

Bringing WISCOM to Life

Governor's Emergency Management
Conference

Middleton, WI

March 25, 2009

Agenda

- **Introduction**
- **Scope of Work Review**
- **Project Progress Report**
- **Discussion**

Who Are You?

- **Kimball - Retained by SSMG**
 - **Tasking**
 - **Concept Validation**
 - **Preliminary Design Validation**
 - **Develop a Detailed System Design**
 - **Use Existing Assets – Microwave, Towers, Shelters**
 - **Develop an Implementation Plan**
 - **Procurement of the System**
 - **Implementation and Acceptance Testing**
 - **Within Funding Constraints**
 - **By September 30,2010**

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The Project is Divided Into 3 Phases

- Phase 1 – Concept Validation and General System Design
- Phase 2 – Detailed Conceptual Design and Statewide Phased Implementation Plan
- Phase 3 – System Procurement and Implementation.

Phase I – Concept Validation - Completed

- **Kimball Gathers Data And Information Needed To Develop a Conceptual System Design**
- **Determine If The Amount Of PSIC Funding Is Sufficient To Build The Desired System**
- **System Design Criteria:**
 - **Technology – Project 25 Phase 1 Trunked**
 - **Frequencies – VHF High Band**
 - **Coverage – 95% Mobile Talk-in**
 - **Channels – 4 Frequencies Per Site**
 - **Use Existing Towers And Site Facilities**
 - **Use Existing Microwave For Backhaul**

Phase 1 – Tasks and Methodology

- **Developed an Inventory of Current Infrastructure and Site Data**
 - **Towers, Antennas, Shelters, Microwave/Connectivity**
- **Perform Computerized Coverage Studies Using Existing Towers**
 - **Estimate of Sites Required for 95% Statewide Coverage**
- **Develop Equipment List Required to Implement A New System**
 - **Reusing Existing Equipment & Facilities to Extent Possible**
- **Develop A Pro-forma Budget**
- **Provide Report and Present Findings and Recommendations**

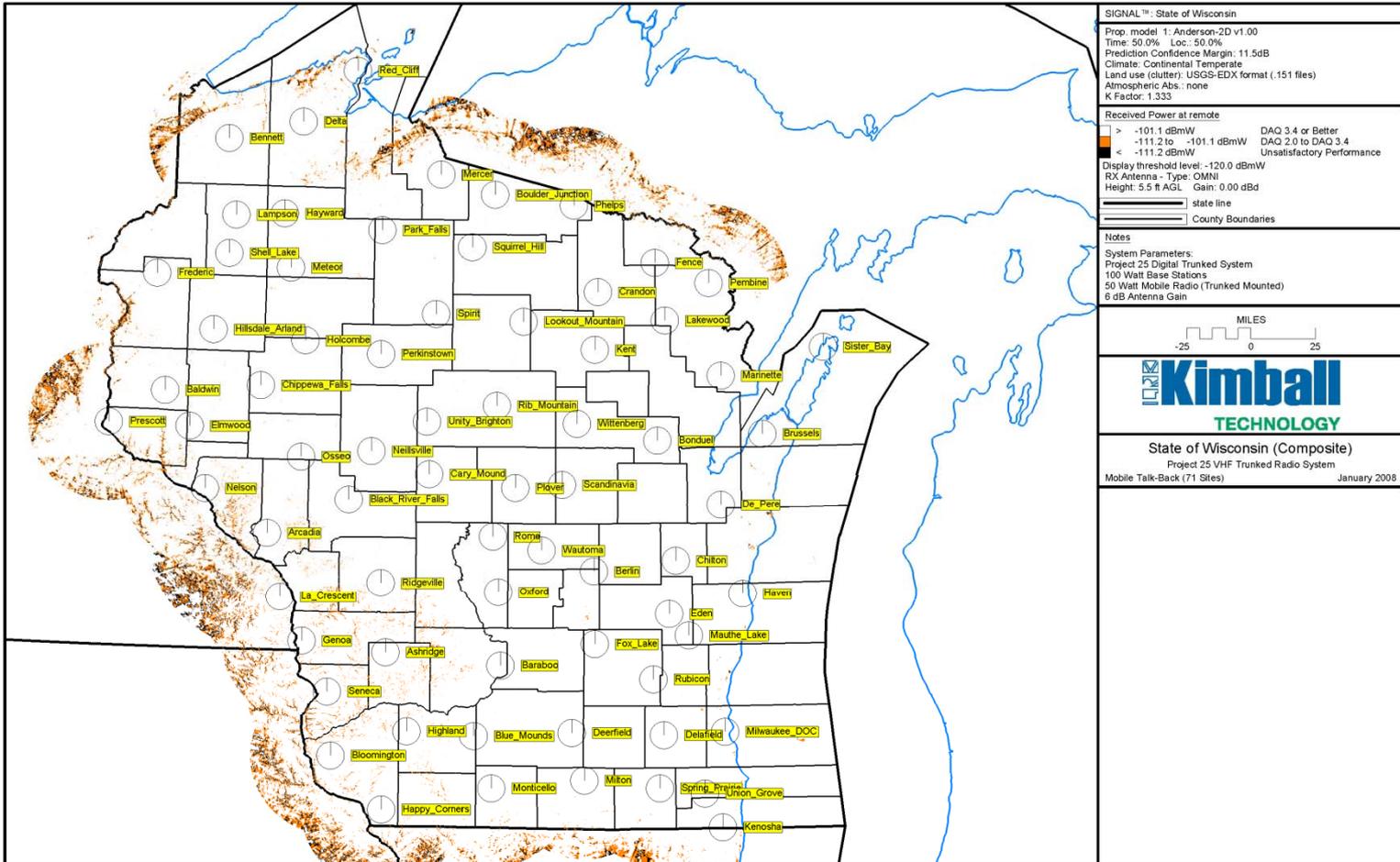
Phase 1 - Accurate Cost Estimate Needed

- **Price Data Sources**
 - Recent proposals for similar systems
 - Current Vendor Price Lists
 - Pricing already submitted to the State for budgetary purposes

Phase 1 - Coverage Analysis

- **Determined Design Criteria**
 - **95% Coverage - 95% Of The Time**
 - **Conservative 50 Watt Mobile Talk-back**
 - **TIA TSB-88 Public Safety Standards**
 - **P25 Digital Delivered Audio Quality of 3.4**
- **Evaluated 81+ Current State Sites**
- **Selected 71 Sites**

71-Site Statewide Coverage



Phase 1 Findings

- **Provides Coverage, Clarity & Capacity**
- **Technically Feasible & Do-able**
- **Uses State Sites Exclusively**
- **Uses State Microwave**
- **95% Coverage Criteria Achieved**
- **Falls Within PSIC Funding of \$14 M**

Phase 2 – Detailed System Design

System Design Considerations

- Products On The Market
- Operational Features Available
- Design Based On Frequency Plan
- IP Based Network
- Backhaul/Network Capacity Per Path
- Interface And Interoperability
 - Local, County And Federal Systems.

Phase 2 –Implementation Planning

Develop A Statewide Implementation Plan

- **Conduct Vendor Presentations And Briefings.**
- **Needed Infrastructure Upgrade Requirements.**
- **Research “Best Practices” For Supplementary Funding, Ongoing Funding, And Sustainability.**
- **Research Private/Public Partnerships**
- **Report With Design and Recommendations.**

Phase 3 – Procurement Assistance

- **Procurement Process**
 - **Develop and Publish RFP Specifications**
 - **Pre-Proposal Conference**
 - **Site Visits by Vendors**
 - **Evaluate and Score Proposals**
 - **Vendor Selection**
 - **Comprehensive System Design Review**
 - **Final Negotiations**

Phase 3 – Implementation Oversight

- **Implementation**
 - **Factory System Staging and Testing**
 - **Delivery to Sites**
 - **Installation by State and Vendor**
 - **Installation Oversight**
 - **Acceptance Testing**
 - **Coverage Testing**
 - **Acceptance Recommendation**

Project Progress Report

- **Phase 1 – Complete**
- **Research & Vendor Meetings - Complete**
 - Vendor Meetings/Presentations
 - Other Info Gathering & Research
 - Fail Soft Operation By Vendor
 - Discuss Integration Support Scenarios
 - Data Gathering At IWCE
- **Draft Vendor Matrix Is Available**

Progress Report (cont.)

- **Update Conceptual Design**
 - Integrate Frequency Plan Information – Underway
 - Refine Site Data Provided By The State - Underway
 - Visit Sites For Needed Site Data - Underway
 - Update Coverage Analysis With Current Data- April
- **Develop Microwave System Requirements**
 - Review Microwave Capabilities - Underway
 - Determine Vendor Connectivity Requirements – Completed
- **Develop Interoperability Requirements - Preliminary**
 - Gateway Inventory
 - Determine Interoperability With P25 Systems - Underway
 - Determine Interoperability With Non- P25 – Preliminary
- **Recommendations For Legacy Systems Interface – Prelim.**

Progress Report (cont.)

- **Update Conceptual Design Pricing – April 09**
 - Refine Equipment List & Budget Estimates
 - Finalize cost estimates for each element – April 09
- **Research “Best Practices” – Underway**
 - Funding/ Sustainability
 - Research Public Private Partnerships
 - Recommendations & Plan
- **Develop Implementation Plan – April 09**
- **Documentation & Presentation - Friday 5/8/09**
 - Develop Phase 2 Report and Findings
 - Presentation to SSMG

Schedule

- Phase I Is Complete
- Phase 2 Complete By 5/31/09
- Phase 3
 - RFP Published By 7/15/09
 - Responses Due By 8/15/09
 - Award By 9/15/09
 - CDR And Kickoff By 9/30/09
- Project Completed 9/30/10

GENERAL PROJECT DISCUSSION

Operational and Technical