

A B S T R A C TCORROSION CONTROL OF AN OFFSHORE PLATFORM ON
THE EAST COAST OF TRINIDAD

Davanand Ragoonath

Corrosion control measures and their success impact in no small way on the maintenance costs and consequent profitability of companies operating in an environment where corrosion is a major factor.

This study was undertaken to determine the extent of corrosion of the offshore platform structures on the east coast of Trinidad, and to identify and analyse the various corrosion control measures that are necessary for maintaining the integrity of the structure in the most cost-effective manner.

Corrosion rates were determined by exposing several corrosion coupons of structural carbon steel at various locations on the platform. Coupons were also placed at locations away from the marine environment for comparison purposes.

The results obtained indicate that the marine environment on Trinidad's east coast is a very harsh one

and compares with any of the other severe marine environments in the world.

With such a highly corrosive environment therefore, the importance of implementing the appropriate corrosion control measures as well as the proper protective and monitoring systems, assumes greater significance. Such measures and systems have been identified and discussed in this study as well as the need for maintaining proper corrosion control records. In this regard, the need for a computerized system has been identified, so as to allow more effective management of the entire corrosion control system.