# **BILLESE**



# 4<sup>th</sup> QUARTER 2023 EDITION

LA-UR-24-21811

# **HIDER 2023 EDITION**

### **OPERATIONS SUMMARY**

NCERC hosted two criticality safety classes; one for the Nuclear Criticality Safety Program and one for PF-4 personnel. Additionally, NCERC completed an Office of Environment, Safety and Health Assessment (EA-32) evaluation, performed a Nuclear Material Control & Accountability (NMC&A) 100% annual inventory, and progressed on control room upgrades.

## **CRITICALITY SAFETY CLASSES**

Criticality safety classes are an essential component of NCERC's and NCSP's mission. These classes involve classroom and hands-on demonstrations to familiarize students with the physical parameters that affect neutronmultiplying systems. Students learn the fundamentals of criticality safety by reviewing DOE orders and standards, identifying how their role is important to criticality safety, and participating in hands-on demonstrations with neutron-multiplying systems. These classes a controlled environment where provide students can learn from experts.



NCERC-FO maintenance worker performs a visual inspection of the Flat-Top control rod drive mechanism during quarterly maintenance.



Kelsey Amundson (NEN-2) gives the subcritical hands-on demonstration portion of the NCSP criticality safety class with the BeRP Ball.

# ADDITIONAL ACTIVITIES

NCERC preventive maintenance, surveillances, and in-service inspection procedures were performed on schedule. NCERC coordinated with the NNSS M&O contractor to complete an NMC&A 100% annual inventory with no issues. The EA-32 assessment identified effective use of pre/post job briefings at establishing each person's role during activity level work. NCERC fully disassembled the Control Room 2 control consoles and constructed a floor mounted cable management system. NCERC qualified four new Cognizant System Engineers who maintain the critical assembly machines.





