

Crosswalk between ISM 5 Core Functions, OHSAS 18001 Guidelines, ISO 14001 and BNL Standards-Based Management System (SBMS)

DOE 10 CFR Parts 850 & 851	DOE ISM 5 Core Functions	OHSAS 18001 Clauses	ISO 14001 Clauses	BNL Program Documentation		
				SBMS Program Description	BNL SBMS Management System	SBMS Subject Area(s)/Standards
850.1 Scope Subpart A 851.1 Scope and Purpose Subpart B 851.10 General requirements	1. Define the scope of the work	4.3 Planning	4.3 Planning 4.3.3 Objectives and targets 4.3.4 Environmental management program			Facility Use Agreements Documenting OSH MS Objectives/Targets and OSH Management Programs interim procedure.
		4.3.3 Objectives	4.3 Planning 4.3.3 Objectives and targets 4.3.4 Environmental management program	Project Planning, Programming and Budgeting Process ISO 14001 "Plus" Environmental Management System Manual Occupational Safety and Health (OSH) (Pilot for OHSAS 18001) Program Description	Occupational Safety and Health (OSH) (Pilot for OHSAS 18001) Management System Description SBMS Integrated Planning Integrated Assessment Program	Integrated Assessment Critical Outcomes Performance Measures Budget Submission Process Performance Goals and measures for Employees
		4.3.4 OHS management program(s)			Occupational Safety and Health (OSH) (Pilot for OHSAS 18001) Management System Description SBMS Integrated Planning	Documenting OSH Management System Objectives/Targets and OSH Management Programs interim procedure

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				SBMS Program Description	BNL SBMS Management System	SBMS Subject Area(s)/Standards System
851.21 Hazard identification and assessment. 851.22 Hazard prevention and abatement. 851.25 Training and information. 851.24 Functional Areas Appendix A – Worker Safety and Health Functional Areas	2. Identify and analyze hazards	4.3.1 Planning for hazard identification, risk assessment and risk control	4.3.1 Environmental aspects 4.3.2 Legal and other requirements	Brookhaven National Laboratory Quality Assurance Program Description Facility Authorization Basis Program Description Hazardous Materials Transportation Manual Integrated Safety Management System Program Description ISO 14001 "Plus" Environmental Management System Manual Occupational Safety and Health (OSH) (Pilot for OHSAS 18001) Program Description Occurrence Reporting Program Description Radioactive Waste Management Basis Suspect / Counterfeit Items Program Description	Occupational Safety and Health (OSH) (Pilot for OHSAS 18001) Management System Description SBMS Facility Operations Radiological Control Hazardous Material Transportation Safety Human Resources Environmental Management System Life Cycle Asset Management Training and Qualifications Work Planning and Control	ALARA Program Asbestos Change Management Checklist Interim Procedure Chemicals, Working With Confined Spaces Documenting OHS Management System Objectives/Targets Interim Engineering Design Environmental Assessments Ergonomics, Occupational Facility Hazard Categorization Facility Risk Analysis interim procedure Facility Use Agreements Guests and Visitors Hazard Analysis Identifying Environmental Aspect/Impact Job Risk Analysis interim procedure Lifting Safety Natural Hazards in the Environment Noise and Hearing Nuclear Safety Policy ODH Classification/Controls OHSAS Audit Checklist Interim Procedure Operational Readiness Evaluation PCB Management Radiological Stop Work Procedure

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				SBMS Program Description	BNL SBMS Management System	SBMS Subject Area(s)/Standards
850.4 Enforcement 851.4 Compliance Order 851.5 Enforcement 851.6 Petitions for generally applicable rulemaking 851.7 Requests for a binding interpretive ruling 851.8 Informal requests for information 851.13 Compliance 851.23 Safety and Health Standards Subpart D – 851.30 Consideration of variances 851.31 Variance process 851.32 Action of variance requests 851.33 Terms and Conditions 851.34 Requests for conferences		4.3.2 Legal and other requirements		ISO 14001 "Plus" Environmental Management System Manual Occupational Safety and Health (OSH) (Pilot for OHSAS 18001) Program Description	Occupational Safety and Health (OSH) (Pilot for OHSAS 18001) Management System Description SBMS Legal	Requirements Management Laboratory Wide Procedures and Guidelines Requesting SBMS variances Legal and other requirements interim procedure
851.11 Development and approval of the worker safety and health program 851.12 Implementation 851.21 Hazard identification and	3. Develop and implement hazard controls	4.4 Implementation and operation	4.4 Implementation and operation 4.4.6 Operational control 4.4.7 Emergency preparedness and response			

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				SBMS Program Description	BNL SBMS Management System	SBMS Subject Area(s)/Standards
assessment. 851.22 Hazard prevention and abatement. 851.25 Training and information. 851.24 Functional Areas Appendix A – Worker Safety and Health Functional Areas		4.4.6 Operational control	4.4 Implementation and operation 4.4.3 Communication 4.4.6 Operational control 4.4.7 Emergency preparedness and response	Quality Assurance Program Facility Authorization Basis Program Description Hazardous Materials Transportation Manual ISO 14001 "Plus" Environmental Management System Manual Radioactive Waste Management Basis Suspect / Counterfeit Items Program Description	Occupational Safety and Health (OSH) (Pilot for OHSAS 18001) Management System Description SBMS Work Planning and Control Acquisition Management Property Management Environmental Management System Life Cycle Asset Management Radiological Control Records Management	Work Planning and Control for Experiments and Operations Accelerator Safety Subject Area Facility Hazard Categorization Facility Use Agreements Facility Risk Analysis interim procedure Job Risk Analysis interim procedure Training and Qualifications

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				SBMS Program Description	BNL SBMS Management System	SBMS Subject Area(s)/Standards
		4.4.7 Emergency preparedness and response	4.4 Implementation and operation 4.4.6 Operational control 4.4.7 Emergency preparedness and response	Occurrence Reporting Hazardous Materials Transportation Manual ISO 14001 "Plus" Environmental Management System Manual Occurrence Reporting Program Description Occupational Safety and Health (OSH) (Pilot for OHSAS 18001) Program Description Suspect / Counterfeit Items Program Description	Occupational Safety and Health (OSH) (Pilot for OHSAS 18001) Management System Description SBMS Emergency Response Services Emergency Preparedness and Off-Normal Event Reporting Environmental Management System Integrated Assessment Program Integrated Planning ORPS Spill Response Quality Management Radiological Control	Emergency Preparedness Spill Response Investigation of Incidents, Accidents, and Injuries Critiques ORPS Stop Work - Imminent Danger

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				SBMS Program Description	BNL SBMS Management System	SBMS Subject Area(s)/Standards
851.4 Compliance Order 851.12 Implementation 851.13 Compliance 851.23 Safety and Health Standards	4. Perform work within authorization agreement	4.4.3 Consultation and communication	4.4.3 Communication 4.4.6 Operational control 4.5 Checking and corrective action 4.5.1 Performance measurement and monitoring 4.5.2 Non-conformances and corrective and preventive actions 4.5.4 Environmental management system audit 4.6 Management review	Brookhaven National Laboratory Quality Assurance Program Description Facility Authorization Basis Program Description Hazardous Materials Transportation Manual Integrated Safety Management System Program Description ISO 14001 "Plus" Environmental Management System Manual Occurrence Reporting Program Description Radioactive Waste Management Suspect / Counterfeit Items	Integrated Assessment Program Work Planning and Control Internal Communications External Communications Emergency Preparedness and Off-Normal Event Reporting Management System	Lessons Learned Work Planning & Control Correspondence and Commitment Tracking Community Involvement in the Lab Decision Making Process Internal ROD Subject Area Requirements Management Subject Area

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				SBMS Program Description	BNL SBMS Management System	SBMS Subject Area(s)/Standards
		4.4.6 Operational control	4.4 Implementation and operation 4.4.3 Communication 4.4.6 Operational control 4.4.7 Emergency preparedness and response	Quality Assurance Program Facility Authorization Basis Program Description Hazardous Materials Transportation Manual ISO 14001 "Plus" Environmental Management System Manual Radioactive Waste Management Basis Suspect / Counterfeit Items Program Description	Occupational Safety and Health (OSH) (Pilot for OHSAS 18001) Management System Description SBMS Work Planning and Control Acquisition Management Property Management Environmental Management System Life Cycle Asset Management Radiological Control Records Management	Work Planning and Control for Experiments and Operations Accelerator Safety Subject Area Facility Hazard Categorization Facility Use Agreements Facility Risk Analysis interim procedure Job Risk Analysis interim procedure Training and Qualifications

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				SBMS Program Description	BNL SBMS Management System	SBMS Subject Area(s)/Standards
Subpart E – 851.40 Investigations and inspections 851.41 Settlement 851.42 Preliminary notice of violation 851.43 Final notice of violation 851.44 Administrative appeal Appendix B – General Statement of Enforcement Policy	5. Feedback and improvement	4.4.3 Consultation and communication	4.4.3 Communication 4.4.6 Operational control 4.5 Checking and corrective action 4.5.1 Performance measurement and monitoring 4.5.2 Non-conformances and corrective and preventive actions 4.5.4 Environmental management system audit 4.6 Management review	Brookhaven National Laboratory Quality Assurance Program Description Facility Authorization Basis Program Description Hazardous Materials Transportation Manual Integrated Safety Management System Program Description ISO 14001 "Plus" Environmental Management System Manual Occurrence Reporting Program Description Radioactive Waste Management Suspect / Counterfeit Items	Integrated Assessment Program Work Planning and Control Internal Communications External Communications Emergency Preparedness and Off-Normal Event Reporting Management System	Lessons Learned Work Planning & Control Correspondence and Commitment Tracking Community Involvement in the Lab Decision Making Process Internal ROD Subject Area Requirements Management Subject Area
		4.5 Checking and corrective action	4.4.3 Communication 4.5 Checking and corrective action 4.5.1 Performance measurement and monitoring 4.5.2 Non-conformances and corrective and preventive actions 4.5.4 Environmental management system audit 4.6 Management review			

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		4.5.1 Performance measurement and monitoring	4.4.3 Communication 4.5 Checking and corrective action 4.5.1 Performance measurement and monitoring 4.5.2 Non-conformances and corrective and preventive actions 4.5.4 Environmental management system audit 4.6 Management review	Brookhaven National Laboratory Quality Assurance Program Description ISO 14001 "Plus" Environmental Management System Manual Occupational Safety and Health (OSH) (Pilot for OHSAS 18001) Program Description	Occupational Safety and Health (OSH) (Pilot for OHSAS 18001) Management System Description SBMS Human Resources Integrated Planning Life Cycle Asset Management Quality Management	Calibration Critical Outcome 1.2.0 Departmental Environment, Safety & Health Inspections Maintenance Management Performance Appraisals Performance Goals & Measures: Staff Legal and other requirements interim procedure

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		4.5.2 Accidents, incidents, nonconformance and corrective preventive action	4.4.3 Communication 4.5 Checking and corrective action 4.5.1 Performance measurement and monitoring 4.5.2 Non-conformances and corrective and preventive actions 4.5.4 Environmental management system audit 4.6 Management review	Hazardous Materials Transportation Manual ISO 14001 "Plus" Environmental Management System Manual Occurrence Reporting Program Description Occupational Safety and Health (OSH) (Pilot for OHSAS 18001) Program Description Suspect/Counterfeit Items Program Description	Occupational Safety and Health (OSH) (Pilot for OHSAS 18001) Management System Description SBMS Occupational Medicine Emergency Preparedness and Off-Normal Event Reporting Emergency Response Services Integrated Assessment Program Integrated Planning Intellectual Property Quality Management Radiological Control Work Planning and Control	Corrective and Preventive Action Investigation of Incidents, Accidents and Injuries Critiques ORPs Subject Area Facility Risk Analysis interim procedure Job Risk Analysis interim procedure Lessons Learned Nonconformance Identifying and Reporting Corrective and Preventive Action Subject Area 1.1.0 Occurrence Reporting System 1.1.1 Price-Anderson Amendments Act Compliance Validation and Noncompliance Reporting Program 1.2.1 Corrective Action Management and Tracking for External and Internal Assessments Issue & Decision Paper (I&DP) Radiological Awareness Reports Radiological Stop Work Procedure Stop Work - Imminent Danger

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		4.5.4 Audit	4.4.3 Communication 4.5 Checking and corrective action 4.5.1 Performance measurement and monitoring 4.5.2 Non-conformances and corrective and preventive actions 4.5.4 Environmental management system audit 4.6 Management review	Integrated Assessment Occupational Safety and Health (OSH) (Pilot for OHSAS 18001) Program Description	Integrated Assessment Environment, Safety and Health Inspections	OHSAS Audit Checklist Interim Procedure Integrated Assessment 1.2.0 Departmental Environment, Safety & Health Inspections
		4.6 Management review	4.4.3 Communication 4.5 Checking and corrective action 4.5.1 Performance measurement and monitoring 4.5.2 Non-conformances and corrective and preventive actions 4.5.4 Environmental management system audit 4.6 Management review	Occupational Safety and Health (OSH) (Pilot for OHSAS 18001) Program Description Integrated Assessment	Integrated Assessment	OHSAS Audit Checklist Interim Procedure Integrated Management Review interim procedure Integrated Assessment