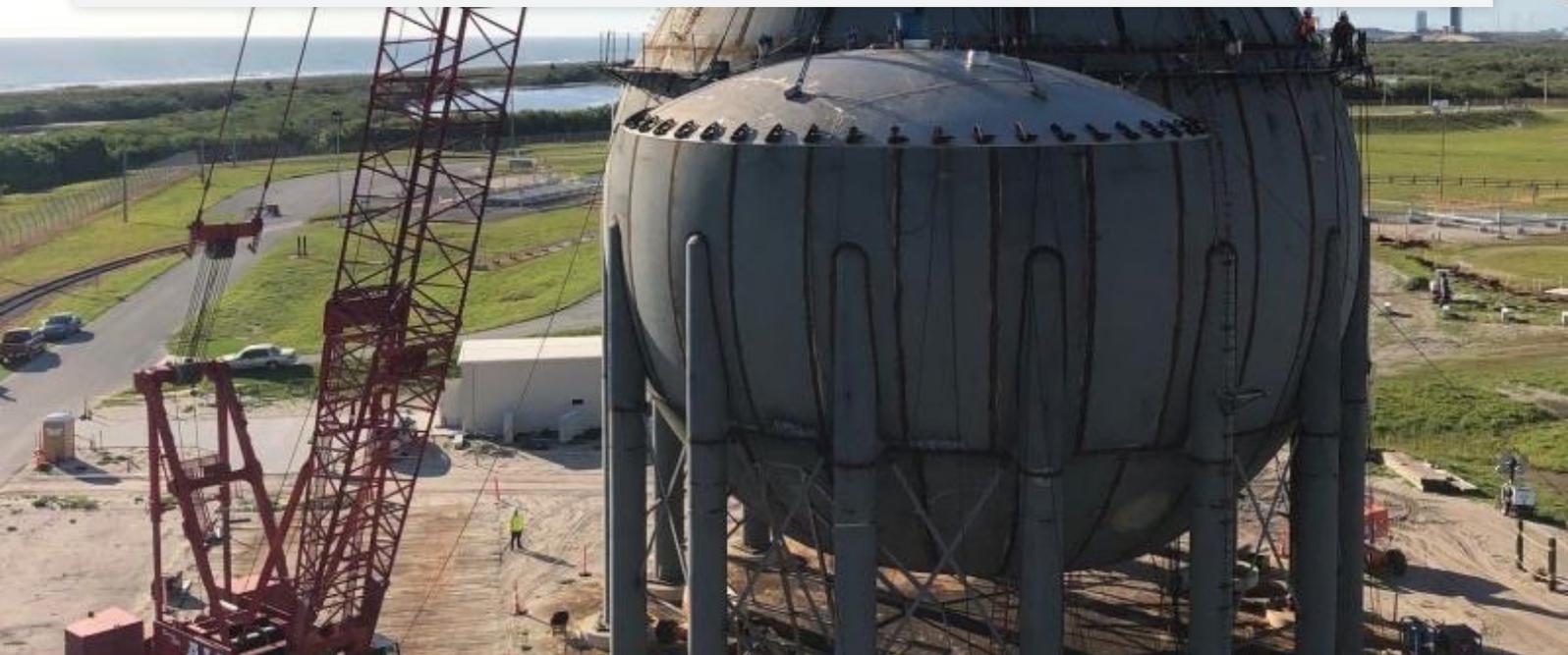


NASA SPACEX DOUBLE WALL SPHERE PROJECT



Elon Musk's space company, SpaceX has launched its first crewed mission, a test flight called Demo-2 which sent NASA astronauts to the International Space Station on a Crew Dragon capsule. It lifted off from Pad 39A of NASA's Kennedy Space Center in Florida. EnerMech was closer to the event than ever with a crew from our industrial services team who delivered a scope of work at the launch complex.

Client: CB&I

Year: 2020

Product/Service:
Industrial Services

Scope of work

EnerMech was awarded a contract by CB&I to perform the cleaning and passivation of the inner sphere of the liquid hydrogen (LH2) double wall sphere project including internal HEX tower, HEX tubing and pipework.

Project Delivery

The sphere is double walled, stainless steel and 72" in diameter. The team performed cleaning of the welded seams of the sphere, piping internals and externals as well as internal structures. The work will be executed in two phases.

Phase one: The team carried out the cleaning and passivation of the inner distribution ring, the walls of the interior sphere (equator, lower hip, upper hip and top plates), the HEX tower and associated apparatus and supports, the 12"x107' N2 Pipe and the exterior of the HEX tubing.

Phase two: After a successful phase 1, the team will carry out the cleaning and passivation of the insides of the installed pipework and the HEX tubing, the walls of the lower plates of the inner sphere. They will then dry the inner sphere and the associated pipework to -40°F.

Key Benefits

The team delivered incident and injury free services with no impact to the environment.

The quality of work and HSE performance met CB&I and NASA's standards.

Compliance with ASTM A967 & A380

Provided experienced, trained and competent personnel to perform the service.

The work was prioritized and aligned to NASA's key milestones.

CB&I was pleased with the safe execution of the work and commended our proactive focus of the team and the ability to mobilize at short notice.