DEFENSE NUCLEAR FACILITIES SAFETY BOARD

December 13, 2024

TO: Timothy J. Dwyer, Technical Director
FROM: Frank Harshman and Clinton Jones, Resident Inspectors
SUBJECT: Oak Ridge Activity Report for Week Ending December 13, 2024

Building 9204-2E: CNS removed an old electron beam welder from the facility this past weekend. CNS used specialized skates to roll the unit over the existing second floor slab and out to the loading dock where it was lifted onto a trailer with a forklift. When lifting the welder onto the trailer, CNS discovered the welder weighed almost twice the weight of the original estimate of 30,000 pounds. While this did not exceed the weight capacity of the skates, it was inconsistent with the design analysis calculation (DAC) that analyzed the removal of this welder. As a result of this discovery, CNS entered the potential inadequacy of the documented safety analysis (PISA) process based on potentially impacting the credited facility structure. Subsequently, they determined this was not a PISA due to the loading of the welder not exceeding the design limits of the floor slab. The resident inspector (RI) reviewed the DAC, change request documentation, and discussed the issue with a building shift technical advisor. The change request documentation did not contain information on some unanswered questions posed by the shift technical advisor about the travel path and analysis, but the RI verified there was adequate information contained within the DAC to support the plan CNS had in place. CNS plans on evaluating the replacement welder prior to entry in the building.

Building 9995: CNS entered the PISA process when it was discovered that a lab sampling procedure did not go through the proper unreviewed safety question determination (USQD) process when being revised. CNS discovered the absence of a USQD after they revised and implemented the procedure. CNS determined that this omission created a discrepant as-found condition in the documented safety analysis. CNS evaluated the additional editorial changes to the procedure and found that they were descriptive in nature and did not affect any safety basis credited features, specific administrative controls, safety significant or safety class structures, systems, or components. CNS evaluated the changes, correcting the discrepant as-found condition, and exited the PISA process determining a PISA did not exist.