

BNL FY08 Directorate and Division EMS Objectives and Targets

Division	Objective	Target	Action	Supports Lab EMS Objective Number or Department Specific	
C - A D	Compliance	Achieve full compliance with applicable environmental requirements	Zero Notices of violation from regulators Zero permit exceedances	Department Specific Department Specific	
	Pollution Prevention	Reduce Greenhouse gas emissions by 3% in support of EO 13423	Improve the RHIC cryogenic system energy efficiency	1.0 Reduce greenhouse gas (GHG) emissions in support of EO 13423	
			Reduce unnecessary electrical loads during summer shutdown to decrease electrical use.	1.0 Reduce greenhouse gas (GHG) emissions in support of EO 13423	
			Shut Down 924 refrigerator & freezer operations	1.0 Reduce greenhouse gas (GHG) emissions in support of EO 13423	
		Dispose of Unneeded Materials and Chemicals in accordance with UMC Plan	Achieve a 3% Reduction in UMC's	5.1 Disposition at least one excess nuclear material, legacy waste; Disposition unneeded materials and chemicals (UMC) in accordance with plan	
			Recycle unneeded metals and wire in 926	5.1 Disposition at least one excess nuclear material, legacy waste; Disposition unneeded materials and chemicals (UMC) in accordance with plan	
			Dispose unneeded materials in 924 refrigerator & Freezer Inventory 50% of the chemical lockers in the magnet division and dispose of unneeded chemicals	5.1 Disposition at least one excess nuclear material, legacy waste; Disposition unneeded materials and chemicals (UMC) in accordance with plan	
			Submit a minimum of one pollution prevention project to the P2 council	5.3 Identify and fund a Lab Clean-out	
			Complete the removal of the PCB capacitors at LINAC, B912, B928	4.0 Improve the pollution prevention program	
			Investigate the cost of PCB removal at TDVG	5.1 Disposition at least one excess nuclear material, legacy waste; Disposition unneeded materials and chemicals (UMC) in accordance with plan	
			Train purchasers and specifiers on the requirements of EPP	3.1 Train purchasers and specifiers on the requirements of the EPP program	
	Groundwater Protection	Fully implement groundwater protection program. Protect groundwater groundwater quality from further chemical and radiological releases, and remediate existing contaminated groundwater	Archive data on activated soils	Department Specific	
			Cap LINAC beamstops and investigate need for a cap adjustment at J-10	Department Specific	
	P h y s i c s	Pollution Prevention	Reduce excess chemicals and materials stored in the department	Evaluate Storage and Usage of chemicals in 4 labs or work areas (1 per quarter)	5.3 Identify and fund a Lab Clean-out.
				Recycle 1000 lbs of Excess Lead in 510 Remove Greater than 50% of the spray cans that will not be used in the next year	5.1 Disposition at least one excess nuclear material, legacy waste; Disposition unneeded materials and chemicals (UMC) in accordance with plan. 5.3 Identify and fund a Lab Clean-out.
Compliance		Identify and Control Special potential pollutants	Add checkboxes for mercury, nanomaterials, greenhouse gas emission use to ESR form. Review controls for experiments that indicate use or disposal of above pollutants.	2.2 Identify and prioritize sources of sediment/sludge containing mercury upstream on the Sewage Treatment Plant (piping systems, traps, manholes, etc.). 4.0 Improve the pollution prevention program	
Pollution Prevention		Provide efficient, effective waste management, minimization and pollution prevention.	Identify and fund 1 lab cleanout.	5.3 Identify and fund a Lab Clean-out.	
I n s t r u m e n	Community	Improve Feedback from Staff Stakeholders on environmental concerns	Obtain from at least 80% of the activities, the most important environmental concern for FY08 within each activity.	Department Specific	
		Improve the EMS Trust and relationship with stakeholders	Implement the Divisions EMS Employee Recognition Program	Department Specific	
	Compliance	Achieve Full Compliance with applicable regulatory requirements	Achieve zero reportable spills, permit limit violations, and notice of violations from regulators	Department Specific	
			Improve the control of posted EMS documents, forms and operator aids	8.0 Improve the ISO 14001 System 8.0 Improve the ISO 14001 System	
Conserve Resources	Improve Electronics Stewardship	Recycle 100% of non-reusable computer units, electronics and batteries using environmentally sound recycling practices	7.4 Recycle 100% of non-reusable computer units using environmentally sound recycling practices.		

BNL FY08 Directorate and Division EMS Objectives and Targets

Division	Objective	Target	Action	Supports Lab EMS Objective Number or Department Specific
t a t i o n	Conserve Resources	Improve Electronics Stewardship	Ensure 95% of all new desktop computers and monitors are EPEAT Bronze or higher, and 100% of the monitors are enabled with Energy Star features	7.2 Ensure 95% of desktop computers and monitors are EPEAT Bronze or higher. (see http://www.epeat.net/)
	Pollution Prevention	Implement preventative and corrective actions from the FY07 EMS Assessments, and ISM findings	Address 100% of findings and opportunities for improvement	4.0 Improve the pollution prevention program
		Reduce greenhouse gas emissions	Reduce unnecessary electrical loads during night and weekend hours	1.2 Evaluate and prioritize opportunities to reduce GHG. Implement at least one opportunity.
		Dispose of Unneeded Materials and Chemicals and Gas Cylinders	Achieve 10% reduction in unneeded materials listed in Labs UMC Plan. Also, achieve 50% reduction in unneeded chemicals and gas cylinders.	5.1 Disposition at least one excess nuclear material, legacy waste; Disposition unneeded materials and chemicals (UMC) in accordance with plan.
B a s i c i e n c e r s g y	Provide efficient, effective waste management, minimization and pollution prevention.	Submit one P2 Proposal (EMS Objective 4) Electronics Stewardship and reduction in greenhouse gasses through energy savings (Lab EMS Objectives 1, 5, 7 Performance Track, EO13423, FEC)	Purchase two portable HEPA filtered hoods for use by Chemistry and CMPMSD Establish Baseline of CRT monitors in use in BES Departments. Replace two CRT monitors in use (to reduce energy usage) and ensure monitors are recycled.	4.0 Improve the pollution prevention program 1.2 Evaluate and prioritize opportunities to reduce GHG. Implement at least one opportunity.
	Reduce risk and potential for environmental impact from BES Activities	Tank 555-02 (gaCl storage) emptied, cleaned and removed. Remaining Material Disposed. (Lab EMS Objective 5) Continue progress with disposition of Excess nuclear materials, Legacy Waste, Unneeded materials and Chemicals (Lab EMS Objective 5)	BES to work with EWMSD to contract a vendor. Set Directorate cleanup day with each department. Provide funding for EWMSD Rep to support cleanup.	5.1 Disposition at least one excess nuclear material, legacy waste; Disposition unneeded materials and chemicals (UMC) in accordance with plan. 5.3 Identify and fund a Lab Clean-out.
	Enhance Communication	Respond to Stakeholder Concerns	Communicate Nanomaterial ESH activities at the following venues: 2 CAC meetings and 4 workshop/conferences	Department Specific
		Improve communications between first responders and facility staff	Conduct emergency drills and assess communications between staff and support organizations	Department Specific
L i f e S c i e n c e s	Improve ISM and ESH Management System Performance	Improve ISM program	Implement ISM Improvement Plan, as applicable Implement ISM audit corrective actions as applicable.	Department Specific Department Specific
		Improve Facility Safety Program	Upgrade TPL shielding Revise the BLIP SAD to meet Accelerator Safety Subject Area requirements.	Department Specific Department Specific
		Emergency Management	Review emergency program to ensure compliance with SBMS Participate in DOE Emergency Mgmt Audit	8.0 Improve the ISO 14001System 8.0 Improve the ISO 14001System
		Improve Tier 1 performance	Closeout violations within 90 days Investigate chemical safety violations and develop corrective action plan to address. Focus on OSHA particularly hazardous substances. Improve RCRA compliance by meeting with repeat offenders to discuss issues and resolutions.	8.0 Improve the ISO 14001System
	Improve Operational Performance (compliance)	Improve Environmental Performance	Work to reduce UMC footprint: Use ALD funding to remove excess materials in at least one bin in 490 Basement (Priority: Bin B, F, T, hot waste sampling room, lead lined room 1st floor). Dispose of excess materials in 463 hangar-high bay and basement areas (BO Operating funds). Work with BES to continue to dispose of legacy materials in 901. (as funding allows) Dispose of out-of-service crane in Bldg. 801 Apply for an air permit for BLIP Submit at least 2 Pollution Prevention Proposals (one with a GHG focus). Submit 1 success story Encourage staff to set energy saver functions on computers and other electronics by email or newsletter.	5.1 Disposition at least one excess nuclear material, legacy waste; Disposition unneeded materials and chemicals (UMC) in accordance with plan. Department Specific
		Improve Electrical Safety Compliance	Implement the Nationally Recognized Testing Laboratory (NRTL) Certification program and 5 year plan developed in FY 2005 Continue to inventory non-UL listed equipment—Goal is to complete bldg 901(imaging areas)	Department Specific Department Specific
		Improve Radiological Performance	Meet with FSS to establish more efficient work processes for short lived isotopes used at 901/906 and improve communication. Consider a review by an outside SME.	Department Specific
		Improve Biological Safety Performance	Improve Biological Safety by implementing a Rodent allergen program. Develop methodology to conduct exposure monitoring for animal allergens (to be incorporated IH Monitoring Program) and conduct monitoring.	Department Specific
			Improve Biological Safety:	Department Specific
	Revise the Biological Subject Area and incorporate changes in CDC Biosafety guidelines.		Department Specific	

BNL FY08 Directorate and Division EMS Objectives and Targets

Division	Objective	Target	Action	Supports Lab EMS Objective Number or Department Specific	
	Communications Improvement	Improve Awareness, feedback and improvement	Provide the FY 2007 objectives to the staff for awareness and feedback via newsletter	Department Specific	
			Senior Management Work Observations (ALD 24/yr, Chairs 12/yr, Level IIIs 2/yr)	Department Specific	
			Develop an Ideas Program to be piloted in FY08 and rolled out in FY09	Department Specific	
			Participate on Institutional committee to develop and implement Human Performance		
Energy and Safety	Improve Compliance	Increase SBMS Subject Area Requirements Awareness	Communicate to affected staff ESH Subject Area training sessions being offered. Copy Research Operations office on all Communications.	Department Specific	
		Reduce GHG Emissions in support of EO13423	Include two Energy Reduction Suggestions in EENS ESH Newsletters	1.2 Evaluate and prioritize opportunities to reduce GHG. Implement at least one opportunity.	
		Strengthen Compliance with Interim Procedure	Perform Nano Self Assessment against Interim Procedure "Approach to Nanomaterial ESH"	Department Specific	
	Improve Operational Performance	Investigate Opportunity to reduce GHG Emissions	Utilize BNL Shuttle service to transport groups attending Tier 1 inspections and or ESR walk downs during first quarter	1.2 Evaluate and prioritize opportunities to reduce GHG. Implement at least one opportunity.	
		Reduce Legacy Chemicals	Reduce Flammable liquid inventory in Building 815 D Wing hallway from 5 flammable cabinets to 3.	5.1 Disposition at least one excess nuclear material, legacy waste; Disposition unneeded materials and chemicals (UMC) in accordance with plan.	
		Improve Work Planning and Control Process	Conduct focused Tier 1 review of a WP&C process in 1 Lab starting second quarter	Department Specific	
	Improve Communications and Awareness	Improve Communications, Awareness & participation in ES&H	Conduct Meeting of EENS Building Managers/WCC's to discuss new initiatives and improvements Improve Recycling Program by ensuring all EENS common areas have recycling containers	Department Specific	
		Improve awareness of ESH requirements of requisition process	Prepare and Present Web Req training session to EENS Administrative Staff	4.0 Improve the pollution prevention program 3.1 Train purchasers and specifiers on the requirements of the EPP program.	
	Light Source	Pollution Prevention	Establish one meaningful and cost effective proposal for pollution prevention at the NSLS and seek to secure funding for implementation	Evaluate the department waste stream and determine what significant component can be reduced by 25% or more Submit a proposal to the Laboratory pollution prevention council and seek funding for implementation	4.0 Improve the pollution prevention program 4.0 Improve the pollution prevention program
		Energy Reduction	Assure that all desk top computer monitors have Energy Star features enabled	Determine if computers in use to support beam lines can function with Energy Star features enabled	7.3 Enable ENERGY STAR® features are enabled on 100% of computer monitors.
Develop and distribute instructions and requirements for use of Energy Star features				7.0 Improve Electronics Stewardship	
Environmentally Preferable Purchasing		Assure that all electronics purchasing requests include consideration for including Energy Star or equivalent features.	Conduct a survey and report on compliance with new Energy Star requirements	7.0 Improve Electronics Stewardship	
			Develop an distribute instructions and requirements for purchase of equipment that includes Energy Star or equivalent features. Conduct a survey and report on compliance with new Energy Star requirements	3.2 Improve tools to track and report EPP purchases 7.0 Improve Electronics Stewardship	
EMS Documentation	Combine the EMS and OHSAS documentation into a single manual	Combine the EMS and OHSAS manuals into a single web based document and secure NSLS and NSLS II management approval.	8.0 Improve the ISO 14001 System		
Facilities	EMS System	Revise ESH Program to New F&O Organization	Align ESH program to match F&O reorganization	Department Specific	
	Pollution Prevention	Energy Conservation	Develop plan to improve energy efficiency (EO 13423 Sec 2 (a))	1.0 Reduce greenhouse gas (GHG) emissions in support of EO 13423. 6.0 Prepare for implementation of Executive Order 13423	
			Develop plan to use renewable energy at 7.5% of BNL's total (EO 13423 Sec. 2 (b))	1.0 Reduce greenhouse gas (GHG) emissions in support of EO 13423. 6.0 Prepare for implementation of Executive Order 13423	
			Reduce motor vehicle fleets consumption of petroleum products (EO 13423 Sec. 2 (g))	6.0 Prepare for implementation of Executive Order 13423	
			Develop an action plan for using more biobased fuel in operations	6.0 Prepare for implementation of Executive Order 13423	
Improve Integrated ESH Performance	Improve the recycling program by ensuring all meeting and large conference rooms have standardized recycling containers for paper, bottles, and cans at or near the rooms. Develop and implement corrective actions from ISM audit.	4.0 Improve the pollution prevention program Department Specific			

BNL FY08 Directorate and Division EMS Objectives and Targets

Division	Objective	Target	Action	Supports Lab EMS Objective Number or Department Specific
Operational	Improve Operational Controls	Improve Tier I Process	Develop and implement a process for tracking and report preparation - quarterly summary of Tier 1 trends.	Department Specific
		Reduce human errors that result in injuries and environmental insults	Implement HPI, Train SME's	Department Specific
		Labs 21 Training	Send Level I and II ECS employees to a Lab21 training workshop.	Department Specific
		Reduce Water Consumption	Develop and implement a plan to reduce water usage (EO 13423 Sec. 2 (c))	6.0 Prepare for implementation of Executive Order 13423
		Improve electronics stewardship	Improve the lifecycle management of electronic assets by improving understanding and collection of data on electronic assets for all three life-cycle phases-purchasing, operation & maintenance, and end-of-life management.	7.0 Improve Electronics Stewardship
		Reduction of Mercury Releases	Ensure 95% of desktop computers and monitors are EPEAT Bronze or Higher. Obtain NYSDEC approval for disposal of STP Sludge as non-radioactive waste.	7.2 Ensure 95% of desktop computers and monitors are EPEAT Bronze or higher 2.0 Continue to Reduce Mercury Releases
Environment, Safety and Health / Directors	Improve Electronics Stewardship	Ensure 95% of desktop computers and monitors are EPEAT Bronze or Higher	Check all current desktop computers and monitors to see if they are EPEAT Bronze or higher. If not, request replacement.	7.2 Ensure 95% of desktop computers and monitors are EPEAT Bronze or higher
		Ensure energy star features are enables on 100% of computer monitors.	Check all current desktop computers and monitors to see if they are EPEAT Bronze or higher. If not, request replacement.	7.3 Enable ENERGY STAR@ features are enabled on 100% of computer monitors.
		Recycle 100% of non-reusable computer units using environmentally sound recycling practices	Ensure that any non-reusable computer units are recycled using environmentally sound recycling practices	7.4 Recycle 100% of non-reusable computer units using environmentally sound recycling practices.
	Environmentally Preferable Purchasing	Train purchasers and specifiers on the requirements of the EPP program	Participate in awareness training for all credit card holders Develop an inventory of the location that SHSD controlled documents are placed in the division. Conduct training for staff who generate OSH records in SHSD	3.1 Train purchasers and specifiers on the requirements of the EPP program 8.0 Improve the ISO 14001System
	Document Control	Improve Document & record control in SHSD operations and Facilities	Conduct training for staff who generate OSH records in SHSD	8.0 Improve the ISO 14001System
	Emergency Preparedness and Response	Improve SHSD Operations in terms of OSH/EMS	Conduct at least 3 drills: AT least one covering mercury spill response (SHSD)	8.0 Improve the ISO 14001System
	Document Control	Improve the SHSD OSH/EMS Program	Expand the IH Groups EMS and OSH SOPs to Division level Procedures and qualify 100% of SE and HP Administrative Staff in EMS/OSH SHSD Programs. Prepare an SHSD Operational Environmental Evaluation for Administrative Work done in the Division. Measures such as double sided copies, copiers capable of 2-sided copying, default setting for copiers, plastic recycling, mixed waste paper recycling.	8.0 Improve the ISO 14001System
	Document Control	improve the RCD OSH/EMS Program	Develop a comprehensive inventory of controlled documents and associated review cycles	8.0 Improve the ISO 14001System
	Participate in EPA Performance Track and other Leadership programs	Prepare for implementation of EO 13423	Conduct gap analysis	6.0 Prepare for implementation of Executive Order 13423
		Mercury Challenge	Reduce non-essential Mercury by 50%	2.0 Continue to Reduce Mercury Releases
		Reduce mercury in sludge's and sediment	Identify and prioritize sources	2.2 Identify and prioritize sources of sediment/sludge containing mercury upstream on the Sewage Treatment Plant (piping systems, traps, manholes, etc.).
		Obtain regulatory approval for mercury disposal	Dispose of STP Sludge	2.0 Continue to Reduce Mercury Releases
		Track progress of P-Track goals	Submit annual report	2.0 Continue to Reduce Mercury Releases
	Improve Compliance	Participate in FEC Challenge	Achieve FEC Goals	7.0 Improve Electronics Stewardship
		Reduce number of SPDES Violation (Nitrogen) Update SPCC Plan		Department Specific Department Specific
	Groundwater Protection	Characterize the G-2 Plume	Submit Annual Cap Certification	Department Specific
		Modify Building 96 Well	Restart Well	Department Specific
		Update Daily Tailgate procedure		Department Specific
		Install BGRR Monitoring Wells		Department Specific
		Develop Conduct of Ops for LTRA		Department Specific
Complete data flagging			Department Specific	
Move files off server modify EMP for BLIP G-2			Department Specific Department Specific	

BNL FY08 Directorate and Division EMS Objectives and Targets

Division	Objective	Target	Action	Supports Lab EMS Objective Number or Department Specific
Office	Waste Management	Downgrade to Radiological facility	Submit Basis document	5.0 Continue progress with disposition of excess nuclear materials, legacy waste, unneeded materials and chemicals, and environmental projects.
		Improve customer service		Department Specific
		Transfer BMRR Ownership	Communicate with DOE	Department Specific
		Submit P2 Proposal for can popper		4.0 Improve the pollution prevention program
Environmental Restoration & PPM	The objectives and targets are the Scope of the restoration activities. Refer to the Brookhaven Environmental Management Completion Project	The objectives and targets are the Scope of the restoration activities. Refer to the Brookhaven Environmental Management Completion Project	The objectives and targets are the Scope of the restoration activities. Refer to the Brookhaven Environmental Management Completion Project	7.0 Improve Electronics Stewardship
				Department Specific