

SM-1A Pre-Technical Project Planning Meeting

June 11 & 12, 2020

Meeting Notes

General Information:

Two sessions were conducted using the Microsoft Teams virtual meeting tool. Each session consisted of a PowerPoint presentation summarizing the project including question and answer (Q&A) sessions following major sections of the presentation. Presenters from the United States Army Corps of Engineers (USACE) were Brenda Barber and Hans Honerlah.

Presentation Summary:

1. Introduction and Welcome Remarks
 - a. Kevin Taylor from the Joint Venture Team served as session moderator.
 - i. Roll call of participants identified 44 attendees for June 11 and 25 attendees for June 12 (not counting JV and CENAB team members). Attendees are listed in Appendix A.
 - ii. Explanation of format for the meeting including an overview of the agenda, sessions to be covered, and opportunity for Q&A.
 - iii. Email copies of the presentation provided to attendees upon request
 - iv. Introduction of USACE speakers Brenda Barber and Hans Honerlah.
2. Operational History and Context – Session Introduction by Brenda Barber, Session Presentation Hans Honerlah
 - a. Overview of the U.S. Army Nuclear Power Program
 - b. Current regulatory framework and oversight
 - c. Army Deactivated Nuclear Power Plant Program
 - d. SM-1A operating history
 - e. SM-1A location map identifying Ft. Greely, AK and surrounding attributes
 - f. SM-1A deactivation and encasement history
 - g. Timeline of activities associated with SM-1A from construction start through decommissioning contract award
 - h. Overview of the operation of a typical pressurized water reactor
 - i. Primary radionuclides
 - j. Radioactive decay since shutdown
 - k. Discussion of primary radionuclides of potential concern (ROPC) and contaminants of potential concern (COPC)
 - l. Question & Answers
 - i. no input from participants

3. Proposed Action - Session presentation by Brenda Barber
 - a. Applicable Regulations
 - b. Affected Areas of SM-1A
 - i. Reactor Facility & wells
 - ii. Building 606
 - c. SM-1A Previous Decommissioning Actions
 - i. Waste line removal (1997–1999)
 - ii. Site Characterization (2011)
 - iii. Data Gap Analysis (2018)
 - iv. Ongoing supplemental characterization (2019-2020)
 - d. Proposed Action
 - i. Preliminary Actions
 1. Replacement or relocation of existing Doyon systems from Bldg. 606N to Bldg. 606S
 2. Temporary relocation of Doyon operations and storage
 3. Receive Decommissioning Permit from Army regulator
 4. Preparation of laydown and containerized waste storage areas
 - ii. Primary Activities
 1. Hazardous materials abatement (asbestos and lead based paints, etc.)
 2. Removal of spent fuel pit
 3. Removal of waste in demineralizer room
 4. Removal of waste from waste tank pit
 5. Demolition of Bldg. J-5
 6. Demolition of Bldg. 606N
 7. Radioactive contamination control and monitoring
 - iii. Associated Activities
 1. Determination of No Further Action during decommissioning activities
 2. On-going documentation in Technical Memoranda
 3. Localized Soil remediation
 4. Non-radioactive contaminants remediation
 5. Localized soil waste transport (low level radiological waste)
 6. Removal of waste water pipeline
 7. Abandon 3 wells in place
 - iv. Final Activities
 1. Ship final radioactive waste
 2. Routine shipping during construction season
 3. Final Status surveys
 4. 3rd-party verification surveys
 5. Reporting/Documentation
 - e. Worker and Public Safety

- i. is the Army's Number One Priority
 - ii. safety measures
 - iii. Public safety measures
 - f. Question and Answers
 - i. Discussions are captured in Appendix B Summary of Question and Answers (Q&A) for both the June 11 and 12 sessions.
- 4. Waste Generation, Storage, Transport and Disposal - Session presentation by Hans Honerlah
 - a. Waste definitions
 - i. Free released materials
 - ii. Recourse Conservation and Recovery Act (RCRA) wastes
 - iii. Toxic Substances Control Act (TSCA) waste
 - iv. Low Level Radioactive Waste (LLRW)
 - v. Mixed low level radioactive waste
 - vi. Exempt waste
 - b. Waste generation estimated volumes
 - c. Hazardous waste generation types, location and estimated quantities
 - d. Waste storage
 - e. Disposal options
 - i. Free released materials
 - 1. Regional and municipal landfills or recycling
 - ii. RCRA waste
 - 1. Regional landfills in the Pacific NW
 - 2. Treatment or disposal in AK facilities
 - iii. LLRW
 - 1. Waste Control Specialist (WCS), Andrews, TX
 - 2. Nevada National Security Site (NNSS) Nevada
 - 3. DOE Hanford, WA
 - 4. Energy Solutions, UT
 - 5. US Ecology, ID
 - f. Waste transportation options being considered
 - i. Truck shipments (Ft. Greely to Fairbanks Depot)
 - ii. Rail shipments (Fairbanks Depot to Port of Anchorage)
 - iii. Barge shipments (Anchorage to Tacoma, WA)
 - g. Other waste transport considerations
 - i. Large components – highway restrictions/escorts
 - ii. Heavy Loads – road damage restrictions
 - iii. Security and tracking
 - iv. Oversized loads
 - h. Questions & Answers

- i. are captured in Appendix B Summary of Question and Answers (Q&A) for both the June 11 and 12 sessions.
5. Regulatory Framework – Session presentation by Brenda Barber
- a. National Environmental Policy Act (NEPA)
 - i. Environmental Assessment (EA)
 - 1. Intent and Decision
 - a. Inform decision makers and public
 - b. Measures to minimize potential environmental effects
 - 2. Purpose and Need
 - a. Purpose – remove, transport and dispose of materials and release site for unrestricted use
 - b. Need – complete decommissioning with 60 years of final shutdown in accordance with regulations
 - 3. Alternatives
 - a. No Action Alternative
 - b. Proposed Action Alternative
 - c. Dismissed Alternatives
 - 4. Effects Analysis
 - a. Environmental, social and economic effects
 - 5. Public Involvement
 - a. Scoping letters to stakeholders and Native tribes
 - b. 30-day public review of draft EA and various public meetings
 - c. Publication of Draft EA
 - d. Response to comments in Final EA
 - 6. Agency Involvement
 - a. AK and Federal agencies
 - b. AK Native tribes
 - c. Comments (both public and agency) to be addressed in the Final EA
 - ii. National Historic Preservation Act (HNPA)
 - i. Section 106 – effects to resources listed or eligible for inclusion in the National Register of Historic Places (NRHP)
 - 1. Consult, identify, assess effects, resolve adverse effects
 - ii. Consultation under Section 106
 - 1. USACE lead Federal Agency
 - 2. U.S. Army Garrison Alaska involvement
 - 3. Consultation with State Historic Preservation Office (SHPO)
 - 4. Tribal consultation
 - iii. Cultural Resources Technical Report
 - 1. NRHP eligibility

2. Assess effects on historic properties
 3. Archeology
 4. Guided by Fort Greely's Integrated Cultural Resources Management Plan
 5. Mitigation/SHPO
- c. Questions & Answers
- i. Discussions are captured in Appendix B Summary of Question and Answers (Q&A) for both the June 11 and 12 sessions.
6. Project Deliverables and Stakeholder Engagement
- a. SM-1A Decommissioning Planning Scope
 - b. SM-1A Key Deliverables
 - i. Disposal Plan, Schedule and Cost Estimate
 - ii. Decommissioning Plan
 - iii. Waste Management and Disposal Plan
 - iv. Environmental Assessment
 - v. Section 106 Effects Assessment
 - c. USACE Resources and Federal Oversight
 - i. Listing of Federal project and oversight team members
 - d. Project Stakeholders
 - i. Identify stakeholders including Regulators, Federal and State officials, other governmental agencies, Local Tribes, Property owners, Public interest groups
 - e. Public Engagement
 - i. Transparent process
 - ii. Technical Project Planning meetings
 - iii. Public engagement through NEPA and NHPA processes
 - f. Questions & Answers
 - i. Discussions are captured in Appendix B Summary of Question and Answers (Q&A) for both the June 11 and 12 sessions.

Concluding Information:

Both sessions ended with information directing participants to online resources to learn more about the project and to receive email updates.

Appendix A. Participant List
SM-1A Pre-Technical Project Planning Meeting

o - participated
x - did not participate

Last Name	First Name	Organization	Department/Group/Title	Thursday 11-Jun-20	Friday 12-Jun-20
Anderson	Ryan	AK DOT	Northern Region Headquarters - Fairbanks (Regional Director)	x	x
Andrews	Jeffrey	USACE		x	o
Bailey	Charles	Fort Greely	UP Chief	o	x
Baker	Shawn	Fort Greely	Director of Public Works	o	x
Balogh	Greg	Nat Marine Fisheries	Protected Resources Division	x	x
Barnett	Chelsea	Alaska DNR	DMLW-Statewide Abatement of Impaired Land (SAIL) Section	x	o
Barrett	Tom	AK DNR		o	x
Bartus	Dave	EPA Region 10	Land, Chemicals, and Redevelopment Branch (Cleanup, PCB Radioactive Waste)	o	x
Bates	Randy	ADEC	Division of Water	x	x
Baugh	Steve	Fort Greely	Division Chief, Operations Support Division - Alaska Region Missile Defense	x	x
Berg	Kimberly	USACE-Baltimore		x	o
Bittner	Judith	AK DNR	Division of History & Archaeology	x	x
Blake	Erica	ADEC	Contaminated Sites Program, Environmental Program Specialist	o	x
Boring	Crystal	ARO	Office of the Chief of Public Affairs (OCPA)	o	x
Bowdre	Steven	Fort Greely	DPW, Operations and Maintenance Chief	x	x
Brase	Audra	Fish and Game	Regional Supervisor	x	x
Bruning	Darren	Fish and Game		o	o
Budnick	John	USACE		x	x
Burns	Patty	AK DNR		o	x
Busse	John			o	x
Buteyn	Douglas	ADEC	Solid Waste Regional Manager	o	x
Campbell	Kendall	USACE-Alaska	Tribal Liaison	o	x
Carpenter	Christy	ADEC	Division of Environmental Health	o	x
Carter	Tracy	Fort Greely		x	x
Casares	Irene	State Public Health Laboratories	Department of Health & Social Services - Radiological Health Physicist	o	x
Castellane	Stephen	USACE	Environmental and Munitions Center of Expertise	o	o
Castleberry	Tim	Doyon	Superintendent	o	x
Clements	Julie	USACE	Environmental and Munitions Center of Expertise	o	x
Cook	Elizabeth	US Army Garrison AK	Cultural Resources Manager/Native Liaison USAG Alaska	x	o
Coyley	Shane	Doyon (HQ)		o	x
Crofford	Ron	Fort Greely	Director of Public Works - Environment	o	x
Dunleavy	Mike	State of Alaska	Office of the Governor	x	x
Eagleton	Matt	Nat Marine Fisheries	NMFS Alaska Region	x	x
Ebel	John	ADEC	TAPS and Interior Unit Supervisor	x	o
Edwards	Alice	ADEC	Division of Air Quality (Director)	x	x
Feige	Corri	AK DNR	Office of the Commissioner	x	x
Flemming	Shiela	EPA Region 10	Superfund & EMD, Director	x	x
Fordham	Earl	NWIC	Compact Chair and Executive Director	x	x
Frey	Bryan	ARO	G-9 Member to the Army Reactor Council	o	x
Garcis-Aline	Sandra	US DOT	Federal Highway Administration, Alaska Division	x	
Goodrum	Brent	AK DNR	Division of Mining, Land, and Water	x	x
Gottesman	Justin			x	o
Grasser	Edward	Fish and Game	Wildlife Conservation	x	x
Green	Rick	Fish and Game	Assistant to Commissioner	o	o
Hamlin	Tim	EPA Region 10	Land, Chemicals, & Redevelopment, Director	x	x
Hearty	Brian	USACE-HQ	National Deactivated Nuclear Power Reactor Program Manager	o	o
Hermon	Kathryn (MAJ)			o	x
Holland	Kaylie	ADEC	Solid Waste Program, State POC for Northwest Interstate Compact (NWIC)	o	x
Johnson	Joel	Fort Greely	Installation Command	x	x
Julick	Scott	ARO		x	x
Kimbrell	Leila	US Senate	Senator Murkowski's Office	x	x
King	James	AK DNR	Division of History & Archaeology	x	x
Klein	Samuel	US Army	Army Environmental Command	x	x
Koch	Denise	ADEC	Spill Prevention and Response (Director)	x	x
Kolas	Christy	AK DNR	Division on Mining, Land, and Water	o	x
Kowalski	Edward	EPA Region 10	Enforcement & Compliance, Director Prevention Preparedness and Response (Cook Inlet & Kodiak Region)	x	x
Krebs-Barsis	Lisa	ADEC		x	
Kurland	Jon	Nat Marine Fisheries	Protected Resources Division	x	x
Latka	Rebecca	USACE	Huntsville Center of Expertise (NEPA)	o	x
Lazo	Carlos	USACE-Baltimore		x	o
Lehner	Neil	ADEC	Industrial Waste Specialist (Municipal and Military Landfills)	o	x
Leith	Mary	City of Delta Junction	City Administrator	x	o
Lemanski	Matt	US Coast Guard	Sector Anchorage	o	o

Levine	Richard	US Army	Office of the Chief of Public Affairs (OCPA)	0	x
Liles	Darrell	USACE	Environmental and Munitions Center of Expertise	0	0
Limpinsel	Doug	Nat Marine Fisheries	NMFS Alaska Region, Habitat Conservation Division	x	x
Lorenz	Jeff	USACE-Baltimore	Office of Council	0	x
MacKinnon	John	AK DOT	Commissioner	x	x
Maier	Bill	NRC POC		0	x
Mainer	Mike	Fort Greely		0	x
Marecllus	Eric (LTC)	AK Army National Guard		x	0
Matthews	Robert	Fort Greely	Chief of Physical Security	x	x
Matthias	Karen	Northwest Seaport Alliance	Alaska Representative	0	x
McAuley	Jim	EPA Region 10	Air and Radiation Division	0	x
McBee	Alan	USDA	Natural Resources Conservation Service	x	x
Meitl	Sarah	AK SHPO	Division of History & Archaeology	x	0
Mendivil	Gary	ADEC	Office of the Commissioner	0	x
Mikulski	Tim	ARO		x	x
Millard	Alyssa	AK DNR	DMLW-Statewide Abatement of Impaired Land (SAIL) Section	x	0
Mosser	Jennifer	EPA-HQ	Office of Air and Radiation (Washington, DC)	0	x
Ogle	Kimberly	EPA		0	x
Opalski	Dan	EPA Region 10	Water Division, Director	x	x
Palmer	Leo	Fort Greely		x	x
Parsons	Marty	AK DNR	Director, Division on Mining, Land, and Water	0	x
Poirier	Meghan (LTC)	USAG-Alaska	Legal Council	x	x
Prins	Robert	ARO		x	0
Proulx	Jeanne	AK DNR	Division of Mining, Land, and Water	0	x
Ribuffo	Steve	Port of Anchorage		x	x
Rogers	Mike	USACE-Baltimore	Chief, Environmental and Munitions Design Center	x	0
Sakalaskas	Jason	AK DOT	Public Facilities Maintenance and Operations Chief	x	0
Sample	Laura	Fort Wainwright	DPW - NEPA Program Manager	x	x
Sawyer	Mike	USACE-Alaska	Chief Environmental Resources, Civil Works	0	0
Schuster	Michael	USACE-Baltimore		x	x
Shonkwiler	Glenn	US Army	Space Missile Command, Environmental Division	0	x
Shubert	Phil	ARO		x	x
Sonderland	Dianne	EPA Region 10	Operations Office	x	x
Spiegel	Rebecca	ADEC	Prevention Preparedness and Response (Section Manager)	x	x
Sprau	Matt	Fort Wainwright	Director of Public Works	x	x
Stockbridge	Jill	ADEC	Conservation Spill Prevention and Response	x	0
Thomas	James	Doyon		0	x
Tyler	Yvonne	US Army	G-4 Review	x	x
Van Dongen	Mark	Port MacKenzie		x	x
Vanhorne-Sealy	Jama (LTC)	ARO	Manager, Army Reactor Program	x	0
Vincent-Lang	Douglas	Fish and Game	Commissioner	x	x
Viswanathan	Krishna	EPA Region 10	Air & Rad, Director	x	x
Walsh	Jonathan	EPA		x	x
Waples	Richard	USACE	Environmental and Munitions Center of Expertise	x	0
Welch	Michael	City of North Pole	Mayor	x	x
Willey	Durea	USACE		x	x
Wilson	Jason	USACE	Fort Greely	0	x
Wulf	Lynn	US Army	G-4 Review	x	x
Yoder	Sarah	ADEC	ADHS Environmental Health	0	x
Ziolkowski	Craig	ADEC	Interagency Coordinator/USNRC State Liaison Officer	x	0

Appendix B. Summary of Q&A



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Arlington, VA 22201

703.682.4900 tel
703.927.4345 fax

SM-1A Pre-Technical Project Planning Meeting

Summary of Questions and Answers (Q&A)

Project Title: SM-1A Decommissioning Project
Meeting Date: 11 and 12 June 2020; 1200-1600
Subject: SM-1A Pre-Technical Project Planning (TPP) Meeting
Meeting Location: MS Team Conference Call
Attendees: Participant list is provided as a separate document.

Pre-TPP Session 1 (11 June) – Summary of Q&A

Section 3. Proposed Action

- Jim McAuley EPA Region 10 wanted a description of the ventilation associated with the work.
 - Hans Honerlah (USACE) responded that the level of detail will be obtained when USACE selects the decommissioning contractor, but that it will likely be under negative pressure.
- Jeanne Proulx – Alaska Department of Natural Resources (ADNR), Mining, Land and Water – asked whether sampling requirements included third party independent verification and whether this was done earlier, especially at Jarvis Creek?
 - Hans Honerlah (USACE) responded that previous sampling did not have third party verification during the initial surveys. It is required at the point of releasing the property at completion of decommissioning work. However, USACE could consider this for future sampling if it was a State of Alaska requirement.
 - Brian Hearty (USACE) added that he was a Health Physicist during Base Realignment and Closure (BRAC) and worked on the Jarvis Creek removal in the 1990s, and noted that the Alaska District Contractor completed the work, USACE developed an independent survey plan and had a separate team do an independent (but in-house) verification, which was completed in 2004. Brian also noted that in 2011 they looked for additional potential contamination but did not find anything requiring additional remediation.

Section 4. Waster Generation, Storage, Transport and Disposal

- Neil Lehner Alaska Department of Environmental Conservation (DEC), Solid Waste – asked if USACE could provide copies of the preliminary sampling reports to inform any future sampling and characterization work that may be required.
 - Hans Honerlah (USACE) responded that this shouldn't be a problem, and that a large file transfer will be needed (or burn DVD).
 - Brian Hearty (USACE) noted that the report does not have a lot of data on non-impacted, very low-level waste, and therefore much of the report won't be applicable to waste that could be disposed of in Alaska.
- Kim Ogle EPA Region 10 RCRA – noted that US Ecology is currently not operating due to a fire, and that the project's Disposal Plan will need to address compliance issues associated with staged waste exceeding timeframes. Also, Alaska State agencies don't have hazardous waste programs so USACE will need to work with Region 10.

Section 5. Regulatory Framework

- No questions or comments.

Final Questions/Concerns:

- Mike Herrata – thanked USACE for putting the presentation together, and that he and his agency look forward to working with USACE in the future.
- Neil Lehner – clarified who he could reach out to, to receive the preliminary sampling/characterization reports.
 - Brenda Barber confirmed that they will provide it to him and discuss applicability/use of the reports.

Pre-TPP Session 2 (12 June) – Summary of the Q&A

Section 3. Proposed Action

- Rick Waples – briefly talked about Army Reactor Office (ARO) relationship to the Nuclear Regulatory Commission (NRC) and Department of Defense (DOD).
 - USACE confirmed that it follows NRC requirements but to a less extent DOD requirements, and that it is best to direct this question to the ARO.
- Rob Prins (ARO) – responded to the above question regarding ARO, noting that ARO serves as its own regulatory body similar to the NRC. Almost all their activities will follow as much as possible, the NRC procedures, requirements, etc.
- Rick Waples – enquired who will sign shipping records.
 - Hans Honerlah (USACE) responded that it will likely be someone from the USACE team at the site, either the Engineer or Health Physicist.
 - USACE will have their own EPA waste number so not to affect the status of the Fort Greely generator.

Section 4. Waste Generation, Storage, Transport and Disposal

- Jill Stockbridge Alaska DEC – asked to discuss waste stream and encountering diesel spill near the SM-1A site.
 - USACE confirmed that they want to transport as much material off-site before they start to remove POL lines and soil that may be contaminated by the diesel.
- Craig Ziolkowski Alaska DEC – asked why Port of Anchorage was chosen as opposed to Whittier?
 - USACE responded that based on frequency of trips out of Anchorage it provides USACE with more flexibility, whereas Whittier had fewer options.
- Craig Ziolkowski Alaska DEC – noted that there is a straight line to Whittier via railroad.
 - Brenda Barber responded that USACE will reach out to Whittier to find out their capabilities and rules.
- Craig Ziolkowski Alaska DEC – continued noting that Alaska Railroad provides overwater transportation, and that going through Anchorage involves storage in close proximity to larger population, while Whittier puts rail cars directly on the barges for shipping to the lower 48, and suggested keeping the dialogue open.

Section 5. Regulatory Framework

- Sarah Meitl State Historic Preservation Office (SHPO) – highlighted that a lot of people are currently working remotely and that USACE has to ensure communications get to them if they aren't in their offices.
 - USACE responded that emails are being sent directly to stakeholders and reviewers as well as links to documents, etc.
- Rick Waples – enquired about public involvement regarding ongoing public information; updates, fact sheets, etc.
 - USACE responded that communication processes and protocols will mirror those that were employed with the Sturgis project, e.g. monthly stakeholder updates and the development of a project website. Major concerns, issues or safety concerns would get a special update as needed.
- Sarah Meitl (SHPO) – asked whether there have been any changes in public involvement due to COVID.
 - USACE confirmed that they have been using virtual tools such as this (virtual Teams meeting platforms), to help with public engagement. The next TPP will be held on site as well as virtually, to help maximize stakeholder participation, i.e. USACE is using a combination of tools.