

Hall D Governance Electronics & Electrical Equipment

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The Hall D complex, consisting of Hall D and the Hall D Tagger buildings, is now under the operations phase. In order to maintain the highest level of support, management and performance, it is imperative that all conventions, standards and guidelines which were developed and deployed during the construction phase be strictly adhered to. As such, all Hall D users (JLab staff, members of collaborating institutions and students) must follow these governing rules with regards to any electronics and/or electrical equipment:

1. **Approval**: Installation, Modification, Upgrading of any electronics and/or electrical equipment needs my approval, inclusive of any modules, cables, racks, etc. The following must be provided well in advance of any Installation, Modification, Upgrading:
 - a. **WHAT** (and Why) – brief description of intended work
 - b. **WHERE** – anticipated location for Installation, Modification, Upgrading
 - c. **WHEN** – schedule for intended work
 - d. **WHO** – contact person and other personnel involved
2. **Authorized Personnel**: Only a few people are authorized to perform Installation, Modification and Upgrading tasks in the Hall D complex. As the list of authorized personnel may change, please contact me if a request or clarification is sought.
3. **Leaders of collaborating institutions and sub-system owners at JLab**: is is your responsibility to ensure that all personnel involved adhere to these rules.
4. **Safety** will be actively enforced. All authorized personnel require SAF603A training as a minimum requirement.
5. All **Conventions, Standards and Guidelines** will be actively enforced.
6. **Involvement**: involve me early in the process of Installation, Modification and Upgrading. I will want to talk to subcontractors, if applicable.
7. **Plan in Advance**: consider the following when planning Installation, Modification and Upgrading:

- a. Small design/procurement projects < 6 months
- b. Large procurements ~ 1 year
- c. Large design/installation/procurement projects > 2 years

NOTE: Approval for Installation, Modification, Upgrading requests should be sent to me via email (barbosa@jlab.org).

Conventions, Standards, Guidelines

A number of conventions, standards and guidelines were developed and adopted during the R&D and construction phases while considering safety, performance and effective operations:

1. Detector Naming
2. Cable & Channel Labeling and Assignment
3. Fire code for Cables – NEC 2011 NFPA 70, UL CL2 or better
4. Cable Routing – NECA/NEMA 105-2007
5. EMI – FCC Part 15, CISPR 22, Class B
6. Grounding, High Voltage, Low Voltage Distribution
7. Installed Hardware information is maintained in logs and tracked in JInventory.

All pertinent documentation is available on the GlueX Wiki and/or Portal.