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Providing water, solid waste, drainage, engineering and customer services

# Seattle's Cedar Treatment Facilities DBO Project Procurement Process





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CH2M HILL

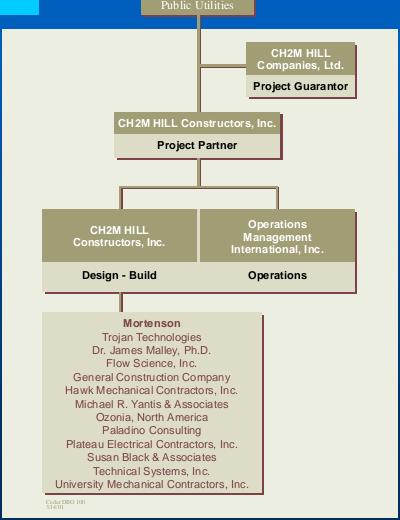
### Overview

- Background
- Four Truths
- Three Myths
- Teamwork Technology
- Sustainable Products

### **CH2M HILL Team**

Seattle Public Utilities

- Streamlined
- Local
- Integrated



# Our Responsibilities

- Development Period
  - Design & permitting
- Construction
  - Build the facilities
  - Protect the environment
- Operations
  - Provide safe, good tasting water
  - Maintain the facilities

A 29 Year Deal!

Procurement Process is Long

4/99 Qualifications

Draft Proposal 4/00

Proposal/BAFO

1/01

Negotiations 4/01

Development

A Full Two Years

Procurement Process is Costly



- Procurement Process is Resource Intensive
  - CH2M HILL Team involved:
    - Over 100 people working a fixed deadline schedule
    - ◆ Total staff investment in excess of 20,000 hours
  - Timeline and cost control essentially mandate work beyond 40 hour week
  - Must have staff depth things will come up but what and when is an unknown

- A Competition is Just That
  - Firms selected to compete will:
    - Try to determine what is important
    - Target their investment
    - Hold cards close
    - Insist on exclusivity and confidentiality

# Myths

- Unfair Risk Allocation
- Unclear Requirements
- Performance Based Approach Inadequate

### **Risk Allocation**

- Key Elements
  - Draft contract
  - Performance requirements
  - Consequences
- Assessment Process
  - Given above, risks can be assessed and decisions made
  - In DBO delivery, the process must balance priorities and be ongoing

### Risk Assessment Process

Read
Document
Analyze
Features & "Insurance"

**Decisions & Costs** 

# Submittal and Design Requirements

- Submittal
  - Organization established
  - Content outlined
  - Specific requirements must be stated
- Design
  - Set key design criteria performance
  - Set the quality bar
  - Specific requirements must be stated

# Submittal and Design Requirements

- Expect Interpretation it's a Good Thing
- Process Allowed for Some "Testing/Clarification"
- Confidential Work Sessions Desired

# Performance Specifications

- Can Effectively Describe Desired/Required
   Outcomes
  - 50 year design life
  - 3-log Cryptosporidium inactivation
- Can Effectively Describe Physical Components
  - Quality bar
  - Design criteria
- "Must Have" Items Should be Prescribed

#### **Teamwork**

- Moving People is Costly and Time Consuming
  - Travel cost
  - Space and equipment needs
  - Human costs
- Moving Information is Better
  - "Virtual Teams" becoming the norm

## **Team Distribution**



### **Team Website**



### **Sustainable Deliverables**

- Paper Deliverables Should be Minimized
- Owners and Contractors Must Embrace
- "Compatibility" No Longer Valid Excuse

# **Deliverable Summary**

- Paper
  - √ 1200 pages
  - **▼10 volumes**
  - ▼15 pounds
- CD
  - Interactive
  - Searchable

### Conclusions

- The DBO Approach is an Appropriate Model for <u>some</u>
   Owners and Projects
- Special Attention is Needed to Establish a Fair Process
- Providing Teams with the Draft "Contract" is Essential to Risk Evaluation

### Conclusions continued ...

- Submittal Requirements and Procurement Process Should Align with Project Opportunities
- Need to Explore Ways to ...
  - Reduce cost
  - Communicate better
  - Optimize use of time and resources