

**NSLS ENVIRONMENTAL MANAGEMENT SYSTEM
OPERATIONAL CONTROLS FORM**

OPERATIONAL CONTROL FOR SIGNIFICANT ENVIRONMENTAL ASPECTS: <u>MIXED RESIN BED REGENERATION; HAZARDOUS AND INDUSTRIAL WASTE GENERATION; LIQUID DISCHARGE; CHEMICAL STORAGE (SPILLS & BACKFLOW).</u>	COMPLETED BY: <u>A. ACKERMAN, J. ALOI, D. BAUER</u> DATE: <u>DECEMBER 13, 2006</u> REV 3 PAGE 1 OF 1
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1. Operation:

Mixed Resin Bed Regeneration: NSLS-461-MRB

2. Activities:

- 1) Storage of chemicals
- 2) Dispensing and use of chemicals
- 3) Characterization and disposal of chemicals and wastewater
- 4) Spent resin management

3. Operational Controls:

1. Tier 1 Inspection Program
2. Chemical Management System
3. Operational Control Form
4. Secondary containment (trays, cabinets, etc...)
5. NSLS procedure: Test Resistivity and Re-charge High Pressure Copper Water System. (LS-M-0004)
6. NSLS ES&H Policies and Requirements Manual
 - LS-ESH-PRM-7.0.0, Hazardous Waste Management
 - LS-ESH-PRM-9.0.0, Local Emergency Plan
7. Subject Areas
 - Hazardous Waste Management
 - Liquid Effluent
 - Spill Response
 - Drinking Water
 - Pollution Prevention
 - Work Planning and Controls
8. Training as identified in the BTMS.
 - Read and Sign Training Form "Regeneration of Mixed Bed Dionizer for NSLS Process Water Systems" for Utilities Engineer and Utilities Group.
9. Backflow Devices on the resin bed system - Tested and maintained by Plant Engineering's Operation and Maintenance Group.

4. Maintenance Plan: Not Applicable

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5. Actions to be Taken if Controls Fail:
Follow the Local Emergency Plan, located in the NSLS ES&H Policies and Requirements Manual, or specific procedures posted in work area, if applicable.

- 6. Records:**
- 1) Tier I database
 - 2) Process Assessment Form, PAF 461
 - 3) Chemical Management System database
 - 4) Operational Control Form
 - 5) LS-M-0004
 - 6) Analytical results for ion exchange regeneration wastes
 - 7) Waste disposal forms: Waste Management Facility
 - 8) Brookhaven Training Management System (BTMS) records
 - 9) Signed Read and Sign training forms

7. Responsibilities:

Name	Responsibility
NSLS Safety Engineer	<ul style="list-style-type: none"> • Complete Tier 1 inspections. Track corrective actions. • Maintain supply of spill control materials. • Review analytical data and determine waste disposal requirements.
NSLS Water Systems Engineer	<ul style="list-style-type: none"> • Assure proper use of secondary containment and Chemical Management System. • Assure implementation of mixed bed regeneration and waste disposal requirements. • Arrange environmental sampling through the ECR. • Review proposed work and assure referral of

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	<p>appropriate operations to the NSLS Work Control Manager.</p> <ul style="list-style-type: none"> Assure proper management of Industrial and Hazardous Waste.
<p>NSLS ECR</p>	<ul style="list-style-type: none"> Development and maintenance of OCF forms and PAFs. Provide staff support to assure work is done in compliance with relevant regulations. Assures that samples taken for waste characterization are collected and handled following proper Lab procedures.
<p>NSLS Mechanical Engineering Group Technicians</p>	<ul style="list-style-type: none"> Adhere to BNL waste disposal requirements. Act to control and report chemical spills.
<p>NSLS Training Coordinator</p>	<ul style="list-style-type: none"> Maintains training database, tracks and reports training status to staff.
<p>8. Training: Personnel have complete Job Training Assessments (JTA's)</p>	

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Document Review Frequency

3 Years

Review signatures on file
with master copy of
controlled document

NSLS REVISION LOG		
Subject:	OCF – Mixed Resin Bed Regeneration	
Rev	Description	Date
3	Added Work Planning and Controls to the Operational Controls subject area section. Cleaned up document and removed all outdated information. Updated web links. Added Waste management responsibilities for the NSLS Water Systems Engineer.	12/13/2006