

Corrosion Technology Services (Holding company of CORRPRO COMPANIES MIDDLE EAST)

By Steve Wroe, Managing Director CCME/CTS

I am pleased to send you this, our second copy of eNews. We intend to make issue of our news sheet a more regular event in the future! 2005 was a year of progress for CTS. We had successes in NACE courses in 2005 for three of our staff and five more staff will be participating in the CP Level 2,3, and 4 courses to be held in Spring 2006. We have been concerned of widely varying standards in the industry are investing considerable resource into training so that we can provide an improved service to our customers with staff with international recognised certification. We are also pleased to welcome Ross Fielding, previously of Impalloy, UK and BAC, UK and Engineering Manager in the UAE. Ross brings a wealth of experience in both industrial and sacrificial projects.

We have continued to introduce the CTS brand following a launch in Abu Dhabi in spring 2005 with approvals from the major UAE operators for our company. We have also started to trade in territories new to us including Libya and Iran under the CTS name.

We were pleased to exhibit at the 5th Libyan Corrosion Conference held in Benghazi during November 2005 – a chance to meet old friends and review the market there. We shall also be exhibiting at the NACE Corrosion Conference in Bahrain to be held from February 26th – March 1st and we hope to see you there.

There is a lot of project activity in the region at present and I am pleased to see that CTS group companies are doing well in this. We have had successes in a number of major projects recently and I am particularly pleased to see further acceptance of cathodic protection as a means of preventing corrosion of steel in concrete. CTS lead the way in the region and probably the world in the application of these techniques and we have several features in this eNews issue.

Thank you for your continued support – best wishes for 2006.

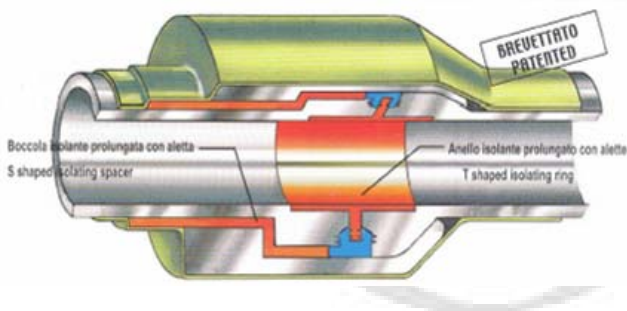
OUR NEW PARTNERS

We are proud to announce that CCME & CTS now represent **M/s PROJINT Italy & M/s NUOVAGUINGAS s.r.l.** Italy throughout the entire Middle East region as agents and distributors. These companies are the world's leading manufacturers of monobloc insulating joints for Cathodic Protection of Oil, Gas and Water Pipelines.

- ❖ Both manufacturers have State-of-the-Art manufacturing facilities using precise computerized tools and robotics. Projoint is in the process of relocating to a new purpose-built factory.
- ❖ Product range starts from 1" to 130" dia. size pipes.
- ❖ ISO Certified.
- ❖ Inventors of monoblocs in 1957 (Projoint – formerly Prochind)
- ❖ More than 30 years of manufacturing experience and proven track record.
- ❖ Impressive client reference list including ADNOC, ARAMCO, NPCC, SHELL, PDO, NIGC, EIL, BECHTEL, AGIP, SAIPEM, EXXON ,QP, etc.
- ❖ Patent designs and products.

At the Bahrain Conference, we will be introducing the new, patented NGx/C joint featuring improved double seal gaskets and extended internal longitudinal insulation which helps to prevent breaching of the joint by debris and improves resistance to internal stray current corrosion.

NEW NGx/C MONOLITHIC ISOLATING JOINTS for pipeline anti-corrosion protection system



CTS EMERGING AS MAIN CP CONSULTANTS AND LEAD AUDITORS

CTS increased its consultancy and audit workload in 2005 with a number of varied contracts being awarded and completed. Some of the prestigious projects include:

- Audit (Survey and Investigate) of complete Cathodic Protection System for Tank Farms and Plant in Saudi Arabia, Jordan and Iran covering over 400 tanks.
- Audit and Site Investigation of Sultan Qaboos University gas pipeline distribution.
- Consultancy Services for Concrete Rehabilitation at Abu Dhabi Refinery and Marine Oil Terminal (Takreer)
- FEED Works for vessels, pipeline and gas gathering networks in Qatar, UAE and Pakistan

CTS JOINS OGD III TEAM

CCME / CTS has been awarded contracts as a specialized vendor from M/S Snamprogetti and M/S NPCC on the prestigious OGD III project. Scope includes: Site Survey, Detailed Engineering, Supply of Materials, Installation Supervision, Testing & Commissioning of Cathodic Protection System of Tanks, Pipelines and Concrete Structures for GASCO OGD III & AGD II Ruwais 3rd LNG Train and Condensate tanks for Takreer.

ENTERING INTO NEW VENTURES

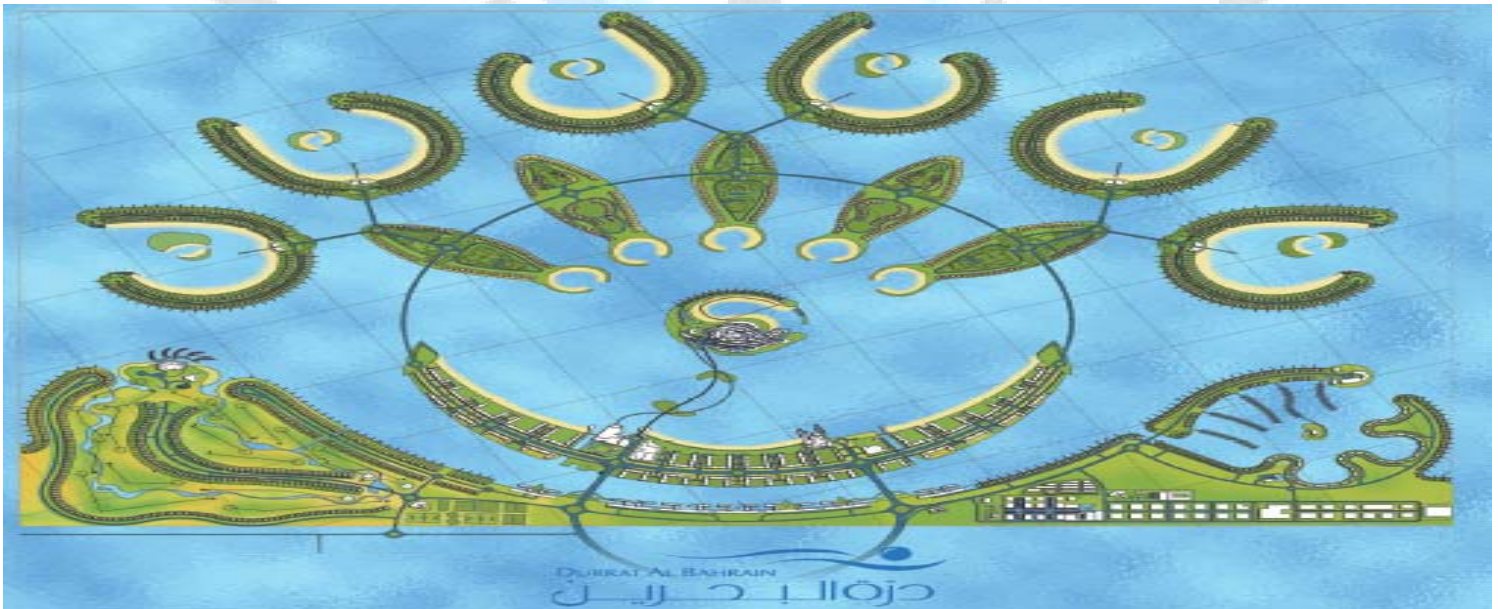
Durrat Al Bahrain is jointly owned by the Kingdom of Bahrain's Government and Kuwait Finance House (Bahrain). It is named after the most perfect pearl and sets out to be a model city resort of life as it should be in the 21st century. The character and design of Durrat Al Bahrain will reflect the highest quality of design principles and will set a new standard for urban development in the Kingdom.

This 20sq.km. seaside city resort, located on the south coast of Bahrain, will include 13 different islands with over 2,000 villas, more than 3,000 apartments, luxury hotels, restaurants, promenades, shopping centres, spas, a planned marina, and a proposed golf course among its many sports facilities. Plans for ongoing development will evolve according to the city's needs and wants.

The 13 islands are joined together by 13 architectural bridges with a total length of approximately 3.5km. Towards the end of 2005 the construction of the bridges was awarded to Nass – Murray and Roberts joint venture at a contract value in excess of US\$50 million. In order to afford a long design life the bridges were specified with a Cathodic Protection system to protect reinforcement of the bridge soffits, the pile caps and abutments for 75 years. Corrosion and Technical Services, Bahrain (part of the CTS group of companies in the Middle East) were awarded the design, supply and supervision of the Cathodic Protection Systems.

The Concrete Group of CTS delivered the design in Early January and construction of the bridges started in February 2006. The systems are based on mixed metal oxide coated Titanium ribbons installed in the reinforcement cages prior to concrete pouring. The system will be powered by a state of the art power and monitoring system linked to a Master Control Hub by the developments' optic fibre network. All monitoring and adjustments of the systems will be possible locally at each bridge, at the Master Control Hub on the main land, or via a broad band internet connection from anywhere holding access clearance.

CTS were able to undertake this prestigious project as a result of their unrivalled experience in the Cathodic Protection of New Reinforced Concrete. Based in CTS's Saudi and Bahrain offices the Concrete Group have undertaken more New Construction Cathodic Protection projects than any other company world wide. With construction underway the first bridge system is scheduled for commissioning in October 2006 with other bridges following through 2007.



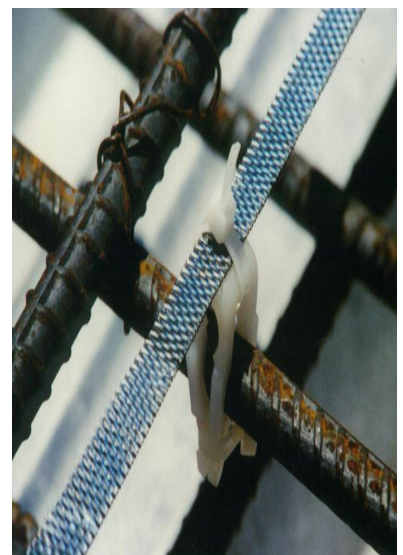
SHARING OUR KNOWLEDGE

How to rehabilitate deteriorated steel reinforced concrete structures and prevent corrosion in new steel reinforced concrete structures.....we have a solution:

Corrosion of steel in concrete is a huge problem in our region. A combination of high temperatures and a saline environment makes the problems we see more acute than in most of the rest of the world. As a solution to this problem, cathodic protection has been used successfully for protection of submerged reinforcement for over fifty years and for above grade concrete structures since 1973. This is now considered by many to be the preferred technique to arrest chloride induced corrosion of reinforcing steel. This endorsement is given by most public bodies and standards organisations. The US Federal Highways Authority has even stated that cathodic protection is the only effective way to prevent reinforcement corrosion in structures already under attack. The total installation of this technique now extends to approximately 2,000,000 square meters in over thirty countries around the world over the past 25 years.

Cathodic Protection is an economic solution to the problem. For new-build, it offers economic advantages over stainless steel reinforcement and technical advantages over external coatings, epoxy coated and galvanised reinforcement.

CTS have experience with a wide range of cathodic protection projects – Bridges, Sea Water Structures, Cooling Towers, foundations and Buildings. Cathodic protection, like any other technique can suffer from poor design and application. Our team have the experience and tools in the form of proven anode and power/monitoring systems to provide maximum reliability and cost effective solutions.



More information on CTS' products and services or registration for this Newsletter can be obtained through Mobeen Hassan, Regional Marketing Manager
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