



Skinner Electrical Building & Ground Fault Protection Upgrades; Temporary Skilled Labor Agreement

Engineering and Operations Committee

Item 8-2

December 7, 2009

Current Action

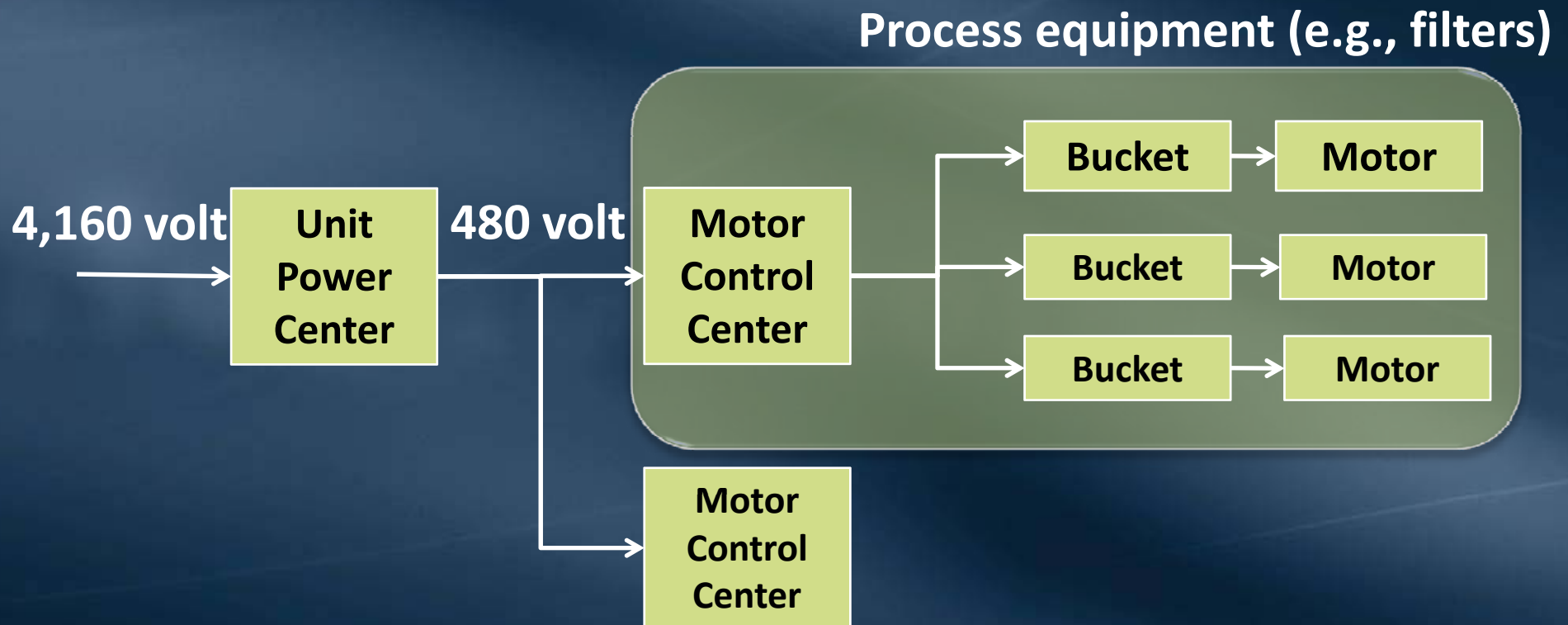
- Appropriate \$7.56 million in budgeted funds
- Authorize Metropolitan force construction of:
 - Skinner Electrical Building Upgrades &
 - Skinner Ground Fault Protection Upgrades
- Authorize temporary skilled labor agreement with Premier Personnel Resources

Metropolitan Treatment Plants



Background

- Older electrical equipment supports most of Skinner plant capacity (520 of 630 MGD)
- Aging infrastructure at increased risk of failure & lacks modern protective features



Skinner Plant – Project Locations



Ground Fault Protection Upgrade

- Scope
 - Install high resistance ground fault protection systems
 - Prepare as-builts



Unit Power Center

Electrical Building Upgrade

● Scope

- Create as-is diagrams
- Prepare material specs & procure equipment
- Isolate minimum possible segment
- Remove existing components
- Build, install, wire, inspect & test buckets
- Replace or rehabilitate transformers
- Prepare as-builts



Motor Control Center

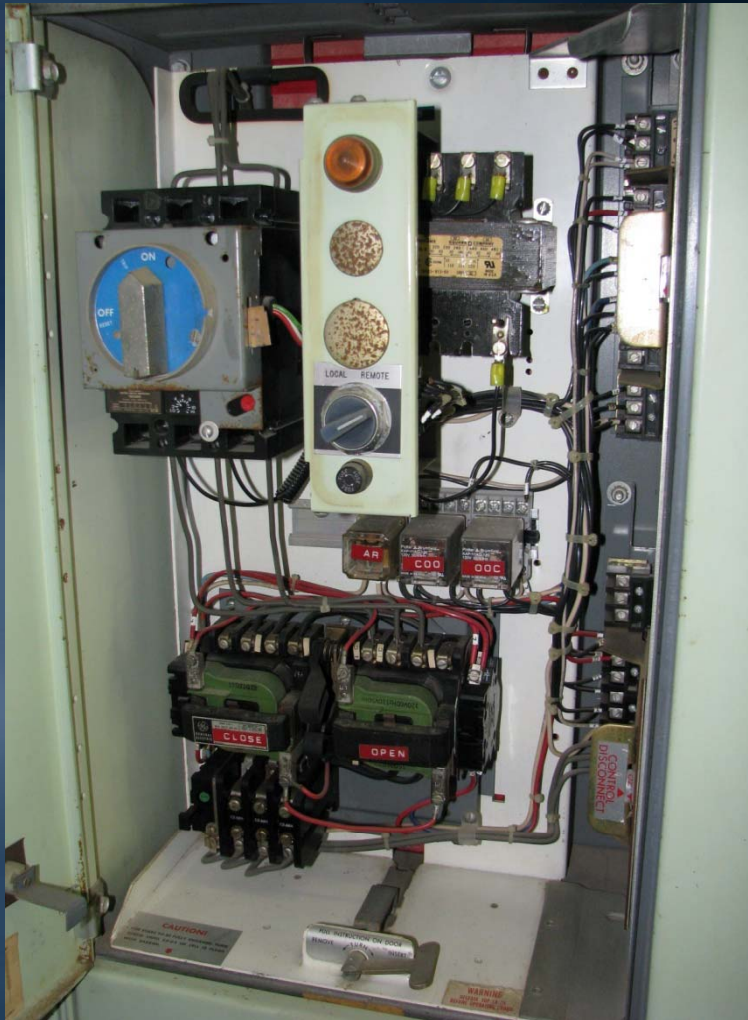
Construction Using Metropolitan Forces

- Project constraints make use of Metropolitan forces beneficial
 - Substantial additional work to develop biddable specification
 - Flexibility needed to adjust timing & breadth of equipment outages
 - Flexibility needed to maintain short return-to-service times
 - Risk of contractor change order or delay claims

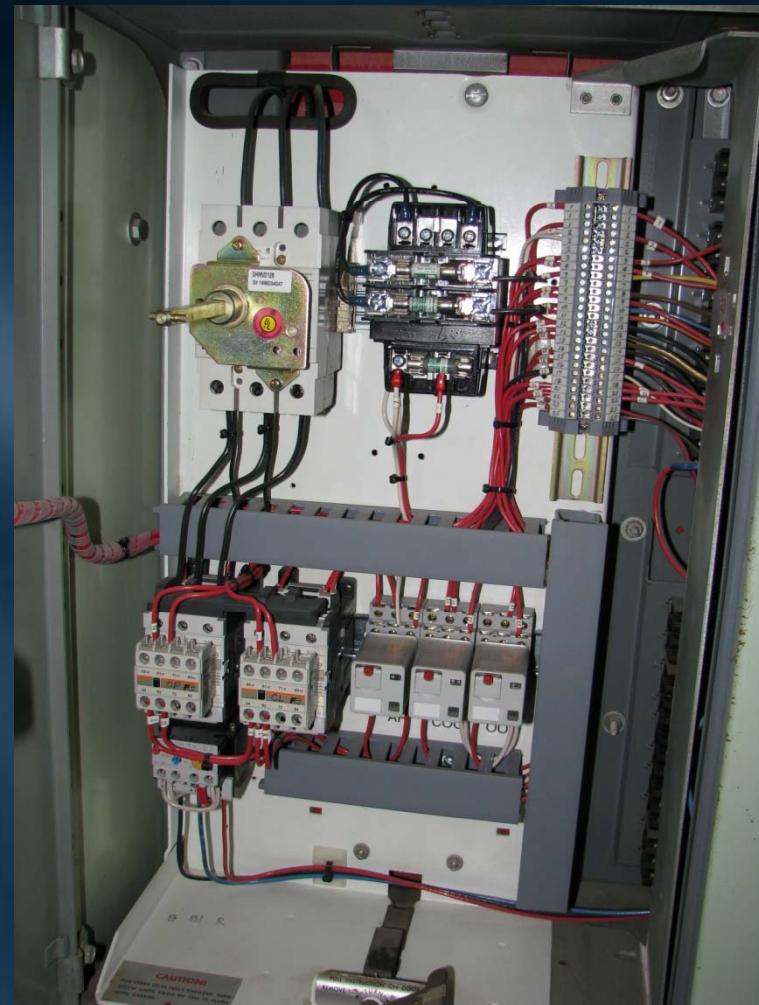


Original Bucket

Metropolitan Forces Completed Pilot Project



Original Bucket



Upgraded Bucket

New Supplemental Labor Agreement

- Augmenting Metropolitan force construction
 - Skinner plant electricians & apprentices will perform construction
 - Plant involvement still allows routine preventive & corrective maintenance
 - Skilled electricians from temporary labor agency will work under direction of Metropolitan lead electrician
- New agreement with Premier Personnel Resources
 - Pre-qualified by RFP 190168A
 - Small Business Enterprise
 - NTE (Not-to-exceed) \$900,000 (over 4 years)

Requested Funds

Owner costs	\$ 164,000
Submittals review	170,000
Construction & Inspection support	488,000
Metropolitan force construction labor	1,197,000
Materials & Supplies	3,619,000
Incidental expenses	20,000
Temporary skilled labor (Premier)	900,000
Equipment use	20,000
Remaining budget	982,000
Total	\$ 7,560,000

Skinner Construction Schedule



Board Action



Construction



Complete Construction

Board Options

- Option # 1
 - Adopt the CEQA determination
 - Appropriate \$7.56 million in budgeted funds
 - Authorize construction of
 - Skinner Electrical Building Upgrades &
 - Skinner Ground Fault Protection Upgrades
by Metropolitan forces
 - Authorize agreement with Premier Personnel in an amount NTE \$900,000 for temporary skilled labor

Board Options

- Option # 2
 - Adopt the CEQA determination
 - Direct staff to advertise the Skinner Electrical Building Upgrades & Ground Fault Protection Upgrades work for competitive bidding by contractors
- Option # 3
 - Do not proceed at this time

Staff Recommendation

- Option # 1

