

Job Reference

CLIENT: Major Oil Company in U.A.E.

DATE: June 2009

LOCATION: ICAD CITY, Abu Dhabi, U.A.E.

EQUIPMENT: Buried Gas Pipeline



PROBLEM: Underground Gas Transfer Lines originally coated with a “Bitumastic” Tape Wrap system. During service the pipes move underground an action caused by expansion and contraction of the pipe, this action causes damage to the Wrap System from abrasion and subsequently exposes the pipe to direct contact with the surrounding desert sand and corrosive chloride elements which if allowed to prevail will cause the pipe to corrode.

SOLUTION: Existing wrap system has been removed manually and is then “Grit-Blasted” to SA 2.5 with an anchor profile of 75 to 80 Microns using Garnet B as a medium. The pipe is immediately cleaned with the use of 1st Grade ACETONE and followed with a single coat of SolarSeal Resin Primer to a WFT of 250 to 300 Micron. The primer coat of SolarSeal is then cured using natural UV Light (Sunlight). Once cured the blast profile is fully protected from further contamination. A 2nd coat of SolarSeal Resin is applied and the SolarTech Type VE55 applied immediately as a “wet on wet” application. This is then cured as previously and following a full cure the top carrier film is removed and the whole system coated in a final top-coat of SolarCoat resin and cured.

WHY SOLARTECH? In contrast to the Bitumastic Type Wrap systems SolarTech offers a cured protection that has excellent adhesion to the steel substrate i.e. pipe. Offering excellent corrosion protection from surrounding conditions, abrasion resistance from pipe movement due to it’s high glass content and chemical resistance due to it’s Vinyl Ester composition.



Damaged Bitumastic Tape Wrap System



SolarTech application



Completed application