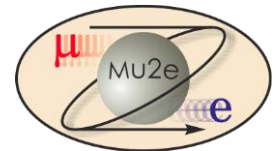




Requirements and Interfaces

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Communications

- Face to face discussions with stakeholders was the primary tool used to establish requirements and interfaces.
- These face to face interactions were held in various meetings, with both large and small groups.
- The design is a direct result of these communications.
 - Weekly Conventional Construction Meetings
 - Every other week integration meetings.
 - Weekly Tech Board meetings
 - Project Management Group meetings
- The requirements and interfaces are documented and approved.
- For convention construction items approval is commonly at the L2 Manager level, but can be with any stakeholders.

Requirements

- Requirements are in approved DocDb [1088](#)
- Requirements are organized geographically.
- Document has been reviewed and signed-off by L2 subproject managers and approved by L1 managers.

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Interface Document

- The CF Interface document is posted in DocDB [1537](#)
- There are two internal interfaces to conventional disciplines.
- There are forty interfaces with stakeholders external to conventional construction, normally the L2 manager accept/approve the agreement.
- Where possible, drawings are used to show the interface requirements.
- Approvals are at the interface level between the effected stakeholders.

- In addition to the mu2e interface document there is also an Muon Campus Interface document

Example: Magnetic Fields

- A somewhat unusual requirement for Mu2e is a strong magnetic stray field developed by the solenoids. This field is calculated at 600 gauss 5 feet from solenoid and 5 gauss at the extremes of the building.
 - The impacts of this magnetic field on the structure, motors, lighting, sprinkler heads and many other systems was discussed relative both to the requirement and interface discussions.
 - The locations of potentially affected equipment such as the elevator, HVAC equipment and DAQ lead to the final arrangement of spaces.