

1.10 Hydraulic Cart Overpressure Accumulator Charging

Guidance

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This procedure has been prepared to cover the charging of the overpressure accumulator AC-1 with compressed air.

- 1) The Overpressure Accumulator AC-1 is a normally empty (empty of glycol) device that is charged on its compressed air side to a value of 250 psig. In normal operations below 200-psig, the 250-psig compressed air charge keeps the accumulator diaphragm on its stop. In the event of a modest static overpressure or a transient pressure spike, the accumulator will act to limit the pressure short of the relief value. This prevents fluid loss when using spring-loaded relief valves during commissioning operations, and prevents catastrophic pressure loss when using the buckling pin relief device that we use in actual running.
- 2) The Accumulator is charged through its top Schrader Valve MV-7 while observing the charge pressure on the pressure indicator PI-2.
- 3) Using the accumulator charging kit that provides a fitting to connect to the Schrader valve and a separate knob to depress the valve stem.
- 4) The accumulator charging kit is rated to 3000 psi, but for caution we operate it from a regulator. This allows us to slowly raise the pressure to the nominal 250 psig value.