



Client : TOTAL

Project manager: TOTAL service

Contractors: Freyssinet

Years:

Planning: June 2010 Works: second half of 2011

Principal features:

Prestressed concrete platform Length: 220 metres Width: 46 metres Only offshore site to produce LPG

Background

TOTAL owns a floating prestressed

concrete oil platform off the coast of

The platform was built in Marseille in

On 30 January 2010, a logistics ship

struck the exterior wall on the

starboard side of the platform due to a

Following the collision, TOTAL wished to carry out a structural assessment of

the wall to determine the condition of

the prestressed concrete and define

the various operations required in the

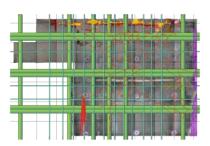
short and medium term in order to

Pointe-Noire in the Congo.

wrong manoeuvre.

secure the platform.

1994 and was towed onto site.



Technical assessment of prestressed concrete hull girder subjected to shock

Carrying out of the diagnosis of a prestressed concrete hull girder of an operational oil platform.

Determination of the short term operations required to secure the structure and recommendation of actions to take in the medium term to ensure the durability of the structure.



Diagnosis of a prestressed reinforced

concrete wall



DIADES' task

DIADES carried out an assessment with LERM, which involved:

- Defining the methodological procedure for carrying out the investigations and the diagnosis.
 - Inspecting the offshore platform to: o detect all the interior and exterior pathologies affecting the
 - damaged area.
 carry out specific radar investigations to determine the internal fracture parameters.
- Carrying out a summary report defining the operations required in the short term and recommending the actions to take in the medium term.

Industrial Structures

Z64

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