AFCEE SCADA → TO 15 MWH

MWH
MONTGOMERY WATSON HARZA

25 July 2003

HQ AFCEE/ERD
3300 Sidney Brooks
Brooks City-Base, Texas 78235-5112

Attention: Ms Teri DuPriest, AFCEE Project Manager

Subject: Final Kickoff Meeting Minutes
Contract F41624-03-D-8608, Task Order 15
Camp Stanley Storage Activity, Boerne, Texas

Dear Ms DuPriest:

Please find enclosed the Final Kickoff Meeting minutes for the SCADA Requirements Assessment at the Camp Stanley Storage Activity (CSSA) in Boerne, Texas. Please make additional copies for your use and distribution to others, as appropriate.

These minutes are submitted in accordance with the requirements of Contract Data Requirements List (CDRL) B010.

MWH is extremely pleased to be of continued service to the Air Force. If you have any questions on the content of these minutes, please contact Garrett Smith at 210-340-5252.

Sincerely,

Garrett J. Smith
Delivery Order Manager

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MEMORANDUM

MWH
MONTGOMERY WATSON HARZA

To: Teri DuPriest, REM (AFCEE/ERD) **Date:** 25 July 2003
From: Garrett Smith **Reference:** F41624-03-D-8608-0015
Subject: Final SCADA Requirements Assessment Kickoff Meeting Minutes

The kickoff meeting for the Camp Stanley Storage Activity (CSSA) Supervisory Control and Data Acquisition (SCADA) System Requirements Assessment was held on Tuesday, July 1, 2003 at the CSSA Environmental Office. The following personnel were in attendance:

Attendee	Organization	Phone
Brian K. Murphy, CSP	CSSA ENV	(210) 698-5208
Teri DuPriest	AFCEE/ERD	(210) 536-4745
Garrett J. Smith	MWH	(210) 340-5252
Brian H. Fasold	MWH	(303) 291-2222
Paul R. Sutto, P.E.	MWH	(210) 340--5252
John Smith	CSSA	(210) 295-7473
Joe Ovalle	CSSA	(210) 295-7422
Elisa Wright	CSSA	(210) 295-7422

A summary of the topics discussed during the meeting are as follows.

Introductions and Project Goals/Objectives: The agenda was distributed, introductions were made, and the project goals/objectives were revisited. The basic parameters of the system were discussed. The resultant system will provide a sufficient degree of automation and the collection of process data as requested by CSSA. The system will consist of a master station that will be located at Building 38 (Public Works), with one terminal at a location to be determined at a later date (probably Building 98).

Schedule and Major Milestones: It was agreed that the delivery date for the draft requirements assessment report as presented in the July Work Plan (8 September 2003) will be pushed out beyond that time if necessary.

System Components: Water and waste water systems are being placed at the highest priority of this phase of the project. The other components: natural gas, electricity, and environmental will be of a lower priority. The water and waste water system will address each building serviced to include the waste water treatment plant; water supply wells 1, 9, and 10; and the water reservoir. Natural gas and electricity will be metered at each building that uses it. Electricity will be metered in kilowatt-hours. It was noted that CSSA should explore the option of City Public

Service (CPS) installing a meter on their side of the electricity supply and the SCADA system tap into it for information on the supply side. The environmental system will require the collection of information from CSSA and Parsons in order to place monitoring devices in appropriate wells and to also gain sufficient information in order to tie in to the two existing Campbell Scientific meteorological stations. System operations and maintenance (O&M) will also be specified as part of the O&M Manual. Each system component, if appropriate, will be outfitted with either a dial down or pager notification or alarm of the systems status for emergencies and a general alarm such as low diesel fuel in the generator. A remote dial-in capability shall be priced and specifications provided as an option for the system.

Automation and Data: The system will provide automation control such as remote pump control and chlorine injection. Controls will be automated to an appropriate degree. Manual override controls will be provided at each of the automated points for operations such as environmental sampling. Data will be presented in a real time basis from monitored systems. Lag time will be from three to five seconds for data.

Summary and Report: The Requirements Assessment Document will be approximately 50 pages and will include an executive summary, general discussion of the proposed system, cost schedules for implementation by system component, and catalogue cut sheets.

Site Reconnaissance:

- Site drawings for the new fiber optic network were reviewed. These lines were initially considered as an option to radio transmission of data. Team discussion after the kickoff meeting resulted in the decision that this option may not provide the long term flexibility that radio transmission will.
- An ultra high frequency (UHF) allocation range is currently available.
- The waste water treatment plant was visited first. The plant is supplied with gravity flow to an open channel that runs into two imhoff tanks where solids are separated from liquids. Solids are discharged when sufficient volume is reached. Solids are currently manually measured or released to the drying bed on a periodic frequency. Liquids are recirculated in the imhoff tank until a sufficient volume is collected, and the volume is flushed through the filter bed, then to the chlorination station, where it is discharged to a surface water outfall.
- Environmental wells were visited. There are 39 on-post monitoring wells that include three water supply wells.
- Two Campbell Scientific meteorological stations are located at CSSA and were visited.
- The reservoir was visited.
- There are two fire observation towers on CSSA that will be available for use as a base for a radio antenna. Additional radio towers may be installed if necessary.

Data Needs from CSSA:

- The DoD frequency is subject to a change from UHF to VHF. The new frequency allocation is needed for equipment selection.
- An option for using unlicensed microwave transmission is available. CSSA should identify whether unlicensed frequencies are allowable.

- The waste water treatment plant O&M manual, if available, would be of benefit for the team to review. Any schematic on the system would also be helpful.
- Storm water infiltration into the sewer system and waste water treatment plant was mentioned. The maximum flow through the system should be verified. The maximum permitted volume is 60,000 gallons per day maximum and 30,000 average.
- The waste water treatment system Discharge Monitoring Report/TPDES Permit from Outfall 001 is needed to define the required parameters of measure at the plant outfall. The necessary information required by the permit :
    - Flow measured five times a week and averaged.
    - Total suspended solids once per week.
    - BOD once per week.
    - Chlorine residual of at least 1.0 mg/l up to 4.0 mg/l.
    - pH shall not be less than 6.0 nor greater than 9.0 standard units.
- The waste water treatment from Outfall 002, GAC treatment facility requires the following:
    - Flow be calculated once per day when in operation.
    - pH shall not be less than 6.0 nor greater than 9.0 standard units.
- Environmental well information has been provided. No more data needs. Well caps will need to be extended to accommodate the service loop on the probe cables. When possible, wells will share a common tower and datalogger.
- Topographical maps of CSSA including GPS locations of all facilities or monitoring points on-post including the fire observation towers. This information is being supplied by CSSA personnel.
- Identification of all buildings to me metered for electricity and natural gas. Will need natural gas maximum and minimum line pressure, and maximum and normal line flow by building. This information is being supplied by CSSA personnel.

cc: Brian Murphy – CSSA
Brian Fasold – MWH
Byron Postma – MWH
John Hansen – MWH
MWH Project Controls
AFCEE/MSCD

CONTACT SHEET

Supervisory Control and Data Acquisition
System Requirements Assessments
Kickoff Meeting – 7 July 2003

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Joseph Ouellette	CSSA		336 2376	

AGENDA

Supervisory Control and Data Acquisition
System Requirements Assessments
Kickoff Meeting – 1 July 2003

Introduction

- AFCEE introduction
- CSSA team introduction
- MWH team introduction
- Contact sheet

Project Goals and Objectives

- SCADA System
- Automation
- Feedback
- Data
- Master station/outpost terminals
- Phase 1 Requirements Assessment

Schedule and Major Milestones

- Baseline schedule
- Draft report
- Final report
- Coordination meetings

System Components

- Water
- Waste water
- Natural gas
- Electricity
- Environmental

Requirements Assessment Report

- Format
- Narrative
- Presentation of costs
  - Equipment
  - Labor
  - Subcontracts
  - Mark-ups

Site Reconnaissance

- Notes/Photographs/Maps/As-built/Plans/Schematics

Open Discussion