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C-A OPERATIONS PROCEDURES MANUAL

14.1 Environmental Management Program
for Collider-Accelerator Department and Superconducting Magnet Division

Text Pages 2 through 4

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
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Approved: _____
Signature on File
 Collider-Accelerator Department Chairman Date

Approved: _____
Signature on File
 Superconducting Magnet Division Head Date

M. Van Essendelft

Department-wide Program Description:

The C-AD and SMD Environmental program is set up so that the departments can achieve their environmental objectives. In doing this C-AD and SMD follow the five core functions and seven guiding principles of the Integrated Safety Management system. Work is defined in such a manner accomplish departmental goals in an environmentally sensitive manner. Environmental Hazards are identified and mitigated through the development of appropriate controls so that work can be performed and the environment protected. Most of the work performed in the tasks assigned relates directly or indirectly to the Feedback and Improvement function of the ISM. Departmental self-assessment program, Tier I inspections, and annual compliance reviews by the Environmental Compliance Representative are designed to meet the overall program requirements and to meet the Objectives and Targets and Additional Tasks that support departmental objectives. The objective to reduce greenhouse gas emissions supports BNL's participation in the EPA's Performance Track program and in compliance to Executive Order 13423. The objective to dispose unneeded materials and chemicals supports the BNL PEMP 5.3.1.2. The objective to achieve full compliance with applicable environmental requirements supports BNL PEMP 5.2.1.3. All additional tasks are designed to meet both C-A and Laboratory objectives in the support of BNL PEMP goals and in support of Executive Order 13423.

Legal and Other Requirements:

Objectives, Targets, and Additional Tasks are determined through management priorities and legal and other requirements. The following BNL SBMS subject areas embody many of the requirements used to determine objectives, targets and additional tasks:

- Drinking Water
- Storage and Transfer of Hazardous Material
- Liquid Effluents
- Hazardous Waste Management
- Radioactive Waste Management
- Pollution Prevention
- Spill Response
- Oil/PCB management

Operational Controls: See [Operational Controls Forms](#)

Budget:

Progress in accomplishing objectives, targets and additional tasks are made through the following routine and special funding:

- Operating Budget

EMS Objectives & Targets

Objective	Target	Measurable	Responsible Individual	Timeframe
Compliance:				
Achieve full compliance with applicable environmental requirements	Zero Notices of Violation from Regulators	Number of violations	M. Van Essendelft	09/30/08
	Zero Permit exceedences	Number of permit exceedences	M. Van Essendelft	09/30/08
Pollution Prevention:				
Reduce Greenhouse Gas Emissions (GHG) by 3% in support of EO 13423	Improve the RHIC cryogenic system energy-efficiency	Percent reduction in power usage	J. Tuozollo	09/30/08
	Reduce unnecessary electrical loads during summer shutdown to decrease electrical use (C-AD/SMD ROD)	Percent reduction in power usage	J.W. Glenn	09/30/08
	Shut down 924 refrigerator & freezer operations (SMD SA)	Percent reduction in power usage	T Dilgen	09/30/08
Dispose of Unneeded materials and chemicals in accordance with the UMC Plan	Achieve a 3% reduction in unneeded materials and chemicals (C-AD/SMD ROD)	Percent reduction in unneeded materials and chemicals	J. Scott	09/30/08
	Recycle un-needed metals & wire in Bldg. 926 (SMD SA)	Lbs. of metal recycled	A. Ghosh	12/10/07
	Dispose of un-needed materials in Bldg 924 refrigerator & freezer (SMD SA)	Percent reduction in unneeded materials and chemicals in 924 area	T. Dilgen/M. Van Essendelft	09/30/08
	Inventory 50% of the chemical lockers in the Magnet Division and dispose of un-needed chemicals	Number of cabinets inventoried and number of chemicals removed	M. Van Essendelft	09/30/08

Additional Tasks Which Support of EMS Objectives

Objective	Tasks	Responsible Individual	Timeframe
Pollution Prevention:			
Support the pollution prevention (P2) program	Submit a minimum of one pollution prevention project to the P2 Council	ECR	12/30/07
	Complete the removal of PCB capacitors at LINAC, B912, and B928(C-AD/SMD ROD)	C-A Environmental Coordinator	07/30/08
	Investigate the costs for PCB removal at TDVG (C-AD/SMD ROD)	ECR	09/30/08
	Reduce, where appropriate, lead solder, freon, and mercury (C-AD/SMD ROD)	ECR	09/30/08
Support thr environmentally preferable purchasing program	Train purchasers and specifiers on the requirements of the Environmentally Preferable Purchasing Program	C-A Training Manager	05/30/08
Groundwater Protection:			
Fully implement groundwater protection program. Protect groundwater quality from further chemical and radiological releases, and remediate existing contaminated groundwater	Archive data on activated soils (C-AD/SMD ROD)	C-A Associate Chair of ESHQ	09/30/08
	Cap LINAC beam stops and investigate need for a cap adjustment at J-10 (C-AD/SMD ROD)	FES Head	09/30/07