

#### Detailed Sequence of Operations For Hydrogen Fill From Tube Trailer

1. Hydrogen supply to the facility's regulator/distribution control located in the protected (fenced) storage area is isolated from the facility by a valve pending a hydrogen chemical analysis for facility-specified acceptable hydrogen contaminants. Delivery site is setup with single connection point. Vendor service technician will isolate hydrogen supply to end user and tube trailer before removal/replacement of trailer.
2. Mobile tube trailer, with 26 tubes comprising a total volume of 750,000 liters (STP) of compressed hydrogen gas, is parked by vendor at the designated protected (fenced) hydrogen storage area outside of the facility.
3. Mobile tube trailer is hooked up to facility's regulator/distribution control that is also located in the protected (fenced) hydrogen storage area using non-sparking tools.
4. Hydrogen connection/valve checks of the tube trailer to the facility's regulator/distribution control are made as follows:
  - a. Vendor service technician performs connection, leak checks and delivers a conforming Certificate of Analysis (and notification of the absence of leaks) to a designated facility member. Service technician uses standard leak detection solution at point of trailer connection as well as the tube trailer distribution manifold to include all appurtenances on the back of trailer.
  - b. Designated facility member completes a secondary confirmatory leak test of all fittings using a liquid leak detector. Leak testing is performed using an approved product sold for this purpose. (It is noteworthy to mention that leak detection could not have detected or predicted the premature failure of the frangible disk. It is only useful for threaded connections.)