FCC AIR – ACCESS, INSPECTION & RESCUE

Refcomm Galveston 2016
Andy Hodgkinson
AIR concept Increases your Performance, Reduces your Costs & Time on the Critical Path
Inspection and Maintenance Challenges for FCCU turnarounds

1. Large & Complex Equipment
2. Confined spaces
3. Long lead time for making area safe to work in
4. Multi-level working
5. High risk of **Dropped Objects**
6. Scaffold challenges and constraints
7. Difficult rescue environments
8. Multiple service companies requiring co-ordination
Traditional Inspection Support Disciplines for FCCU Turnarounds

Time and resources required for turnaround inspection activities

Client → Onsite Rescue → Scaffold Contractor → NDT Contractor → AIM Contractor → Certified inspectors API 936, 510 & 570 → Reporting and recommendations
Axess – FCCU turnaround inspection support concept

Time and resources delegated to Axess by client for turnaround activities

Axess RAT inspection team;
- IRATA certified
- NDT & AIM certified
- API 936, 510, 570 certified

Reporting recommendations and follow up

CLIENT

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Access

Providing safe Access to areas within confined spaces by means of Rope Access Technique.
Inspection

Performing refractory and mechanical inspections within the FCC unit:

• Regen & Reactor Cyclones
• Reactor Riser
• Over Head Flue Gas Lines
• Over Head Vapor Lines
• External Regen, Reactor & Associated Pipe Work
• Fractionator Internals, External & Associated Pipe Work

All the above activities can be performed utilizing Rope Access Techniques
**FCC Areas of Focus for AIR**

1) Regenerator 1st & 2nd Stage Cyclone System
2) Reactor Cyclone System
3) Reactor Riser
4) Overhead Flue Gas & Vapor Lines
5) FCC Associated Standpipes
6) Emergency Stack
7) Fractionator column
Rescue

Providing Rescue and Safety support within confined spaces for personnel working at height during maintenance, shutdown & turnaround activities
**AIR** method of providing reactor riser rescue

*Example: Statoil Mongstad*
Keys Benefits for CLIENT.....

Reduced turnaround time
- Reduced costs
- Flexible and reactive work method

Increased Safety Performance
- Reduced personnel exposure to hazardous working
- Minimizing Dropped Objects potential
QUESTIONS?

World Class Integrity Solutions