

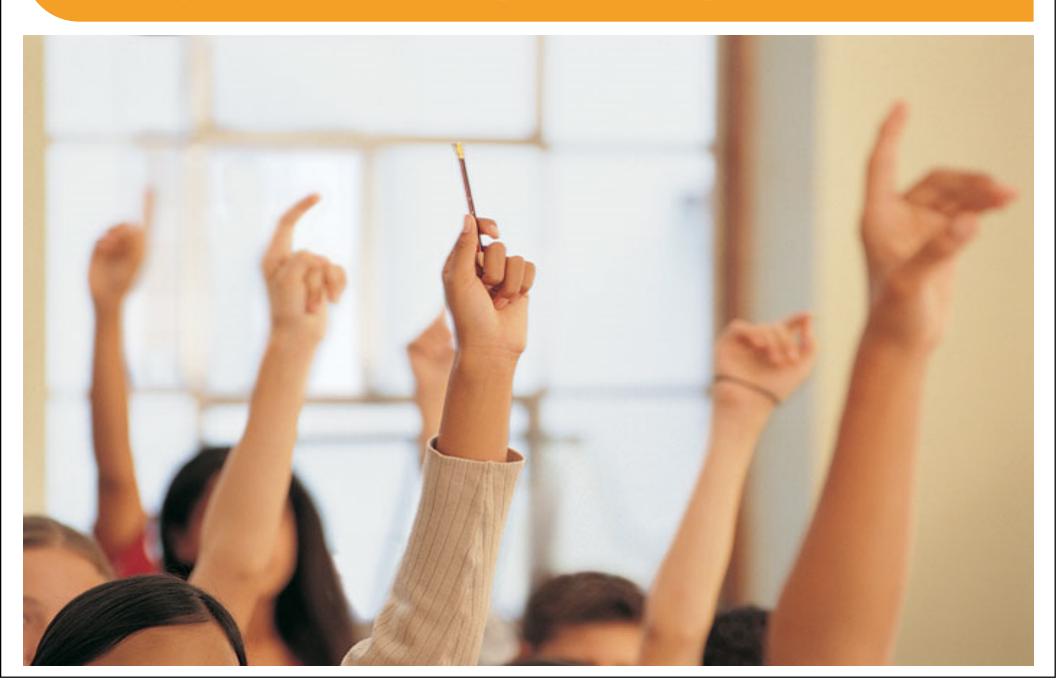
# Ensuring Reliability through Preparedness Planning: Best Practices for Delayed Coker Units

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# Do you have a plan in place?



### Value

•What would the impact be if your coker went down?



### Value

# Urgency versus Emergency

### Value

Urgency versus Emency

## **Taking the Emergency Factor Out**

#### •Do I have someone to call?





#### **Understanding Your Needs**

- Plant requirements
  - GPM
  - Pressure
  - Cycle times

- Site Specific SOP
  - Detailed
  - All Encompassing



### **Understanding Your Needs**

#### **CORRECT EQUIPMENT**



#### **Understanding Your Needs**

#### STANDARD OPERATING PROCEDURE

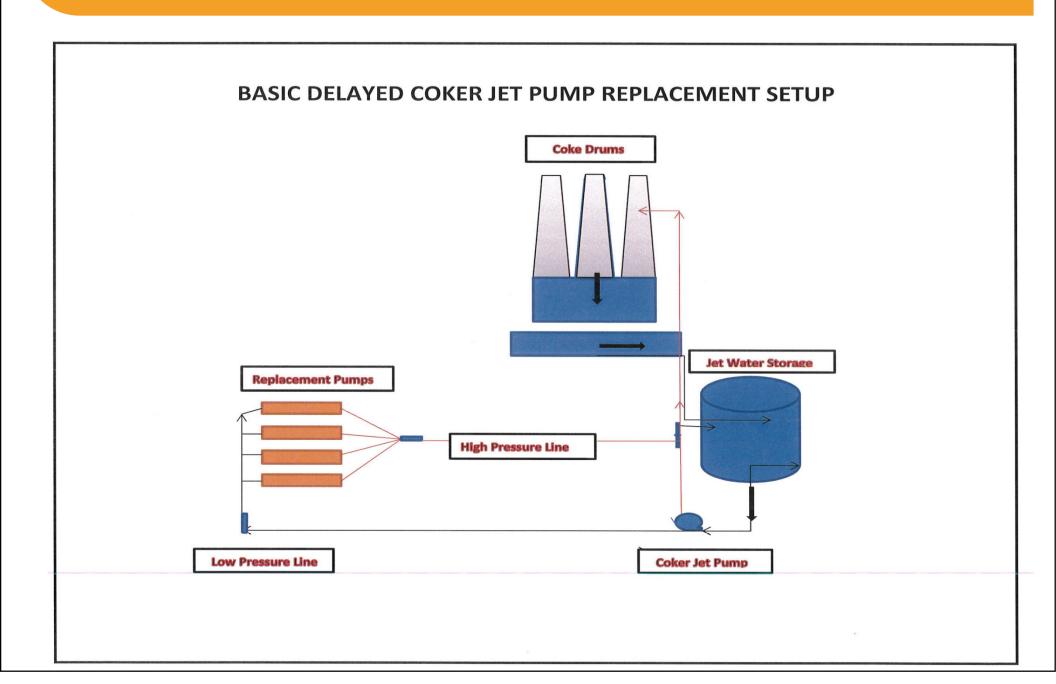
STANDARD OPERATING PROCEDURE	Page 1 of 13
Title: HVHP COKE CUTTING SOP FOR	

HYDROBLAST AND SAFE OPERATING PROCEDUR FOR COKE CUTTING PROJECT	3/12/15
SOP: HIGH VOLUME HIGH PRESSURE COKE CUTTING  Document Number: CC- 1-18-13  Job Description: Provide Backup High Volume High Pressure Pumping Durin  Coker Jetting Operations At	Hazard Recognition  Reactive - Water to steam conversion creating burn hazard  Hot Surfaces - Until cool down is complete  Elevated Work - Working from scaffolding  100% tie off required???  High Pressure Water -6,000 psi. @ 400gpm or more  Lifting - Pulling - Possible strain  Tripping/Slipping - General, wet surfaces, hose routing, uneven surfaces  Pinch Points - Between high pressure tooling and hoses and structures  NVESISE - High noise level during jetting process.  Double hearing protection required during jetting process.  Struck By - Potential for pipe or fitting failure  Line of Sight - Due to pump placement radio communication will be observed during operation.  Congested work area - Due to turnaround activities involving other contractors and plant personnel  Overhead lifting - Due to contractors in area

#### Site Specific SOP

- Customized/ Pre-Approved
  - Operational Plan
    - List of required equipment and personnel
    - Set up procedure
    - Operating procedure
    - Redundancy (Backup)
  - Safety Plan
  - Contact List

#### Site Specific SOP



#### **Key Points**

- Do we have a contract in place?
- Do they own the equipment?
- •Are they approved to work on my site?
- Do they meet safety/training requirements?
- Do they work in refineries?

#### **Case Study**

- SCOPE
  - 2014 Jet Pump Failure at Corpus Christi Refinery
- CHALLENGE
  - Without notice, refinery began experiencing jet pump issues
- SOLUTION
  - Dispatched equipment and personnel based on Site Specific SOP and Plan
- RESULT
  - Supported coke cutting operations 24 hours per day for 12 Days



#### **Questions?**

Thank you!