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DOE-ID Operations Summary
For the Period October 1, 2015 – October 31, 2015

EDITOR'S NOTE: *The following is a summary of contractor operations at the Idaho National Laboratory Site, managed by the DOE- Idaho Operations Office. It has been compiled in response to a request from stakeholders for more information on health, safety and environmental incidents at DOE facilities in Idaho. It also includes a brief summary of accomplishments at the Site. POC: Danielle Miller, (208) 526-5709.*

Advanced Mixed Waste Treatment Project (AMWTP)

October 5: Maintenance technicians at the Advanced Mixed Waste Treatment Project inadvertently disassembled a propane tank vent connection upstream of the lock out/ tag out isolation boundary. The technicians immediately evacuated the area and isolated the propane tank utilizing the emergency shutoff valves. There were no injuries or exposure to the propane vapors. [EM-ID--ITG-AMWTF-2015-0013]

October 23: While performing preventative maintenance activities on Type-II waste storage module roll up door, maintenance technicians at the Advanced Mixed Waste Treatment Project left one the facility's waste storage doors propped open while the facility was unoccupied. Operational Restrictions related to two large propane tanks located west of waste storage door require that the door remain closed when the building is not occupied. Personnel have taken action to ensure that the waste storage door remains closed when facility is not occupied. [EM-ID--ITG-AMWTF-2015-0014]

Notable Accomplishments:

- Advanced Mixed Waste Treatment Project operating contractor, the Idaho Treatment Group (ITG), held its 2016 United Way campaign during the month of October to raise contributions for the United Way of Idaho Falls and Bonneville County and the united Way of Southeastern Idaho. ITG employees exceeded their campaign goal of $60,000, with their near $63,000 in contributions and pledges. ITG contributed a corporate contribution of $4,000, based on its six month contract extension that was split between the two United Way Agencies. It was the highest employee donation total raised to date for ITG.

- The Idaho Treatment Group oversaw the successful initial transition work of Central Characterization Project (CPP) personnel and operations into AMWTP activities in October. A total of 371 containers formerly under control by CCP were processed through AMWTP operations. Waste in the containers supports Idaho Cleanup Project repackaging activities.

Idaho Cleanup Project (ICP)

October 8: A hoist inside of a contamination control tent located at the Idaho Nuclear Technology and Engineering Center made unexpected contact with the contamination tent's

supporting rails. A step back was performed, the hoist was de-energized and placed into a safe configuration and a maintenance evaluation was performed the crane and hoist. [EM-ID--CWI-ICPWM-2015-0005]

Notable Accomplishments:

- CWI's D&D crew cut a 48-foot-long steam drum tank weighing 103,000 pounds into three sections in an enclosed area on MFC-766's third floor at the Materials and Fuels Complex. MFC-766 has since been demolished.

Idaho National Laboratory (INL)

October 1: It was discovered that a latching mechanism spring on the breaker assembly breaker for the primary coolant pump at the Advanced Test Reactor had detached. Without the spring, the breaker would not trip as required. At the time of this event, ATR was shut down and defueled. [NE-ID--BEA-ATR-2015-0039]

October 7: An employee at Transient Reactor Test Facility (TREAT) was shocked while operating a 15-ton crane. The employee felt a slight tingling sensation in his thumb, immediately stopped crane movement and notified management. The crane was placed out of service, and troubleshooting continues. The employee was evaluated at the medical dispensary, and was released to return to work with no restrictions. [NE-ID--BEA-TREAT-2015-0001]

Notable Accomplishments:

Successful tests may lead to faster creation of new nuclear fuels: Marking an important step toward the advancement of a new type of reactor, INL employees recently completed successful tests of fabrication equipment in INL's Experimental Fuels Facility (EFF). They finished depleted uranium extrusions — a process of shaping material by forcing it through a die. The test — conducted with Washington-based TerraPower — serves to restore a metallic fuel fabrication capability that has not been used in the United States since the 1980s. INL is working cooperatively with TerraPower to demonstrate the ability to use extrusion as a way to produce fuel slugs. TerraPower is developing a Traveling Wave Reactor (TWR) concept, a new type of fast reactor.

Mark Peters named INL director: Ron Townsend, chair of Battelle Energy Alliance's Board of Managers, announced that Mark Peters, Ph.D., will be the next director of Idaho National Laboratory following a highly competitive national search. Peters will officially join INL in his new role on Oct. 1. Peters' recognized leadership in all fields of energy research — including energy storage, renewable energy, energy efficiency and nuclear energy — and national security makes him an ideal choice as the next INL lab director. As the leading research institution for nuclear energy solutions, other clean energy options and critical infrastructure, INL will benefit from the strong leadership and passionate commitment that Peters has demonstrated throughout

his career. His experience is strongly aligned with INL's programmatic portfolio. Prior to joining INL, Peters served as Argonne National Laboratory's associate laboratory director for Energy and Global Security, which includes Argonne's programs in energy research and national security. John Grossenbacher announced in November 2014 that FY 2015 would be his last year as INL laboratory director. He led the BEA bid that was awarded the contract to manage and operate INL in February 2005. Under his leadership, INL transformed into a leading laboratory recognized nationally and internationally for its research programs and capabilities as well as the value of its applied research and development programs to sponsors across academia and industry.

High school interns score top honors at Project Showcase: A pair of local high school graduates – Ryan Myers of Skyline and Cole Mortensen of Hillcrest – earned top honors at the annual INL Intern Final Project Showcase, where university graduate students, undergrads and high school interns displayed results of their summer research projects. Myers and Mortensen worked in INL's Fleet Services at the Willow Creek Building and the Big Shop maintenance facilities on the desert Site. They demonstrated how INL and other DOE fleet services could comply with presidential Executive Order 13693, a carbon footprint reduction plan that requires all new federal government vehicles to include a real-time data collection telematics system by March 2017. At the showcase, they competed against scientific and engineering projects from interns who attend universities throughout the country, and earned first-place honors for best technical presentation and best overall project.