Welcome **NIST** Safety Update

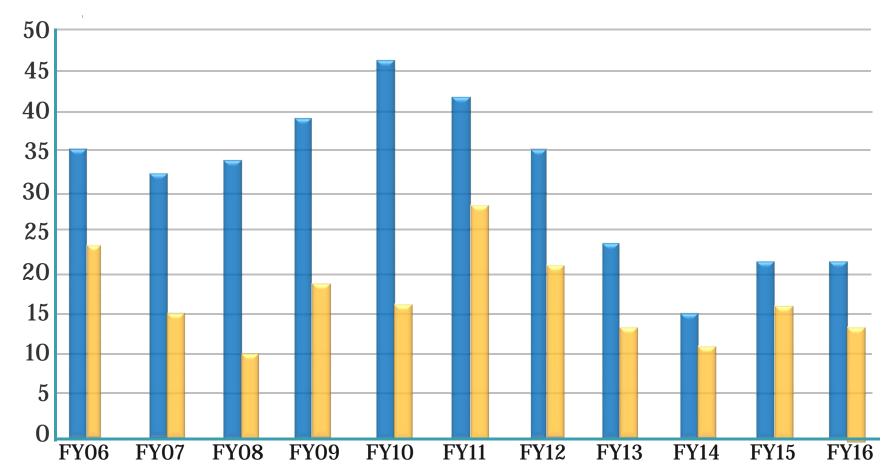
Richard Kayser Chief Safety Officer, NIST

Visiting Committee on Advanced Technology October 18, 2016

AGENDA **Report regularly to VCAT on NIST's safety improvement efforts.** FY 2016 WORKPLACE RADIATION **INCIDENTS INSPECTIONS** SAFETY



NIST Safety Incident Metrics



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What We're Doing About It . . .

Hearing	Security	Cuts and	Slips, Trips,
Losses	Turnstiles	Lacerations	& Falls
 Correct legacy recordkeeping issue Analyze data & act on results 	 Implemented signage, video, & other measures Convened group to recommend solutions to NIST Director 	 NIST Safety Minute on safe cutting practices & tools 	 Reconvening STF Team to identify risk reduction actions



Workplace Inspections

Clear roles & responsibilities



Required frequencies



Trained OU inspectors



OU-led inspections with Safety Office notification



6



Workplace Inspection Program

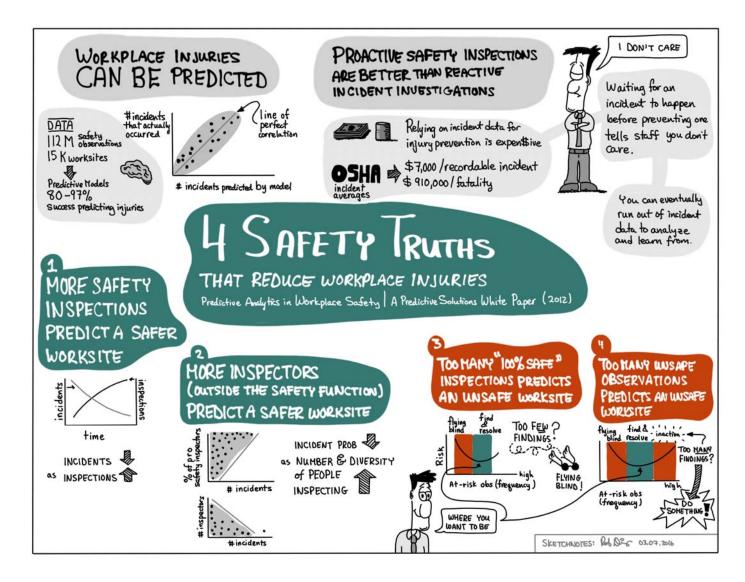




300+ NIST staff members trained as inspectors

900+ Pre-inspections conducted





Timeline

06/2008	Contamination event
07/2008	NRC Confirmatory Action Letter
06/2009	Reopening of Labs
09/2009	NRC Public Meeting
01/2010	Alternative Dispute Resolution
03/2010	NRC Confirmatory Order



UNITED STATES NUCLEAR REGULATORY COMMISSION REGION IV \$12 EASTLAMAR BLVD, SUITE 400 ARLINGTON, TEXAS 76011-4125

March 1, 2010

EA-09-142 NMED 080326

U.S. Department of Commerce National Institute of Standards and Technology ATTN: Richard F. Kayser, PhD Special Assistant for Environment, Safety, and Health Building 301, Room B111 Gaithersburg, MD 20899-1730

SUBJECT: CONFIRMATORY ORDER (EFFECTIVE IMMEDIATELY) (NRC INSPECTION REPORT 030-03732/2008-001, NRC INVESTIGATION REPORT 4-2008-062)

Dear Dr. Kayser:

The enclosed Confirmatory Order is being issued to the U.S. Department of Commerce's National Institute of Standards and Technology (NIST) as a result of a successful alternative dispute resolution (ADR) mediation session. The enclosed commitments were made by NIST as part of a settlement agreement between NIST and the NRC concerning ten apparent violations identified in the subject inspection report dated November 2, 2009.

I'd like to start by noting that the preliminary findings presented to own findings as detailed in two reports. NIST's internal investigate the NIST loaining Radiasion Safety Committee, which in addation from five external experts. NIST also commissioned Booz Allent analysis of the incident. The results of the Boox Allen Hamilton a lonizing Radiation Safety Committee. That all of these findings an confidence that we understand what happened, why it happened, is incidents in the fure.

I'd like to address four key areas today:

Actions NIST took to respond directly to the incident;
 Actions we've taken to respond to issues identified by the
 Actions taken to strengthen safety at NIST Boulder; and
 Actions to strengthen safety at all NIST ites, including N

Actions in Response to the Incident

As you have heard today, laboratory personnel involved in the ine handle safely the type of plutonium sample that was spilled on Jun about the extent of the spill and about the fact that some of the plu connected to the samitary sever system was not immediately avail delays in communicating this information to the City and the publ this information as soon as the facts of the event were available to news releases and published the texts of several letters to the City regrospone to the incident. "Going forward, we are committed to protecting our staff, the public, and the environment by integrating safety into our management and work practices at all levels, working diligently with all staff to ensure that safety is a core value of NIST."

NRC Confirmatory Order

Eleven actions, including:

- Copies of annual external audits for five years
- Radiation safety training of new employees
- Incorporation of ten elements into initial and refresher training
- Institution a hazard analysis and work authorization process
- Defined process for acquiring radioactive material
- Deep-cut assessment of radiation safety program

















NIST-Gaithersburg radiation safety program provides "a high assurance of preventing significant radiological incidents now and in the future."



