

# Corrosion Under Insulation

## Delivering Single Source Solutions

Brand Energy & Infrastructure Services (BRAND®) multi-service portfolio is perfectly tailored to deliver Corrosion Under Insulation (CUI) solutions. When our portfolio is matched with our 50 years of coatings experience and CUI program development, assessment and project execution, our capabilities are unparalleled in the industry. BRAND's experience and expertise includes program development, risk assessment and project execution. We support clients in the development of grass root programs, facility CUI surveys and project execution.

Backed by an extensive multi-skilled workforce and cross-trained supervision, BRAND can help reduce clients' investment costs by increasing productivity and reducing overhead expenditures. As a part of our

proactive approach to CUI management, our field and technical teams are highly trained and certified according to local accreditation bodies, with additional solution specific training where appropriate. Our specialists have advanced knowledge in CUI identification and mitigation and are trained on work practices for in-service equipment. BRAND leverages its CUI management know-how to build lasting partnerships with clients, ensuring their CUI management program goals are exceeded.

### CUI Service Offerings

- › Scaffolding
- › Containment
- › Insulation removal/installation
- › Surface preparation
- › Coatings/TSA
- › Inspection/integrity surveys



**more safety**  
**more productivity**

# CUI Services

## The BRAND® advantage

Uniquely positioned as a leader in providing integrated specialty service solutions, BRAND has the expertise and experience to unite the necessary services that are required to provide clients a successful CUI management program that delivers significant cost savings.

**BRAND offers the following expert CUI services:**



### Special Scaffolding Access & Containments

In CUI Management situations, special scaffolding structures are often required to stage equipment and provide workers the access they need to work in cumbersome locations. Most commonly, CUI is found on piping and process equipment. Scaffolding structures can be erected to meet any access requirement and in a variety of structure configurations. Successful CUI management projects often require the use of encapsulated containment structures to prevent blasting overspray and maintain optimal atmospheric conditions for surface preparation and coating applications.

### Removal/New System Installation

When CUI is located, it is necessary to remove the existing insulation from the affected piping or equipment so that the surface area can be prepared and thoroughly cleaned. Upon completion of the surface preparation and coating, it is then necessary to re-insulate the surface area with the appropriate new insulation system.



### Lead and Asbestos Abatement

Often times in situations where CUI is present, lead is found to be present in the paint coatings of piping or equipment, and/or asbestos is found to be present in the insulation that is being removed. In such cases, it is necessary to have abatement specialists that are trained in the proper procedures for abating the affected piping or equipment remove the hazardous materials.

### Coatings and Thermal Spray Application

There are a variety of coating applications that can be applied to the cleaned and prepared surface area of piping and process equipment in CUI situations. The most common is a thermal spray application (TSA). This type of application requires specialized equipment that applies a film of aluminum to the substrate. Various epoxy based coatings may also be used for this application.



### Surface Preparation

In situations where CUI is present, it is necessary to properly prepare and clean the exposed surface area of piping or process equipment after the existing insulation system is removed. The most common method of surface preparation and cleaning that is used for this process is abrasive blast cleaning. Once the piping or process equipment surface area is prepared and cleaned, the proper coating application can be applied. acoustical jacketing, ASJ (All Service Jacketing), weather barriers (mastics) and vapor retarder.

### Inspection

One of the most important elements of a successful CUI management program is the proper inspection of existing insulation systems. Trained professionals are able to locate potential CUI problems so that the proper repairs can be made in a timely fashion. Inspection methods include spot removal of insulation and non destructive testing of metal integrity. Additional phases of inspection include quality control hold points, quality assurance procedures and documentation.

**more safety  
more productivity**

> best in class safety performance

> specialty team of ~40,000 People

> 30,000+ customers ... and growing

> ~340 locations in 25 Countries

> revenues of nearly ~\$5b

> assets & equipment worth ~\$4.2b

Why BrandSafway?

## Unique combination of expertise & resources

We are part of **BrandSafway**, a leading global provider of access, specialised services and forming & shoring solutions to the industrial, commercial and infrastructure end markets. With more than 340 branches all over the world, we provide support for ongoing maintenance as well as for refurbishment needs and new construction plans.

**As one strong team, we support our customers:**

- > **Brand Energy & Infrastructure Services** is one of the world's largest industrial services specialists;
- > **Brand Access Solutions** is the UK's largest full-service provider of scaffolding and access systems;
- > **Hünnebeck** stands for safe and highly efficient formwork, scaffolding and safety technology.



# Case Studies

## A major gulf petrochemical complex



### Texas, United States

A very large Petrochemical Complex on the Houston Ship Channel chose BRAND® as their managing contractor for a long-term, dedicated CUI project. We were selected because, as their on-site painting and insulation contractor, we would provide the majority of the project man-hours and because we had proven management tools and personnel to accurately budget, schedule and report progress to the owner project team. During the course of the project, BRAND's employees were recognized for proactively reporting and mitigating several potentially hazardous conditions exposed during the execution of their work. The majority of our work was performed on piping and equipment that remained in service during the operation. As managing contractor, we were responsible for the coordination of all site contractors who contributed to the project. Because of the success of this project, it has been selected by the owner as the benchmark for similar ventures at their other Global locations.

## A major gulf chemical plant



### Texas, United States

BRAND undertook a major CUI project at a prominent Gulf Coast Chemical facility. Two 250+ foot towers were scheduled to be worked on simultaneously for CUI maintenance during a 28 day outage. BRAND was responsible for stripping all of the existing insulation, blast cleaning all exposed surfaces, applying Thermal Spray Aluminum (TSA) to all surfaces and reinsulating the towers. The application of TSA required special scaffold design and the construction of kick-outs to facilitate the safe staging of the bulky TSA equipment at staggered heights on the tower structure. BRAND also provided full encapsulation of the towers to prevent the escape of fugitive blast residue which could affect other personnel working in the area and potentially damage adjacent equipment. The containment was also necessary because the work area required dehumidification to preserve the very demanding quality of surface preparation necessary for a successful TSA application. BRAND completed this highly critical project on time, within budget, and with zero safety incidents. This was the first project of this kind at the owner's site and our success established us as the contractor of choice on future projects of this nature.

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