



SPECIFICATION NO: 2013, Rev. 1

TITLE: Functional Specification for Concrete Weight Coating for Submarine Pipelines

Following amendments/additional requirements shall be applicable:

1.0 Refer Clause No. 11.0, Inspection and Tests

Add the following at the end of the clause as new requirement:

SHEAR TEST (PUSH-OFF TEST)

Shear test shall be performed on cured concrete coated pipe. Once the coating has achieved initial cure, a base plate shall be fitted to the face of concrete and cemented in place, taking care to avoid any air gap. On the pipe itself, a flange shall be welded in place to support the lifting jacks. A series of hydraulic jacks shall be placed between the flange and the base plate. Gradually the force is increased in steps, with a holding period of one (1) minute. Dial gauges are attached to the concrete jacket shall be monitored for any movement.

Pressure shall be increased until a minimum acceptance criteria of 0.3 Mpa is achieved. The test shall be continued until the maximum safe working pressure of hydraulic jacks is achieved.

Push off Test set up shall be submitted to the Company for approval and shall include details of safety measures to be taken to avoid injury to personnel.