Introduction

Whitney Strickland has been in the business of providing turnaround services for the refining and petrochemical industries for over 25 years. Starting from working at WilsonStrickland's shop at the age of fourteen to field work as a laborer when sixteen years old and moving through the ranks of several different turnaround specialty companies to the position of superintendent. Then after 15 years of field experience came back to work at AltairStrickland in 1998 to implement the systems and procedures needed for the company to grow in the way of providing manpower, better efficiencies in the field administration, networking capabilities and overall information and communication infrastructure. Whitney Strickland is now helping the AltairStrickland Companies grow into the best contractor for Turnarounds and Revamps as the Vice President and Chief Marketing Officer of AltairStrickland Holdings, LLC.
Presentation Overview

• About AltairStrickland
• Case Study: cone replacement and weld repairs during Turnaround
• Coke Drum removal Center Pipe lifting device
AltairStrickland

- 30+ years of Turnarounds and Revamps
- General Mechanical Contractor we plan, manage and execute complete projects
- Specialize in FCCU and Coker Revamps, vessel modifications
- Affiliated Companies: Refractory, Specialty Tower, Specialty Piping and Pipe Fabrication
Case Study

- 4 Drums, 2 were 2.25cr and 2 were 3cr
- Project involved installation of new cone sections which were 2.25cr
- Repairs on Skirts during Turnaround
Cone Installation

- Performed three welding procedures, all in accordance to ASME Boiler and Pressure Code Section IX
- Coupons were 1.5 inch thick single-V SA-387 SMAW process in vertical position
- 400 degree preheat with 650 degree max interpass temp was used
- E9018-B3, E9015-B3 and E9016-B3
- 9016-B3 was utilized but was special order
Cone Installation
Cone Installation

• Cones cut below tangent but above existing weld seam
• Bevel slanted to ID
• TIG root and hot pass with back gouge on OD
• SMAW 1/8” rod
Cone Installation

• Preheat 400
• Phased Array testing in lieu of X-ray
• Welder Training
• PT testing on OD
• 410 ss overlay ferrite testing
• DHT Bakeout for any ‘cool downs’
• Zero weld reject rate
Cone Installation

• Drums Hydrotested
• Over 40 traveler documents
• Complete TA was 27 days
Skirt Crack Repairs

• Several Hundred repairs around keyholes
• Inconel Repair procedure
• Magnetic Particle Testing then stress relieving
• Average 4-5 days for each skirt
• Had to do work after hydro due to weight
Center Pipe Lifting Device
Center Pipe Lifting Device
Center Pipe Lifting Device
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Center Pipe Lifting Device

- Increases Safety Factor
- Deletes need for new lifting and tailing lugs
- Reduces time due to no welding or PWHT for new lugs
Thank you

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