NOTICE OF COMPLETION OF SECOND FIVE-YEAR REVIEW

The NNSA Production Office (NPO) of the U. S. Department of Energy/National Nuclear Security Administration announces completion of the Second Five-Year Review of the Selected Remedy for the Pantex Plant Site, as required by Section 121 of the Comprehensive Environmental Response, Compensation, and Liability Act and Compliance Plan No. 50284. This review began May 1, 2017 and was completed on September 13, 2018 with concurrence of the U.S Environmental Protection Agency (USEPA) and the Texas Commission on Environmental Quality (TCEQ).

NPO completed review of the Selected Remedy for the Pantex Plant Site, in conjunction with the USEPA and TCEQ, to ensure that the Selected Remedy remains protective of human health and the environment. The predominant contaminants at the Site are high explosives, solvents, perchlorate, and chromium. The Selected Remedy is comprised of the following components for protection of human health and the environment:

For soil units
- Land use controls for restricting access and maintaining protective measures for workers.
- Protective covers of clean soil for containing contaminants in landfilled material and ditch liners.
- A soil vapor extraction system to finish removing solvents released into subsurface soils at the Burning Ground.

For impacted perched groundwater
- Land and groundwater use controls for restricting access, drilling, and perched groundwater use without prior treatment.
- Pump-and-treat systems for stabilizing contaminants and reducing saturation.
- *In situ* treatment zones to reduce contaminant concentrations to groundwater protection standards where pump-and-treat systems are not effective.
- A long-term monitoring network of perched groundwater and Ogallala Aquifer wells to gather data needed to determine remedy effectiveness and provide for early detection of unexpected conditions.

Results of the second five-year review indicate that the Selected Remedy is performing as intended and is protective of human health and the environment in the short-term because there is no completed exposure pathway to human or environmental receptors for soil or perched groundwater. Access to contaminated surface soil is prevented through a combination of protective covers, fencing, and other access controls associated with the active mission of the site. Access to contaminated perched groundwater is prevented through a combination of restrictions placed on use and drilling.

In order to achieve long-term protectiveness of human health and the environment, operation and maintenance of the remedial action systems must continue and enhancements to existing systems need to be evaluated, planned and implemented with a focus on the following aspects:

- Achieve cleanup standard for the perched groundwater contaminants (i.e., restoration of the perched aquifer) - Although significant progress has been achieved in the nine years since completing construction of the remedy, contaminant concentrations have not yet been significantly affected except in areas near the In Situ Bioremediation Systems.

- Prevent growth of perched groundwater contaminant plumes - Perched groundwater contaminant plumes continue to move and/or expand toward the east and into the southeastern lobe of the perched aquifer. Pump and treat systems have resulted in decreasing the thickness of perched groundwater across most of the southeast plume close to the source areas, but have had little effect east of Farm-to-Market (FM) Road 2373. For the part of the perched groundwater east of FM 2373 and extending to the area southeast of the Pantex Plant, extension of active remedies (the Southeast Pump and Treat System and the Southeast ISB System) are needed and institutional controls will be placed as needed to prevent the potential for exposure and cross-contamination.

Information about the Selected Remedy and progress toward achieving the established goals is available via the Internet at http://www.pantex.com/mission/Pages/environment.aspx, the Amarillo Central Public Library, 413 E. 4th, Amarillo, Texas, and the Pantex Plant Administrative Record file located at Pantex Plant, on FM 2373 and U.S. Highway 60, Amarillo, Carson County, Texas.

The next Five-Year Review will begin 2022 and be completed no later than September 13, 2023. If you have any questions regarding this or the next review, please contact Mr. Steven Wyatt, NPO Public Affairs Manager at (865) 576-9918 or by e-mail to: Steven.Wyatt@NPO.doe.gov

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