Take 5 for Safety

Status of Accelerator Safety Order Guide
Pictures of the Week

Collider-Accelerator Department
5-1-12

BROOKHAVEN NATIONAL LABORATORY
a passion for discovery

Office of Science
U.S. DEPARTMENT OF ENERGY

Status of Accelerator Safety Order Guide

- Nine months in making; about 100 contributors from SC and NNSA accelerators
- Guidance aimed at current and next generation of accelerators
- Guidance explains exemptions, ASE, SAD, USI, R2A2, commissioning, training, procedures, decommissioning – topics only briefly covered in 2-page Contractor Requirements Document in the DOE Accelerator Safety Order 420.2.C
- Cost of accelerator facility operations is reduced if guidance is compared to similar guidance for nuclear facilities
- Guide is 75% - needs review by accelerator community as a whole and DOE standards review board

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1. Introduction (5 Pages)
   - 1.1 Purpose
   - 1.2 Scope
   - 1.3 Exemption of Radiation-Generating Devices
   - 1.4 Accelerator Standards Equivalency Process
   - 1.5 Tailoring Process for Implementation
   - 1.6 Graded Approach to Implementation
   - 1.7 Contractor Requirements Document

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2 Accelerator Facility Preoperational Activities (27 Pages)

- 2.1 Hazard Analysis Development for New Projects
- 2.2 Safety Assessment Document (SAD)
- 2.3 Accelerator Safety Envelope (ASE)
- 2.4 Procedures Program Development for Safe Operations
- 2.5 Training Program Development for Safe Operations
- 2.6 Unreviewed Safety Issue Process Development
- 2.7 Accelerator Readiness Review (ARR)
- 2.8 Configuration Management
- 2.9 Contractor Assurance System (CAS) and Safety Reviews

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3 Accelerator Facility Operations Guidance (32 Pages)

- 3.1 Operations Organization and Administration
- 3.2 Operations Procedures
- 3.3 Implementing the USI Determination Process
- 3.4 Maintaining Operator and Experimenter Training
- 3.5 Configuration Management during Operations
- 3.6 Accelerator Sub-System Operational Safety Issues

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4 Accelerator Facility Post-Operations (5 Pages)

- 4.1 Post-Operations Plans
- 4.2 Revisions to the SAD, ASE and Other Program Documents
- 4.3 Project and Task-Specific Hazards and Controls
- 4.4 Plan Modularization
- 4.5 Identification of Records and Documents
- 4.6 Concurrent Operations
- 4.7 Completion of Post-Operations

Picture of the Week – Jumper Cables Simple if You Know What You're Doing

How to Hook Up Jumper Cables

- Attach a red clamp to positive battery terminal of dead battery
- Attach the other red clamp to the positive terminal battery of the booster vehicle
- Connect the black clamp to the negative battery terminal of the booster vehicle
- Attach the last remaining black clamp on the vehicle with the dead battery to an unpainted engine mount, bolt, or bracket as far away from the dead battery as the cable will allow