



Two-Way Radio: Clear Channel Licenses Acquisition

Engineering & Operations Committee
Item 7-3
October 11, 2010

Current Action

- Adopt the CEQA determination
- Appropriate \$900,000 in budgeted funds
- Authorize an agreement for acquisition of three clear channel licenses for an amount not to exceed \$875,000

Need for a Two-Way Radio System

- Reliable communications is critical to a coordinated, effective emergency response
- Two-way radio systems have a proven record of reliability
 - Relied upon by life/safety organizations and utilities for intra-agency communications
 - Critical communications link during disasters/emergencies
 - Other alternatives are less reliable and may be more expensive

Need for a Two-Way Radio Syst (con't)

- Reliable communication is critical to on-site operations of facilities
- Facilitates routine operations including shutdowns, pipeline patrols and security
- Current system was based on local needs and developed over 20 years
- Existing radio system has coverage limitations

Clear Channel Acquisition

- Proposed acquisitions will leverage existing infrastructure
- Expanded coverage area with clear channel capacity
- Facilitates a regional communication system that is Federal Communications Commission (FCC) 2013 compliant

Two – Way Radio System



2-Way Radio Regional Coverage



Project Conducted in 3 Phases

- Phase 1- Scoping Investigations and Conceptual Design (Consultant Study and Findings)
 - Documented user requirements
 - Conducted communications alternative analysis
 - Conducted UHF versus VHF system assessment
 - Study alternative options
 - Cell Phones
 - Satellite Phones
 - Upgrade 2-Way Radio
 - Evaluated FCC licenses
 - Inventory all existing FCC licenses

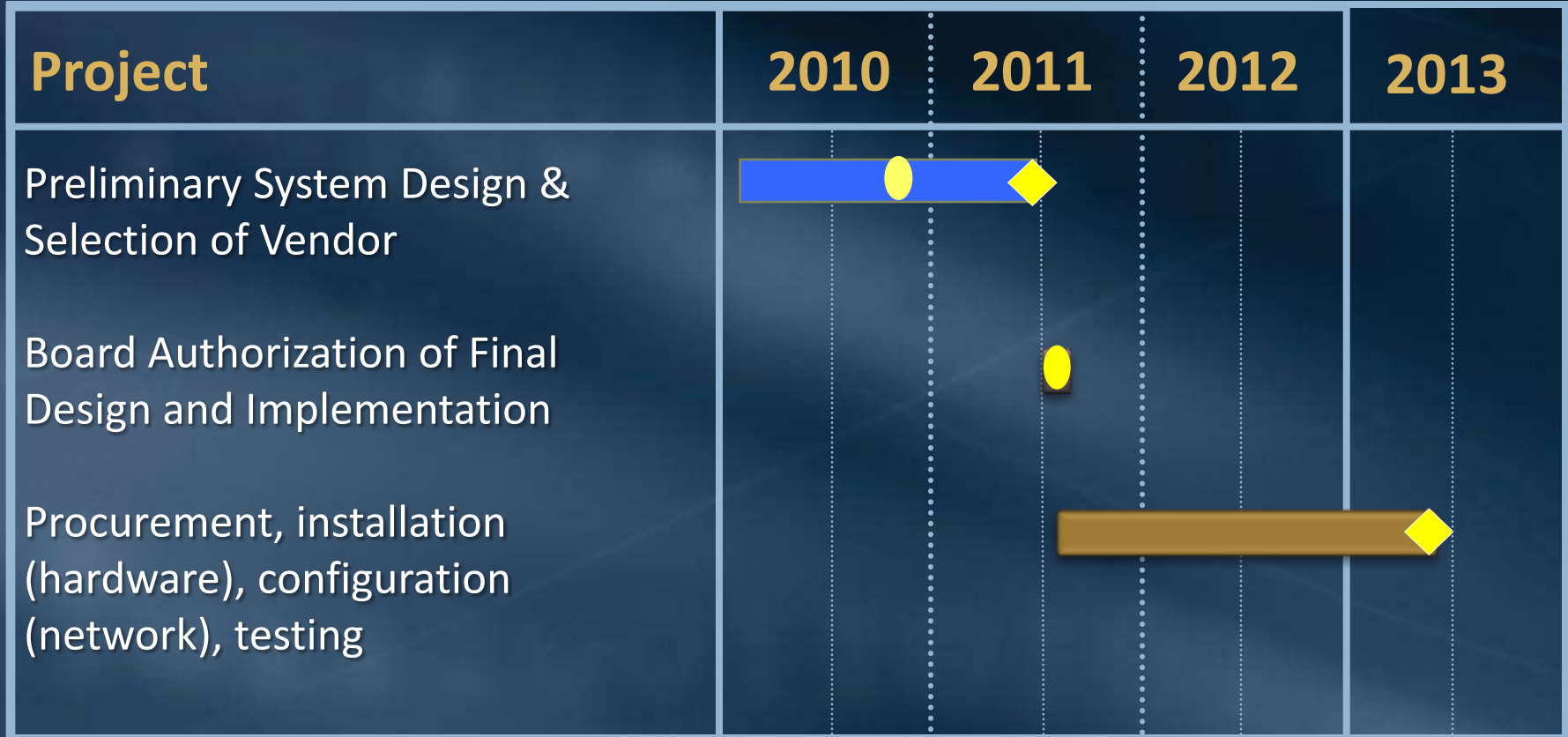
Project Conducted in 3 Phases

- Phase 2- Preliminary System Design and final system requirement definitions
 - Conducted site surveys
 - Determined FCC licenses requirements
 - Perform System Functional Design
 - Generate detailed frequency coverage maps
 - Complete Request For Proposal for the system
 - Select vendor for Final Design

Project Conducted in 3 Phases

- Phase 3- Final Design and Implementation
 - Complete Final Design
 - Conduct installation
 - Commission system

Two-Way Radio Upgrade Project Schedule



Preliminary Design & Vendor Selection



Construct & Implement



Board Action



Completion

Board Options

- Option #1
 - Adopt CEQA determination
 - Appropriate \$900,000 in budgeted funds
 - Authorize an agreement for acquisition of three clear channel licenses for an amount not to exceed \$875,000
- Option #2
 - Do not appropriate budgeted funds
 - Do not authorize the agreement

Staff Recommendation

- Option #1

