

UESI Hyperbaric Welding Chamber



ASME Section VIII Code Certified HOPV Vessel

UESI has been providing nuclear and commercial underwater wet welding services since the mid 1990's. In 2009, UESI had a custom, state of the art, hyperbaric welding chamber manufactured and certified to ASME Section VIII and all related diving standards. The UESI Hyperbaric Welding & Testing Facility provides in-house performance of welding qualifications, testing, mock-ups, material qualifications, etc. for UESI welding services.

UESI provides the following “at depth” underwater wet & dry hyperbaric testing and qualifications in accordance with AWS D3.6M and ASME Sections II, IX & XI Codes and Standards:

- Procedure Qualification Record (PQR)
- Welding Procedure Specification (WPS)
- Welder Performance Qualification (WPQ)
- Weld material mechanical and physical/chemical properties tests
- Research and Development testing of welding filler materials to depth limitations and performance
- R & D of dissimilar base metal welds to depth limitations and performance
- Mock-up and proof testing of welding and cutting operations (e.g. plasma arc cutting)
- Customized welding/cutting operation penetrations and Vessel operating safety functions
- Physical viewing and digital CCD camera recording to DVD of audio and visual
- Training and qualification services to external customers

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