

NSLS Equipment Disposition



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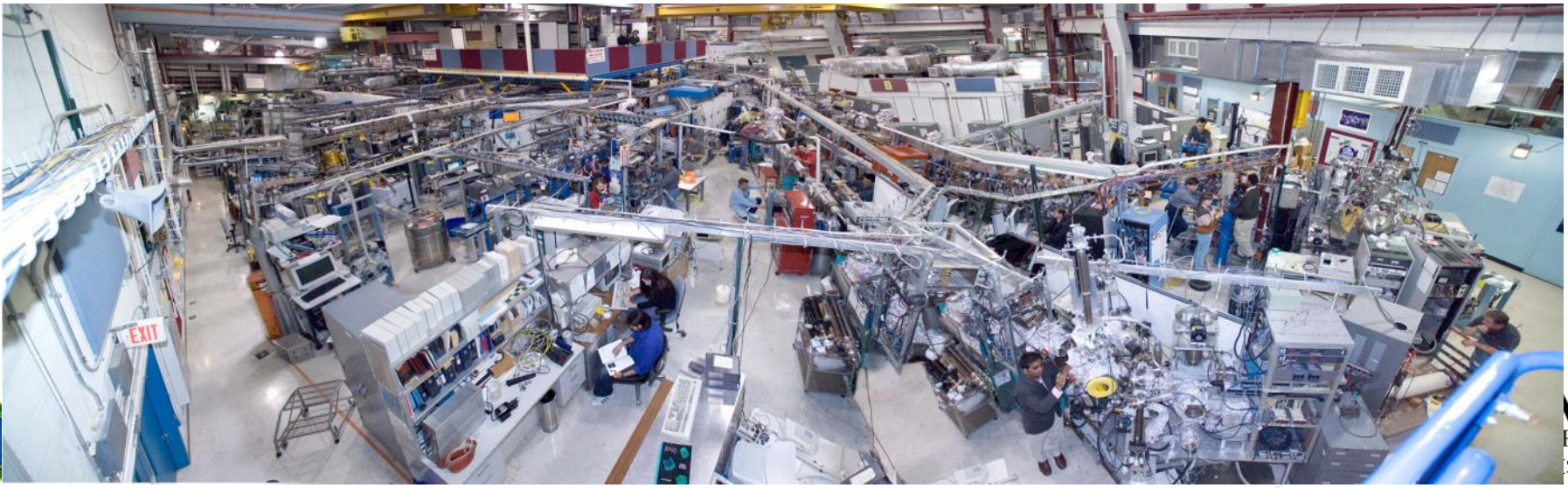
Photon Sciences Directorate Chief Operating Officer

PHOTON SCIENCES TOWN MEETING

July 29, 2014

Outline

- Decommissioning of the NSLS
- Assumptions
- Preparations for Shutdown
- Equipment Removal
- Hazards Removal
- Summary



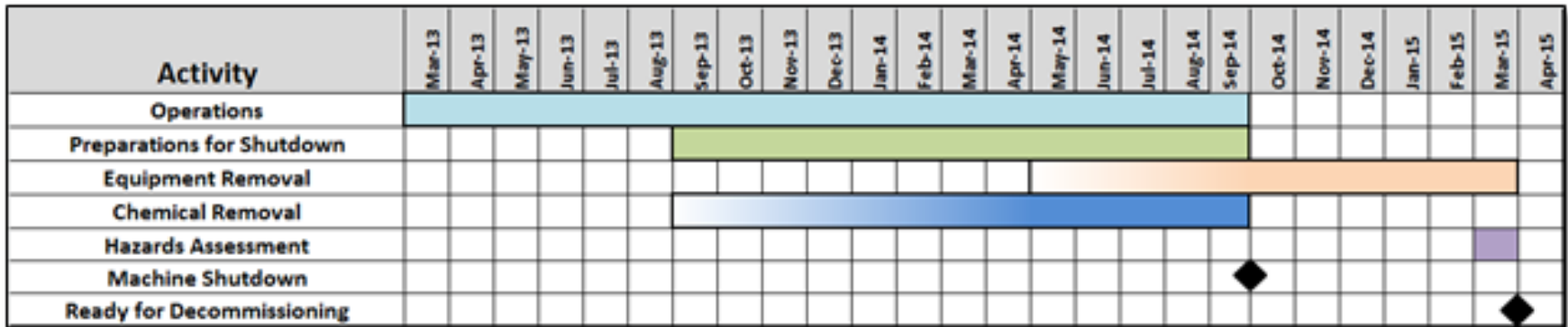
Decommissioning of the NSLS

- Decommissioning Studies have been conducted
- Final decommissioning scope will be determined based on funds available from DOE and BNL plans for re-use
 - Full Decommissioning
 - Stabilize and Hold
 - Phased Decommissioning over a number of years
 - Remove Hazards
 - Remove UV Ring/Linac/Booster
 - Remove X-ray Ring
- Current guidance is that \$5.5M will be made available from DOE to BNL in FY2015 for “Hazardous Removal/Interim D&D”

Assumptions for all Studies

- NSLS Operates through 9/30/2014 at 4:00 p.m.
- Laboratories will be cleaned out
- Chemicals, supplies and other materials will be removed
- Equipment will be dispositioned
- After a period for removal, the first floor of 725 will no longer be accessible

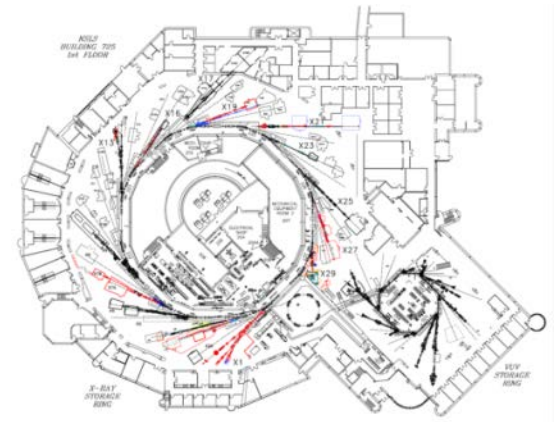
NSLS Timeline to Close-out



- Operations through September 30, 2014
- Currently estimating October 2014 to December 2014 for researchers to move equipment and materials off the experimental floor
 - Contingency included through March 2015, but
- NxtGen hutches to be removed starting Jan 2015 or earlier

Preparations for Shutdown

- Beamline Inventory
 - Inventory group tasked to gather beamline inventory information
 - Randy Smith, Bin Dong, Gary Nintzel, Steve LaMarra, Qing-Yi Dong, Edwin Lazo
 - Disposition categories identified include:
 - To be moved to NSLS-II (NxtGen or other)
 - To be saved (issues here....)
 - To be returned to home institutions
 - BNL tagged property
 - Remain in place for decommissioning
 - Scrap
 - > 4000 items identified



Preparations for Shutdown

- Disposition Procedures are in draft
 - Removal of Equipment
 - Removal of Chemicals
- All equipment moves scheduled through Bob Kiss based on information in SharePoint database
- Schedule being developed to ensure an orderly removal of items

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Photon Sciences Directorate, Brookhaven National Laboratory			
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Title: Removal of Equipment From Building 725 in Preparation for Decommissioning			Technical

1 PURPOSE AND SCOPE

The purpose of this procedure is to provide the requirements for the removal of equipment from Building 725. The scope of this procedure applies to equipment that has been identified as non-hazardous, with the exception of equipment that is being returned to its home institution. Any item that is hazardous, and not being returned to its home institution, shall be dispositioned in accordance with LS-C-ESH-PRC-002, *Disposition of Hazardous Materials From Building 725 in Preparation for Decommissioning*.

This procedure applies to all personnel and activities associated with the removal of equipment from the NSLS experimental floor, the NSLS laboratories, the NSLS machine shops or the NSLS accelerator tunnels, regardless of the disposition path chosen, including the return of user-owned equipment to its home institution, the shipment of material off the BNL site, the movement of equipment to the NSLS-II experimental floor and the storage of equipment for future use.

2 DEFINITIONS

2.1 **Material Safety Data Sheet (MSDS):** A source of information for an employer or employee in the event of accidental chemical exposure. MSDSs are required by OSHA as part of an employer's Hazard Communication Program, which is required by regulations for all employers using any chemical listed as a hazardous substance.

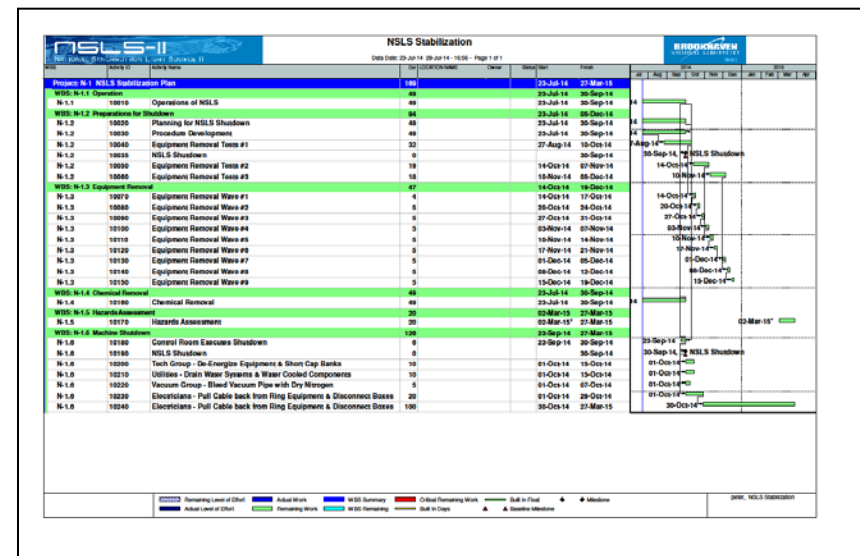
2.2 **Process Knowledge Certification Form (PKCF):** A form that is completed by waste generators for each package/container of hazardous waste to certify that the hazardous waste that has come from a Radiologically Controlled Area, but the waste is nevertheless non-radioactive. This form is used as a certification that the waste is non-radioactive. The PKCF is attached to the accompanying NRWCF.

3 RESPONSIBILITIES

3.1 NSLS Equipment Point of Contact

3.1.1 Completes the NSLS Equipment Traveler.

3.1.2 Provides proper Project and Activity numbers for all associated expenses.



Equipment Removal

- Disposition Paths
 - Government-owned equipment
 - Transferred to a new location with a new owner
 - Transferred to an outside vendor
 - Cannabilized
 - Excessed through the DOE system
 - Other (to be determined on a case-by-case basis)
 - Equipment owned by others
 - Returned to home institution
 - Transferred to a new location
 - Transferred to an outside vendor
 - Transferred to BNL
 - Abandoned (to be determined on a case-by-case basis)

Equipment Removal

- Rigging team assigned to this effort
- Storage space in LOB2 has been identified. Chris Stebbins POC.
- First small move of equipment being scheduled within the next few weeks
 - Using items with varying disposition paths
 - Working through the details
 - Will refine the procedures



Hazards Removal

- Chemicals
 - ~2,500 containers of chemicals currently inventoried on first floor of Building 725
 - All chemicals should be removed by ~9/30/2014
 - How can you help?
 - Chemical owners should go through their inventory now
 - Waste Management is prepared to assist, but they can't do it all at once
 - Arrange for any disposal or transfer to another building through Debbie Bauer (x5664, bauer@bnl.gov)
 - 50% of chemical owners have responded so far, but only a tiny percentage of the chemicals have been removed.

Hazards Removal

- Lead
 - Need to determine extent of decontamination required
 - Based on current and future use and location
- Beryllium
 - Beryllium articles being moved need inventory update and may need controls
- Electrical Equipment
 - Database update for all electrical equipment
 - May require Electrical Equipment Inspection at new location

Summary

- Operations cease 9/30/2014
- Stabilization preparations well underway
- Turnover for decommissioning
 - Equipment removal by December 31, 2014
 - NxtGen Hutch removal to begin January 1, 2015 or earlier
 - Turnover to BNL for next phase by March 31, 2015

