

DEFENSE NUCLEAR FACILITIES SAFETY BOARD

March 2, 2018

TO: Steven A. Stokes, Technical Director
FROM: Austin R. Powers, Cognizant Engineer
SUBJECT: Nevada National Security Site (NNSS) Report for February 2018

DNFSB Staff Activity: A. Powers was on site from February 5th to 8th to complete Radiological Worker II training and other activities necessary to maintain site and facility access. In addition, K. Amundson was on-site from February 5th to 9th for the second week of the Nuclear Criticality Safety Program hands-on training course at the National Criticality Experiments Research Center.

Device Assembly Facility (DAF) Fire Suppression System (FSS) Improvement Project: Mission Support and Test Services, LLC (MSTS), has continued to make improvements to the FSS in DAF. MSTS has completed all construction activity related to the lead-in line replacement for the 22nd of these buildings (out of 25). In particular, MSTS has finished making penetrations to the buildings for the new piping, installed the piping, removed the strainer from the riser, isolated the riser from the lead-in line, tied the riser to the inside firewater loop, and performed leak tests on the new piping. To avoid the potential standpipe lifting issue that occurred to the 20th and 21st buildings (see NNSS Monthly Reports for October and December 2017), MSTS installed a modification to the standpipe that reattached the all-thread rods to the pipe after the strainer was removed from the riser. In addition to the lead-in line construction activities, MSTS also addressed the FSS sprinkler deficiencies for this building. MSTS construction personnel completed the turnover package to operations. MSTS anticipates that the building will be declared operable during the month of March.

MSTS also has begun construction activity by making penetrations for three additional buildings that were originally outside the initial scope for the DAF Lead-in Line Project. One lead-in line feeds a single riser which provides the water to the FSS in each of these buildings. MSTS plans to abandon this lead-in line in place and tie the riser to the inside firewater loop. MSTS anticipates that the buildings will be declared operable during the month of March. Lastly, MSTS operations has turned over the 23rd of these buildings to construction.

DAF Linear Accelerator (LINAC): As mentioned in the NNSS Monthly Report for January 2018, MSTS was planning to work with the vendor of the LINAC to address the length of the cables. MSTS has since received the vendor's input, which includes a cost estimate for cutting the cables. MSTS plans to develop an estimate for funding this activity. MSTS is still working with the vendor and the national laboratories on the item related to the table leg inserts.