



Allen, Pam, NMENV

From: Maestas, Ricardo, NMENV
Sent: Wednesday, August 13, 2014 8:36 AM
To: Allen, Pam, NMENV
Subject: FW: WIPP Information - For Call Today
Attachments: 1300 Meeting Action Items 040114.xlsx; Station A and B Filter Readings for Public Release 3-27-14.xlsx; 41-b-856 WHT dp Daily Averages_4-1-14.pdf; 41-b-857 WHT dp Daily Averages_4-1-14.pdf; Radiological Work Permit.pdf; April 1 Meeting notes.docx

April

From: Kliphuis, Trais, NMENV
Sent: Wednesday, April 02, 2014 1:34 PM
To: Flynn, Ryan, NMENV; Kendall, Jeff, NMENV
Cc: Tongate, Butch, NMENV; Winchester, Jim, NMENV; Blaine, Tom, NMENV; Schwender, Erika, NMENV; Skibitski, Thomas, NMENV; Kieling, John, NMENV; LucasKamat, Susan, NMENV; Maestas, Ricardo, NMENV; Holmes, Steve, NMENV; Nelson, Morgan, NMENV; Ines Triay (triayin@fiu.edu)
Subject: FW: WIPP Information - For Call Today

NMED Notes in Blue

From: Oba Vincent
Sent: Wednesday, April 02, 2014 12:22 PM
To: 'Kliphuis, Trais'; 'peake.tom@epa.gov'; 'Edwards, Jonathan'; 'Walsh, Jonathan'; 'Perrin, Alan'; 'Bob.Kehrman@wipp.ws'; 'Rick.Chavez@wipp.ws'; 'Stone.Nick@epa.gov'; 'coleman.smith@state.nm.us'; 'brozowski.george@epa.gov'; 'Fraass, Ron'; 'Russell Hardy'; 'Veal.Lee@epamail.epa.gov'; 'Economy, Kathleen (Economy.Kathleen@epa.gov)'; 'Poppell, Sam W. (Poppell.Sam@epa.gov)'
Cc: George Basabilvazo - WIPPNet; 'Reynolds, Tammy - NWP (Tammy.Reynolds@wipp.ws)'; 'Pace, Berry (Berry.Pace@wipp.ws)'; 'Alton.Harris@em.doe.gov'; Susan McCauslin; 'Joe Harvill (jharvill@portageinc.com)'; 'Kennedy, Scott - NWP (Scott.Kennedy@wipp.ws)'; 'Jones, Stewart - RES'; 'Berta Oates'; 'schultheisz.daniel@epa.gov'; Philip Theisen - ORISE; 'Dale Bignell'; Russ Patterson - WIPPNet; 'Kouba, Steve - WRES (Steve.Kouba@wipp.ws)'
Subject: WIPP Information - For Call Today

Attached is action item listing, and filter status graphs for today's call. I posted the latest data on LANL shipments to WCS on the ICLN portal.

Below is a summary of the discussion points for today: (Please note, activities and dates are subject to change. Please verify the most current dates of any information provided).

- Work has been paused on installation of the vacuum break in the duct; questions are being addressed dealing with design specifications. (No change)
- Station A and B Sampling: A CAM was installed at Station B and is operating. Connection to the Central Monitoring complete. The CAM will be operated until 4/7 in a test mode prior to allowing repopulation of the site.
- A sample collected at Station A from 3/28 had 79 dpm at 72 hours. During the same period Station B showed no increased activity.
- SS and AIS Shaft/Rope Inspections: The AIS was inspected yesterday, no issues identified. The SS will be inspected Thursday.



- Initial Manned Re-entry of U/G: Personnel will enter the mine and survey the area between the SS and AIS. This entry is scheduled to be conducted this afternoon. Started at 12:55 PM today. Should be UG 2-3 hours.
- Establishment of Work Area in the Underground (Phase 2b, Activity 2): Follow-on manned entries will be made in the underground down to S1600 to establish staging areas, decontamination areas, set-up CAMs, test communication and safety equipment. These entries will occur no earlier than Friday, based on the conditions observed today.
- Contamination survey to the waste face (Phase 3): After the area between the shafts is surveyed, a team will enter the mine, perform initial characterization and attempt to identify the contamination source and location. The review of site Safety Management Plans and the implementation of compensatory measures to address critical weaknesses identified in the AIB reports, may impact this entry into or beyond the week of April 7. (No change)
- Replacement HEPA filters are due to arrive starting this week. (No change)
- The first shipment of TRU waste from LANL to WCS occurred yesterday evening. Shipments will continue daily. A summary of the waste being shipped has been posted on the ICLN portal and will be updated weekly.
- Dose calculations and letters are expected to be complete Friday for approximately 20 employees. 27 employees have been identified through bioassay analysis as potentially being exposed. The new individuals who were identified were below the MDC but above the DL (1/2 of MDC and method specific). Additional samples have been provided by several workers. Data evaluation is continuing. May or may not come out later in the week in the press.
- NWP has provided a recommendation to DOE regarding the salt sales, which is being reviewed. (No change)
- Weekly town hall meeting will occur tomorrow. George Brozowski from EPA will be there.
- Release ratio was 10:1 Am:Pu Data with other ratios may be showing noise from tracer
- Tom Peake: What are levels? 1-2 millirem? On Friday NWP will complete dose calculations. First 20 individuals will have dose levels reported. If <10 then non-reportable. Will be share when available. Anticipates most will be below 10 and are lifetime burden. Nothing easy about these calcs.
- EPA stations will be: Farfield (2), South and East?
- Skibitski asked what set points are for Station B CAMs. – They will get back to us.

As a reminder, the call-in number is (866) 723-6758, code 8040901#

Thanks

Oba

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RADIOLOGICAL WORK PERMIT			
1. RWP NUMBER/TYPE: 14-017 / JS	2. RWP PREPARED BY AND DATE Thompson/Chafin 3/31/14	3. VALID FROM (DATE/TIME): 4/2/2014	4. VALID TO (DATE/TIME) 5/2/2014
5. JOB SUPERVISOR: Operations/Radcon Manager		6. JOB LOCATION(S): WIPP Underground	
7. DESCRIPTION OF WORK (With Applicable Technical Work Documents and Titles) <p>Establish a Safe Operating Base in the U/G for Re-Entry Phase 2B.</p> <p>Activities to include air quality checks and ground control assessments. Other activities include performing radiological surveys to characterize the radiological conditions, creating a safe operating base, and establishing radiological boundaries for the surveyed areas, install temporary ventilation stopping at 303/310 airlock, adjust 308 regulator, turning off auxiliary fans, configuring regulator louvers, hoist operations, minor maintenance, housekeeping, PMs, labeling, inspections, and walkdowns as allowed by RCT.</p> <p>*This RWP will require workers to sign in and acknowledge requirements daily*</p> <p>Work Order #1402137</p> <p>Estimated Person-Hours: <u>40</u></p>			
8. RADIOLOGICAL SURVEY REPORT No. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A SVR No. <u>14-0879</u> (see continuation sheet)			
9. CONTAMINATION <input type="checkbox"/> N/A <input type="checkbox"/> UNKNOWN		HIGHEST LEVEL AND LOCATION	
ALPHA	<20 dpm/100cm ²	Location: Ground Level, Conveyance & Station Level	
BETA-GAMMA	<200 dpm/100cm ²	Location: Ground Level, Conveyance & Station Level	
10. AIRBORNE DAC VALUE: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> UNKNOWN			
11. RADIATION <input type="checkbox"/> N/A <input type="checkbox"/> UNKNOWN		HIGHEST LEVEL AND LOCATION	
BETA	<5 mrem/hr	Location: Ground Level, Conveyance & Station Level	
GAMMA (γ)	<5 mrem/hr	Location: Ground Level, Conveyance & Station Level	
NEUTRON	<5 mrem/hr	Location: Ground Level, Conveyance & Station Level	
12. HOT SPOTS <input checked="" type="checkbox"/> N/A <input type="checkbox"/> UNKNOWN		LOCATIONS	
		N/A	
13. MINIMUM TRAINING REQUIREMENTS			
<input type="checkbox"/> RAD WORKER I <input checked="" type="checkbox"/> RAD WORKER II <input checked="" type="checkbox"/> QUALIFIED RCT <input checked="" type="checkbox"/> RESPIRATORY PROTECTION <input checked="" type="checkbox"/> Other: <u>Re-entry mockup training</u>			

RADIOLOGICAL WORK PERMIT

RWP NUMBER: 14-017 / JS

14. MINIMUM PROTECTIVE CLOTHING REQUIREMENTS: N/A

- | | | |
|---|---|--|
| <input type="checkbox"/> FULL SET OF PCS.
- Coveralls
- Cotton Glove Liners
- Rubber Gloves
- Shoe Covers
- Booties
- Hood
- Tape as Directed by RCT | <input checked="" type="checkbox"/> DOUBLE SET OF PCS:
- Two Pair Coveralls
- Cotton Glove Liners
- Two Pair Rubber Gloves
- Two Pair Booties
- Shoe Covers
- Hood
- Tape as Directed by RCT | SEPARATE PC ITEMS:
<input type="checkbox"/> Coveralls
<input type="checkbox"/> Cotton Glove Liners
<input type="checkbox"/> Rubber Gloves
<input type="checkbox"/> Booties
<input type="checkbox"/> Shoe Covers
<input type="checkbox"/> Hood
<input type="checkbox"/> Lab Coat
<input type="checkbox"/> Surgeons Gloves |
|---|---|--|

 Other: See Special Instruction #115. DOSIMETRY REQUIREMENTS: N/A

-
- TLD (badge)
-
-
- EPD
-
- Dose Rate On: _____ mrem/hr Dose Rate Off: _____ mrem/hr

 EXTREMITY TLD (LOCATION): _____ Other: N/A16. RELEASE SURVEY REQUIREMENTS: N/A

-
- EQUIPMENT/ITEM
-
-
- PERSONNEL - WHOLE BODY FRISK
-
-
- PERSONNEL - HAND AND FOOT FRISK

 Other: See Special Instruction #217. MINIMUM MONITORING REQUIREMENTS: N/A

- | | |
|---|--|
| <input type="checkbox"/> At Start of Job
<input type="checkbox"/> Intermittent
<input checked="" type="checkbox"/> Continuous
<input type="checkbox"/> Completion of Job | <input checked="" type="checkbox"/> Alpha
<input checked="" type="checkbox"/> Beta/gamma
<input type="checkbox"/> Neutron
<input checked="" type="checkbox"/> Contamination
<input checked="" type="checkbox"/> Radiation
<input checked="" type="checkbox"/> Airborne Monitoring |
|---|--|

 Other: See Special Instruction #318. RESPIRATORY PROTECTION: N/A

-
- Negative Pressure Air Purifying Respirator (PF 50)
-
-
- Powered Air Purifying Respirator (PF 1000)
-
-
- Self-Contained Breathing Apparatus (PF 10,000)

 Other: See Special Instruction #4

19. RADIOLOGICAL AREAS AUTHORIZED:

- | | | |
|--|---|---|
| <input type="checkbox"/> RADIATION AREA
<input type="checkbox"/> HIGH RADIATION AREA
<input type="checkbox"/> VERY HIGH RADIATION AREA | <input checked="" type="checkbox"/> CONTAMINATION AREA
<input checked="" type="checkbox"/> HIGH CONTAMINATION AREA | <input checked="" type="checkbox"/> AIRBORNE RADIOACTIVITY AREA |
|--|---|---|

 Other: Radiological Buffer Area upon exit

20. LIMITING CONDITIONS OF RADIATION AND CONTAMINATION:

REMOVABLE CONTAMINATION LIMITS: ALPHA: 10,000 dpm/100 cm² BETA: 100,000 dpm/100 cm²

RADIATION LIMITS: DOSE RATES: 5 mrem/hr at 30 cm from source of radiation

AIRBORNE LIMITS DAC: 180 DAC-hr** See continuation sheet & Special Instruction #5

21. SPECIAL INSTRUCTIONS:

- 1) Two pair of rubber gloves shall be worn. Inner pair of gloves shall be taped to coveralls. Hood shall be taped to respirator.
- 2) All equipment/material/tools exiting the ARA, CA, or RBA shall be surveyed by RCT prior to release. All personnel exiting the ARA/CA shall have a whole body frisk prior to doffing PPE. All personnel exiting the CA shall have a whole body frisk. All personnel exiting the RBA shall have a hand and foot frisk.

(CONTINUED ON FOLLOWING PAGE)

Continuation Sheet for Special Instructions (section 21)

- 6) **Good Conduct of Radiological Work practices shall be used in the U/G by all team members to minimize dust generation, airborne contamination, and the spread of contamination. Examples include but are not limited to:**
 - No shuffling of feet
 - Reduction of baggy coveralls
 - Walking in main travelways
 - Only touch or handle items that have been surveyed by RCT
- 7) **A direct frisk of the filter will be performed at Station A every hour while personnel are in the U/G. If the results indicate activity >2,000 dpm/100cm² alpha or >10,000 dpm/cm² beta-gamma, the CMR will notify the re-entry team to exit the U/G.**
- 8) **Generated radiological waste will be sealed, surveyed, and tagged by RCT prior to removal from the CA and RBA. Ensure contaminated smears and filter papers are disposed of as waste and not transported to the counting room.**
- 9) **Lapel Air Samplers shall be worn to monitor for potential internal exposure to team members. One Lapel Air Sampler may be used for up to six team members (seven including the wearer), with at least one Lapel Air Sampler per team.**
- 10) **All workers shall have submitted a baseline urine sample. Follow-up bioassay samples shall be submitted per RC Timely Order #14-006.**
- 11) **Should PPE become compromised (i.e., ripped or torn coveralls), suspend work and report to RCT for survey, evaluation, and possible repair.**
- 12) **Shoe covers shall be surveyed after approximately 100 feet have been traversed. Use extreme caution when approaching bulkhead 308. Increase surveying of shoe covers and utilize extended tools for survey instruments.**
- 13) **Transition areas will be established as radiological conditions are defined. Transition areas shall be comprised of:**
 - Postings & Radiological Barricades
 - Step-Off Pads
 - Doffing Instructions
 - Waste Receptacles
- 14) **RCT to survey the inside and outside of the PAPR facepiece for release.**
- 15) **RCTs shall observe the face of portable instruments for dust loading and clean/replace as necessary. RCTs shall use caution with the face of portable survey instruments on rough surfaces.**

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- 16) RCTs shall review Rad Engineering survey rules of thumb regarding limitations of survey techniques and survey instruments prior to entry.
- 17) RCT to mark/designate location of first indication of contamination.
- 18) Ensure adequate transition materials (e.g., spare coveralls, gloves, shoe covers) are staged on cart and available to workers if needed.

Assumptions and Justifications

*Referenced survey 14-0879 was performed on Salt Shaft on 3/26/2014 and includes collar, shaft walls, conveyance, bonnet and station level.

**180 DAC-hr is a conservative limiting condition based on the Protection Factor of PAPR with loss of battery (50PF x 4 DAC-hr = 200).

RADIOLOGICAL WORK PERMIT		
RWP NUMBER: 14-017 / JS		
22 ESTIMATED COLLECTIVE DOSE: see below		
PERSON - HOURS (FROM BLOCK 7): 40 Average dose rate: 0.05 mrem/HR		
= ESTIMATED COLLECTIVE DOSE 2 mrem		
23 ALARA SCREENING ALARA REVIEW COMPLETED <input checked="" type="checkbox"/> YES <input type="checkbox"/> N/A		
<div style="display: flex; justify-content: space-between;"> <i>Robert Hayes</i> <i>Robert Hayes</i> <i>4/2/14</i> </div>		
ALARA COORDINATOR PRINTED NAME SIGNATURE DATE		
24 APPROVAL FOR USE		
<div style="display: flex; justify-content: space-between;"> <i>Duane Mc Lane</i> <i>DM</i> <i>4/2/14</i> </div>		
RADIOLOGICAL CONTROL MANAGER PRINTED NAME SIGNATURE DATE		
25 JOB SUPERVISOR REVIEW		
JOB SUPERVISOR PRINTED NAME SIGNATURE DATE		
26 PRE-JOB BRIEF COMPLETED <input type="checkbox"/> YES <input type="checkbox"/> N/A		
JOB SUPERVISOR PRINTED NAME SIGNATURE DATE		
27 RWP CLOSEOUT:		
JS PRINTED NAME SIGNATURE DATE		
RC MANAGER PRINTED NAME SIGNATURE DATE		
28 POST-JOB REVIEW COMPLETED <input type="checkbox"/> YES <input type="checkbox"/> N/A		
ALARA COORDINATOR PRINTED NAME SIGNATURE DATE		
29 POST-JOB SURVEY: <input type="checkbox"/> YES <input type="checkbox"/> N/A RAD SURVEY # _____		
RCT PRINTED NAME SIGNATURE DATE		

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21. SPECIAL INSTRUCTIONS (CONTINUED):

3) Continuous RCT coverage will be provided for the top lander, bottom lander, and all team members in the U/G. Air sampling (workplace and/or CAMs) shall be established at the following locations:

- Salt collar windbreak - lcam
- SabreCAM outside Bottom lander's conex (safe operating base)
- Breathing zone of team members - SabreCAM & F&J
- West-30: SabreCAMs every 300 feet, as electrical receptacles allow

CAM alarm setpoints shall not exceed 180 DAC-hr for PAPR use** (see continuation sheet) and shall not exceed 8 DAC-hr for CA use. Monitor CAM filter media frequently and change out filter media as needed due to buildup. This RWP will be terminated if any air activity is detected above established alarm setpoints on alarm-capable CAMs or probe values exceed 2700 dpm alpha or 3.6E6 dpm beta-gamma above background for PAS. In the event of a CAM alarm, work will be suspended and workers shall move to a safe, unaffected location 100 feet upwind and be surveyed by RCT. RCT shall evaluate and acknowledge the CAM alarm. If CAM alarm was due to high activity, RCT to perform a whole body frisk on workers. RCT to segregate contaminated workers from non-contaminated workers. RCT to assist with doffing of contaminated PPE and don new PPE for egress back to Salt Shaft.

4) Combination filters (HEPA & Organic) will be worn with PAPRs for initial entries and as specified per IH/RC direction for subsequent entries. Teams shall take extra batteries for PAPRs. (Note: PAPRs have a protection factor (PF) of 1000 with battery power and a PF of 50 without battery power. Consequently, the battery should only be changed if a loss of power occurs.)

5) This RWP will be terminated if transferable contamination is detected above limiting conditions on page 2, section 20. Rules of thumb: 10uR/hr is approximately equal to 10,000 dpm/100cm² alpha. When frisking, 2 times background is approximately equal to 5,000 dpm/100cm² alpha and 4 times background is approximately to 10,000 dpm/100cm² alpha. The limiting conditions apply to all areas, including PPE. Workers shall move at least 100 feet upwind to a safe location and have RCT perform a whole body frisk. RCT to segregate contaminated workers from non-contaminated workers. RCT to assist with doffing of contaminated PPE and don new PPE for egress back to Salt Shaft.

See attached continuation sheets