



MOLTEN SALT TANK REPAIR

CLIENT - Confidential
LOCATION - Southwest U.S.
COMPLETED - April 2021

DESCRIPTION

Matrix Service was contracted for the two-phase major tank repair of an existing molten salt tank. Phase one was to lift the entire tank above the ground to remove the tank bottom and foundation in preparation for total replacement (phase two). This first phase included installing 32 jacking frames and 68 drill shaft piles into the ground up to 44' deep.

The tank bottom, initially installed by another contractor, has failed twice since construction in 2011. The client provided a new foundation and tank bottom design for Matrix to install.


In the midst of the repair project, on May 15th, 2020 a 6.5 magnitude earthquake occurred near Tonopah. Surveyors were brought out and determined there had been no movement or damage detected due to the structures solid construction.

PRINCIPAL FEATURES

- Lifted 700-ton, 1 3/4" thick stainless steel molten salt tank
- 200,000 lbs. of steel beams for jacking frame assembly
- 32 synchronized jacks system for lift
- At 700-tons, this is the most substantial Matrix tank lift to date

700  Lifted 700-ton, 1 3/4" thick stainless steel molten salt tank

Salt tank stores salt at 1,050 degrees  **1,050°**

6.5  A 6.5 magnitude earthquake occurred near Tonopah and was found not to have affected the repair structures integrity

32 synchronized jacks were used to create the system for the lift  **32**

200k  200,000 lbs. of steel beams were used for jacking frame assembly

At 700-tons, this is the most substantial Matrix tank lift to date

FOR MORE INFORMATION:
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