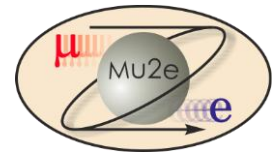




---

# Procurement and EVMS

T. Lackowski  
L2 Manager  
10/22/2014



# Mu2e Conventional Facilities

---

- Obtain competitively pricing, via a Request for Proposal, Fixed-Price Construction Sub-Contract
  - “Design-Bid-Build” Approach, RFP included the Mu2e Conventional Facilities and MC Beamline Enclosure
  - Available to both small and large business
  - Sub-Contractor selection based on technical evaluation and price. (Weighted 60% technical, 40% price)
    - Evaluation Team composed of Mu2e Project Manager, GPP Project Director, ESH&Q, Procurement Officer, Mu2e L2/GPP PM.
    - Technical Evaluation Parameters
      - Project Management capabilities and experience,
      - Experience in similar type structures,
      - Quality and Safety Plans,
      - Support of Small Business.
      - Acceptability of Technical Clarifications and Assumptions

# Delivery Ring Upgrade

---

- Delivery Ring Upgrade will be issued as a Request for Proposals, Fixed-Price Construction Sub-Contract
  - This project scope is to install a second breaker to the primary transformer at AP-30, extend secondary's to a new 1200 Amp panel inside the AP-30 building.
- “Design-Bid-Build” Approach
- Small business set a side
- Evaluation based on price and ES&H
- Schedule
  - Start is constrained by the energizing of the electrical feeder loop from AP-10 to Mu2e to MC-1 prior to locking out power to the AP-30 primary transformer
  - Start Mid July 2016, 90 day duration

# Procured Items

---

- Competitive Request for Proposals, Fixed-Price procurement Sub-contracts
- Small business set a side
- Schedule
  - Cranes, electrical components, absorber steel fabrication in early FY15
  - FIRUS, Building Controls (communication cables), Security system in FY16
  - Shielding Blocks, T&M Fencing in FY18
  - T&M Extinction Carrier Pipe FY19

# Procurement Officers

---

- Project Dedicated Procurement Specialist (Steve Gaugel)
  - Member of the Core Management Team.
  - Communication link to Procurement Department.
- Sandra Efstathiou, experienced in conventional construction, will be the procurement officer for our fixed price contracts.
  - Develops Contract Requirement (i.e. Terms & Conditions)
  - Acquires DOE Contract Approval.
  - Issues all contractual supplemental agreements.
- Procurement labor hours included in BOE's as Uncosted.

# Exhibit A

---

## Fermilab Procurement Administrator

- The Procurement Administrator is a Fermilab person specifically assigned to the project and is responsible for negotiation and administration of the subcontract terms and conditions. All modifications to the subcontract shall come from the Procurement Administrator or designee, in writing. The Procurement Administrator or designee is the sole entity that can modify the subcontract or initiate change orders.

# Mu2e Conventional Facilities

---

- Contract awarded, phase funded, with limitation of funds clause. NTP #1 allows for the start of the MC Beamline Enclosure. (The beamline is schedule critical to the g-2 experiment for the portion of enclosure to MC-1 building.)
  - “Presently only partial funds and authority are available for this subcontract. It will be funded in three (3) phases, corresponding to NTP #1, NTP #2 and NTP #3. The Mu2e Conventional Facilities is a portion of a major congressional line item and will be authorized by NTP #2. The authority to obligate these construction funds is expected on or about mid- January, 2015. After receipt of this authorization, Fermilab plans to authorize and fund this work scope into the subcontract by issuing NTP #2. The majority of the funding of the subcontract will be authorized by NTP #2. In Phase III, the remainder of the funding will be released via NTP #3, which is expected near the end of October, 2015.”
- NTP #3 is needed to help alleviate some of FY15 funds crunch.

# Cost Loaded Schedule

---

- The subcontractor is required to submit a cost loaded schedule using Primavera P6.
  - The schedule shall be organized using the work scope associated with each NTP as the top level of the WBS and organized by the 16 CSI divisions as the next level of the WBS.
  - Costs are to be applied to the activities and rolled up to the WBS level.
  - The schedule shall include the subcontract milestones. The NTP, and Beneficial Occupancy milestones shall be the only project constraints. Milestones 1 through 10 shall be driven by the logical relationships between activities.
  - Activity durations should be elaborated so that the activity duration is restricted to between five (5) and twenty (20) working days.



# Additional Schedule Requirements

---

- The Subcontractor shall submit with all progress payment requests a Schedule Performance Index (SPI), computed by dividing the Budgeted Cost of work planned by the actual cost of work performed. This shall be calculated and submitted separately for each scope of work funded under a distinct NTP.
  - A recovery schedule is required within ten (10) work days of a progress payment when the SPI is less than .95 at the CSI division WBS level.
  - A written explanation is required within ten (10) work days of a progress payment when the SPI is less than .95 at the CSI division WBS level that explains the causes for the schedule variance.

# Additional Schedule Requirements

---

- In addition to the requirements in Exhibit A Section 5.4 (Weekly Progress Meetings) the subcontractor shall provide a two week look ahead schedule indicating the following:
  - Scheduled work activities to be started, in progress or completed in the succeeding two weeks.
  - Status of material submittals.
  - Status of RFI's.
  - Activities requiring the services or materials provided by Fermilab including permits, survey quality assurance checks, delivery or pick-up of Fermilab supplied materials.”

# EVMS Mechanics

---

- Via Change Control we will replace the current planning package with the budgeted cost of work planned based the subcontractors cost loaded schedule.
  - Monthly updates on the construction progress will occur at the end of each month. The agreed upon earned dollar amount accrued to the schedule.
    - Invoices will follow via the established Fermilab procedures.
- The contract Milestones will be maintained in the schedule and monitored to track the progress of the work.