determined that the activities associated with the U/G roof bolting activities were satisfactorily conducted in accordance with requirements within the referenced approved work orders.

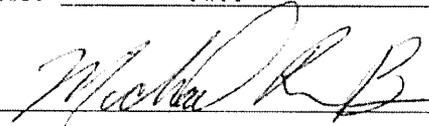
Deficiencies:

NONE

Surveillance Team Leader:  Date: 5/20/15 ¹⁵ _{APR 5/21/15}

Kirk Kirkes

Assistant Manager/Office Director: N/A Date: N/A

CBFO QA Director Approval:  Date: 5/21/2015