

The Corrosion Centre

10 Enterprise Court
Crosland Park
Cramlington
NE23 1LZ

t: +44 (0) 1670 736662
e: scm@stratcorrman.com General Enquires
sales@stratcorrman.com Sales Department

The Corrosion Centre

PO Box 38
Lowestoft
Suffolk NR32 3WB

t: +44 (0) 1502 530 525
f: +44 (0) 1502 531 014
e: scm@stratcorrman.com General Enquires
sales@stratcorrman.com Sales Department

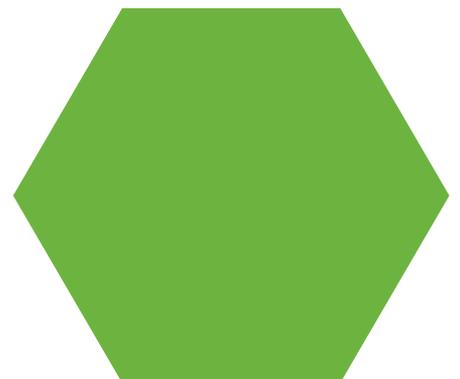
Part of the **tci** group



www.stratcorrman.com



Your Corrosion Protection







Strategic Corrosion Management is a world leader in all aspects of corrosion, coatings, PFP and insulation management having developed a range of tools, techniques and products tightly integrated with the needs of our clients, whilst providing the back-up and support necessary to operate at maximum efficiency

Originally launched as the TCI Group in 1980, the company provides Asset Integrity, Corrosion and Fabric Maintenance Consultancy and Inspection Management services.

Our services support the Oil & Gas, Energy, Manufacturing and Process sectors both on and offshore around the world.

SCM offers the following specialist services and products:

- ▶ **Consultancy & Training (Fabric & Corrosion)**
- ▶ **360integrity Framework Deployment**
- ▶ **Arbitration, Expert Witness, Condition Monitoring,**
- ▶ **Failure Analysis & Lab Testing**
- ▶ **Material Selection and Project Management**
- ▶ **ECMS_Lifetime / Annual – External Corrosion Management Service**
- ▶ **The Effectiveness Audit – An Asset Integrity, Corrosion and Fabric Maintenance Management Assessment**
- ▶ **RISCm™ – Fully Integrated Integrity, Corrosion and Fabric Management System**
- ▶ **RISCm™(FM) External Corrosion & Fabric Maintenance Management System**
- ▶ **SafeMark(tm) Pipe Contents Markers**
- ▶ **Insulation Inspection Ports (IIP's)**





Introducing 360°integrity

We coined the term **360integrity** to describe the requirements for a holistic, easily implemented and robust 'Integrated Approach' to integrity management. **360integrity** integrates Component, Corrosion and Fabric maintenance into a single, controllable management toolset.

SCM has created **360integrity** to 'wrap-around' a facility offering asset managers the chance to 'deeply' influence its potential to be corrosion-risk-free, perhaps for the first time ever.

What is 360°integrity?

By bringing together ALL of the information already available about plant condition, regardless of its source, and integrating it in a way not possible before, asset managers can draw from it remarkable and normally unavailable intelligence about:

- ▶ External & Internal Corrosion
- ▶ Corrosion & Maintenance Strategies
- ▶ Safety Case Protocols
- ▶ Financial, Safety and Environmental Constraints
- ▶ Plant Life Expectancy & Process Expectations

It also brings together disparate data about surface conditions, metallurgy, CUI potential and future maintenance plans, inspection data, corrosion trends or any combination of these factors.

Modelled on ISO 55000 management philosophies, the purpose of **360integrity** is to allow better and more timely decisions to be made about critical and non-critical situations, then prioritise, plan, budget and schedule works to minimise costs and get the greatest reward from maintenance expenditure. The support for modern standards and HSE requirements allows users of **360integrity** to generate 'Objective Evidence' of complete corrosion control.





At the heart of the 360integrity concept is RISCm™ (Risk, Integrity & Strategic Corrosion Management).

The RISCm™ style of management is of huge value when inspection resources are stretched or plant availability is low. Here 'RISCm™' can be used to determine where best to deploy resources most efficiently. A contemporary use for RISCm™ is in 'Near Miss Analysis' – where failures on other facilities may be modelled to determine similar risks on current plant.

Tying together 'Component, Corrosion and Fabric Maintenance Management' as RISCm™ does, we get the most attractive and effective means to implement a 'Corrosion Management Strategy' - whatever that might be. There are few (if any) corrosion threats that cannot be modelled in RISCm™, yet it requires a much reduced operator skill set than necessary for any other system, allowing personnel to quickly become familiar with it, while still ensuring consistency across the system and promoting confidence in its outputs.

RISCm™ delivers the ability to:

- ▶ Accurately define plant corrosion condition
- ▶ Manage plant integrity
- ▶ Plan and control the inspection and maintenance works cost-effectively
- ▶ Select the right people, techniques and materials for maintenance
- ▶ Maintain corrosion management traceability
- ▶ Implement, control and monitor the Corrosion Management Strategy
- ▶ Manage the Integrity/Cost model for targeted plant life
- ▶ Develop 'Objective Evidence' of Corrosion Control and Safety Considerations



Working closely with Industry and by incorporating the requirements of regulatory standards **RISCm™** has incorporated all of the day-to-day requirements of an operator or engineering contractor, to manage corrosion and corrosion prevention.

RISCm™, a fully specified 'Risk, Integrity and Strategic Corrosion Management' system incorporates the following modules (available in combination):

- ▶ **Component Manager**
- ▶ **Corrosion Manager**
- ▶ **Fabric Manager**
- ▶ **Threat Manager**
- ▶ **CUI Manager**
- ▶ **+ A number of specialist tools (Transits & Pens, Valves, Supports & Hangers etc.)**

Capitalise on previously developed systems and documentation

Where you have already made an investment in the development of procedures, systems, specifications, databases, drawings, criticality assessments and other integrity tools, **RISCm™** can incorporate and apply them, or data may be developed fresh from site and drawing surveys, or data mined from inspection records etc.

RISCm™ should be considered a HUB application and a number of other specialist suppliers and tools can be successfully integrated. This offers facility stakeholders the opportunity to select the best available services and products contributing to cost effective integrity management control.





The 'External Corrosion Management Solutions' are specifically designed to support on-and-offshore facilities in managing their corrosion challenges

What is ECMS?

ECMS offers single-source delivery of external corrosion management and the control of fabric maintenance. **ECMS** can deliver cost-effective corrosion management solutions to fulfil many objectives: lowest risk, lowest cost or limited to pressure systems etc. The solutions have broad flexibility. The solutions come in two flavours, Lifetime where **SCM** offer a 'Cradle To Grave' fully managed service, and Annual where we develop and inject maintenance support on a year by year basis. Asset managers may mix-and-match or transfer between these services at any time offering huge flexibility in how they manage and finance their maintenance programmes.

Why ECMS?

External Corrosion eats away a huge percentage of corporate revenue and has been a source of worrying and frustrating challenges for asset managers. Increasing safety standards and reduced maintenance budgets have squeezed many maintenance programmes to the point of being ineffective or inadequate. Since **ECMS** incorporates all of **RISCM™** and (where appropriate) **360integrity** the process is a 'turnkey' method of taking cost effective and efficient control of maintenance projects. This integration of the **SCM** tools allows **ECMS** to demonstrate where maintenance can be safely eliminated, deferred or reduced, in a transparent and rational way.

ECMS work-scopes are highly cost-effective and can clearly demonstrate 'Objective Evidence' or your corrosion control and mitigation whilst predicting, quantifying and documenting the external corrosion challenges your plant faces, now and into the future. Your asset manager can quickly grasp control of corrosion and maintenance using a simple and easily understood tool, with **SCM** support and input at all stages.





SCM offer **The Effectiveness Audit**, which is an Assessment, Review and Presentation package tailored specifically to your own company needs and considering your current 'corrosion and integrity management philosophy'.

The Effectiveness Audit

Our external review concept has already been proven to offer between 5 and 85% cost reduction over plant lifetime for many clients.

The audit is split into 2 sections (available separately): External Corrosion & Fabric Maintenance Management and Asset Integrity and Corrosion Control. Over 1, 2 or 3 days for each section an experienced **SCM** consultant will document the significant aspects of your integrity, corrosion and fabric maintenance management, assessing the following areas of business;

- ▶ **Inspection and Asset Control Strategy**
- ▶ **Refurbishment and maintenance specifications**
- ▶ **Business objectives**
- ▶ **Stakeholder expectations**
- ▶ **Life expectancy**
- ▶ **Capital refurbishment programme**
- ▶ **Planned plant changes**
- ▶ **Past integrity and maintenance success' and failures**
- ▶ **Process type, environment and legislation**
- ▶ **Financial and material resources**

Then for your review:

- ▶ **Develop a cost effective route forward**
- ▶ **Present the findings to your Management Personnel**
- ▶ **Recommend a growth path to realise all potential benefits**

Our assessor will talk with your site and managerial staff, in addition to reviewing your documentation and written procedures. We aim to identify each step in your integrity, corrosion and maintenance process, comparing the results you achieve to those you anticipated. The plant is walked to compare current condition to that anticipated from documentary/personnel interviews.

Finally, if desired, we anonymously benchmark your programme against many other organisations who have developed effective integrity and corrosion management processes, and consider the potential benefits to your facility.

