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|  |  **Rich Detector Clean room** **DRAFT**  |  |
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**Instructions:**

This form *must* be completed for each lift using a mobile crane, forklifts with suspended loads or a [critical lift](https://www.jlab.org/ehs/ehsmanual/Glossary.htm#CriticalLift), with an overhead crane or forklift. This form should be used for a non-routine lift with overhead cranes or incorporated into a [Temporary Operational Safety Procedure](https://www.jlab.org/ehs/ehsmanual/Glossary.htm#TOSPDef).

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| **STEP 1 – Planning the Lift** |
| **Lift Title:** | Rich Detector |
| **Location:** | EEL clean room rm 125  |
| **Lift Date (s):** |  |
| **Lift Plan Prepared by:** | Print Tilles Phone # 810-9576 Date  |
| **JLab Approved by:** | Print Tilles Phone # 810-9576 Date |
| **JLab Work Coordinator: Doug Tilles** |
|  |
| **DOE Lift Classification:** |  | **CRITICAL** |  | **PRE-ENGINEERED PRODUCTION** | **X** | **ORDINARY** |  |
| **Load Weight # 2500 lbs** | **Load Weight Determined By:*** X Equipment Manufacturers Data Plate
* Rigger Estimate
* Labeled Shipping Weight
* Dyno Measured
 |
| **Describe the Load:** |
|    |
| **Rigging Hardware Required:**List all items (size & load rating) to be used under the hook to accomplish the planned lift. |
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|  | **Material Handling Lift Plan**  |
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| **Plan View:** |
| **Show the Following:**

|  |  |
| --- | --- |
| * Load with CG labeled
 | * Underground Utilities, manholes and valve boxes
 |
| * Mobile Crane, Pivot and Outriggers
 | * Overhead Obstructions
 |
| * Outrigger ground loading
 | * Lift Perimeter Demarcation
 |
| * Distance from load CG to Crane Pivot
 | * Ground Bearing Reactions
 |

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|  | **Material Handling Lift Plan** |
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| **ELEVATION** |
| **Show the Following:*** Load with CG labeled
* BTHLD’s
* Sling Horizontal Angles
* Sling Tensions
* Label Rigging Gear, size & WLL
* Label D/d ratios
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|  | **Material Handling Lift Plan** |
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| **STEP 2 – Setup for Lift** |
| Equipment Make:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Type:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Model#:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Serial#:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Owner:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Annually Inspected By:\_\_\_\_\_Foley\_\_\_\_\_ Date:\_\_\_2017\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Monthly Wire Rope Inspection Documented: Y / N Daily Inspection Documented: Y / N |
| **Equipment Operatori**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Certification/Qualification: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_CCO No.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Expiration Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Employer:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Lead Rigger:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Certification/Qualification: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Lift Director (ASME) or PIC (DOE)ii**:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Site Supervisoriii**:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* Establishes a perimeter that clearly identifies the area of the lift.
* Ensures ALL personnel within the perimeter wears proper PPE required for the area.
* Conducts a Pre-Lift Meeting where the sequences of actions that will occur to accomplish the lift are presented.
* Attend the Pre-Lift Meeting.

**Signal Person:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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|  | **Material Handling Lift Plan** |
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| **STEP 2 – Setup for Lift** |
| **PPE Requirements:*** Hard Hat
* Safety Shoes
* Safety Glasses
 | * List any additional PPE needed to perform the lift
 |
| **Watch Personnel** (Maintains Lift Perimeters) :\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Identify a Muster Point:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Emergency Procedures (in case of injury)** |
| 1. Stop Lift2. Lower Load to a safe position3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Limits of Safe Operation (i.e. wind, rain, lighting or traffic)** |
| **STEP 3 - Lift** |
| * **Accomplish the lift according to the Lift Plan.**
* **Document minor adjustments required to accomplish the lift.**
* **Re-approval is required if Operators, equipment or rigging changes after initial approval.**
 |
| **Post Lift De-Brief** |
| What went well? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Areas of Improvement: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Documentation – Send a copy of this COMPLETED LIFT PLAN to:** |
|

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| --- | --- | --- | --- |
| Name: | **Bob Sperlazza** | **sperlazz@jlab.org** | **28G** |

 Print e-mail address Mail Stop |

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|  | **Material Handling Lift Plan**  |
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* **Rigging Hardware must be inspected and marked in accordance with the criteria contained in the following documents:**
	+ *ASME B30.9 Slings*
	+ *ASME B30.20 Below the Hook Lifting Devices*
	+ *ASME B30.26 Rigging Hardware*
	+ *29 CFR 1926.251 Rigging Equipment for Material Handling*
* **5-3.1.3 Responsibilities**

While the organizational structure of various projects may differ, the following roles are described here for purposes of delineating responsibilities. All responsibilities listed below shall be assigned in the work site organization. A single individual may perform one or more of these roles.

i **Equipment Operator:** directly controls the equipment’s functions.

ii **Lift Director:** directly oversees the work being performed by a crane and the associated rigging crew. This position equates to the **Person-In-Charge (PIC)** identified in the DOE Hoisting & Rigging Standard.

iii **Site Supervisor:** exercises supervisory control over the work site on which a crane is being used and over the work that is being performed on that site.

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| **Form Revision Summary****Revision 2.1 – 01/25/17 –** Updated TPOC from D.Kausch to B.Sperlazza**Revision 2.0 – 12/04/14 –** Form revised to create uniformity between ALL material handling equipment **Revision 1.1 – 03/22/12 –** Update to format only**Revision 1.0 – 04/12/10 –** Update to reflect current laboratory operations

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|  | **ISSUING AUTHORITY** | **FORM TECHNICAL POINT-OF-CONTACT** | **APPROVAL DATE** | **REVIEW DATE** | **REV.** |  |
|  | ESH&Q Division | Bob Sperlazza | 01/25/17 | 01/25/20 | 2.1 |  |

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