

Guideline for Experimenters in S3 Vault

FRIB-S30206-PR-001580-R001

Issued 4 August 2023

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8/4/2023

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Revision History

Revision	Issued	Changes
R001	4 August 2023	Original issue

Authorizing Document

None.

Authorized Documents

None.

Authorized Committees and Boards

None.

Named Program Roles

None.

Awareness Training

None.

Enabling Training

None



1 Purpose

The present document provides expectations that users of the S3 Vault can have when preparing for an experiment in the S3 vault and that, reciprocally, FRIB has of users when they perform an experiment in the S3 vault.

2 Scope

This document is supplementary to the S800 Spectrograph Service Level Description that can be found at <https://frib.msu.edu/files/pdfs/S30206-RC-007221-R002.pdf>.

For any questions regarding the operations in the S3 vault or the content of this document, please contact the S3 vault coordinator (Jorge Pereira – pereira@frib.msu.edu).

3 Boundary Conditions

Although “a user of the S3 vault” refers to any participant in an experiment performed in this vault, the user who is ultimately responsible for meeting the expectations in this guideline is the spokesperson of the experiment, or a person in the collaboration designated by the spokesperson. In the latter case, the spokesperson is responsible for informing the S3 vault coordinator and the users relations manager (Jill Berryman – berrymaj@frib.msu.edu) of the person identified as the designee. The spokesperson or the designee is the point of contact for the Vault Coordinator.

4 Expectations Users can have when preparing an experiment in the S3 Vault

- The vault is clean and tools/parts are stored in the appropriate tool boxes and cabinets. All areas are cleared of any parts/components that belonged to the previous experiment.
- Flammable chemicals are stored in the chemical storage safe located at the lowest level of the vault.
- All utilities needs articulated in the Experiment Readiness Review (ERR) meetings are available.
- All space requirements articulated in the Experiment Readiness Review (ERR) meetings are available.
- Patch panels in the S3 vault providing connections through other locations in the vault and to the designated data-U area are available.
- All electronics racks, installation carts, boxes and other hardware related to the previous experiment have been removed from the vault.
- Any limitation to access (or work in) the S3 vault will be properly communicated.

5 Expectations FRIB has when users work in S3 Vaut

- Users have proper training to access the area.
- Any required modification of S3 vault (as required to accomodate the experimental needs) is requested (by email) to S3 vault coordinator.
- Any required modification of the standard S800 configuration (described in the service level description) is communicated (preferably by email) to the S800 main instrument scientist and informed during ERR.



- All safety rules articulated in the trainings needed to grant access to S3 vault are duly followed.
- Use and storage of radioactive sources in S3 vault must comply with FRIB rules.
- Users keep the work area clean.

6 Expectations FRIB has when users leave the S3 Vault upon completion of their experiment

- The member of the collaboration responsible for the radioactive sources used in the experiment is responsible for returning all sources to the FRIB Safety Office
- Users shall return, store, or properly dispose of all chemicals brought into the vault during the experiment.
- Users shall return all parts borrowed and taken from FRIB lab and notify the responsible persons.
- Users shall notify the vault coordinator of problems encountered with the systems covered in this document.
- Users shall contact the vault coordinator when they are finished with the experiment and the clean-up. The vault coordinator may request for additional actions if the appropriate conditions of the vault have not been restored.

