

RFQ for hydrogen fueling  
Naval Research Laboratory

The US Navy is seeking equipment to equipment to deliver 15,000 psi H<sub>2</sub>.

Specifications:

- Fits into one CONEX box. Storage: outside in box
- CONEX box is portable (DOT compliant)
- Must be able to deliver 50 kg of 99.999% H<sub>2</sub> at 15,000 psi within 3 hours continuous operation from a commercial H<sub>2</sub> delivery truck.
  - Port to truck is compatible with commercial systems from Air Products, Praxair, etc..
- H<sub>2</sub> Inlet pressure: 600 to 7500 psi.
- Provide adequate cooling to deliver the H<sub>2</sub> to storage tanks near room temp.
- Computer controlled, automated.
- COPV Storage tanks will have capability for monitoring temperature
- Ability to monitor pressure within  $\pm 5\%$  of 15,000 psi
- Movable vent stack.
- Flexible delivery lines with end connectors. Length TBD (estimate 20 ft)
- Compliant with relevant codes: NFPA 2, CFR, etc.

30 days after award: Conceptual design review

75 days after award: Final design review

6 to 9 months: system delivery (TBD based on equipment availability).