WORK INSTRUCTIONS FOR COVID-19 CONDITIONS

**HALL B SUPERCONDUCTING MAGNETS**

**INSTRUCTIONS FOR CARRYING OUT MAGNET PRE-CHECKS UNDER COVID-19 CONDITIONS**

V2.00 – 05.26.2020

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**Groups**: Magnet Team / Detector Support Group

**Revision History**

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| 2.00 | Updated to remove use of N95 respirators | R. Fair | 05.26.2020 |
| 1.00 | Initial release | R. Fair | 05.25.2020 |

# **INTRODUCTION**

These work instructions provide strict rules that must be adhered to while carrying out the pre-checks on the Hall B superconducting torus and solenoid magnets prior to energizing the magnets.

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|  |  |  | **Additional Information** |
| 1 | **Work Locations** | Hall B Counting House, Hall B Experimental Hall | Refer to ‘*Resumption of Operations Plan – Experimental Nuclear Physics*’ [1] for further information. |
| 2 | **Estimate of total task duration** | 5 days | Day shift, 3 breaks per shift (mid-morning, lunch, mid-afternoon) |
| 3 | **Staff** | Probir Ghoshal, Tyler Lemon, Pablo Campero | Ruben Fair and Nick Sandoval may assist remotely. Scott Spiegel may be called upon to assist in person if required. |
| 4 | **PPE Required** | Cloth mask, Nitrile gloves | Discard nitrile gloves after single use – do not re-use. |
| 5 | **Physical distance** | 6 feet required between individuals at all times | Refer to ‘*Resumption of Operations Plan – Experimental Nuclear Physics*’ [1] for further information. |

# **WORK INSTRUCTIONS**

The work involves carrying out checks on electronics and other sub-systems within the experimental hall, primarily on the space frame and checking-off items as each test is completed.

Two staff members are required to carry out these checks in the hall with one staff member remaining in the counting house to supervise the checks by monitoring EPICS screens, and to keep the paper-work in order.

**Working in the Counting House**

The staff members must wear their cloth masks, even if they are 6 feet apart. They should also wear nitrile gloves when working.

The counting house will have a maximum occupancy of 3 people at any one given time – with 6 feet physical spacing between individuals [1].

General Details

Hall B’s Counting House space consists of two distinct spaces; the counting room and the machine enclosure (also known as the electronics rack area). The counting room is 593 sq. ft. and can accommodate 3 people. Note that the placement of staff shown in the diagram is only one possible implementation. If other configurations are used, the occupants must ensure that they are maintaining a 6 ft. distance. Also, please note the section on traversal below.

The machine enclosure technically has space for 2 occupants. The space does not lend itself to seating, however to individuals may work on equipment concurrently in the room, if they remain on opposite ends of the enclosure.

Traversal

Moving in and out of the room may require an individual to pass within 6 ft. of someone else. If this is unavoidable and a 6 ft. distance cannot be maintained when passing, individuals should turn their faces away from one another and pass as quickly as possible.



**Working in the Experimental Hall**

The staff members must wear their cloth masks, even if they are 6 feet apart. They should also wear nitrile gloves when working.

The work involves changing settings on electronics equipment and noting the response either on the electronics equipment itself or on an EPICS or PLC control screen.

One individual should carry out the changes to the electronics while the other individual should monitor changes on the relevant screens and annotate the paper check sheets, while maintaining a physical distance of 6 feet at all times.

# References

1. *Resumption of Operations Plan – Experimental Nuclear Physics*

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