

Suggested Recommendations for Cargo Tank Facilities

The following is a list of recommendations which can be provided to a cargo tank facility as part of the MCS-150 Part B.

- ! Ensure that no cargo tank is marked or certified as having passed a test or inspection unless it has successfully completed the test or inspection. [180.3(a)]
- ! Do not mark or certify a newly constructed cargo tank to the MC 306, 307, or 312 cargo tank specification. [180.405(b)]
- ! Ensure that any cargo tank which shows evidence of bad dents, corroded or abraded areas, leakage, or any other condition that might render it unsafe for transportation, is tested and inspected. [180.407(b)(2)]
- ! Ensure that any cargo tank which has been out of hazardous materials transportation service for a period of one year or more is subjected to a pressure test in accordance with 180.407(g). [180.407(b)(3)]
- ! Obtain a ASME “U” Stamp or National Board “R” stamp before performing repairs, modifications, stretchings, or rebarrellings to non-ASME cargo tanks. [180.413(b)(1) or 180.413(d)(1)]
- ! Obtain a National Board “R” stamp before performing repairs, modifications, stretchings, or rebarrellings to ASME Code stamped cargo tanks. [180.413(b)(2) or 180.413(d)(2)]
- ! Ensure that the quality control procedures used to obtain the “U” stamp or the “R” stamp are used when performing repairs, modifications, stretchings, or rebarrellings to non-ASME cargo tanks. [180.413(b)(1) or 180.413(d)(1)]
- ! Ensure that the quality control procedures used to obtain the “R” stamp are used when performing repairs, modifications, stretchings, or rebarrellings, to ASME Code stamped cargo tanks. [180.413(b)(5) or 180.413(d)(9)]
- ! Ensure that any stretching, modification, or rebarrelling is conducted in accordance with the correct applicable specification as set forth in 180.413(d)(3). [180.413(d)(3)]
- ! Ensure that any stretching, modification, or rebarrelling of a cargo tank is certified

by a Design Certifying Engineer. [180.413(d)(5)]

- ! Ensure that the cargo tank registration is updated when any information reported on the cargo tank registration changes. [107.503(d)]
- ! Before conducting cargo tank tests, inspections, repairs, assembly, or manufacturing, ensure that the facility is registered as specified in 107.503(c). [107.503(b)]
- ! Ensure that all cargo tanks have manholes conforming to 180.405(g). [180.405(g)]
- ! Ensure that if a reclosing pressure relief valve is replaced, it is replaced with a valve meeting 178.345-10. [180.405(h)]
- ! Ensure that all inspectors performing or witnessing a test or inspection on a cargo tank meet the minimum qualifications prescribed in 180.409. [180.407(a)(3)]
- ! Ensure that each external visual inspection is performed as prescribed in 180.407(d). [180.407(d)]
- ! Ensure that corroded or abraded areas discovered during an external visual inspection are thickness tested as prescribed in 180.407(i)(2), (3), (5), and (6). [180.407(d)(4)]
- ! Ensure that each internal visual inspection is performed as prescribed in 180.407(e). [180.407(e)]
- ! Ensure that corroded or abraded areas discovered during an internal visual inspection are thickness tested as prescribed in 180.407(i)(2), (3), (5), and (6). [180.407(e)(3)]
- ! Ensure that each lining inspection is performed as prescribed in 180.407(f). [180.407(f)]
- ! Ensure that each pressure retest is performed as prescribed in 180.407(g). [180.407(g)]
- ! Ensure that each wet fluorescent magnetic particle test is performed as prescribed in 180.407(g)(3). [180.407(g)(3)]
- ! Ensure that each leakage test is performed as prescribed in 180.407(h). [180.407(h)]

- ! If an EPA Method 27 test is being used in replacement of the leakage test, ensure that it is conducted as required. [180.407(h)(2)]
- ! Ensure that each thickness test is performed as prescribed in 180.407(i). [180.407(i)]
- ! Ensure that thickness test readings are taken from all areas prescribed in 180.407(i)(4). [180.407(i)(4)]
- ! Ensure that the suitability of each repair affecting the structural integrity of the cargo tank is tested as prescribed in the applicable specification or in 180.407(g)(1)(iv). [180.413(b)(6)]
- ! Ensure that for each repair done to piping or valves which does not involved welding to the cargo tank wall, the applicable parts are leak tested. [180.413(c)]
- ! Ensure that the suitability of each modification affecting the structural integrity of the cargo tank is tested as prescribed in the applicable specification or in 180.407(g)(iv). [180.413(d)(10)].
- ! Ensure that each record of a test or inspection contains all required information prescribed in 180.417(b). [180.417(b)]