

# Logistics Discussion

LBNC Review

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# LBNC Logistics Discussion

- Logistics SharePoint Site
- Logistics Survey
- Update to Transport Logistics Plan

# SharePoint Logistics Database released 2/2018

- SharePoint database released early February 2018
  - The purpose of this site is to be the first step in establishing a logistics plan for special handling and the scheduling of delivery items to the Ross Shaft.
  - Information input into this database will help formulate an offsite FS logistics plan which will involve transportation and storage for all components to be brought to SURF site as well as plan for space required at potential Integration Facility and Long Term Storage facilities located in the vicinity (+/- 100 miles) of SURF Ross Shaft.
  - Cryostat, Cryogenic Systems, Detector Systems
  - “Living” database intended to be continually updated by project partners to detail expected items to be delivered for the project with specific fields for descriptions, weights, dimensions, cage transport method and special handling requirements.
  - Ability to upload documents / schematics to specific line items
  - Ability to merge excel file of data to the SharePoint site.
  - <https://fermipoint.fnal.gov/project/LBNF/Project%20Office/Logistics/layouts/15/start.aspx#/>



# FS Detector Component Logistics Database

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## FS Detector Component Logistics Database

[+ new item](#) or [edit this list](#)

✓	📎	Component Name	Component Description	Weight (kg)	Height (ft)	Length (ft)	Width (ft)	Weight (lb)	Over weight?	Too Big for Cage?	Too Big for Standard Sling?	Quantity	Center of Gravity Analysis Completed?	Transport Method	Special Fixture Required?	Special Handling Required?	Special Considerations	LBNF Comments	Accepted
		<b>Cryostat 1 - Gray Clean Room Walls</b>	Gray Clean Room Walls	0				0	no	no	no	68	Yes						Pending
		<b>Cryostat 1 - Installation Rails and Hangers</b>	Installation Rails and Hangers, Cryostat 1	0				0	no	no	no	660	Yes						Pending
		<b>Cryostat 1 - APA Shipping Box</b>	APA Shipping Box	0				0	no	no	no	150	Yes	Ross Special Sling					Pending
		<b>Cryostat 1 - Cleanins Supplies, benches, tools</b>	Cleaning Supplies, benches, tools	0				0	no	no	no		Yes	Ross Cage					Pending
		<b>Cryostat 1 Scaffolding Towers</b>	Scaffolding Towers	0				0	no	no	no		Yes						Pending

# Logistics Planning Survey Questionnaire

- In order to efficiently plan for future logistics needs, a questionnaire is being sent out to stakeholders in order to help with logistics planning.
  - Buffer Storage – Ground space at SURF Ross Shaft is limited. Deliveries will be performed in *Just in Time* manner however we understand that some **short term** surface storage area may be needed.

## Buffer Storage (continued)

- Estimate the area you will need for surface storage (in m<sup>2</sup>)
- Requirements for surface space ( Outdoor / Indoor, covered, temperature, humidity, material handling equipment etc.)
- Length of time ( short term) surface storage space would be required ( 2 – 5 days)

# Logistics Planning Survey Questionnaire

- Re-Packaging of Components
  - Components shipped to either the long term storage facility or the Integration facility in standard transport packaging / shipping containers to the vicinity of SURF Ross Shaft, may not be suitable for transport underground. Our long term storage facility and/or integration facility may be able to provide space or service for re-packaging components in materials safe for transport down to the 4850 L.
    - Would you likely use re-packaging services if offered?
    - What are some re-packaging requirements?

# Updates to SURF Logistics Assumptions

- Document updated February 2018
  - Re-titled SURF Transport Logistics Plan
  - Intended to be a “living document” as the project develops
  - Defines the role of the Far Site Logistics Manager
  - Defines stakeholder logistics requirements
  - Discuss suggested plan for SURF site
- Note that document revision is still on going and not complete.