

Rocky Flats Model Contract

Project Overview—Rocky Flats Environmental Technology Site (RFETS)

- NPL site, 15 miles NW of Denver
- From 1940's 1989, produced components for nuclear weapons
- Largest DOE site slated for closure
 - 700 structures
 - 385-acre industrial area surrounded by nearly 6,000 acres of controlled open space
 - Stored the largest inventory of plutonium not in final weapons form
 - Five of the top ten high risk plutonium facilities in the country were located on site





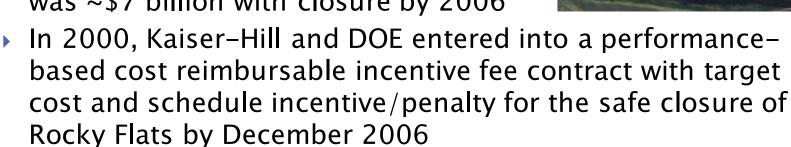
Project Overview

- Kaiser-Hill was jointly-owned by CH2M HILL and Kaiser Group Holdings formed specifically for the Rocky Flats Cleanup Project
- The 1995 Contract was a performance-based integrating management contract—the framework of which was formed by:
 - Vice President Gore's "reinventing" government
 - Department of Energy's "contract reform" initiatives
 - Department of Defense contracts for services
- Early in the original contract Kaiser-Hill developed the Accelerated Site Action Plan (ASAP) designed to significantly reduce time and cost of the cleanup.
 - Applying appropriate Project Management techniques from government and commercial business sectors



Project Overview (con't)

- In 1994, cleanup and closure was estimated to cost >\$36 billion and take >60 years
- Kaiser-Hill's cleanup cost estimate was ~\$7 billion with closure by 2006



 This was a single-source negotiation based on Kaiser-Hill's performance record and willingness to share risk with DOE





M&O, M&I, Closure Contract Comparison

 Contractor Indemnified Integrated Accounting System Letter of Credit DEAR-Like Contract CPAF (Fixed and Award Fee) Single Contractor M&O Standards, Cost Principles, Fee Guidelines, Indemnifications No Insurance Required Federal Norm Standard Insurance Program Contract Risk & Accountability Cost Reimbursable – Target Incentive for Cost and Schedule (No Performance Measures) Cost Savings Share (70% DOE, 30% contractor Fee Deduction for Specific Events/Trends of ES&H Environmental, and Unsatisfactory Performance Measures) Fee Deduction for Specific Events/Trends of ES&H Environmental, and Unsatisfactory Performance Required Contract Reform "Run it Like A Business" DOE Only Responsible for GFS/I Fixed funding level for duration of contract Project Management techniques used on all work "Project Focused" Subcontracts w/Contractor Project Managers "Physical Completion" Defined Formal DOE Commitments to Streamline Very Specific Definitions through SOW and Baseline 	M&O	M&I	Closure
 No Base Fee Quarterly Conditional Payments of Project Target Fee No letter of credit 	Contractor Indemnified Integrated Accounting System Letter of Credit DEAR-Like Contract CPAF (Fixed and Award Fee) Single Contractor Operations WBS Single Employer – Union M&O Standards, Cost Principles, Fee Guidelines, Indemnifications No Insurance Required Federal Norm	 Increased Risk & Accountability Formal Invoice Under FAR No Letter of Credit FAR-like Contract CPIF (Performance Measures) Multiple Subcontractors Projectized WBS Leased Labor – Union Commercial Standards Greater Insurance Required Contract Reform 	 Closure Contract (to "Physical Completion) Cost Reimbursable – Target Incentive for Cost and Schedule (No Performance Measures) Cost Savings Share (70% DOE, 30% contractor Fee Deduction for Specific Events/Trends of ES&H Environmental, and Unsatisfactory Performance DOE Transaction Level w/Contractor greatly reduced Contractor Risk Broader but bound by fee minimum DOE Only Responsible for GFS/I Fixed funding level for duration of contract Project Management techniques used on all work "Project-Focused" Subcontracts w/Contractor Project Managers "Physical Completion" Defined Formal DOE Commitments to Streamline Very Specific Definitions through SOW and Baseline No Base Fee Quarterly Conditional Payments of Project Target Fee
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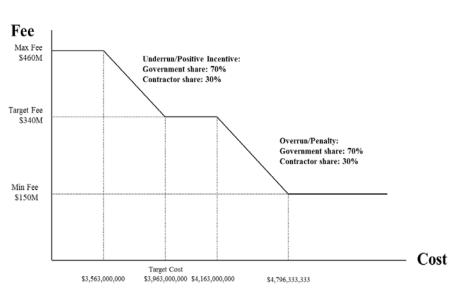
Closure Contract Features

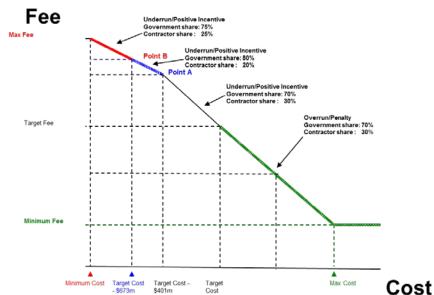
- Predetermined criteria for fee reduction in the event of environmental, safety, and safeguards/security performance deficiencies
- "Equity partnership" between DOE and contractor to reduce costs
- All contractor fee conditional until project "physical completion"
- Baseline scope-of-work with change control system
- Cost and Schedule reward and penalty

Closure Contract Features

- Risks for many site latent conditions shifted to contractor (waste volumes, differing site conditions
- DOE accountability for Government Furnished Services and Items
- Contractor controls work sequencing
- Significant goals for subcontracting work to small and disadvantaged businesses
- Partnership commitment to reduce non-value added transactions and requirements
- Contract completion defined

Original and Final Cost Incentive

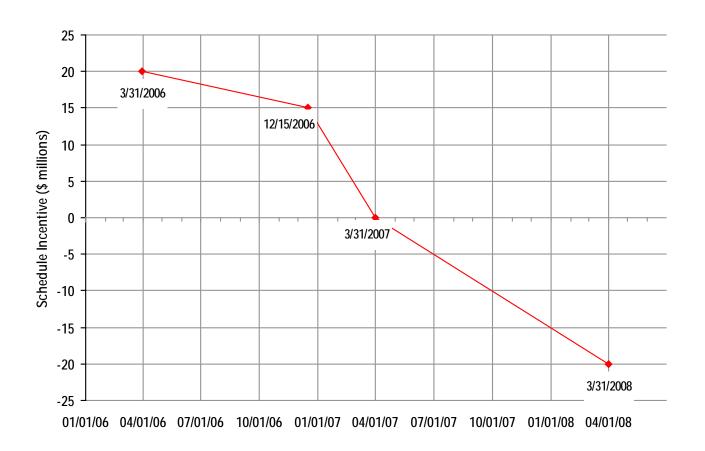




This graph is not to scale!



Schedule Incentive





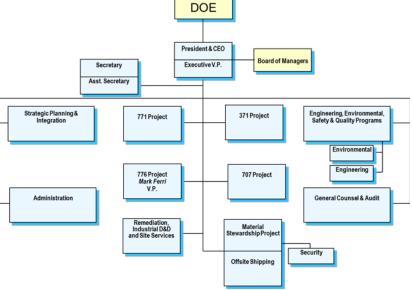
Incentivized Contract Model Helps Motivate Creativity & Innovation

- In 1995 the workforce was demoralized, not working, didn't have a mission
- Kaiser-Hill recognized the need to put this great workforce back to work and re-instill their pride - we:
 - Increased communication
 - Included them in our plans for closure
 - Solicited their input on work planning, hazard analysis and safety
 - Recognized their performance
- All employees were incentivized for safe accelerated closure of the site
- Employee creativity and innovation resulted in the project's performance – Instacot, Glovebox removal, etc.



 Contract structure allowed contractor to sequence work

- Partnered with DOE
- Brought commercial practices to DOE projects
- Projectized ALL activities
- Assigned Project Manager to each major scope of work
- Focused on safety first, then cost and schedule performance
 - Union safety rep in every project to help workforce be safe
 - Provided workforce with every tool they needed



- Conducted monthly internal reviews with 6-week look-a-head on planned work
 - Resource requirements (staff, materials, equipment)
 - Risks
 - Material and equipment needs
 - Work sequencing
- President controlled management reserve
- Didn't use unproven technologies
- Prepared a "work plan" with Dec. 05 completion date and measured performance against it
 - In late fiscal 2002 prepared a "2 to go" plan to further accelerate completion
 - Reported on all "plans" to DOE

- Manage the "Money" Critical Path
 - Understanding the safety envelop of each building and reducing safety envelop reduced overall cost and schedule of D&D
- Innovated throughout the life-cycle
 - Created a safe site (traffic patterns, moved nonessential personnel offsite - including DOE)
 - Shipped waste via rail versus truck

- Robust Risk Management Process Dirty Dozen
- Schedule contingency (used Oracle Risk) used to determine appropriate level of schedule contingency to project completion dates
- Divided the site into closure areas with specific criteria agreed upon with DOE so once the area was complete it was walked down and closed out
- Implemented comprehensive Workforce Transition Program

- Project Control
 - Implemented DOE Order 413
 - Strong configuration control of scope
 - Strong change control process
 - EVMS Certification
 - Developed WBS dictionary to the work package level improved clarity on scope
 - Fully integrated cost and schedule down to the work package level enhanced management control and use of resources (staff, waste containers, etc.)
 - Burn rate analysis

Keys to Success

- Clear and common vision with customer
- Safety culture and performance
- Transformation of the workforce
- Creativity and innovation
- All major subcontractor incentives linked to closure
- Partnering with the workforce and sharing successes with the workforce
- Successful transition program for workforce when the work is finished



Benefits of Cost Plus Incentive Fee

- Shared risk and reward for both government and the contractor
- Commercial model lower cost higher reward
- Contractor motivated to seek safe accelerated solutions
- Provided measure of predictability for the contractor and DOE



Results

- Final Cost \$6.7B versus original plan of \$37B
- Completion Date October 2005 versus 2060
- Safety Performance (incl. all subcontractors)
 - TRCR: >1.0
 - Lost Workday Case Rate: >0.10
- Workforce
 - Received substantial incentive payments
 - Workforce Transition Program helped place 50% of the workforce with 27% retiring – balance didn't respond to inquiries
 - Significant number continued performing using lessons-learned at Rocky Flats