

# NSLS Town Meeting

August 12, 2011

## Safety Update

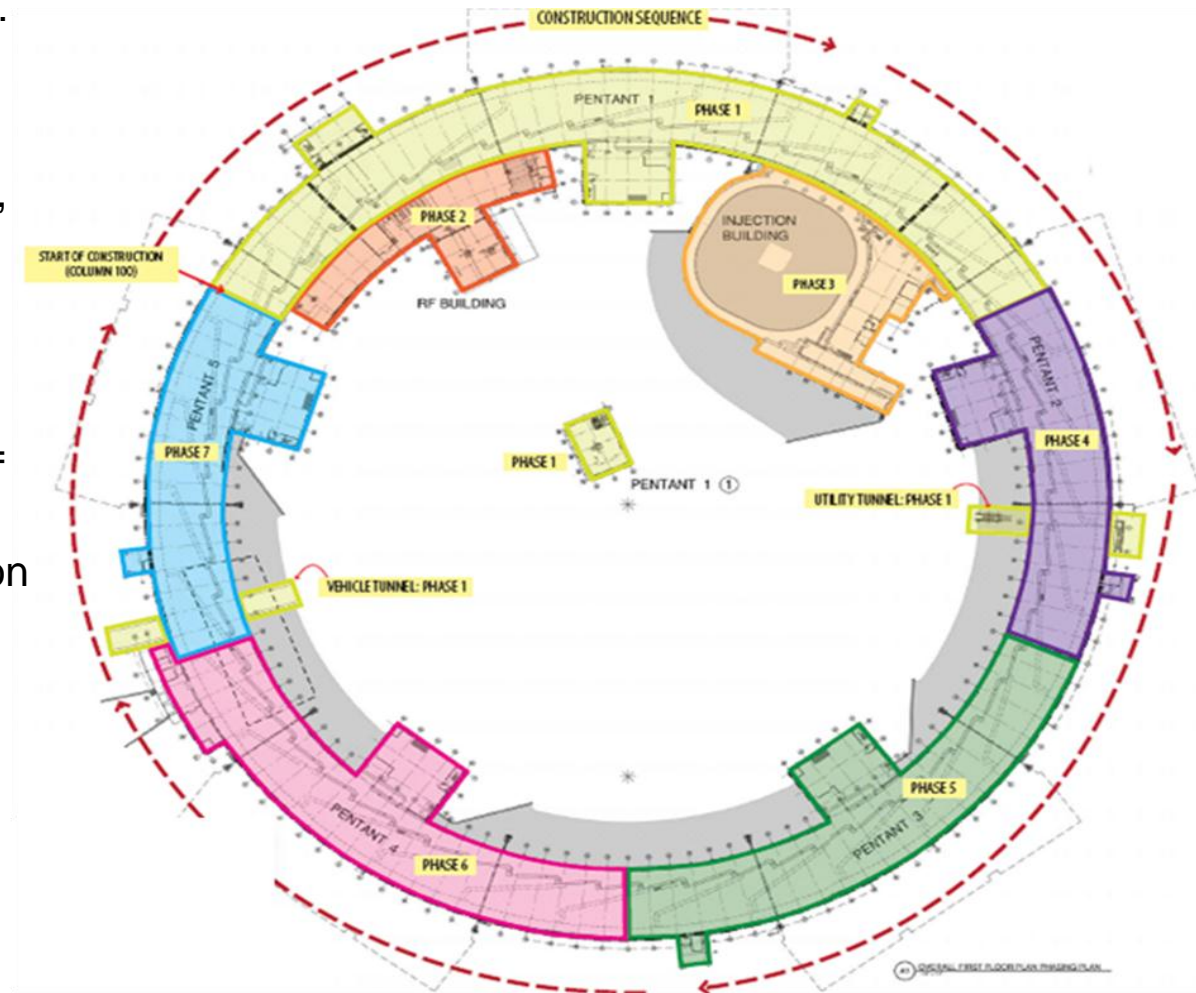
A. Ackerman

# Building 740

Beneficial Occupancy Readiness Evaluation  
Work Planning  
Access

- BORE = 08/10/2011
  - Life safety systems = fire detection & suppression, egress, emergency lights ...
  - Utilities: power distribution, potable water, toilets, air ...
  - Habitable space: heat, light, walls, ceiling ...
- Work Planning
  - Define scope and tasks
  - Common installation work = 'construction – like'
  - Controls; worker qualification
  - **Coordination** is the real challenge
- Access
  - Restricted to 'safe zone'
  - Training, hard hats, safety shoes, eye protection
  - Visitor escorts

## Bldg. 740














# Posting

Area Personnel Protective Equipment  
Requirements

# Area Postings

BNL Hazard Placard

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HAZARD INFORMATION PLACARD/EMERGENCY INFORMATION Safety, Health & Environmental Information			
Bldg: 0725 Room: 1-117		Contact Information	
Dept: PS Photon Sciences		Name	Work #
Rev. Date: 04/28/11 9:49 AM		Primary: Carlson, Dennis	4926
NO FOOD OR DRINK ALLOWED NO SMOKING		Alt. #1: Khalid, Syed	7496
		Alt. #2:	631/828-8509
ESR / SWP / RWP / PI: PS-ESR-1-117			
PROTECTIVE EQUIPMENT REQUIRED FOR ENTRY Area Designation: Chemical Laboratory			
			
SAFETY GLASSES	LAB COAT	LONG PANTS	FULLY ENCLOSED SHOE
HAZARDS OF THE AREA			
			
FLAMMABLE	SELF REACTIVE	CARCINOGEN	OXIDIZER
		REPRODUCTIVE TOXICITY	
			
CORROSIVE			
			
GAS UNDER PRESSURE	CRYOGENS		
ADDITIONAL INFORMATION			
TO CONTACT CONTROL ROOM - 2550			
ISOLATION LOCATIONS FOR UTILITIES (IF APPLICABLE)			
Electric:	ME #3		
Gas:	N/A		
Steam:	N/A		
Ventilation:	ME #3		

# Injuries / Events

# PSD Injuries (Not Construction)

## FY 11

9

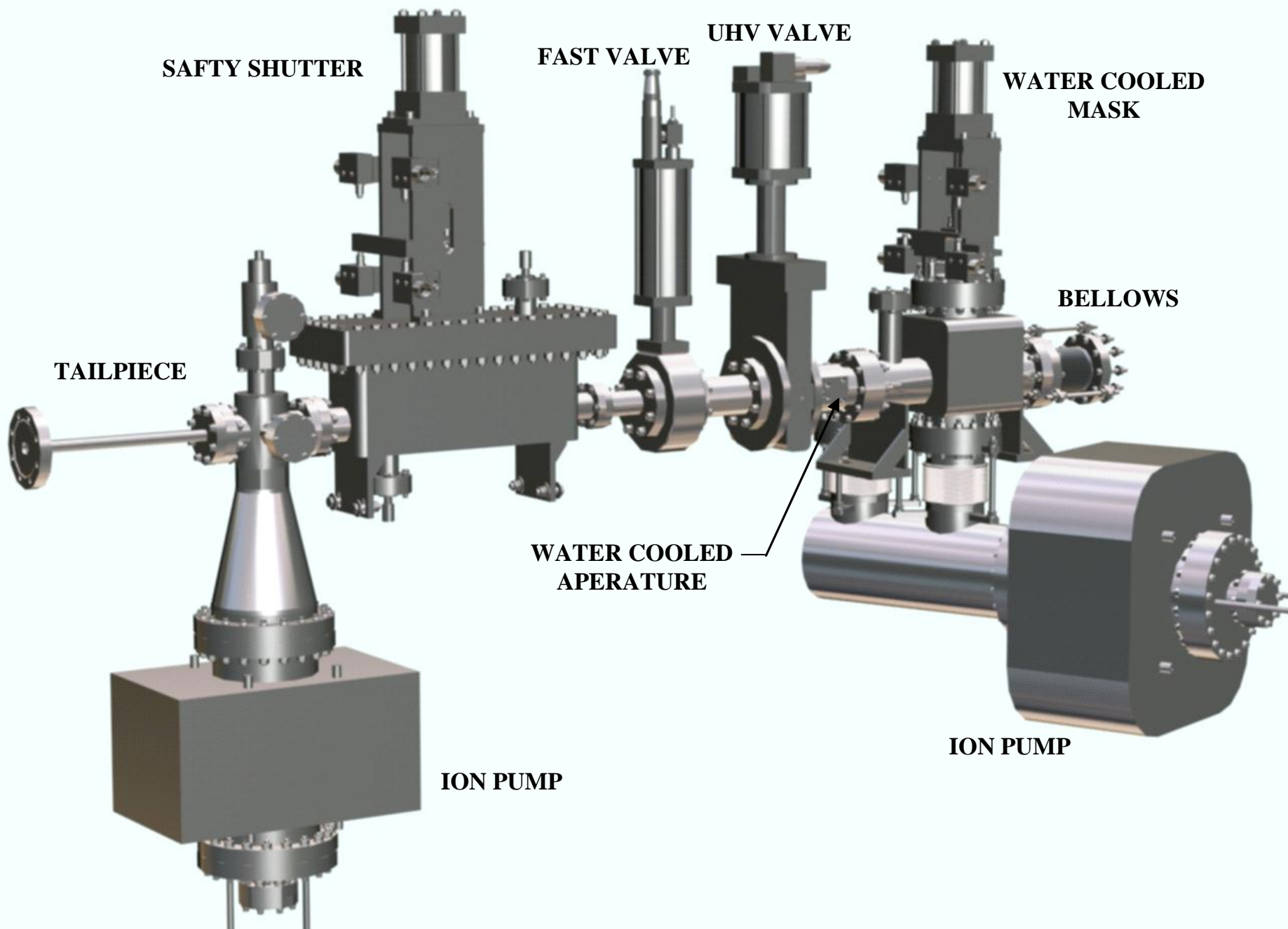
(First Aid)

- |                           |                             |                     |
|---------------------------|-----------------------------|---------------------|
| • Cut finger (razor)      | User                        | 1 <sup>st</sup> Qtr |
| • Twisted ankle           | Staff                       | 1 <sup>st</sup> Qtr |
| • Cut finger (screw)      | User                        | 2 <sup>nd</sup> Qtr |
| • Twisted knee            | Staff                       | 2 <sup>nd</sup> Qtr |
| • Bumped head             | Beamline Staff<br>(non-BNL) | 3 <sup>rd</sup> Qtr |
| • Cut finger (VME Crate)  | Staff                       | 3 <sup>rd</sup> Qtr |
| • Sprained ankle          | User                        | 3 <sup>rd</sup> Qtr |
| • Back strain             | Staff                       | 3 <sup>rd</sup> Qtr |
| • Cut finger (Cable Tray) | Contractor                  | 4 <sup>th</sup> Qtr |

**No Recordable or DART**

# X16 Vacuum Valve







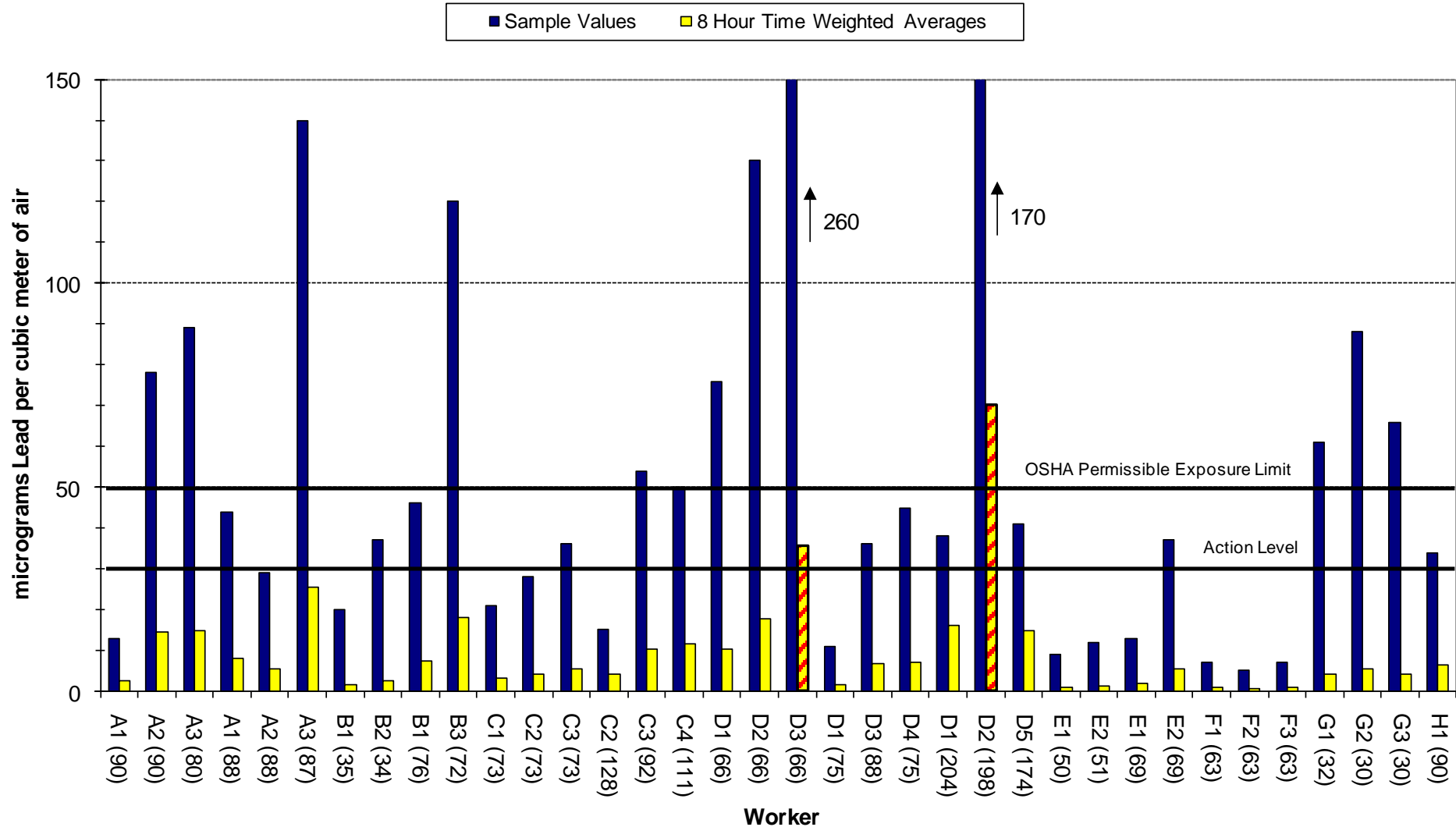




Lead

**Chart 2: Brick Movement**  
**Personnel Exposure Monitoring Data**  
**Sample Values & 8 Hour Time Weighted Averages**

32 Samples



# Lead Surface Contamination

<b>1994 EPA Guidelines</b>	<b>2001 TSCA Standards</b>
100 $\mu\text{g}/\text{ft}^2$ for floors	40 $\mu\text{g}/\text{ft}^2$ for floors
500 $\mu\text{g}/\text{ft}^2$ for window sills	250 $\mu\text{g}/\text{ft}^2$ for window sills





Location (Soldering Stations)	Type of surface	(µg/ft²)
Soldering station 1	Plastic	2044
Soldering station 2	Painted wood	19.5
Floor in front of Workstation 1	Floor tile	16
Workstation 2	Plastic	8
Workstation 3	Plastic	50
Workstation 3 chair	Leather	195
Gray plastic cart next to Workstation 4	Plastic	62
Workstation 4	Plastic	827
Workstation 5 left side by soldering instrument	Plastic	111
Workstation 5 floor	Floor tile	68
Workstation 5 right side	Plastic	158
Workstation 6 left side	Plastic	21
Workstation 6 right side	Plastic	N.D.
Workstation 6 floor	Floor tile	72
Workstation 7 left side next to solder instrument	Plastic	483
Workstation 7 floor	Floor tile	167
Workstation 8 left side next to solder instrument	Plastic	307
Workstation 8 floor	Floor tile	29



<b>Location (Workstations)</b>	<b>Type of surface</b>	<b>(µg/ft2)</b>
Door knob on tunnel to building 535	Metal	5.6
Hand rail in tunnel to building 535	Metal	26
Kitchen area microwave handle room 1-124C	Plastic	16.7
Light switch in hallway	Plastic	16.7
Exit 39 door handle	Metal	N.D.
Workstation downstream of X3A	Plastic	7.6
Workstation upstream at X7A	Plastic	18
Shelves at X8C with microwave and food	Plastic	84
Workstation between X10A & X10C	Plastic	22
Workstation between X11A & X11B	Plastic	19
Workstation X15A at BS3	Plastic	28
Workstation at X16B under C/L 18 & 20	Plastic	750
Workstation X16C downstream	Plastic	69
Workstation at X18A	Plastic	4.1
Workstation at X18B	Plastic	N.D.
Workstation at X19A	Plastic	3.6
Workstation at X22 under C/L #12	Plastic	9.4
Workstation at X23A2 under C/L #5	Plastic	3.8

<b>Location (Floors)</b>	<b>Type of surface</b>	<b>(µg/ft²)</b>
Stock room set-up area floor east side	Floor tile	538
Stock room set-up area floor west side	Floor tile	2322
Stock room set-up area floor north side	Floor tile	130
Stock room set-up area floor near X25 Huber table	Floor tile	223
Stock room set-up area floor near unpainted lead bricks	Floor tile	3158
Floor between X3A and X3B	Floor tile	10
Floor under X7A at BS2 – before winter cleaning	Floor tile	430
Floor under X7A at BS2 – after winter cleaning	Floor tile	2500
X7A Hutch floor – pre-cleanup	Floor tile	11,000
X7A Hutch floor – post wipe and cleanup with LeadTech™	Floor tile	82
Floor in front of X10C	Floor tile	22
Floor under X10A at BS6	Floor tile	25
Floor under X11 Checklist #4	Floor tile	310
Floor under X11 beam pipe upstream	Floor tile	360
Floor under X19A BS6	Floor tile	40
Room 1-147 floor pre-cleanup 1 <sup>st</sup> wipe	Floor tile	2200
Room 1-147 floor pre-cleanup 2 <sup>nd</sup> wipe	Floor tile	180
Room 1-147 floor post cleanup with LeadTech™ wipes	Floor tile	21



**LEADTECH**  
WIPES



**Removes 99% of lead**  
and other toxic metals  
from skin and surfaces

**Removes  
contaminants  
soap and  
water can't!**

Licensed from the Centers  
for Disease Control (CDC)  
and the National Institute  
for Occupational Safety  
and Health (NIOSH)

**MEDTOX**

CONTENTS: 33 WIPES, EACH 7 IN X 9 IN (17.8 CM X 20.3 CM)



STOCK NO. : SRF037

LEAD TECH WIPES

NATIONAL SYNCHROTRON LIGHT SOURCE

# The Booster to VUV/IR Transport Line Walkover









End