Safety SOP
Pipe Testing

Review Detailed Test Plan

- Verify the hazards associated with the pressure test –
  - ❑ **Hydrostatic/Pneumatic**
    - Understand the test and know your specifications
    - Test must be sufficient for the DESIGN pressure ranges
  - ❑ **Test Pressures**
    - Ensure pipe, valves, fittings, etc. are rated accordingly
  - ❑ **Temporary fittings, manifolds, hoses, PRVs, gauges, etc.**
    - TSCD devices must be approved and stamped by engineer (e.g., test tree)
    - Verify calibration and are installed according to the test plan
    - Rated higher than the maximum test pressure, per project specifications
    - Inspected prior to each test
  - ❑ **Barricades/Exclusion Zones**
    - Prohibit non-essential and unauthorized personnel
    - Verify barricade size is appropriate for the test (pneumatic versus hydrostatic)
  - ❑ **SIMOPS**
    - Communicate the test location and hazards prior to execution
    - Establish communication protocol prior to test initiation
  - ❑ **Pressure release/bleed down procedure**
    - Know what's being released (e.g., nitrogen, air)
    - Follow the discharge plan (e.g., ditch, tank, ground)

What Could Go Wrong?

- Temporary device/fitting failure
  - Incorrect sizes/ratings
  - Over pressurization
  - Plugs vs Welded Caps
- Incomplete test boundaries
  - Media leaks
  - Uncontrolled discharge
- Improper planning
  - Incorrect test pressure per design
  - Repair of leaks under pressure

- ✓ **How do we mitigate?...**
  - **ASK** Questions
  - Field Engineer, Superintendent, and/or FLS verification
  - Know your discharge plan
  - Verify approval from proper authorities prior to execution (i.e., QC signatures)
  - QC Documentation – Eliminate Re-work