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ADEP All-Hands Safety Meeting

November 2014



- Welcome – Kiki Torres
- WSST update – Clare Webber
- RSO update – Ned Elkins
- LTP update – Steve Clemmons
- CAP update – Dave McInroy
- Personal protective equipment – Walter Atencio
- WIPP preservation directive – Judy Humphrey
- Anniversaries, ADEP update and Q&A – Randy Erickson



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Balancing Priorities



Quarterly WSST Update

Clare Webber

IWSST Representative

VPP Star Journey



- **VPP Star journey — much like a rollercoaster ride**
 - **First slow, torturous steep climb with a flag at the top**
 - **Wonderful contribution by everyone at Lab but particular emphasis by ADEP**
 - **We knew scary things were on the horizon with the incidents at WIPP, but we pushed onward and upward**



VPP Star Journey



- We stop for a moment at that first big hill and admire the flag and the view
- Then the bottom drops out, down we go and we can't even see the bottom
 - We knew it was coming, but this bad?
 - Loss of leadership
 - Possible dissolution of ADEP
 - Where we will be working next year?



VPP Star Journey



- Now come the “loop de loops”
 - Which way is up?
 - Where do we focus?
 - Is there still a place for VPP in our short term mission?
- People already falling out of the ADEP directorate “car” (hopefully with a gentle landing)

All we can do is focus on what is just before us and hang on!!!

VPP Peer/Self Assessment



- Before we are ready we are facing the next “smaller” climb on the VPP rollercoaster (harder in a lot of ways)
 - We know we may not have the focus and support
 - We know that there is more scary stuff before this ride is over
- This “smaller” climb uphill is the internal VPP self/peer assessment
 - Lack of enthusiasm (more important things going on)
 - Burn out of work force
 - Should ADEP really participate at this time?



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VPP Peer/Self Assessment



- **Much to my surprise, this second smaller climb — even with its challenges — has been just as exhilarating and satisfying as our VPP star certification process**
- **Unexpected benefits of the VPP self-assessment process**
 - **Pride in our accomplishments**
 - **Reminder of our excellence**
 - **Impressed (again) with our workers dedication and commitment (heroes under pressure)**

VPP Peer/Self Assessment



- ADEP and NHHO teamed up for 2014 VPP peer assessment
 - NHHO reviewed Corrective Actions Program
 - ADEP reviewed NHHO TA-55 FOD, RLW and RLUOB
- NHHO team was very impressed with ADEP's safety culture



Preliminary Assessment Results



- **Comments from the assessment team:**
 - **“ADEP-CAP should be held up as a model for other organizations here at the Lab”**
 - **“I’m taking notes — you have some great ideas I want to take back to my organization”**
 - **“Great evidence of how ADEP has led the institution on safety initiatives”**
 - **“Outstanding website — got all the documents and info needed!”**
 - **“Everyone committed to safety from managers to workers to subcontractors”**



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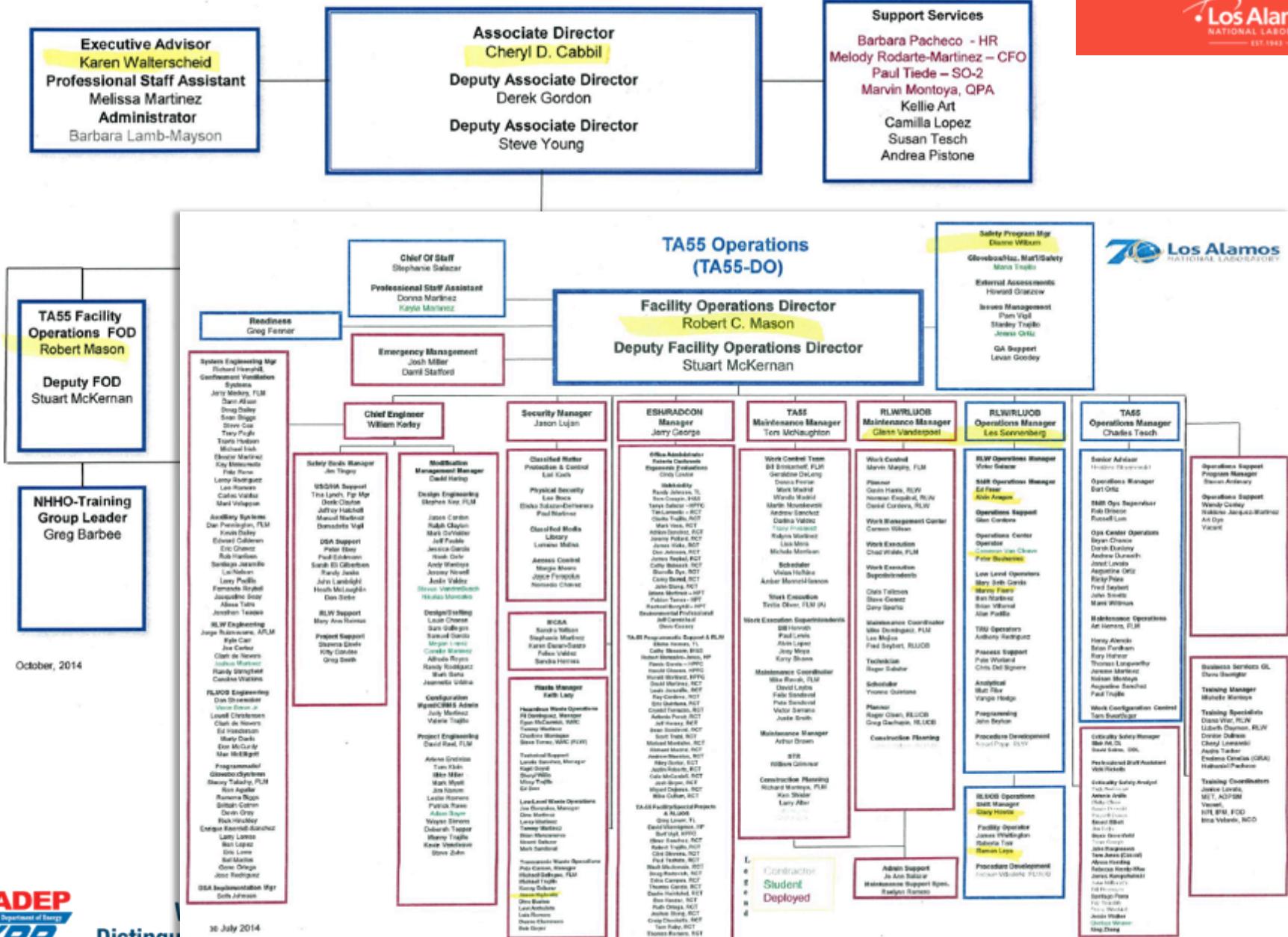
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Review of NHHO

- ADEP review of NHHO went a little differently
 - Identity crisis — communication issue
 - They have great worker response at the operational level (lots of deployed)
 - What value does the AD and the AD WSST really provide at the worker level?

**Associate Directorate of Nuclear & High Hazards Operations
(ADNHHO)**



NHHO-TA-55 FOD & RLUOB Ops



- **Toured RLUOB**
- **Had discussions with workers**
- **Attended WSSTs (both NHHO and TA55)**
- **Interviewed management interviews**
- **Reviewed documents**



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NHHO-TA 55 FOD



- Even with the DOE assessment occurring in April
- ADEP assessment team encountered new issues
 - RLUOB stood up their RAD Labs in August
 - Potable water tank failure event in September



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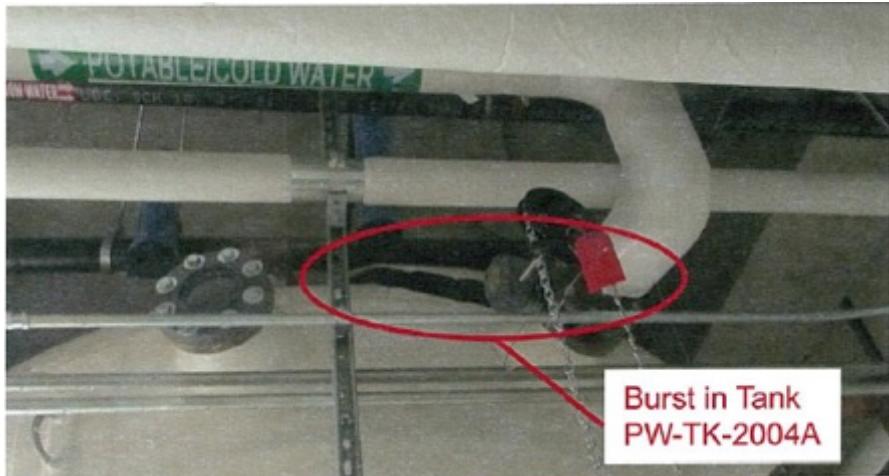
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TA-55 FOD RLUOB



- Potable water tank failure resonated
 - Similar to salt truck fire at WIPP
- Simple “failures and malfunctions” can and do lead to serious consequences
- Many examples of worker involvement and ownership of processes and facilities, fixes and improvements



VPP Self/Peer Assessment



- Still working on the final grading profile
- Will give/receive a senior management out brief of grades, impressions and opportunities for improvement
- VPP journey is about continuous improvement in the safety and safety culture



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Recent WSST Accomplishments



- There are still some bumps and rolls yet to come on our ADEP rollercoaster but our outstanding WSSTs are carrying on
 - LTP — ZumBoothon for United Way
 - CAP — In this Together get together
 - LTP — Garbage grab
 - CAP — Winter vehicle inspection

Recent WSST Accomplishments



Upcoming

- **Looking at the near future**
 - I booked a gig for Camillo DiSalle and Melissa Porter
 - Presenting an encore performance of their WSST (YMCA) song
 - December 11th in Study Center at the IWSST quarterly meeting
 - Looking for some “June Taylor Dancers” ???



Happy Thanksgiving!



- **Reminder**
 - **Don't be a “turkey” when it comes to you and yours safety this holiday weekend!**



Repository Science & Operations Program Update

Ned Elkins
Program Director

RSO Update



- Directly Supporting DOE CBFO actions
 - Tracking and closing WIPP internal corrective action plans for fire and radiological events
 - Assisting DOE in tracking and dispositioning actions resulting
 - AIB-derived justifications of need
- AK, Inventory and Difficult Waste teams assisting CBFO to develop and implement WIPP and generator/storage sites oversight programs
 - RSO identified as NTP lead in DOE oversight program
 - Currently completing annual complex-wide inventory report for DOE



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RSO Update



- **Mobile Loaders**
 - Maintaining readiness to load, unload and maintain (venting, staging etc.) shipments and individual TRUPACs at WIPP, LANL, INL, Oak Ridge and other sites as CBFO/CCP requires
- **Actinide Program team continuing preparation of LANL capability to assume local lead for WIPP RCRA metals, VOC and SVOC analyses**
 - Supporting recovery and future operations
 - Engaging EPA for eventual WIPP recertification (application submitted in April 2014)



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RSO WSST Update



- **Ongoing program-wide WSST evaluations**
- **Tightened already limited entry into 115 N. Main St. facility across the street from the Eddy County jail and probation office**
 - **Installed communications boxes outside the locked exterior building doors**
 - **Employees or authorized visitors only**
 - **Requires all visitors to request access and be screened**



LANL TRU Program Update

Steve Clemons
Acting Program Director



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Minimizing Distractions



Corrective Actions Program Update

Dave McInroy
Program Director

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Groundwater Protection & Monitoring

FY 2014 Highlights

- Performed 307 sampling events at 178 groundwater, base flow and spring monitoring locations
- Prepared and submitted 17 groundwater periodic monitoring reports to NMED
- Installed three new groundwater monitoring wells supporting the RDX project
- Performed RDX source removal testing at CdV-16-4ip

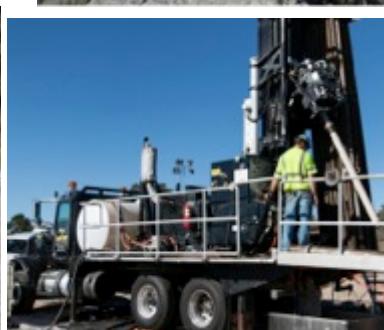


Chromium Groundwater Remediation

FY2014 Highlights



- Through Nov. 7
 - Drilled 3,900 feet of borehole to install CrEX-1 extraction well and core holes with piezometers
 - Processed 2 million gallons of chromium-contaminated groundwater and land applied treated water
 - Collected and analyzed 2,357 groundwater samples
 - Performed aquifer pump tests on five existing monitoring wells



Chromium Groundwater Remediation

FY2014 Highlights



- Updated groundwater model to predict plume response to various pumping scenarios
- Participated in tours and provided presentations to groups including DOE HQ, NNM CAB, Los Alamos County, Pueblo de San Ildefonso, LA Monitor, GWQB, OSE and HWB
- Hosted technical workshop that included groundwater treatment SMEs from LANS, DOE, PNNL, SRNL and NMED to evaluate the technical approach for proceeding to a final

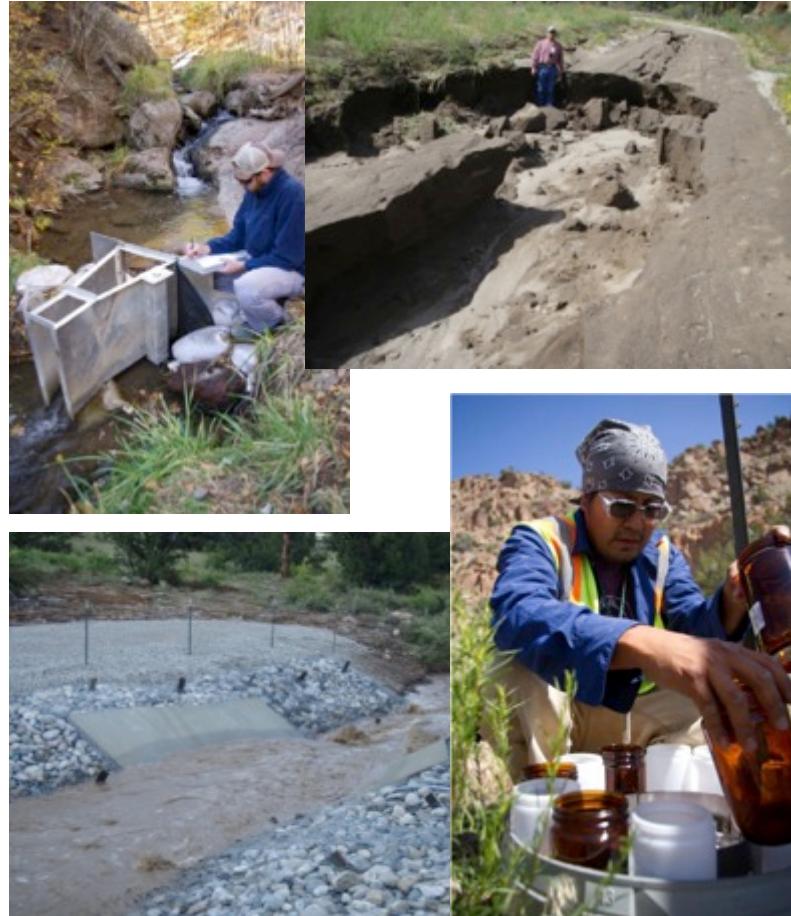


Surface Water Protection & Remediation

FY2014 Highlights



- Completed flood mitigation efforts caused by September 2013 damage
- Submitted IP renewal application
- Completed more than 1,000 rain event inspections, 340 control measure maintenance activities, 92 IP samples and annual erosion evaluations at 405 sites
- Maintained and operated network of 46 gages across LANL
 - 70 samples
- Developed and began execution of a boundary protection campaign



Aggregate Areas

FY2014 Highlights

- Completed 2013 biennial UXO and asphalt field work and reports
- Submitted AOC 01-007(k) investigation report to facilitate private property sale and development
- Completed initial investigation of the TA-57 (Fenton Hill) Aggregate Area on an accelerated schedule to facilitate release of site to U.S. Forest Service



Aggregate Areas

FY2014 Highlights

- Completed Toxic Substance Control Act PCB soil removal on an active utility corridor at TA-61
- Assisted DOE in the demolition of water towers 21-324 and 21-258
- Conducted characterization and preventive maintenance at TA-21 building 257 in preparation for D&D



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FY2015 Scope



- **Groundwater monitoring & maintenance**
- **Surface water monitoring & IP corrective action campaign**
- **Chromium plume control interim measure**
 - Chromium extraction well installation
 - Chromium effluent pipeline
 - Chromium source well installation
 - Chromium geotechnical studies/modeling
 - San Ildefonso well
- **RDX interim measures and well completions**
- **Aggregate Area supplemental investigations reports**
- **Historical sites TA-32 project**
- **Other targeted clean ups as budget allows**



Personal Protective Equipment

Walter Atencio

Occupational Safety & Health

Personal Protective Equipment



- **Regulations, requirements and training**
- **Selection and limitations of PPE**
- **Resources**



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Purpose of PPE

- **Reduce risk of employee injury or illness from workplace hazards that cannot be reduced or eliminated through more preferable means of control**
- **Last line of protection against accidental release**

OSHA Regulations

- OSHA regulations that address PPE requirements
 - 29 CFR 1910.132 – 138
 - 1910.132 General Requirements
 - 1910.133 Eye and Face Protection
 - 1910.134 Respiratory Protection
 - 1910.135 Head Protection
 - 1910.136 Foot Protection
 - 1910.137 Electrical Protective Equipment
 - 1910.138 Hand Protection

Training Requirements



- OSHA requires that each employee who is required to wear PPE as part of his or her job must be trained to know at least:
 - When PPE is necessary?
 - What PPE is necessary?
 - How to properly don, doff, adjust and wear PPE?
 - The limitations of the PPE?
 - The proper care, maintenance, useful life, and disposal of PPE?

Training Requirements

- **Retraining requirements**
 - **Changes in the workplace that render training obsolete**
 - **Changes in the types of PPE that will be used that render training obsolete**
 - **Proper care, maintenance, useful life and disposal of PPE**

Selection and Limitations of PPE



- Factors that affect the selection of PPE
 - Inherent properties of the material(s) that will be used
 - Chemical hazards
 - Biological hazards
 - Radiological hazards
 - Physical hazards
 - Conditions of exposure
 - Location of the work
 - Confined spaces
 - Working below another worker who is using hand tools
 - Working near a live electrical panel
 - The environment
 - Icy conditions
 - Poor visibility
 - Extreme heat or cold



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Selection and Limitations of PPE



- **Potential routes of exposure**
 - Inhalation
 - Absorption
 - Contact
 - Ingestion
- **Selection Process**
 - Length of time a worker will be expected to wear the PPE
 - Comfort of the PPE
 - Ability of the worker to perform the job
 - Manufacturer limitations and guidelines
 - Cost, availability and serviceability of the PPE

General Limitations

- Not a substitute for higher-level controls
- No single piece of PPE is effective against every hazard
- Use of PPE may create additional hazards
- PPE has a limited shelf life

Resources



- **Questions about selection, inspection, use, maintenance, storage or disposal of PPE should consider the following resources:**
 - **Site industrial safety and health professional (FOD ES&H Teams)**
 - **Contact the Occupational Safety & Health Program Lead at 412-8802**
 - **Refer to material safety data sheets (MSDSs)**
 - **NIOSH pocket guide to chemical hazards**



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WIPP Preservation Directive

Judy Humphrey

Office of the Laboratory
Counsel



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ADEP Update

Randy Erickson

Associate Director for
Environmental Programs



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Service Anniversaries

20 years

- Linda Nelson, BPS-DO

15 years

- Curtis Weyerman, RSO

10 years

- Ernestine Aguirre, LTP-SSS
- Doug Evans, RSO
- Armand Groffman, CAP-ES
- Steven Hubmer, LTP-SSS

10 years

- Teri Tingey, BPS-DO

- Sheila Lott, RSO

- Mary Reed, LTP-SSS

- Gregory Van Soest, RSO

5 years

- Kate Lynnes, REG

ADEP Update

