



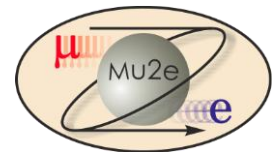
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# Mu2e DOE Review Construction Coordination

Ron Foutch P.E.

Construction Coordinator / Civil Engineer

10/22/2014



# Construction Coordination

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- **Construction Coordinator (FCC) - Tim Trout**

Tim's resume:

- \* B.A. in Geology
  - 30 + years experience overseeing and managing heavy industrial / commercial construction projects.
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- The Fermilab FCC is the primary point of contact with the Subcontractor on a daily basis. He is the Fermi Competent Person as defined by OSHA.
  - The Fermilab FCC is a Fermilab person specifically assigned to oversee the work of a project for conformance to the subcontract requirements.
  - The Fermilab FCC is the only person allowed to authorize field directives to the subcontractor with the exception of the Fermilab Procurement Officer. Supplemental agreements are issued by the Fermi Procurement Officer to incorporate the field directive into the contract.

# Construction Coordination

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- **Preconstruction Meeting:**
  - **Checklist Items:**
    - Introduction of the Project Team
      - Roles and Responsibilities of each Project Team member
    - ES& H Items:
      - Integrated Safety Management (ISM)
      - Subcontractor ES&H Plan (Safety Plan)
      - Soil Erosion and Control Plan (SWPPP)
      - Project Hazard Analysis (H.A.)
      - Fermilab Emergency Procedures
      - Accident Reporting Requirements
      - Employee Safety Training:
      - Project Safety Inspections : DOE & Lab
      - Construction Permits:
      - Radiological or Controlled Areas
      - Security Issues

# Construction Coordination

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- Quality Control Items:
  - Project Quality Control Plan (PQC)
  - Material Submittals Management
  - Quality Control Services – Testing and Inspection
  - Subcontractor Quality Control Manager implements PQC by implementing:
    - Preparatory Phase
    - Initial Phase
    - Follow-up Phase
  
- Brief Review of Addendum A and Exhibit A
  - Scope of Work
  - Items Affecting the Work Planning
  - Materials and Services Furnished by Fermilab
  - Construction Schedule – Cost Loaded – Milestone Definitions
  - Issuance of Notice to Proceed (N.T.P.)

# Construction Coordination

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- Weekly Construction Meeting:
  - Weekly Meeting Agenda
    - Project Status
      - Percentage of Completion
      - Achievements of each Pacing Milestone
    - Safety Issues
      - Safety Performance
        - OSHA Recordable accidents
        - Total Worker Hours
      - Environmental Concerns
        - Erosion Control Report
      - DOE / Lab ESH&Q Inspections
        - Findings
        - Recommendations
        - Noteworthy Practices
      - Quality Control Reports

# Construction Coordination

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## Weekly Construction Meeting:

- Present Status
- Activity / Construction Planned
  - Two week look ahead schedule reviewed
- Shutdown Interfaces and / or Work in Sensitive areas
  - Utility outages
  - Road closings, Working in occupied areas & etc.
- Problem Area / Changes / QA topics
- Request for Information (RFI) Issues
- Deficiency List

# Construction Coordination

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- **Status updates**

- Construction Coordinator verifies subcontractor's stated progress on a monthly basis.
- Measuring against the subcontractors schedule of values, the earned value is assembled.

- **Construction Close Out:**

- Beneficial Occupancy
- Punch List
- Final Acceptance