SAFETY WORKS FOR EVERYONE

OSHA Visit Update

ESH Coordinator Meeting

10/03/03

Otto White

Safety and Health Services

OHSA DOE Audit Objectives

- Identify instances of non-compliance with current OSHA Standards with enough detail for DOE to determine abatement methods and costs
  - Standards
  - General Duty Clause (5)(a)(1)
  - Recommendations
  - Feasible abatement suggestions

- "Snapshot-in-time" of compliance status

OSHA Site Visit to BNL

Dates: October 21 – November 7

Inspection Team: ~ 20 Persons + Team Leaders

Logistic Support: Independent Oversight & F&O Directorate

BAO POC: Maria Dikeakos

BNL POC: Otto White

Inspection Type: Wall to Wall

Facilities to be Inspected

- All Work Areas: Shops, Labs, Industrial Type Facilities
- Office Areas: Subject to quick walkthroughs
- No Residential Areas, except laundry rooms and HVAC/Utility Spaces

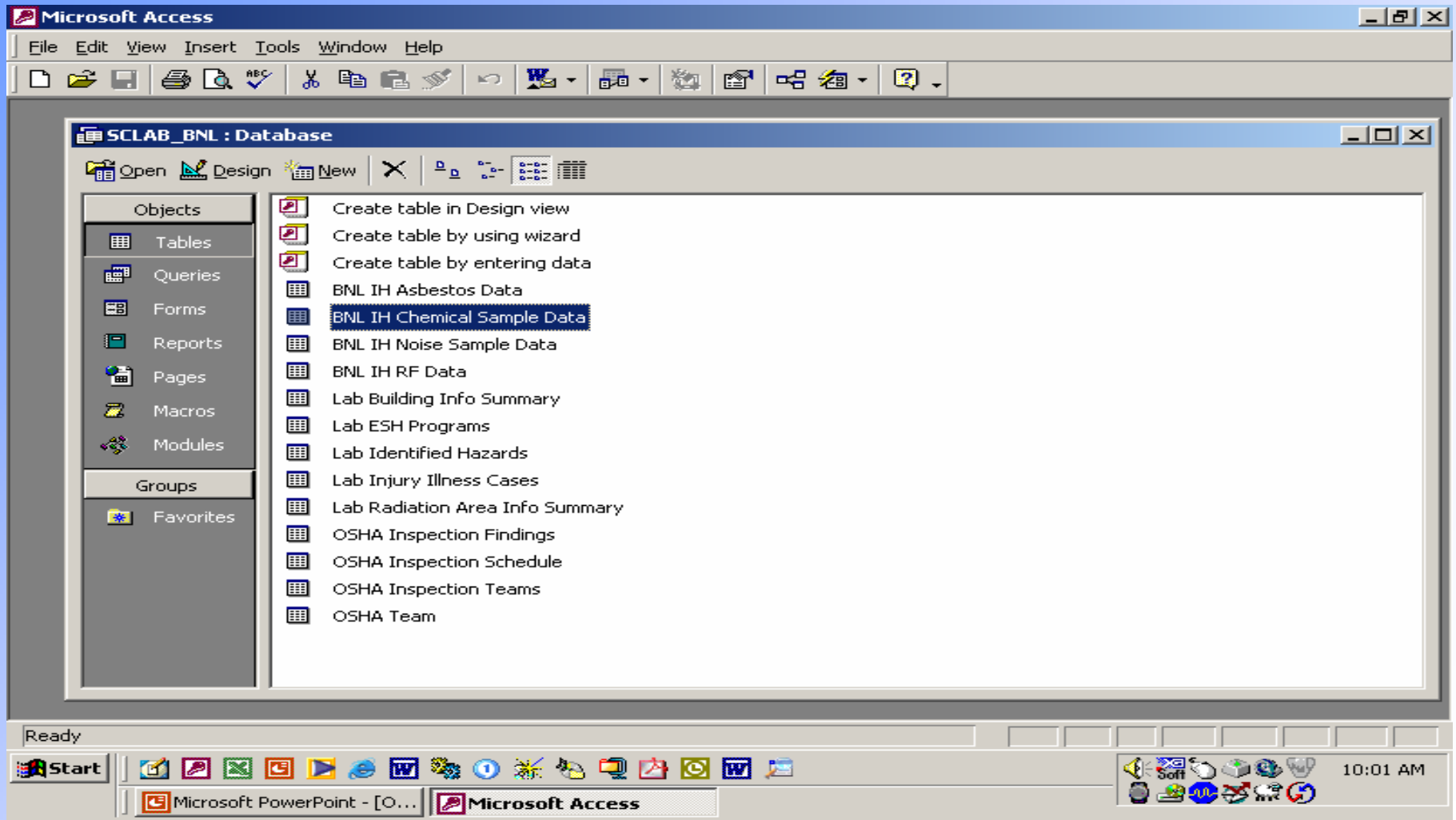
OSHA Team – Building 129

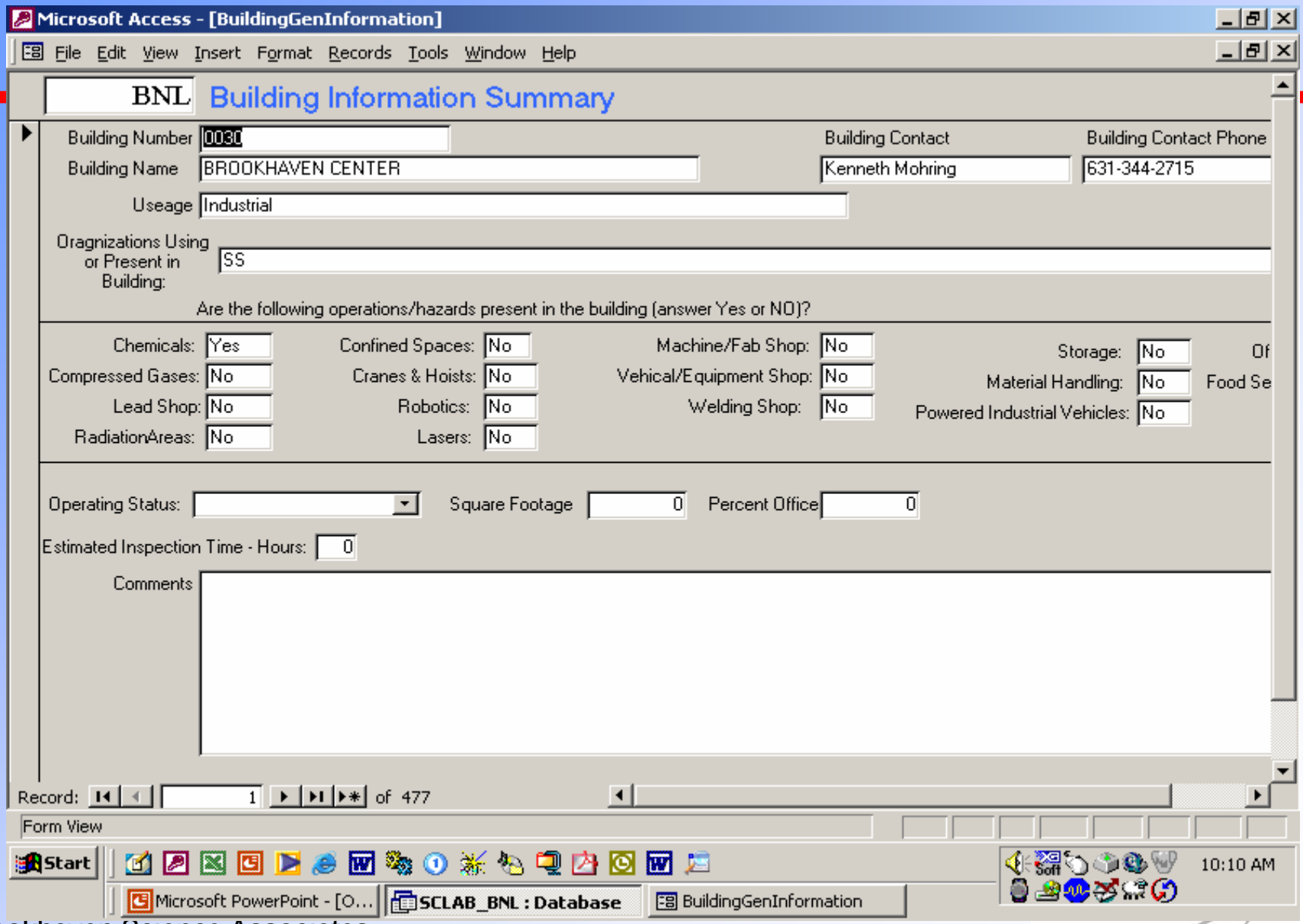
- OSHA Team Leaders:
  - David Barnhill
  - Trese Louie
- No Daily De-briefing by OSHA Team
- Yes Daily BNL De-Briefing
- Opening Conference on 10/21/03 – Location: TBD

OSHA Document Request

1. Provide Off-site access to SBMS
2. Site maps that include all BNL Buildings.
3. Union Contact List.
4. List of all subcontractors who will be on site during OSHA visit.
5. Industrial Hygiene Sampling Data
6. BNL Training required.
7. BNL POC for each main OSHA Program
   - *ESH Coordinators, Building Managers*
8. Building List.
9. Inspection Schedule - TBD

OSHA Database




Microsoft Access - [BuildingGenInformation]
File Edit View Insert Format Records Tools Window Help
BNL
Building Information Summary
Building Number 0030
Building Name BROOKHAVEN CENTER
Building Contact Kenneth Mohring
Building Contact Phone 631-344-2715
Useage Industrial
Oragnizations Using or Present in Building: SS
Are the following operations/hazards present in the building (answer Yes or NO)?
Chemicals: Yes
Compressed Gases: No
Lead Shop: No
RadiationAreas: No
Confined Spaces: No
Cranes & Hoists: No
Robotics: No
Lasers: No
Machine/Fab Shop: No
Vehical/Equipment Shop: No
Welding Shop: No
Storage: No
Material Handling: No
Powered Industrial Vehicles: No
Operating Status:
Square Footage 0
Percent Office 0
Estimated Inspection Time - Hours: 0
Comments
Record: 1 of 477
Form View
Start
Microsoft PowerPoint - [O...
SCLAB_BNL : Database
BuildingGenInformation
10:10 AM

Inspection Format

- 2 OSHA SMEs/Team (typically Industrial Hygienist and Safety Engineer)
- 1 BNL ESH POC (ESH&Q + Dept/Div)
- 1-2 Building POC's *
  - (ESH Coordinator/Building Manager)

* *BNL POC's will be responsible for taking notes of OSHA findings for BNL OSHA Database and Daily De-briefing.*

BNL OSHA Support Site

1. OSHA Document Requests
2. OSHA Standards website link
3. Most Cited OSHA Violations website link
4. Building Manager List
5. ESH Coordinator List
6. BNL Telephone Directory
7. ESH&Q Directorate
8. SBMS
8. ANL OSHA Findings
9. ORNL OSHA Findings
10. TJNAF OSHA Findings
11. BNL 2002 OSHA Type Findings
12. BNL OSHA Trained Staff
13. Facility Use Agreements
14. Material Safety Data Sheets
15. Chemical Management System
16. BNL OSH Program POCs

BNL Preparation Activities

1. Complete OSHA document request by October 1, 2003.
2. Complete OSHA Visit Project Plan
3. Complete OSHA Database Factual Accuracy Review
4. Prepare/complete communication plan.
5. Complete modification and cleaning of Building 129.
6. Finalize remaining logistics before October 20, 2003.
7. Prepare BNL Points of Contact (i.e., Program POC's, ESH Coordinators, and Building Managers)
8. Complete plans for capturing findings for immediate corrective actions.
9. Inspection of Facilities to remove "low hanging fruit".

BNL Inspection Strategy

- Open and responsive.
- Answer questions that you know the answer.
- If you don't know the answer, refer to POC or other knowledge person.
- Correct findings ASAP, if possible
- Apply Lessons Learned to yet-to-be inspected buildings.

OSHA Review of DOE-SC Laboratories

How Have Other DOE Labs Fared?

Oak Ridge National Laboratory

Thomas Jefferson National Accelerator Facility

Argonne National Laboratory - East

ORNL Preliminary Results

759 audit worksheets were submitted
1646 hazard instances
195 OSHA standards cited
(indicates comprehensive nature of audit)

Hazard Classification by OSHA Definition

Imminent: 0%
Serious: 92%
Other: 8%

OSHA personnel noted that this distribution is a little higher than general industry, but close.

ORNL Preliminary Results (cont'd.)

Number of Findings by Standard

165 1910 (General Industry)
28 1926 (Construction)
24 5(a)(1) General Duty Standard
12 Recommendations

Number of Instances by Hazard

Electrical - 624
Walking/Working Surfaces - 95
Machine Guarding - 125
Egress - 148

ORNL Programmatic Observations

Health Physics Program

- Overall program found to be very good
- Found a few issues related to labeling

Health Issues

- Lead (8) - mainly dealing with eating/drinking close to lead areas and negative pressure ventilation in lunchroom
- Cadmium (1) - need exposure assessment
- Formaldehyde (1) - need exposure assessment
- Respiratory protection - voluntary use issues associated with use of dust masks

Hazard Communication

- Program sound
- Labeling issues (17) throughout lab

ORNL Programmatic Observations (cont'd.)

Bloodborne Pathogen
- Generally sound
- Need to update with latest OSHA standard (Lab Standard, 1910.1450)

Construction Management
- Fairly effective
- Fall protection
- Electrical

Confined Space Entry
- Sound
- Space labeling inconsistencies

Lockout/Tagout
- Sound
- Mainly issues with individual equipment procedures

ANL Audit Findings

- 659 Audit Worksheets Completed
- 1431 Instances of Hazards
- 204 Different OSHA Standards
- 94 General Duty Clause
- 143 Recommendations

ANL— E

OSHA REVIEW 2003

STANDARDS CITATIONS

PART 1910

Subpart D– Walking-Working Surfaces…….. 67 Instances

Subpart E-- Exit Routes, Emergency Plans, and Fire Prevention Plans……..……112 Instances

Subpart G– Occupational Health and Environmental Control……..…… 32 Instances

Subpart H– Hazardous Materials……112 Instances

Subpart I– Personal Protective Equipment…….. 42 Instances

Subpart J– General Environmental Controls……. 32 Instances

Subpart K– Medical and First Aid……..112 Instances

Subpart L– Fire Protection……..111 Instances

ANL— E
OSHA REVIEW 2003
STANDARDS CITATIONS
PART 1910

Subpart M– Compressed Gas and Compresses Air Equipment……..1 Instance

Subpart N– Materials Handling and Storage……31 Instances

Subpart O– Machinery and Machine Guarding……65 Instances

Subpart P– Hand and Portable Powered Tools and Other Hand-Held Equipment……11 Instances

Subpart Q– Welding, Cutting, and Brazing……15 Instances

Subpart S– Electrical……..313 Instances

Subpart Z– Toxic and Hazardous Substances……233 Instances

ANL Industrial Hygiene Issues

OSHA Baseline Monitoring Recommendations

ANL Review

August 2003

Brookhaven Science Associates
U.S. Department of Energy

BROOKHAVEN NATIONAL LABORATORY

ARGONNE NATIONAL LABORATORY – EAST
OSHA PROJECT
August 2003

BASELINE MONITORING FINDINGS

Division	Building/Room	Substance
CHM	200, A174	Cadmium
CHM	200, A182	Mercury (Drop/ETS)
CHM	200, All	All labs baseline data (6)
	201	Formaldehyde
BIO	202, 238	Formaldehyde
BIO	202, B270	Acrylamide
BIO	202, B223	Acrylamide
BIO	202, B322	Chloroform
BIO	202, B305	Cadmium
BIO	202, Bio Lab	Methylene Chloride
BIO	202, Lab	Benzene

BASELINE MONITORING FINDINGS – cont'd.

Division	Building/Room	Substance
ECT	222, A056	Lead Soldering
	222, C153	"
	222, A162	"
	222, G157	"
	222, G151	"
	222, C121	"
	222, A229	"
	222, G101	"
	308, B151	Chromium, Nickel
Welding		
	362, PPT Cage	Noise

ARGONNE NATIONAL LABORATORY – EAST
OSHA PROJECT
August 2003

BASELINE MONITORING FINDINGS – cont'd.

Division	Building/Room	Substance
PFS-CS	362, High Bay	Chromium, Nickel, Niobium–Electron Beam Welder
PFS-IN	368, V102	Silica, Mica Mixing Joint Compound
	368, V101	Arsenic, Chromium Wood Cutting
	368, V127	Arsenic, Chromium Wood Cutting
	371, Cyl. Storage	Lead Solder
Medical	Site	Benzene Monitoring (5) ? For Bioassay List
	Site	Arsenic Monitoring (3) For Bioassay List
	Site	Noise Monitoring (20) For JHQ List of Significant Exposures
	Site	Asbestos Monitoring (5) ? For JHQ List of Users
	Site	Methylene Chloride (10) ? Monitoring for JHQ List

TOTAL SURVEYS (Approx.) - 74

Thomas Jefferson National Accelerator Facilities
Major Themes for OSHA Inspection

1. Extension cords in lieu of permanent wiring.
2. Electrical panels blocked by objects anything, even moveable objects
3. Means of egress: Door hardware, door size, aisle width, blockage exit signs (where needed, illuminated).
4. Railings: height on stairs and decks.
5. Medical monitoring, IH exposure assessment data.
6. OSHA recordkeeping (be alert to recent changes in standard).
7. Confined space signs.
8. High-voltage electrical equipment area signs.
9. Fire extinguisher: annual/monthly inspection.

   Wall signs above extinguisher. Be prepared to discuss lab's policy on fire-x use and training.
10. Cords on floor – other trip hazards too.
11. Don't overlook your cafeteria area:

    Guards on mixers, slicers, training, dishwashing products (MSDS, eye-wash?).