عنوان مقاله:

Floating and subsea installation of an ultra-large diameter sea water intake pipe line

محل انتشار:

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خلاصه مقاله:

A 360,000 BPSD condensate refinery in Bandar Abbas is being carried out by Persian Gulf Star Oil Company, located in Iran, where a seawater intake system was designed to supply 200,000 cubic meters clean waterfrom 1500m offshore by 4×2.7m diameter steel marine pipelines for cooling purposes. Hence, sea water would becollected at the basin through four steel pipes of 2.7m inner diameter and 22mm thickness which were connected together as a 600m string. The length of the pipeline route is approximately 1.4km, including two strings of 600meters and shore approach line of 130m. Although, this was a huge and a high risk project due to the pipeline’s material and its ultra-large dimensions, it was carried out with the most safety and reliability. All activities related to floating and subseainstallation, including offshore tie-ins between two individual strings has successfully completed by Delta offshoreTechnology in just a few hours that was much less than as the client expected. This paper investigates the floating, installation and flooding processes of the marine pipelines, focusing on challenges and the intellectual solutions to tackle effectively the problems based on several different analyses.

کلمات کلیدی:

sea water intake, pipeline, ultra-large diameter, installation, offshore tie-ins