

Use **SAM**[™] for even greater control of CUI scope

Corrosion under insulation (CUI) is an ongoing concern in the industry, and various industry innovation programs have been launched to tackle the problem. In addition to primary innovations addressing insulation and coatings, a clear need has also arisen for practical inspection and management tools.

SAM[™] is an online tool for managing the condition of coatings and painting operations. SAM[™] is a database-driven application for monitoring corrosion and managing the application of coating systems, fireproofing and insulation. A single point of access allows both contracting and inspecting parties to take joint responsibility for improved CUI monitoring.

With SAM[™], customers now have a full overview of all assets and components in use throughout their factory, installation or platform. All plumbing, equipment and metal structure drawings can be imported into SAM[™], ensuring availability of information and providing an accurate overview of the CUI scope: the components requiring maintenance, the applicable product specifications and the necessary access.

SAM[™] is the result of years of experience with companies who use their own spreadsheet systems to manage corrosion protection. The documentation of maintenance rounds was largely decentralised, often using paper reports that stood in the way of effective monitoring.



“The solution: BRAND[®] have partnered with software provider **SAM[™] to offer a simple web and tablet based digital application to manage Fabric Maintenance Campaigns.”**





Client-specific implementation

When choosing SAM™, the client's system is configured in advance. SAM™ is tailored to customers by dividing sites into levels, and levels into zones. Once these have been created, it is possible to zoom in on an individual zone and the assets to be assessed within it. Each client can also set various background preferences and list values, such as the use of the Ri or Re scale to measure degrees of coating degradation. When entering each asset, values can be entered for asset type, paint supplier, coating system and access method, along with other parameters such as location, installation date, maintenance dates, surface area to be treated, and the percentage of blasting treatment required (heavy/light blasting). Further details can be entered under material data, such as the type of insulation or fireproofing applied. Non-destructive testing (NDT) results can also be recorded. The tablet version of SAM™ enables easy on-site asset photography during the various stages, so that images can be stored in the database and the accompanying records added immediately. You don't even need to be online – the system will synchronise the data automatically later.

Step-by-step monitoring

Depending on how the entire CUI process is organised, customers can carry out the initial inspections and add values (in Re or Ri)

themselves. In subsequent steps, both the inspector and coating specialist will add further data to SAM™. During the pre-treatment stage, the start date, initial condition and quantity of coating degradation on the asset are recorded. The coating specialist's foreman will specify which operations were carried out, and sign them off. Next, the inspector will use the list of items to carry out specific tests, enter the results in SAM™ and log the stage as complete.

This method, which involves repeated step-by-step monitoring by the inspector and concludes with final checks by the customer themselves, also applies to the following stages of the coating process per asset: Surface Preparation, Coating and Final Inspection.

Inspection reports are generated automatically on the status of an asset, both in advance and following the painting operations. The SAM™ inspection reports can also be exported and linked to work orders in the customer's ERP system.

Dashboards & reporting

Reports can be generated based on a variety of filters, such as Asset, Zone, Asset Type, Scheduled Year and Dates. In SAM™, dashboards are created automatically to ensure a rapid overview of all data collected during the inspection process, and provide real-time insight into CUI progress.

Many customers are using SAM™, and are very satisfied with the increased access to real-time data. The software is suitable for asset integrity management both on and offshore. And development hasn't stopped: new releases will incorporate improvements to both functionality and the user experience.

