

MEETING MINUTES



To: NECR Removal Action Design Advisory Group
Date: September 20, 2013
Client: General Electric
From: Toby Leeson
Project: NECR Removal Action
PM: Toby Leeson
Subject: Draft Meeting Minutes for the 9/11/13 Design Advisory Group Meeting in Albuquerque, NM and Follow-up Conference Call on 9/18/2013

Attendees:	See attached sign-in sheet
Discussions:	<p>GE/UNC, MWH, and Dwyer Engineering gave a presentation and facilitated a discussion on the following topics:</p> <ol style="list-style-type: none"> 1. Design Process Overview and Schedule 2. Summary of Removal Action Design Elements 3. Conceptual Repository Layouts 4. Repository Design Specifics 5. Summary of PDS Sampling Tasks / Responses to Agency Comments 6. Mill Site Historic Data Review and Proposed Impoundment Characterization 7. Other Mill Site PDS Tasks 8. Mine Site PDS investigations 9. Proposed Health and Safety Measures 10. Demo of Analog Field Measurement Equipment 11. Next Steps/Action Items <p>More detailed responses to agency comments discussed at the meeting and during the conference call are reflected in the final <i>Pre-Design Studies Sampling and Analysis Plan</i> (MWH, 2013).</p> <p>During the meeting, numerous action items were identified, which are listed below. Additionally, EPA Region 9 forwarded a list of their action items in an email to the Design Team, dated September 17, 2013; these action items are listed in the attachments.</p>

Action Items		
Item	Description	Action By
1	NRC – reference prior NRC concerns (jetty, swales, etc.) in sampling plan.	MWH
2	DOE – include a punch on CPT to attempt to address refusal - this will be updated in the PDS Work Plan based on discussion with ConeTec.	MWH
3	NRC – on figure(s) show proposed sample locations relative to historic borings (possibly match sample locations with borings shown on Appendix B-1, Figure 4).	MWH
4	Consider moving location 11 east to target Zone 1 – MWH will evaluate the presence of debris, to see if suitable locations exist to target the tailings/zone 1 contact.	MWH
5	NRC – provide a table (or summary) of ranges of impoundment thicknesses, including information related to the distribution of fine vs. coarse tailings.	MWH
6	NRC – Prepare a table of proposed borings indicating the criteria for selecting each location.	MWH
7	Define unexpected conditions and approach for addressing each. As discussed, we may need to analyze remolded samples if undisturbed samples can't be obtained and we may need to rely on RCPT if recovery is poor).	MWH
8	EPA - Add Zone 1 sampling and laboratory testing – this will be included in updated Work Plan.	MWH

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9	DOE – radon diffusion changes (structural planes) will be assessed based on the results of the PDS (e.g., analog testing). The predesign studies will only disturb a small area of the existing tailings cover and therefore if desired, it should also be possible to evaluate changes to the cover at a later date.	MWH
10	Reference an comparison of infiltrometer to block sampling to support the proposed sampling (re-evaluate after call with Jody Waugh)	Dwyer
11	Add collecting infiltrometer data from 4-5' at analog sites. Consider conducting infiltrometer testing at more than one location at each depth interval at each analog site.	MWH/Dwyer
12	Southern borrow area has been disturbed; therefore the northern borrow area is likely a more representative analog. This will be clarified in the revised PDS and suitable analog locations (e.g., undisturbed locations) will be proposed subsequent to the initial field survey based on the input from our vegetation specialist.	MWH
13	DOE – collect vegetation analog, soil analog and soil data from the same location. Based on comment 10, we will re-evaluate the need to perform more than a screening level testing of the northern borrow area and update the PDS accordingly, if applicable.	MWH
14	NRC – show consistent boundaries for mine site areas – this will be updated in the PDS Report/Design Work Plan.	MWH
15	NRC – quantify waste streams – RAD/TPH, debris (mine vs mill), mine waste, PTW – this will be included in design	MWH
16	Cultural resources – questions arose about the need for conducting a cultural resources survey at the mine site. NNEPA requested that a survey of the entire areas within and around the mine and mill sites be conducted. The PDS Work Plan for the mine site will be revised to include a cultural resources survey. An area-wide survey will be considered in conjunction with the overall project and upcoming license amendment request.	MWH
17	DOE – look into possibility of using down-hole probe at mine site? MWH believes that the current proposed sampling, scanning and testing program, which has been proven effective in prior investigations is sufficient to evaluate the distribution and volume of PTW. Therefore, down-hole gamma scanning will not be performed.	MWH
18	NRC – requested a detailed schedule for the PDS and beyond and requested that they be notified at least two weeks prior to mobilization for the PDS at the Mill site, as they would like to have an NRC staff member on-site during the sampling. EPA Region 6 indicated that they would like to be on-site as well during the sampling at the mill site.	MWH
19	NRC/DOE – requested that a copy of the Sandia report on cover instrumentation be added to the Team site.	Dwyer/MWH

Next Meeting:	To-be-determined
Attachments:	Attendee sign-in sheet
Distribution:	Attendees (see sign-in sheet)

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ATTACHMENT 1 – MEETING SIGN-IN SHEET

DRAFT

United Nuclear Corporation/Northeast Church Rock Mine Site

Design Team Meeting

BIA Southwest Regional Office

Albuquerque, NM

September 11, 2013

Sign-In Sheet

	Name / Agency	E-mail	Phone
1	Sara Jacobs EPA Region 9	jacobs.sara@epa.gov	415-972-3564
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ATTACHMENT 2 EPA ACTION ITEMS

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Action Items Identified by EPA Region 9 in their email dated September 17, 2013.

- 1) GE will provide a red-line mark-up version of the Sampling Plans incorporating comments from the agencies.
- 2) GE will provide a detailed schedule of the sampling event.
- 3) GE will prepare a memo or document discussing the original conceptual layouts proposed and the rationale for excluding some of them. (not needed anytime soon – can be part of the alternative analysis)
- 4) EPA will look into requirements for transporting samples across 566
- 5) GE will prepare a table summarizing the purpose of each boring
- 6) EPA will coordinate a conference call to ensure input from Jody Waugh who was unable to attend the meeting.
- 7) GE will prepare a chart including the various waste streams, volumes, locations, and destinations (for example, PTW, TPH, metals, other debris, etc.). (not needed anytime soon – can be part of the design)
- 8) EPA will provide test results for Unnamed Arroyo #2 to Navajo Nation.
- 9) EPA will discuss groundwater contamination concerns with the Navajo Nation on September 17.
- 10) EPA will provide information to the Navajo Nation about the development of the 200 piC/g Principal Threat Waste value.
- 11) EPA will send a list of Superfund JTI trainees to GE for possible use during the sampling event.
- 12) NRC and EPA will send approval letters after review of red-line mark-up version is submitted.