Safety

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SAFETY

- 6a. Is there a written Hazard Analysis?
- 6c. Are any BNL requirements related to NEPA and/or Environmental Evaluation Notification Forms reviewed and approved?





Is there a written Hazard Analysis?

- A written hazard analysis has been developed for the BNL work required for HL-LHC AUP.
- Goal is to demonstrate that there is reasonable assurance that operations can be conducted in a manner that will limit risks to the health and safety of employees and the public and will adequately protect the environment.
- BNL Hazard Analysis Document identified typical hazards inherent in this type of work.
 - Material Handling
 - Mechanical Hazards
 - Electrical Hazards
 - Static Magnetic Field Hazards
 - Industrial Hygiene Hazards
 - Cryogenics and Oxygen Deficiency Hazards





Is there a written Hazard Analysis?

Hazards Identified associated with Vertical Test

- Electrical
- Material Handling
- Pressure
- Static Magnetic Fields
- Cryogen
- Noise





Risk Assessment Calculations for Risk Assessments

		Before Additional Controls				After Additional Controls										
Job Step / Task	Hazard	Control(s)	Stressor	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	1.0 Stressors	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Lift magnet and move into container using crane	Getting struck by dropped load or hitting other objects or people with load while moving.	Training; Equipment; 2-Man job	N	4	2	5	1	40								

Determine the Risk score by multiplying:

of People (a) x Frequency (B) x Severity (C) x Likelihood (D) = Risk Score

Rank the Risk Score into the appropriate risk group based on the following scale:

*Risk:	0 to 20	21 to 40	41-60	61 to 80	81 or greater		
	Negligible	Acceptable	Moderate	Substantial	Intolerable		





Are any BNL requirements related to NEPA and/or Environmental Evaluation Notification Forms reviewed and approved?

- Reviewed as required by 10 CFR1021, DOE's Rules for Implementing the National Environmental Policy Act
- The project scope falls within the types of research and collaboration that have historically been part of BNL's mission and is within the scope of the July 2012 Generic WFO/CRADA/PIQ BNL-520 categorical exclusion. In addition:
 - Utilizes existing controls and procedures
 - Continuation of existing experiment / program
 - Similar to research previously performed at BNL
 - Utilizes existing facilities/equipment
 - BNL processes & procedures exist to manage waste generation/disposal





Questions



