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WIPP UPDATE: April 2, 2015

Technical Assessment Team Issues Final Report

This week the Department of Energy's Technical Assessment Team (TAT) visited Carlsbad and met with federal and contractor staff at WIPP and the Mayor's Nuclear Task Force to provide a briefing and answer questions on their final report that was released on March 26th. The TAT, which was established shortly after the February 14, 2014 radiological release that occurred in the WIPP underground, was led by the Savannah River National Laboratory and consisted of experts from Lawrence Livermore National Laboratory, Oak Ridge National Laboratory, Pacific Northwest National Laboratory and Sandia National Laboratories. The objective of the team was to plan and conduct analyses and assessments in an effort to determine the mechanisms and chemical reactions that caused the failure of the package and the resulting radiological release. Although the TAT coordinated their efforts closely with the DOE Accident Investigation Board (AIB), they played very different roles. The AIB focused on actions that led to the event and immediate response actions while the TAT focused on the contents of drum 68660 and the unique factors that led to the runaway exothermic heat reaction and eventual breach.



Waste Isolation Pilot Plant
Technical Assessment Team
Report

March 17, 2015
SRNL-RIP-2014-01 FSR
Revision 0



The work of the TAT involved an extensive review of historical data, collection and analysis of samples from the event scene, as well as other samples from the waste stream associated with the incident, and the use of computer modeling in an effort to recreate the conditions of the reaction. While a number of uncertainties impacted the TAT's ability to recreate the exact conditions, they were able to make some key judgments including:

- The contents of the drum involved were chemically incompatible
- The drum breached as the result of internal chemical reactions that produced heat and gas buildup
- Drum 68660 was the source of the radiological release in the WIPP underground



- The initiation of the thermal runaway originated inside drum 68660 and was not caused by external factors
- Thermal and pressure effects resulted in the movement of materials during the release event

Current plans include TAT participation in a joint town hall meeting with the AIB when the AIB Phase II final report is issued later this month. The results of the TAT's work will be a useful tool as WIPP continues to move forward toward resuming operations at the facility. WIPP remains dedicated to the safety of the employees, human health and the environment, and will strive for continuous improvement. The full TAT report can be viewed on the WIPP webpage: <http://energy.gov/em/waste-isolation-pilot-plant-wipp-recovery>.

Next WIPP Town Hall Meeting Scheduled April 2

The City of Carlsbad and DOE will co-host its Town Hall meeting featuring updates on WIPP recovery activities. The meeting is scheduled for Thursday, April 2 at 5:30 p.m. Location: Carlsbad City Council Chambers, 101 N. Halagueno Street. Live streaming of the meeting can be seen at <http://new.livestream.com/rrv/>.