



Coke Drum Modifications Presentation

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2009



REPCONSTRICKLAND

*A group of independent specialty companies
serving the energy industries.*



REPCON
We Do Things Right!



Diamond
Refractory Services



TURNAROUND
TIGER TOWER SERVICES



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REPCONSTRICKLAND

RepconStrickland is comprised of 6 specialty service companies and one Joint Venture. The companies service the refining, petrochemical, midstream, power and paper industries. Each company within RepconStrickland retains its own core specialty personnel. The benefits for our clients is that RepconStrickland can bring these highly productive specialty crafts together to provide safer and more efficient projects and turnarounds.



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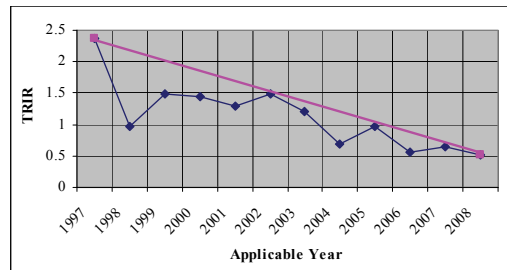


Safety



- Behavior based program
- OSHA VPP Partner
- Job safety analysis processes
- Jobsite audit processes

TRIR= 0.51



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AltairStrickland



- LaPorte, TX, (Houston, TX area)
- Founded 1976
- Non-Union
- Resources
 - ✓ Project Managers – 10
 - ✓ Superintendents – 21
 - ✓ Peak – 1,500 crafts
 - ✓ Retention/Incentives
 - Competitive wages
 - Access to benefits (401k, Health)
 - ✓ Recruitment/Deployment
 - Clearance slip ratings
 - Database
 - ✓ Training
 - NCCER
 - Proprietary test administered at Safety Council
 - OJT and evaluation





AltairStrickland



• Principal areas of focus

- ✓ Project Management and Execution
 - Project controls
 - Complex mechanical scopes
 - Heavy rigging
 - Subcontractor management and coordination
- ✓ FCC and Coker TAR's and revamps
- ✓ Constructability optimization
 - Execution driven engineering
 - Value creation



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- Corpus Christi, TX
- Founded 1983
- Non-Union
- 40,000sf of shop space
- Resources
 - ✓ Project Managers – 6
 - ✓ Superintendents – 20
 - ✓ Peak – 1,750 crafts
 - ✓ Retention/Incentives
 - Competitive wages
 - Access to benefits (401k, Health)
 - ✓ Recruitment/Deployment
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• Principal areas of focus

- ✓ Project Management and Execution
- ✓ HF Alky TAR's
- ✓ General maintenance TAR's
- ✓ Tower services
- ✓ Heat exchangers
- ✓ Capital construction



Turnaround Welding Services



- Livingston, LA (Baton Rouge, LA area)
- Founded 1999
- Non-Union
- Resources
 - ✓ Project Managers – 5
 - ✓ Superintendents – 20
 - ✓ Shop - 6
 - ✓ Peak – 700 crafts
 - ✓ Retention/Incentives
 - Competitive wages
 - Access to benefits (401k, Health)
 - ✓ Recruitment/Deployment
 - Clearance slip ratings
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Turnaround Welding Services



- Principal areas of focus
 - ✓ Piping
 - ✓ Field fabrication and installation
 - ✓ Shop capabilities
 - ✓ Heaters
 - ✓ Specialty welding (High alloys and carbon)
 - ✓ Emergency responders
- High quality and production



ASI Piping



- Vidor, TX
- Founded 1999
- Non-Union
- Principal areas of focus
 - ✓ Shop pipe fabrication
 - ✓ Fabrication and installation of pipe
 - ✓ Regional field services focus
 - Mechanical and piping scopes
- 20,000 square foot shop
- Resources
 - ✓ Project Managers – 3
 - ✓ Superintendents – 11
 - ✓ Shop – 35+
 - ✓ Peak – 300 crafts





Diamond Refractory



- Houston, TX
- Founded 1999
- Non-Union
- Principal areas of focus
 - ✓ Installation/repair of refractory
 - Packed or cast
 - In Diamond shop or on site
 - ✓ Other corrosion resistant coatings applications
- Resources
 - ✓ Project Managers – 3
 - ✓ Superintendents – 18
 - ✓ Peak – 500 crafts



Tiger Tower Services



- Houston, TX
- Founded 2006
- Non-Union
- Principal areas of focus
 - ✓ Internal tray repairs and installation
 - ✓ Packing installation services
 - ✓ Shell section repairs and installation
- Resources
 - ✓ Project Managers – 3
 - ✓ Superintendents – 9
 - ✓ Peak – 250 crafts





DATSU

Damus AltairStrickland Turnaround Services Unlimited



- Trinidad, W.I.
- Founded 2007
- Non-Union
- Principal areas of focus
 - ✓ Trinidad and Caribbean region
 - ✓ Project management and execution of complex mechanical scopes
 - ✓ FCC, Syngas TAR's and revamps
 - ✓ Subcontract management and coordination
 - ✓ Constructability optimization
- Resources
 - ✓ Project Managers – 2
 - ✓ Superintendents – 10
 - ✓ Peak – 300 crafts



AltairStrickland Drum Modifications Deheading Installs

Drum Modifications since 2003



- ♦ BP Texas City, TX 2 bottom devices
- ♦ Premcor Port Arthur, TX 6 bottom devices
- ♦ Marathon Garyville, LA 2 bottom 2 top
- ♦ Coffeyville Coffeyville, KS 4 bottom devices
- ♦ ExxonMobil Beaumont, TX 8 bottom devices
- ♦ ConocoPhillips Carson, CA 4 bottom devices
- ♦ Marathon Robinson, IL 3 bottom 3 top (Consulting)
- ♦ *Delek Refining Tyler, TX 2 bottom devices
- ♦ CITGO Lake Charles, TX 4 bottom devices
- ♦ Shell Martinez, CA 2 bottom devices (Consulting)
- ♦ *ConocoPhillips Billings, MT 2 bottom devices
- ♦ Tesoro Martinez, CA 4 bottom devices (Consulting)
- ♦ *Valero Texas City, TX 4 bottom devices
- * Jobs in progress



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Coker Revamp Case Study #1



Coker Delta Valve Installation



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Coker Revamp Case Study #1



Services Performed

- Structure Modifications
- Cone section replacement
- Performed General Contract duties for whole TA
- Worked in conjunction with engineering on rail design
- Worked with owner HEO group on lift planning



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Coker Revamp Case Study #1



Coker Delta Valve Installation



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Coker Delta Valve Installation



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Coker Revamp Case Study #1



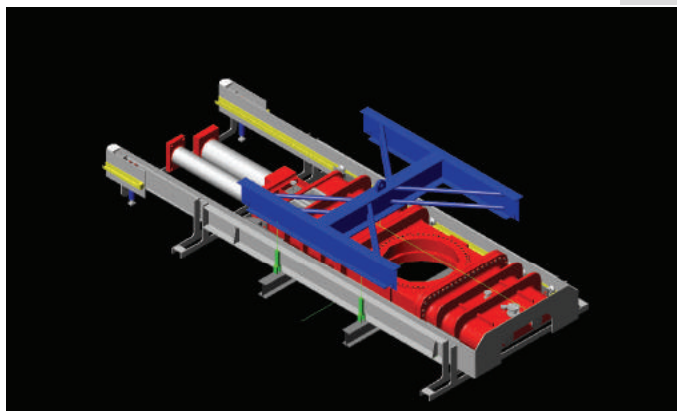
Coker Delta Valve Installation

- 80,000 Manhours (Complete TA)
- 0 Recordables
- 18 day schedule
- Under Budget



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Coker Revamp Case Study #2



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Coker Revamp Case Study #2

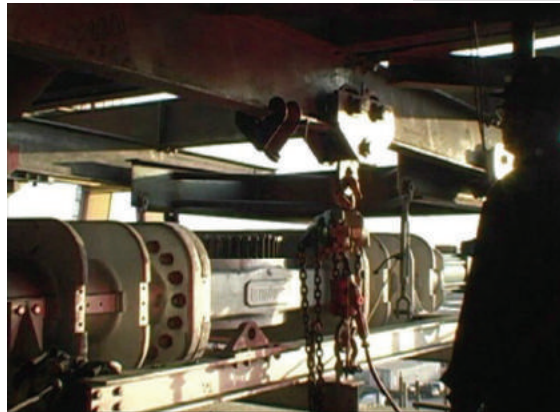


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Coker Revamp Case Study #2



- Over all project & TA 90,000 man hours
- 6 retrofits and installs in 21 days



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Coker Revamp Case Study #3



♦ Major Items for scope:

- ♦ Cone Fabrication
- ♦ Structure Modifications
- ♦ Cutting of drums
- ♦ Piping Modifications
- ♦ Rigging/ Install Plan
- ♦ Rail Design for Valve



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Coker Revamp Case Study #3



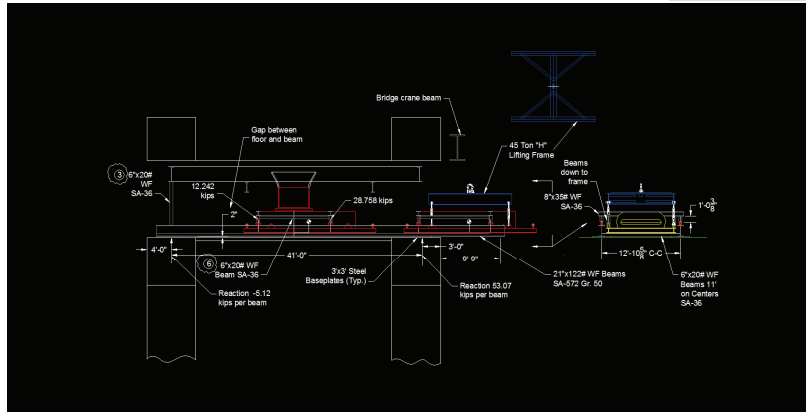
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Coker Revamp Case Study #3



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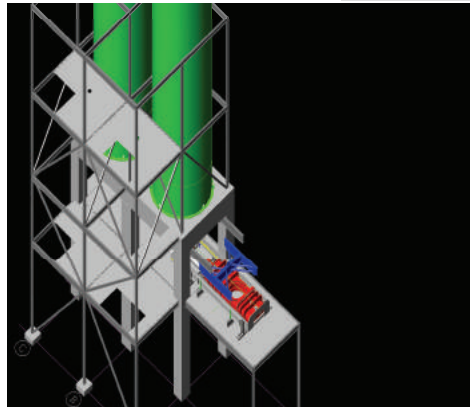


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Coker Revamp Case Study #4



- ◆ Supervision and small crew started Dec 06 to revise some piping and fabricate additional piping
- ◆ Shutdown date Feb 14 07
- ◆ Project original schedule 21 days



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Coker Revamp Case Study #4



- ◆ Beam installation for DeltaValve



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Coker Revamp Case Study #4



- ♦ Very tight Coker Structure



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Coker Revamp Case Study #4



- ♦ Welding in transition section



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Coker Revamp Case Study #4



- ♦ Valves installed perpendicular to coke pit



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Coker Revamp Case Study #4



- ♦ One point center of gravity H-beam



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Coker Revamp Case Study #4



- ♦ Delta Glide device rigged to trolleys on beams



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Coker Revamp Case Study #4



- ♦ Very tight space



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Coker Revamp Case Study #4



- ♦ Cross beam support for new structure needed removing



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Coker Revamp Case Study #5



- ♦ Hydro cutting cone section



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Coker Revamp Case Study #5



- ♦ Installation of new transition piece



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Coker Revamp Case Study #5



- ♦ Utilizing one point center of gravity H-beam



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Coker Revamp Case Study #5



- ♦ A job well done



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Thank you for your time



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