

# Transportation and Erection of the R-1602 Reactor

**Client:** North Atlantic Refinery Ltd (NARL)



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In early 2006 Fagioli PSC USA was contracted to transport and lift a reactor by NARL. The refinery is near Come by Chance, Newfoundland and is completing clean fuel requirements with the addition of this reactor, R-1602. Weight was 300 tons and height 33.5 metres. Fagioli PSC USA transported the reactor from Mumbai, India to Come by Chance on a heavy lift ship. On March 9th the ship offloaded the vessel onto 24 axles of SPMTs for the 2km journey to the preparation area in the refinery.

A tower system, 36 metres high, with a single L450 strand jack was prepared to lift the reactor while it was being dressed out. The reactor was moved to the foundation on April 5th, The next day a test lift to 110% of actual weight took place and the lift commenced immediately thereafter.

A Manitowoc 2250 crawler crane was used to build the tower system and tail in the reactor. The lift was completed in 2½ hours.



**Above:** Reactor being lifted by Fagioli PSC Tower system



**Left:** Reactor on its journey to the refinery



The crew consisted of Fagioli members from Italy, the U.K. and U.S. Work was carried out during winter in Newfoundland with blizzard conditions the day the ship was offloaded. High winds prevented the crane from operating several days but the crew pushed on and saved the client several days on the project schedule.

**Left:** Heavy Lift ship offloaded the vessel onto 24 axles of SPMTs



**Left:** Reactor being transported in winter conditions  
**Below:** Reactor fully erected

