

# USA: PALO VERDE GENERATOR REPLACEMENT 1ST TRANSPORT

PROJECT	EQUIPMENT	WEIGHT
POWER	MODULAR TRAILERS / GANTRY LIFTING SYSTEM / BARGE / H/L SHIP / SPMTs	810 TON EACH

Fagioli was contracted to carry out the transportation of 2 of the heaviest Steam Generators ever built from Ansaldo's manufacturing facility in Milano, Italy to the Palo Verde Nuclear Power Plant in Arizona, U.S.A. The first part of the project was the transportation of the No. 2 generators which were transported in 4 sections from Milano to Venice. Maximum weight was 550 tons and was transported by a specially designed convoy made by hydraulic platform trailers carrying each of the generator sections by a Schnabel structure.

The length of the convoy was 100 metres which consisted of 480 wheels. Each section was then rolled on a special heavy duty barge to be transported to Venice where Fagioli H/L ship offloaded them onto Self Propelled Modular Transporters for the final part of the transport to the assembly shop. Upon completion each generator was set onto a transport frame specially designed by Fagioli for the further part of the transport. Together with the frame each generator weighed 810 tons. The generators were lifted onto Fagioli's own ship 'Storman Asia' using the ship's gears and transported from Venice to the Mexican port of Guaymas where they were loaded on to Self Propelled Modular Transporters prepared for boarding an offshore deck barge.



The barge moved the load to the docking facility designed by Fagioli to offload the steam generators using the tide cycles.

The barge moored at the jetty by high tide and intentionally grounded. Releasing of sea fastening and roll-off of both RSGs took place within 2-3 hours of the barge being grounded.

The 2 sets of SPMTs used to offload the 2 RSGs were then reconfigured by installing turning tables at each end of the transport frame. The convoy was then ready to travel 110 Km through Mexico and over 300 Km in the United States to the Nuclear Power Plant in Arizona. Part of Fagioli's scope of work was to participate in the engineering/design necessary for road modifications as well as obtaining the necessary permits. The duration of the project from the first survey to the beginning of the operations was 4.5 years. The Transportation of both generators from Italy to Palo Verde over a distance of approximately 17000 Km took 2 months..

