



Department of Energy
Richland Operations Office
P.O. Box 550
Richland, Washington 99352

15-AMRP-0268

AUG 05 2015

Mr. K. Niles, Administrator
Nuclear Safety Division
Oregon Department of Energy
625 Marion Street Northeast, Suite 1
Salem, Oregon 97301

Dear Mr. Niles:

100-N AREA PERMEABLE REACTIVE BARRIER INSTALLATION

This responds to your letter of July 15, 2015, regarding moving forward with extending the permeable reactive barrier at N Area for the 100-NR-1 and 100-NR-2 Operable Units.

As indicated by the September 2010 amendment to the Interim Action Record of Decision (ROD), the Tri-Parties are in agreement that the long term strategy for Strontium-90 (Sr-90) remediation at the 100-N Area will include apatite sequestration of Sr-90 in the form of a Permeable Reactive Barrier (PRB).

Installation of the PRB has been conducted in phases. As noted in your letter, the initial implementation of the PRB included installation of approximately 300 feet of barrier in the 2006-2008 timeframe. Since that time, additional work has been done toward extending the barrier. This included installation of additional wells to extend the well network. In September 2011, 48 of the 146 additional wells in the extended well network were injected with apatite-forming solution. The injections into the aquifer were performed in two segments, one upriver and one downriver of the original segment, creating the current PRB of approximately 1,000 feet in total length.

The remaining injections had been planned to occur in 2014; however, the cultural review for the project conducted in accordance with the requirements of the National Historic Preservation Act (NHPA), determined that the project would have an adverse effect on a National Register-eligible Traditional Cultural Property. The NHPA process resulted in the need for consultation with area Tribes and coordination with the Washington State Historic Preservation Officer to develop a Memorandum of Agreement (MOA) before the project could proceed. The NHPA process to obtain the MOA is ongoing.

Mr. K. Niles
15-AMRP-0268

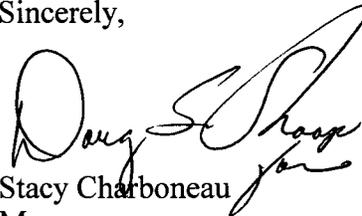
-2-

AUG 05 2015

Concurrent with the interim action activities discussed above, work has continued on the final Remedial Investigation/Feasibility Study (RI/FS) for the 100-N Area. This RI/FS will lead to a Proposed Plan and ROD for the remediation of the area. Through the on-going analysis and decision making process, including consideration of public comment, it is likely that some modification of the currently planned PRB expansion will occur. However, a change in the PRB plan may require a new NHPA section 106 review. In view of this, it is planned to complete the current 100-N RI/FS decision process with the Washington State Department of Ecology and then negotiate a MOA to support implementation of the final selected remedy.

Thank you for your interest in this project. If you have any questions, please contact me, or your staff may contact Ray Corey, Assistant Manager for the River and Plateau, on (509) 373-9971.

Sincerely,



Stacy Charboneau
Manager

AMRP:GLS

cc: J. V. Borghese, CHPRC
D. A. Faulk, EPA
J. A. Hedges, Ecology
S. Hudson, HAB
C. P. Noonan, MSA
R. E. Piippo, MSA
M. J. Turner, MSA
Administrative Record
Environmental Portal
Oregon Hanford Cleanup Board