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

Subject: Results for CBFO Surveillance S-20-03, Nuclear Waste Partnership LLC
Central Monitoring Room Operations

Dear Mr. Ivey:

Enclosed is the report for Carlsbad Field Office (CBFO) Surveillance S-20-03, Nuclear Waste Partnership LLC (NWP) Central Monitoring Room (CMR) Operations. The surveillance was conducted January 28 – 29, 2020, at the Waste Isolation Pilot Plant near Carlsbad, New Mexico.

Two concerns were identified during the surveillance, resulting in the issuance of one corrective action report and one Observation. Although two concerns were identified, the surveillance team determined that the CMR Operations are satisfactorily implemented and effective.

If you have any questions concerning the surveillance, please contact me at (575) 234-7676.

Sincerely,

Joe Lopez
Software Quality Assurance Specialist

Enclosure

cc: w/enclosure
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*ED denotes electronic distribution
SURVEILLANCE REPORT

Surveillance Number: S-20-03 Date of Surveillance: January 28-29, 2020

Surveillance Title: Nuclear Waste Partnership LLC (NWP) Central Monitoring Room (CMR) Operations

Organization: Carlsbad Field Office (CBFO)

Surveillance Team:
- Joe Lopez, CBFO Office of Quality Assurance (OQA) Management Representative
- Tim Boswell, Surveillance Team Leader, CBFO Technical Assistance Contractor (CTAC)
- Rick Castillo, Co-Surveillance Team Leader, CTAC
- Shelly Gomez, Auditor, CTAC
- Kirk Kirkes, Auditor, CTAC

SURVEILLANCE SCOPE:

Surveillance S-20-03 was conducted to verify the implementation and effectiveness of the NWP CMR operations at the Waste Isolation Pilot Plant (WIPP).

SURVEILLANCE RESULTS:

The surveillance team determined that the procedures reviewed, and processes observed for the NWP CMR Operations, provided evidence that the CMR activities are satisfactorily implemented and effective in achieving the desired results. Two concerns were identified during the surveillance. One concern was determined to be a condition adverse to quality (CAQ) requiring the issuance of Corrective Action Report (CAR) 20-012. The other concern was determined to be an Observation. The concerns are described in detail in the “Corrective Actions” section of the report.

The evaluations of CMR operations were based on the following documents:

- WP 04-CM1304, Rev. 15-FR1, CMS Equipment Operation
- WP 04-CM1306, Rev. 13-FR1, Operation of Remote Uninterruptible Power Supplies/LPUs for CMS Equipment
- WP 04-CM1307, Rev. 0-FR1, Waste Face Video System Operation
- WP 04-CM1308, Rev. 1, Operation of Remote Underground UPS/LPUs for CMS Equipment
• WP 04-CM2005, Rev. 3-FR1, Central Monitoring Room Electronic Logkeeping
• WP 04-CM1001, Rev. 6, Remote Operation of Diesel Generators
• WP 04-CM1006, Rev. 5, Remote Operation of Electrical Circuit Breakers
• WP 04-CM1185, Rev. 5, Remote Operation of Support Building Zone 6 HVAC HEPA Filtration
• WP 04-CM1301, Rev. 6, Public Address System Console Operation
• WP 04-CM1302, Rev. 3-FR2, CMR Operation of Sentinel Underground Communication System
• WP 04-CM1007, Rev. 0, CMR Response to Smoke in Underground
• WP 04-CM2002, Rev. 31, Transportation Communications Operator's Actions for Transportation Irregularities
• WP 04-CM2003, Rev. 3, Loss of CMS Indication
• WP 04-CM3001, Rev. 5, Transportation: 24-Hour Emergency Response
• WP 04-CM3002, Rev. 0, CMR Response to Test Pilot Mine Gas and VOC Monitoring System
• WP 04-CM3003, Rev. 3, CMR Response to Communication Loss Alarm
• WP 04-CM4001, Rev. 0, Loss of Communication Response
• WP 04-CM4002, Rev. 0, PID Alarm Response
• WP 04-CM4042, Rev. 0, CMR Response Roof Fall Underground

The surveillance team reviewed procedures, interviewed responsible personnel, and observed CMR operations associated with the following:

• CMR Conduct of Operations and Central Monitoring System (CMS) Equipment
• Response and Handling of Abnormal Conditions

The surveillance team evaluated activities and responses of CMR and CMS operations, including potential abnormal operating conditions, remote start and shutdown capabilities, the sentinel miner tracking system, and various alarm responses and indications. During observations of the CMR processes, the surveillance team was provided a detailed description of all indicators and monitors located in the CMR, including how access to multiple screens on each monitor is performed. The Central Monitoring Room Operator (CMRO) examines selected screens determined by inquiries and phone calls received from personnel performing site activities and the utilization of controlled CMR procedures.

The surveillance team evaluated the quarterly documentation for management review of the CMR electronic log in accordance with WP 04-CM2005, Central Monitoring Room Electronic Logkeeping. Objective evidence of this management review was evaluated for the third quarter of 2019. However, no objective evidence was provided by Operations
management to determine that a review was performed for the fourth quarter or 2019 (see CAR 20-012).

The records examined included a review of CMR logs and training/qualification files for selected CMROs. Evaluations of CMR training records determined that the CMR training records were complete and current, and personnel were qualified to perform the necessary job functions. In addition, the surveillance team observed shift turnover prior to the beginning of operations for that day. The team confirmed that the CMRO verifies qualifications of Facility Operations personnel at each shift turnover as required.

The surveillance team confirmed that Conduct of Operations was performed through the observation of CMROs using three-way communication when performing functions remotely to ensure the safety of personnel, alarm duration requirements, and for communication of any abnormal operating indications.

The surveillance team observed that individuals can be tracked in the underground by CMR personnel by using the sentinel tracking system that includes the use of the handset ID/brass ID tag process. Miner locations are viewed on an electronic map of the underground, and locations are known and monitored at all times.

CMROs are knowledgeable in the day-to-day operating procedures. During interviews with CMROs, personnel identified how long alarms should sound, when emergency operations would be notified, when the mine team would be activated, what actions would be taken to specific alarms, when the Facility Shift Manager (FSM) would be notified, and when certain specific announcements would be made.

With the exception of the condition adverse to quality described below, the surveillance team determined that the NWP CMR operations are adequate, satisfactorily implemented, and effective.

CORRECTIVE ACTION REPORTS, DEFICIENCIES CORRECTED DURING THE SURVEILLANCE, OBSERVATIONS, AND RECOMMENDATIONS

Corrective Action Reports:

One CAQ was identified during the surveillance.

CAR 20-012

Condition:
The Facility Operations Manager or Designee did not perform a quarterly CMR electronic log review for the last quarter of 2019.
Requirement:
WP 04-CM2005, Rev. 3-FR1, Central Monitoring Room Electronic Logkeeping, step 5.5.1 states: Facility Operations Manager or Designee perform the following: [A] Review CMR Electronic Log quarterly, [B] Document review in CMR Electronic Log.

Deficiencies Corrected During the Surveillance:
No CAQs were corrected during the surveillance.

Observations:
One Observation was identified during the surveillance:
During the surveillance, the team observed that the remote operation of the Support Building Zone 6 Heating, Ventilation, and Air Conditioning (HVAC) High-Efficiency Particulate Air (HEPA) filtration system was unavailable; however, this operation can be performed manually. If the remote function continues to be unavailable, it could lead to a condition adverse to quality.

Recommendations:
No Recommendations were offered for management consideration during the surveillance.

SURVEILLANCE CONCLUSION:
The surveillance team concluded that CMR operations are satisfactory in the implementation of requirements, and effective in achieving the desired results.

Surveillance Team Leader: Tim Boswell, CTAC
Date: 2-3-20

CBFO OQA Approval: Joe Lopez, CBFO
Software Quality Assurance Specialist
Date: 2-6-2020