

Take 5 for Safety

BGRR Event Corrective Action Plan; 2-6-2012 Version

Photo of the Week

**Collider-Accelerator Department
2-7-12**

BROOKHAVEN
NATIONAL LABORATORY

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BGRR Event Recap

- On 11-29-11, a subcontractor fell approximately 16 feet from a scissor lift with a hinged guardrail system
- The lift was modified before BNL purchased it and BNL did not inspect it upon acquisition to ensure it met manufacturers specs
- There was no daily pre-use inspection checklist
- HSS is planning an on-site visit; BNL is proposing a consent decree similar to the well-house event



Corrective Action Plan

Lab-Wide Corrective Actions

- Revise the Aerial Lifts SA to require the development and use of equipment-specific Operator Aids (or checklists) for conducting pre-use inspections
- The revision to the SA will distinguish inspections that need to be performed on periodic, defined frequencies (e.g., once per shift) from those that need to be conducted prior to each use
 - Operator Aids are to be equipment (i.e. manufacturer and model) specific, and limited to critical safety features
 - The requirements for using the Operator Aid will include appropriate methods for providing objective evidence that pre-use inspections have been satisfactorily performed by the Operator

Corrective Action Plan

Lab-Wide Corrective Actions

- “The Investigation Committee noted several issues during the course of the investigation, while not causal in nature, warranted consideration by the Laboratory for follow up action”

Issue: Making decisions in a vacuum; this creates a divide between management and employees

- Work Supervision and Oversight Peer Review
 - Conduct peer review of Laboratory practices for supervising and overseeing work at BNL
 - Conduct a Laboratory-wide survey to define the BNL operations and safety culture
 - Conduct an independent, external review of Laboratory-wide work planning and control practices

Issue: Overreacting to a single data point and potentially taking BNL in a new direction

Issue: Creating divisiveness between supervisors, management and workers by focusing on worker supervision and oversight based on one data point

Corrective Action Plan

Lab-Wide Opportunities for Improvement

- Revise the Aerial Lifts Subject Area (SA) to require all BNL owned and rented aerial lifts to be added to BNL's maintenance management system (Maximo)
- Revise initial and requalification training programs for aerial lift operators
- Prepare and implement a training addendum for aerial lift operators and users that covers do-not-operate and remove equipment from service if there is an overdue annual inspection, and the potential consequences of using equipment that has not been inspected or where inspection is past due
- Develop and implement a plan that will determine the value of reviewing recall and alert notices for equipment as part of annual inspections

Issue: Chronic debating without actually making decisions because there's no clear leadership to drive consensus on recall notices

- Revise the requisition process to facilitate the appropriate type and level of safety and quality review are performed during the acquisition of aerial lifts; this includes identifying the proper safety and quality requirements and ensuring they are flowed down to the supplier

1944 Then and Now

- Old bulletin board recently found at Los Alamos - famous / infamous names on a ski trip in 1944:
 - Hans Bethe won the Nobel Prize in physics
 - A. P. French authored 16 books on multiple topics in physics
 - J. R. Oppenheimer was called “father of the atomic bomb” and was an Enrico Fermi Award recipient; Hartland Snyder was one of his students
 - J. L. Tuck’s expertise on shaped charges was crucial to success of nuclear bombs
 - Klaus Fuchs was convicted of spying at Los Alamos in 1950, and spent 14 years in a British prison

