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**DOE-ID Operations Summary
For the Period January 1, 2015 – January 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)

Nothing to report for this period

Notable Accomplishments:

Voluntary Protection Program Re-certification: The U.S. Department of Energy presented the Advanced Mixed Waste Treatment Project with the VPP Star flag for successful recertification on January 13, 2015. Within the celebration was the importance of the symbolism of the flag and AMWTP's ongoing pursuit of safety excellence. Whether on the job, or at home, employees demonstrate the principles and values of VPP signifying their commitment to a safe and compliant work environment.

Macroencapsulation Operations Project receives start-up approval: The Idaho Treatment Group received approval of the RCRA permit modifications for the macroencapsulation (macrobag) operations project and start up authority was granted. Regulators from the state of Idaho and Nevada along with DOE-ID were on hand to witness the placement of a MLLW large item shredder box in the macrobag. Usage of the macrobag allows ITG to dispose of qualified waste inventory and will avoid overpacking each bag into a more robust shipping container for transport to the disposal site. A member of the ITG project team was also present at the Nevada National Security Site when the shipment arrived to ensure the load was received safely and compliantly.

Idaho Cleanup Project (ICP)

January 6: the Department of Energy Idaho Operations Office received a Notice of Violation (NOV) from the Idaho Department of Environmental Quality for failing to meet the December 31, 2014, deadline to replace or remove from service three high-level mixed hazardous waste storage tanks at the Idaho Nuclear Engineering and Technology Center (INTEC). The facility constructed in support of this deadline has not yet completed integrated testing to begin processing of the liquid waste stored in these tanks. [EM-ID--GOID-ID_DIRECT-2015-0001]

Notable Accomplishments: Information not provided

Idaho National Laboratory (INL)

January 5: The Advanced Test Reactor submitted the fiscal year 2015 first quarter report to the Idaho Department of Environmental quality for diesel engine startups for two non-emergency stationary diesel generators. Emissions from the generators exceed the National Emissions Standards for Hazardous Air Pollutants for stationary Reciprocating Internal Combustion Engines (RICE). The generators are scheduled to be replaced with a commercial power based uninterruptible power supply in 2015. [NE-ID--BEA-ATR-2015-0001]

January 5: Materials and Fuels Complex Balance personnel discovered that a building water flow alarm did not actuate an alarm at the INL Alarm Center as expected. The failure of notification to the INL Alarm Center prevented immediate facility or off- site emergency response. [NE-ID--BEA-MFC-2015-0001]

January 6: A confinement door at the Advanced Test Reactor would not close properly due to a displaced bottom seal. A maintenance work request was initiated to repair the seal failure. At the time of discovery, the ATR was shut down and defueled. Confinement was not required to be operable. [NE-ID--BEA-ATR-2015-0002]

January 7: A wrist x-ray of an INL employee's hand/arm revealed a fracture which was the result of a fall the employee experienced in in December at the Energy Innovation Laboratory. The employee's right hand/wrist was immobilized and the employee was referred to off-site medical or personal physician. [NE-ID--BEA-INLLABS-2015-0001]

January 12: An employee and the Specific Manufacturing Complex entered into an access controlled area for a production line without following the approved process for such entry. The individual was stopped by a fellow employee who directed him to exit the area. Management was notified. [NE-ID--BEA-SMC-2015-0001]

January 17: A solenoid valve was discovered to be leaking air from its vent port at the Advanced Test Reactor. At the time of discovery, the ATR was shut down and defueled. Management was notified and a maintenance work request was submitted to troubleshoot and repair the solenoid valve. [NE-ID--BEA-ATR-2015-0003]

January 26: An Advanced Test Reactor employee identified that a breaker protection relay has a loss of memory due to a loss of charge. A Maintenance Work Request was initiated to reprogram the protection relay. [NE-ID--BEA-ATR-2015-0004]

Notable Accomplishments:

RELAP5-3D software generates record income: INL's Technology Deployment reported that the successful negotiation of new RELAP5-3D software license agreements and license modifications generated a record licensing income of \$462,000 for the month of December. RELAP5-3D is the world's most widely used transient simulation code in the nuclear power

industry and was developed as a modeling and simulation tool to support engineering design and systems analysis.

RELAP5-3D has been licensed to many nuclear reactor design firms to support their Nuclear Regulatory Commission license application process including NuScale Power (NuScale Power Module), Babcock and Wilcox (mPower), and Mitsubishi Heavy Industries (U.S.-Advanced Pressurized Water Reactor). There are currently 82 companies, universities or government institutions licensed to use RELAP5-3D.

Energy Innovation Laboratory selected as 2014 Best Green Project in America: Flagship construction industry magazine Engineering News-Record announced Jan. 20 that the Energy Innovation Laboratory was selected as the 2014 Best Green Project in the entire nation.

The gateway to INL's Research and Education Campus in Idaho Falls, the 148,000-square-foot EIL has now received regional, national and international acclaim for sustainable design and construction. The facility consolidates research and development to enable innovative solutions for national energy challenges, advanced clean energy and related environmental projects.

The EIL was chosen as the national winner in ENR Magazine's annual competition from among the 10 top regional best green projects. Completed in late 2013, the EIL project team accomplished a rare feat in earning U.S. Green Building Council Leadership in Energy and Environmental Design (LEED) Platinum certification. Worldwide, fewer than 5 percent of research labs in the LEED registry are Platinum-certified.

“The outstanding success of this project is due to the expertise of the project team led by Reed Miller of Ormond Builders and Kath Williams, the LEED coordinator,” said Todd Allen, INL Science and Technology deputy lab director. “The team's collaboration with INL's Project Management Office, Supply Chain Management and Campus Development Office produced a nationally recognized facility.”

The magazine's Best Green Project national award honors the efforts of many individuals and organizations – including Ormond Builders Inc., Plan One/Architects, Engineering System Solutions, INL as the tenant plus other firms – over the course of several years. “Every person on that team participated – made corrections as necessary – and was committed, and trusted each other to build this modern, efficient research space for INL's missions,” said Randy Bargelt, INL Project Management Office director.

The entire project team, from architects to project managers to hundreds of workers who built the EIL, overcame challenges and difficulties to construct the research facility to the highest international green standards, said John Baker, PMO director of planning, estimating and

scheduling. “In the design and construction arena, this is a huge honor,” Baker said, “and we are humbled to be chosen from among outstanding projects throughout America.”

Previously, the EIL was selected as ENR Magazine’s Best 2014 Intermountain Green Project and Best Overall Intermountain Project for the states of Idaho, Utah and Montana. And the International Institute for Sustainable Laboratories (I2SL) named the EIL as the winner of the 2014 Go Beyond Award, recognizing the project team’s outstanding efforts to minimize the environmental impact of its facility.

[Engineering News-Record ‘Best of Best’ announcement](#)