

NSLS Stabilization/NSLS-II Space Assignment



Michael J. Bebon – NSLS-II Deputy Director for Operations
NSLS-II Town Hall Meeting
February 13, 2015

Outline

- **Introduction to Mike Bebon**
- **Project Approach for Adaptive Reuse of NSLS**
- **NSLS Stabilization**
- **NSLS-II Space Allocation Update**

Introduction to Mike Bebon

- B.E. in Mechanical Engineering, NYU – 1972
- MBA University of Utah – 1975
- NY State Professional Engineer – 1994
- Early experience was in utility industry construction and project management (“pipes and powerplants”)
- Followed by buildings large and small
- Chief Engineer at Plum Island
- Came to BNL site 1980 as BHSO employee; left in 1987 to join BNL
- Over 27 years in management roles at BNL up through DDO
- Active duty/guard/reserve military career; retired USAF Colonel
- Joined Photon Sciences staff in Oct 2013 as Start Up Manager
- Fulfilled long term goal to work in a science organization
- Married for 42 years; 3 daughters/sons-in-law; 4.89 grandchildren

Project Approach for Adaptive Reuse of NSLS

- **NSLS project being planned in three phases:**
 - **Stabilization – managed by NSLS-II and underway**
 - Hazard Removal – managed by BNL ES&H Directorate
 - Repurposing – managed by BNL Campus Development Office
- **Lab Master Plan is to repurpose the facility as a Computational Center**
- **Stabilization funded**
- **Initial funding for Hazard removal provided**
- **Repurposing cost and sponsor TBD**

NSLS-II Stabilization - Overview

- **NSLS removed from service September 30, 2014**
Stabilization Phase began October 1st
- **Scope**
 - Bar-coded equipment
 - Equipment to be reused at NSLS-II
 - User equipment to be returned to home institution
 - Chemicals, cylinders, samples
- **Budget**
 - \$1.6M - \$1.2M for stabilization/\$0.4M for characterization and planning for hazard removal phase
- **Schedule**
 - Target completion was December 31, 2014 with contingency to March 31, 2015

NSLS-II Stabilization - Overview

- **Working with BNL Facilities and Operations and ES&H Directorates:**
 - To define “turnover standard” to be met for March 31st turnover to ES&H for Hazard Removal Phase
 - ES&H and F&O directorates providing support to project
 - ES&H – sampling, hazard identification, chemical management
 - F&O – rigging, transportation, custodial services

NSLS-II Stabilization - Pathways

- **Disposition pathways**

- Transferred to NSLS-II
- Shipped to home institution
- Provided to other BNL organizations (“Reutilization Review”)
- Provided to other DOE Labs, other federal agencies, local government, universities, or private sector entities through the DOE excess property process
- Recycled – paper, electronics, scrap metal, etc
- Discarded as trash
- Shipped as Rad/chemical/biological waste
- Abandoned in place

Equipment Reutilization Review

- Opportunity to provide NSLS equipment to other BNL organizations only prior to entering into the DOE excess process
- Pre-meeting Wed 2-11-15
- BNL organizations will walk-down the beamlines and accelerators next week and tag equipment they want
- All equipment remaining in place and not tagged as unavailable or to be shipped is “fair game” to be claimed; most beamlines have tagged their equipment
- Other organizations must remove equipment by March 27th

DOE Excess Property Process Overview

- **Once excess to BNL's needs:**
 - **Can be transferred to an entity working under a DOE program or grant who needs it (requires DOE approval)**
 - **If not, goes into general excess process:**
 - Other DOE Labs have 15 days to claim
 - Then GSA lists the equipment for 20 days total
 - Other federal agencies – entire 20 days
 - First 7 days – universities
 - Last 7 days – State and Local agencies
 - If not claimed then goes up for sale to highest bidder worldwide
 - If not sold....scrapped
 - Within the timeframes above, “first come first served”

NSLS-II Stabilization - Status

- **Equipment Moves**

- 4,933 items in equipment database
- 2,939 items “planned to be moved”
- 69 Rejected by Project Managers
- 1,471 moved as of 1/30/2015 (51%)

- **Chemical Disposition**

- Over 1000 items have been turned in and appropriately disposed
- Chemicals going to NSLS-II are being moved to labs or stored in the NSLS-II chemical storage bays
- ESH staff out on experimental floor collecting any remaining items

- **Significant amount of user equipment tagged as planned to be shipped, already shipped to home institution, or moved to temporary storage pending shipment**

NSLS-II Stabilization - Status

- *Much more to be done to finish equipment removal and cleanup of beamline areas, labs, tech spaces*
- Will require all schedule contingency (snow events hit hard), but plan to complete by March 31st
- Expect to complete within budget

NSLS-II Stabilization – Lead Issue

- **Characterization work to prepare for Hazard Removal Phase detected elevated airborne lead levels(dust)**
- **Suspected cause - dust stirred up though disassembly, packaging and transport of equipment (including lead shielding – un-encapsulated lead bricks and sheets)**
- **Levels determined to be acceptable for inhalation; ingestion the concern**
- **Good practices being used to limit exposure**
 - Prohibited eating and drinking on experimental floor
 - Promoting frequent hand-washing
 - All equipment being wiped down prior to shipment

NSLS-II Space Management

Office Space

- LOB 4 on schedule for completion by Sept 30, 2015
- Will be all office space; approximately 20 offices, 12 workstations and 24 cubicles
- Will begin planning/space allocation in next few weeks
- Planning for summer students in progress; expect to be able to accommodate the expected 22 students

Laboratory Space - LOB Labs (20)

- Electronics labs for controls and safety systems (3)
- Vacuum lab for beamlines and accelerator
- Dry labs for beamline development and beamline assembly (2)
- Dry labs for beamline operations and user support (6)
- Science support labs
- IR Program
- Soft matter & bio-membrane
- Molecular biology & protein sample prep
- Hard materials & high pressure
- Environmental science
- Chemistry & catalysis
- Wet labs for beamline operations and user support (2)

LOB Lab Assignment Plan



- 20 labs available in 743 and 741
- Labs divided between operations support, user support, beamline development, and science support needs
- Capabilities desired for each lab collected from beamline staff (purchased & transferred from NSLS)
- Assessments for needed equipment in process

LAB 480 ft²

- Vacuum Prep.
- Wet Lab
- Optics Assembly
- Dry Lab
- Electronics Worksh.
- Materials Character.

Path Forward

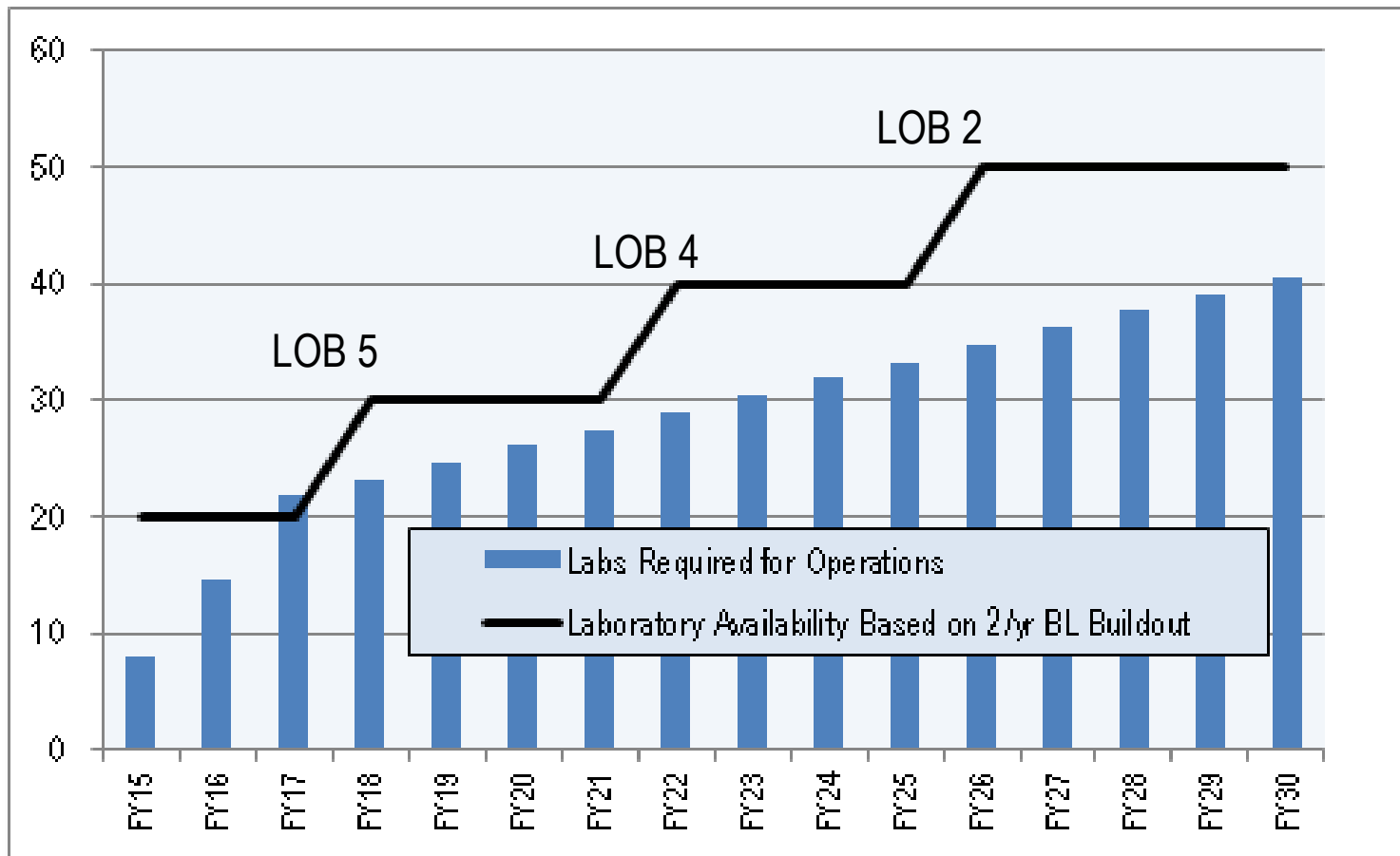
- UEC input encouraged
- LOB1 Laboratory allocations to be made shortly
- According to the current LOB build out schedule, additional labs to become available as follows:
 - LOB5 – FY2018
 - LOB4 – FY2022
 - LOB2 – FY2026



LOB 3 Lab 4

Laboratories Required v. Available

- Based on best guess beamline build out plan
- 50 Labs available 58 beamlines = .9 labs per beamline



Questions??

