

IMPROVING COKER STRUCTURE AUTOMATION



Jack Buckley Chief Process Engineer - Operations

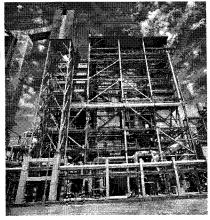
2007 Coking.Com Delayed Coking Seminar

League City, TX, May 7-10, 2007

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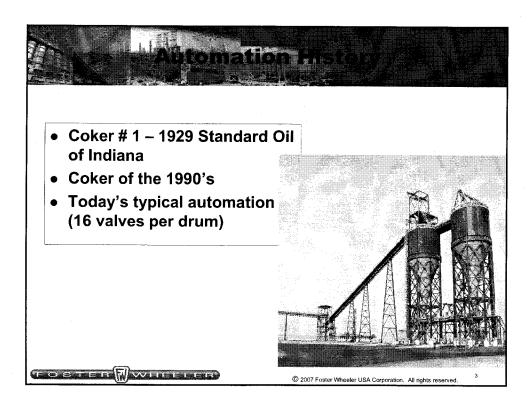
- Automation history
- Foster Wheeler in automation
- Where is the industry headed
- Design for total automation

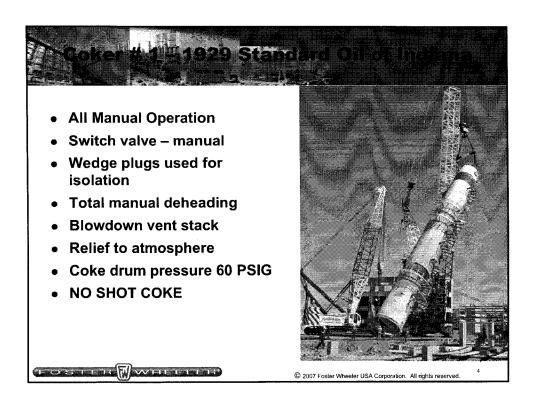


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COSHER WELLES





Thurseyor Coker and Comment

- Some Motorized Valves
- Switch Valve Motorized Ball Valve
- Some Valves Interlocked
- Blowdown to Flare Some Recovery
- Relief System to Flare
- Coke Drum Pressure 15 PSIG
- Shot Coke becoming A Normal Operation
- Automatic Deheading Appearing on Some Units
- First Automated Crane

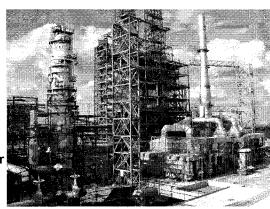
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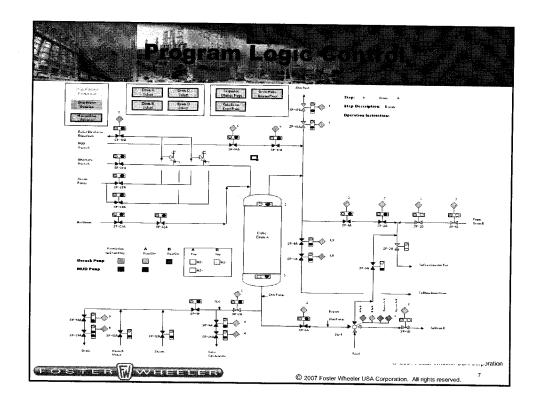
- More motorized valves
- Switch valve motorized
- More valves interlocked
- More double block valves
- Slide valve deheading
- Blowdown recovered to compressor
- Pressure in drum 15 PSIG or less
- Shot coke normal

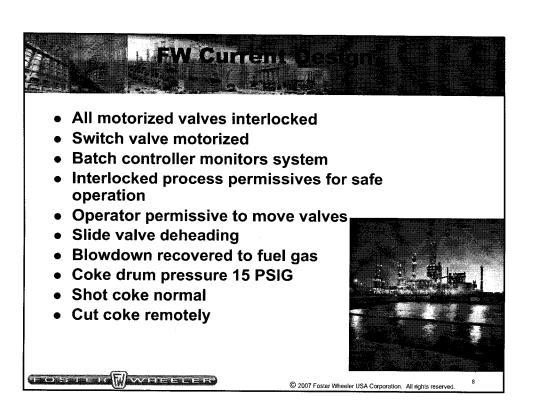


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LOSTER WAYHELES





Foster Wheeler

- All valves used in normal operation motorized
- Batch controller controlling batch operation
- Valves sequenced by batch controller
- Knowledge-based advisory on out-of-synchronizaton steps
- Remote cutting can be automated
- Fully automated top and bottom deheading devices

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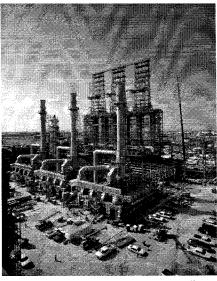
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Where is the measure was the second of the s

- Automation of Cutting
- Automated batch operation.
 - Switch
 - Blowdown
 - Quench
 - Drain & dehead
 - Rehead and test
 - Preheat



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