

Material Handling Lift Plan

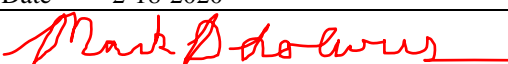
(See [ES&H Manual Chapter 6141 Appendix T4](#)
[Hoisting and Rigging Operations](#)) for Instructions

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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](#), 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](#).

STEP 1 – Planning the Lift

Lift Title:	Cryomodule Lift at North or South access building		
Location:	Building 38 & 67		
Lift Date (s):	Various times throughout the year		
Lift Plan Prepared by:	Print Frank Humphry Date 2-18-2020	Phone # 269-5291	
JLab Approved by:	 Print Mark Loewus Date August 13, 2020		

JLab Work Coordinator: **Frank Humphry**

DOE Lift Classification:	<input checked="" type="checkbox"/> CRITICAL	<input type="checkbox"/> PRE-ENGINEERED PRODUCTION	<input checked="" type="checkbox"/> X	<input type="checkbox"/> ORDINARY
Load Weight # 12,000 pounds	Load Weight Determined By: <input type="checkbox"/> Equipment Manufacturers Data Plate <input type="checkbox"/> Rigger Estimate <input type="checkbox"/> Labeled Shipping Weight xDyno Measured			

Describe the Load:

CEBAF C20 / C50 / C75 & C100 Cryomodules

Rigging Hardware Required:

List all items (size & load rating) to be used under the hook to accomplish the planned lift.

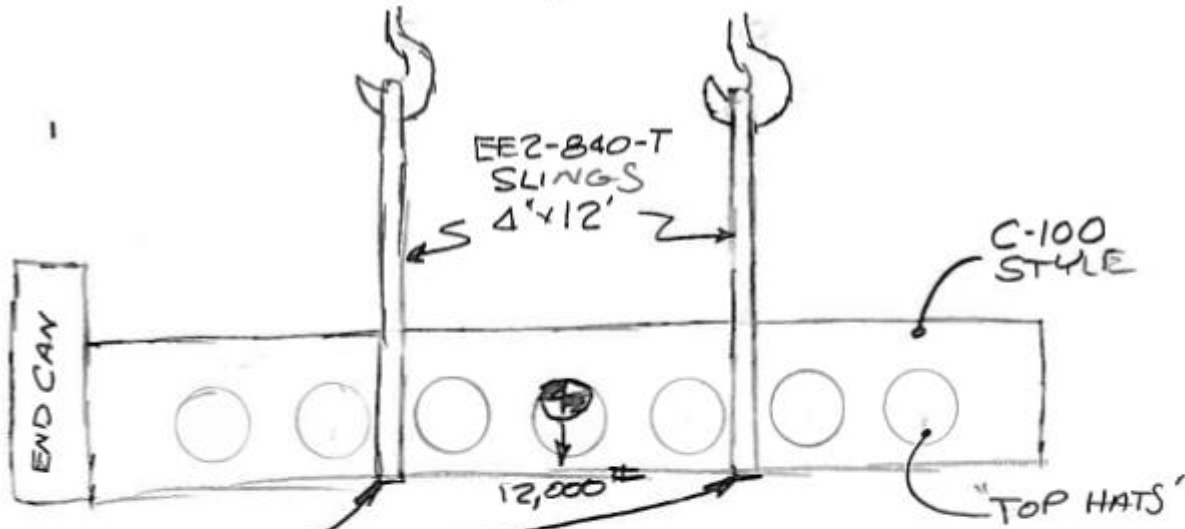
2 polyester slings.
EE2-840-T4" x 12'. Each sling is rated for 23,000 pounds in a basket configuration.

Material Handling Lift Plan

Plan View:

Show the Following:

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

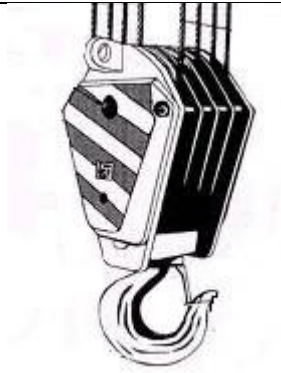


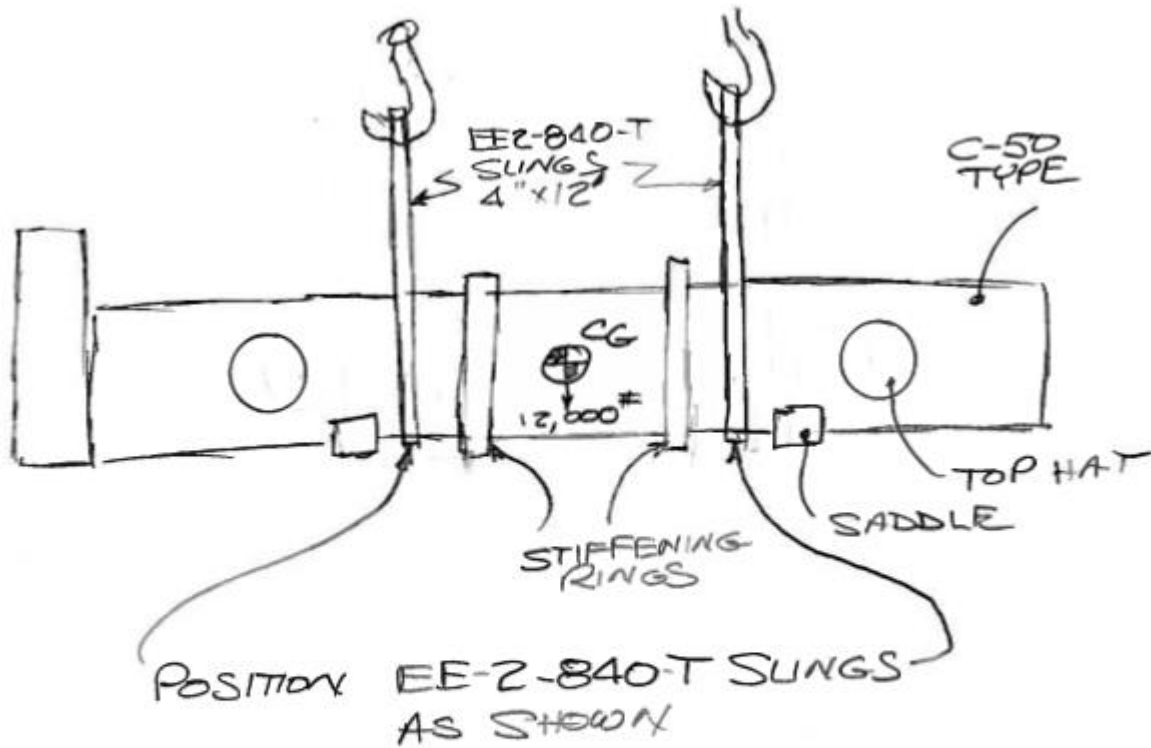
POSITION EE2-840-T SLINGS AS SHOWN

RIGGING FOR C-100 STYLE

Show the Following:

- Load with CG labeled
- BTHLD's
- Sling Horizontal Angles
- Sling Tensions
- Label Rigging Gear, size & WLL
- Label D/d ratios





RIGGING FOR C-50 STYLE

STEP 2 – Setup for Lift

Equipment Make:_____ Type:_____

Model#:_____ Serial#:_____

Owner:_____

Annually Inspected By:_____ Date:_____

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:_____

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 Lift
2. Lower Load to a safe position
3. _____

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:

Name:	Mark Loewus	Mark Loewus	28G
	Print	e-mail address	Mail Stop

- **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.

Form Revision Summary

Revision 2.2 – 01/24/18 – Updated TPOC from B.Sperlazza to M.Loewus

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

ISSUING AUTHORITY	FORM TECHNICAL POINT-OF-CONTACT	APPROVAL DATE	REVIEW DATE	REV.
ESH&Q Division	Mark Loewus	01/24/18	01/24/21	2.2

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