

**Work Plan No A.08-01 MOCC Project Systems Integration and Design Support
During Construction**

Scope:

The scope of services is expected to include coordination of activities for both District Furnished Equipment (DFE) and Contractor activities, including but not limited to the following:

Project Management

1. Manage Project Tasks, Coordinate Technical Meetings, and Submittal reviews
 - Coordinate Technical Meetings
 - Schedule and Status updates
 - Site surveys as required
2. Support systems procurement
 - Support systems procurement for District Furnished Equipment (DFE) and Contractor procured items and first article inspections
 - Develop and modify specifications for system procurement for DFE and Contractor procured items

Procurement of District Furnished Equipment

3. Systems Installation and DFE Procurement Plans
 - System Installation Plan [Submittal]
 - Support BART / Others procuring early/long lead equipment
 - Support BART / Others procuring other equipment
4. Systems Installation & Procurement Support - BART DFE
 - Interface & Integration Plan
 - Verification and validation plan for all systems of interest
 - Activities, initiatives and resources needed
 - Develop KPIs
 - Monitor Progress
5. Provide support to BART Maintenance Forces during BART performed installations

Systems Integration

6. Cutover & Commissioning Strategies, Plans and Procedures
 - Support BART during TOCC migration to MOCC – planning, strategy, implementation
 - Cutover strategies for moving from TOCC to MOCC
 - Cutover Plan [Submittal]
 - Cutover Procedures [Submittal]
 - MOCC & Computer Room Systems Installation Plan
 - Updates to Concepts of Operations [Submittal]

7. Systems Testing & Commissioning Support - BART DFE
 - Systems Test Procedures: [Submittal]
 - Systems Integration Testing Procedures [Submittal]
 - Systems Commissioning Procedures [Submittal]
 - Test Results Management
8. Training Support on Contractor & BART DFE
 - Prepare training plan for new system elements / configurations
 - Develop Train the Trainer Program including materials

Systems DSDC and Contractor Procurement Support

9. Systems Design Support During Construction (DSDC) for the MOCC Project
 - Coordination with MOCC Infrastructure Designer
 - Contractor Submittal reviews
 - RFI Responses
 - Design Modifications
 - Change Notice and Change Order support to the CM Team
10. Systems Installation & Procurement Support - Contractor
 - Change Orders, Cost Estimate & Negotiations Support
 - Review Cutsheets, Product data, Factory Tests including Test Plans, Procedures and Reports.
 - Installation Coordination and Oversight

Systems Testing and Commissioning

11. Systems Testing & Commissioning Support for DFE and Contractor Procured Items
 - Review submittals, witness and oversight testing

Training, Documentation and Closeout

1. Training Support on Contractor & DFE
 - Prepare training plan for new system elements / configurations
 - Develop Train the Trainer Program including materials
2. Documentation/Closeout – Contractor
 - Coordination with MOCC Infrastructure Designer
 - Coordination with MOCC Contractor
 - MOCC Contractor Record Drawing Support [Submittal]
 - Review of O&M manuals
3. Documentation Closeout – DFE
 - System Configuration Documentation Support [Submittal]
 - Systems As-Built Drawings [Submittal]
 - Develop O&M Manuals
4. Provide QA/QC for all deliverables in compliance with the approved quality management plan
5. Other technical support as directed

Prime: TYLin-TSE JV

Subconsultant	Amount
Colmena	\$ 53,324

Total Work Plan Value: \$ 383,159