...to safely and efficiently remove hazards and hazardous conditions resulting from NSLS operations to prepare it for the post-operations phase of the facility life cycle.
Non-Radiological Hazards

- Hazards identified during characterization/project execution
  - Asbestos
  - Beryllium components/contamination
  - Biohazards
  - Chemicals
  - Experimental samples
  - Compressed gases
  - Confined spaces
  - Sources of electrical/mechanical energy
  - Flammables/combustibles
Non-Radiological Hazards

More...

- Lead shielding/lead contamination
- Magnetic fields
- Potential for residual nanomaterials
- Oil and Freon (e.g., pumps, refrigerators)
- Physical hazards
- Laboratory hoods/sinks
- Unknowns
Unknowns
Project Scope

• Removal of NSLS accelerators, beamlines and associated research systems & equipment
• Removal of > 500,000 lbs. of lead shielding
• Radiological survey and release of over 1,000,000 lbs. of removed equipment
• Disposition of almost 3,000,000 lbs. of equipment, material and debris
X-Ray Ring
Booster
X-Ray Experimental Floor
End State

• Former NSLS (Building 725) well-positioned for future use
• Facility is free of radioactive material
• All hazards removed with the exception of lead contamination
  • 1st Floor issue
  • Proven controls in place to protect personnel
  • Will be resolved prior to future facility use
Re-Use of NSLS Assets

• Thousands of components with replacement value of $70 Million transferred to NSLS-II for re-use
• Equipment with replacement value of $2 Million transferred to Argonne National Laboratory
• 40,000 pounds of lead shielding transferred to Yale University for use on future experiment at a DOE site
NSLS Material Recycling

**NSLS - HRP Scrap Metal Shipment as of 3/31/16**

(includes one last shipment on 4/1/16)

<table>
<thead>
<tr>
<th>Material</th>
<th>Weight (lbs.)</th>
<th>Returns ($)</th>
<th>Shipments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper</td>
<td>123,700</td>
<td>$171,924</td>
<td>13</td>
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<tr>
<td>Electronics</td>
<td>65,520</td>
<td>$26,208</td>
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<tr>
<td>Mixed Al</td>
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<td>$47,142</td>
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<tr>
<td>Mixed Wire</td>
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<td>Mixed Steel</td>
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<tr>
<td>Lead</td>
<td>508,843</td>
<td>$238,907</td>
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<tr>
<td>Stainless Steel</td>
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<td>$27,619</td>
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<tr>
<td>Transfers</td>
<td>65,900</td>
<td>-</td>
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<tr>
<td>Grand Total</td>
<td>2,239,423</td>
<td>$775,673</td>
<td>221</td>
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