
NSF Presentation
Subcontract
for
Hanford Water System Integration

Fred Asiri
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Hanford Water System Integration

- Introduction

- ›› Parsons' cost estimate for Civil Construction exceeded LIGO budget

- ›› In anticipation of high bids, descoped Civil Construction

- ›› Deleted/deferred items such as:

- Landscaping; Erosion control; Irrigation system; Automated control system

- ›› Bids came under LIGO budget

- ›› During construction, NSF reviewing committee recommended to restore:

- Erosion control

- Landscaping

- Irrigation

Hanford Water System Integration

- Purpose:

- ››To integrate the water system components (Well Pump, Domestic Water Tank, Fire Water Tank, Irrigation and Water Treatment) to an automated stand-alone operating and alarmed water system.

- Benefits:

- ››Added well water surge tank to provide an additional capacity ahead of irrigation and domestic water system

- It reduces cycling of the well water pump, thus prolongs its life

- ››Irrigation pump added to draw water from surge tank instead of directly from domestic water line

- A dedicated pumping system is easier to maintain and more reliable

Hanford Water System Integration

- ›› Provides remote control of the well water pump from the Control Room
 - Personnel do not have to make 4Km run to the end station to turn on/off pump
- ›› Added level instrumentations to Fire Water Tank, Surge Tank and Domestic Water Tank
 - Provides local high and low level alarms
 - Provides alarming and logging in the central Facility Monitoring Control System in the Control Room
- Overall, this integration provides a more reliable system that can be remotely controlled and monitored through the existing Facility Monitoring Control System

Hanford Water System Integration

- Procurement:

- ›› Parsons I & T prepared Design and Construction package
- ›› Advertised in the local newspapers
- ›› Nine firms requested for the “Bid Package”
- ›› Invitation For Bidders (IFB) was sent to bidders on June 9, 1998
- ›› Addendum No. 1 was issued to bidders on June 19, 1998
- ›› Three bids were received on due date, July 7, 1998

Hanford Water System Integration

- Summary of bids in order they were opened:

- ›› Apollo \$102,600.00

- ›› Zygotech \$114,220.00

- ›› Thompson Mechanical \$106,928.37

- Parsons I&T estimate \$100,000.00

- Recommendation:

- ›› To award the Hanford Water System to Apollo