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Hydroblast Hose Failure

Calvert City, KY

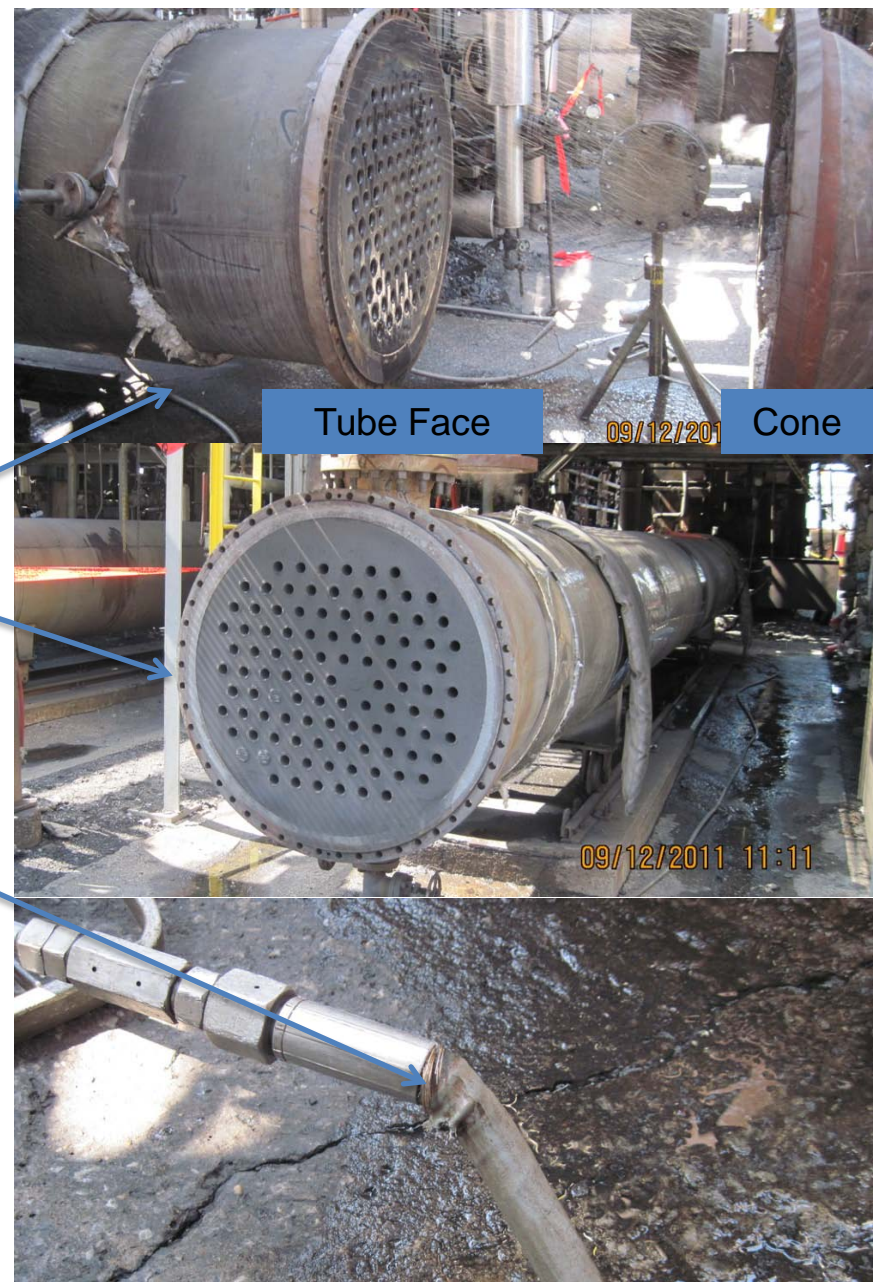
September 12, 2011

Presented By PSC

October 25, 2011



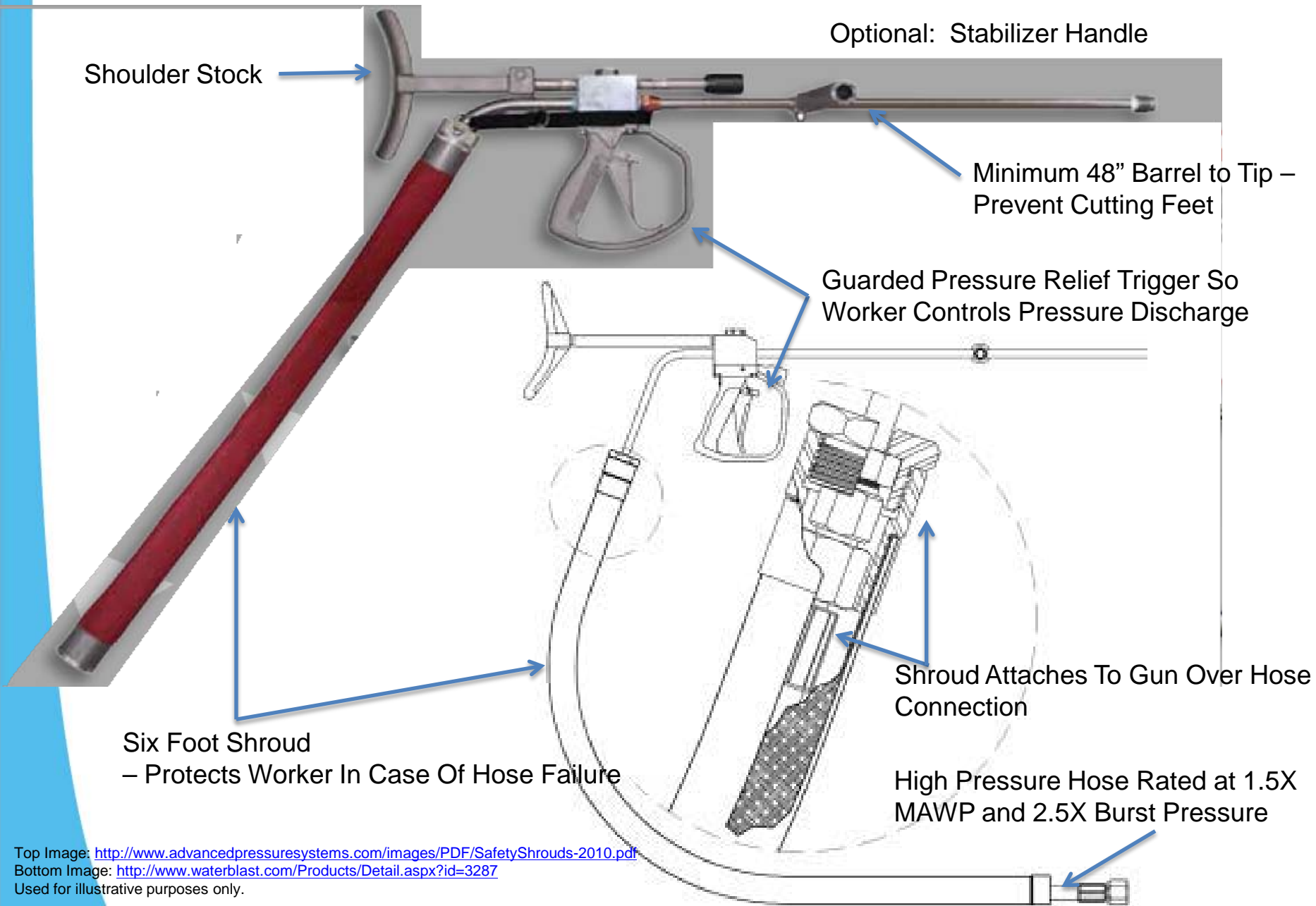
- Date: Monday September 12, 2011
- Job Start: Approximately 8:30 AM
- Time Of Incident: 9:00 AM
- Job Scope: Hydroblast TLE
 - Shotgun Cone, South Tube Face
 - Flex Lance Tubes From North End
- Task Being Performed: Shotgunning South Tube Face
- Direct Cause: Hose Failed At Crimp Connected to Shotgun
- Injury Scope: Water Cut Below Right Pectoral Muscle.
- Result: Employee passed away at 10:28 AM - Marshall County Hospital, Calvert City KY





- Injured worker - EE1 (Job Leader):
 - 8 Years PSC (2001-2004, 2007-Present). 10 Years Industrial Cleaning Total
- Co worker - EE2
 - 2 Years PSC. Over 13 Years Industrial Related Operator Positions
- Crew performed this specific job 2-3 times per week
 - Same equipment setup
 - Requested, well regarded by client
 - Both had received numerous local 'Safety Treasure Chest' awards for 'Above and Beyond' safety performance
- Pump: NLB #427 – Fitted With 20K PSI fluid end
 - No Indication Of Pump Malfunction
 - Pressure Relief Systems In Place

PSC Shotgun Safety Requirements





Long Term Direction

- Develop a robust mechanical integrity program for hydroblast pressure systems
 - Certification standards for all pressure rated components with a common identification system for each pressure
 - Maintenance and inspection standards to ensure safe use over equipment life (using 3rd party testing)
 - Upgraded procurement controls to eliminate non compliant equipment
- Review and modification of PSC's safety program
 - Specific opportunities for improvement anticipated in:
 - Field JSA design and job procedure communication
 - Observation process and field verification/validation of procedure compliance
 - Hazard identification and stop work program integrity
- Communications and Training
 - PSC training and worker certification by pressure rating
 - PSC training on SOP upgrades
 - Client training on key hydroblasting hazards and pressure system identification
 - Communicate to competitors and industry safety organizations