

NLCTA Experimental Hall PPS Interlock Checklist

This PPS Interlock Checklist is used to verify the proper operation of the key banks, door microswitches, and emergency off buttons associated with the Experimental Hall PPS Accelerator Enclosure (henceforth referred to as “the enclosure”). This checklist is designed to be done in conjunction with a search of the enclosure.

This check shall be completed at the end of any period of Permitted Access, or when an area has been in Controlled Access for more than seven days, except as follows:

- The Engineering Operator in Charge (EOIC) may elect to not complete a check if s/he is certain that the activities performed have not compromised any PPS interlock items.

Other procedures, such as those for testing electrical hazards, may require completing this PPS Interlock Check.

Applicability

The PPS Interlock Checklist shall be performed by a qualified NLCTA OIC at the PPS console and an operator in the enclosure.

Prerequisite Actions

The operator in the PPS area needs the “Experimental Hall Search Reset Key.” The operator and the PPS console operator each need a copy of the checklist. Note: a copy of the checklist is posted on the PPS console, and one is attached to the search reset key.

Interlock Checks

The operator in the enclosure, with the support of the PPS console operator, shall complete the steps outlined in the PPS Interlock Checklist in the order listed.

Failure to complete all steps renders the PPS system insecure. This should be noted in the PPS Log and in the Operations Log.

Following successful completion of the checklist, the operator in the enclosure shall initial the PPS Log in the Interlock Check location and verify that s/he has been identified as a Search Team member.

Exp Hall PPS Interlock Checklist

PPS Entry:

- Amber radiation light is lit
- "Controlled Access" indicator lit
- Keybank
 - "Complete" lamp lit
 - All keys secure and will not release
 - Remove with Keybank release
 - "Not Complete" lamp lit
 - Remaining keys are secure
 - Take entry key
- Outer door
 - Door will not open without release
 - Open door using entry key
 - Test door microswitches (top of doorway):
 - in/in - in/out - in/in - out/in - in/in
 - Switch status verified with PPS operator
- Test Emergency Exit
- Close door
- Test Emergency Entry

Inner gate:

- Test door microswitches

Emergency Off:

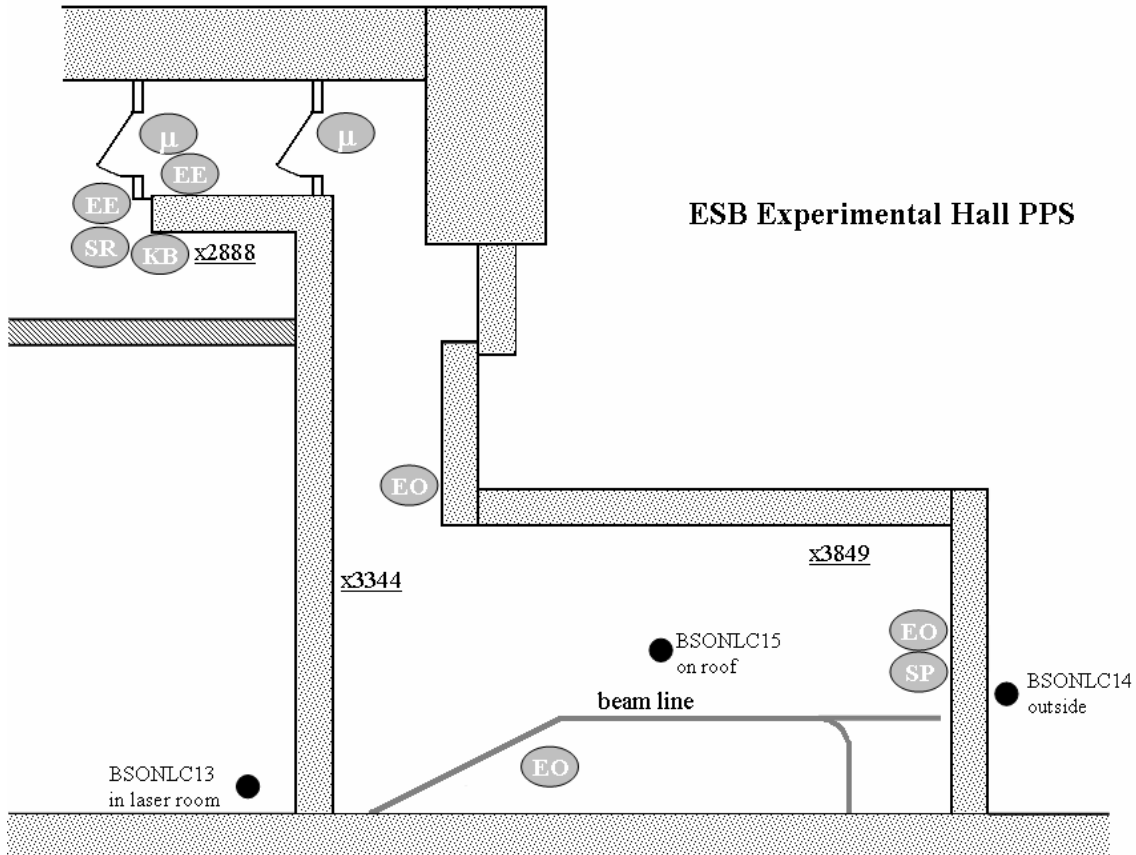
- Test all three Emergency Off buttons
- Press button
- Verify "Trip" and "Reset" with operator

Search Presets:

- Activate "Preset #1"
- Search
- Close gate
- Exit enclosure, return entry key
- Activate "Search Reset"

Return to Control Room, PPS Console:

- Verify "search team" column checked
- Initial "Interlock Check"



Approval

_____	_____
NLCTA Operations Manager	Date
_____	_____
NLCTA Safety Officer	Date
_____	_____
Accelerator Department Safety Office	Date