

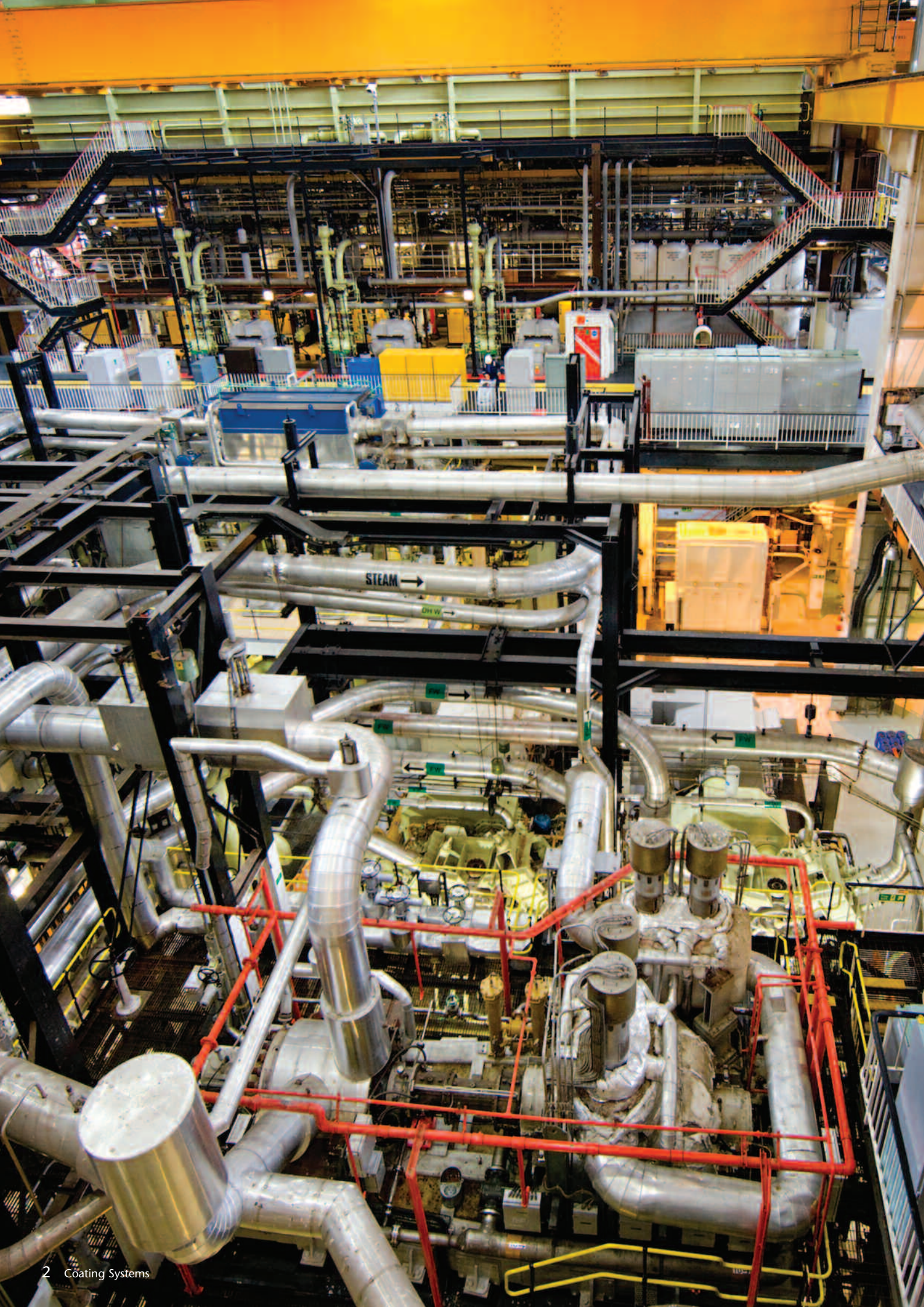
Coating Systems

Excellent  
Power & Industrial  
Solutions

**WEHR**  
POWER & INDUSTRIAL

The Comprehensive  
Coatings Service Provider  
to Industry





# Weir Power & Industrial Coatings specialises in the application of high performance protective linings and coatings.

We have an extensive portfolio of techniques and products, providing specialist surface protection services to many industries.

## Comprehensive Solutions

Coating Systems have the solutions and technology to maintain process performance of existing plant and in many cases extend plant life, protecting equipment from corrosion and fatigue.

Our expertise is applied to a wide range of equipment including:

- Tanks and storage equipment
- Large and small bore pipework
- Pumps and rotating equipment
- Valves and associated control devices
- Concrete structures
- GRP pipes and tanks

## Dedicated Facilities

- Heated facility 70m x 20m (15,000ft<sup>2</sup>)
- 10 ton overhead crane
- Lathe, milling and horizontal/vertical boring machines
- 12m gritblast room with specific grit compartments
- 6m x 3m curing oven
- 14m spray booth

## Specialist Products

Coating Systems have developed an extensive range of linings and coatings. Our range of systems offer solutions tailored to resist corrosion and abrasion, which provide flow enhancement in pump and pipe applications to increase efficiency of hydraulic flow passages and their components.

We prepare and apply fusion bonded systems (via temperature-controlled ovens), centrifugal sprayed linings to internal pipe bores and conventional application of thick and thin film glass flake, polyurethane and epoxy systems.

All industries are provided with unrivalled support, expertise and experience. Our unique portfolio of surface treatments are tailored to re-engineer and restore worn pumps, valves, pipework and associated critical plant to their original specification.

*Epoxy powder coated valves and pumps.*



*Multi-stage borehole pump bowls receiving potable water approved glass flake lining.*

*Large 12m gritblast preparation booth optimised for achieving efficient cleaning and surface profile.*

*Potable water grade lining of non-return valve destined for Middle East pipeline.*

*Glass flake lined ECW pipework destined for nuclear power station.*



# High integrity surface protection delivered on site or in our specialist facilities.



Typical Power Station Turbine Hall where years of experience have been gained working in confined and high cleanliness areas of plant.

## Field Service

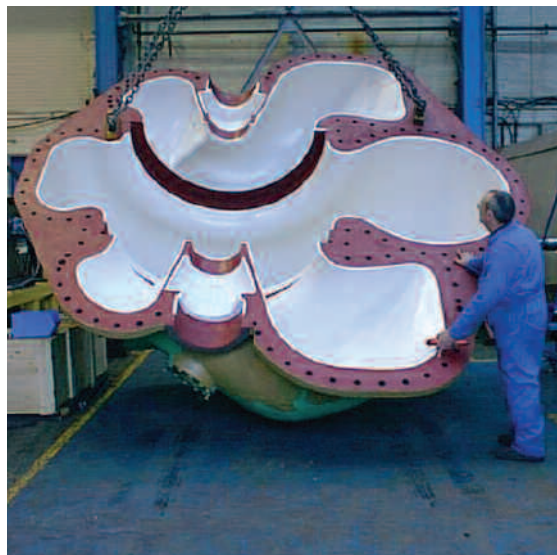
Our nationwide teams of highly trained coating process engineers provide many industries with the very latest preparation techniques, sophisticated application equipment and advanced inspection equipment. This minimises programme times, shutdowns and provides engineers with onsite support throughout the contract.

We focus on the contract defined particulars and critical functions through:

- A site specific risk assessment
- Detailed method statements, quality and environmental control plans
- Progress monitoring and reporting
- Quality manpower and resources
- Setting key performance targets
- Providing after-sales support and maintenance

Improvements in efficiency and project lead time, as well as enhanced performance (which provide long term life cycle cost savings) are often a result of our initial assessment of the process conditions and review of the protection specification.

78" MCW pump after complete overhaul and re-line with glass flake system.

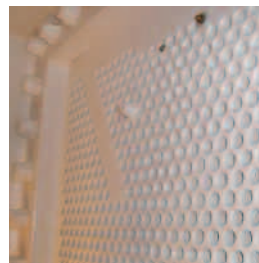


## Workshop Service

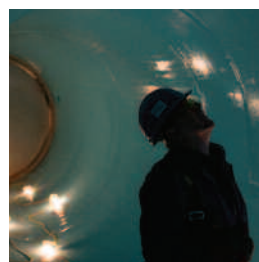
Within our network of workshops, we provide complete overhauls of rotating and flow control equipment and have the skills to apply a wide range of protective coating systems to suit all industries.

- Glass flake filled linings
- Fibre reinforced plastic linings
- Sheet and liquid rubber systems
- Elastomeric polyurethane
- Epoxy and novolac epoxy
- Fusion bonded systems
- Tanks
- Pipes
- Pumps
- Valves
- Concrete protection
- Corrosion protection
- Erosion protection
- Cavitation protection
- Surface reclamation

Condenser Tubeplate after glass flake Protection.



Completing the inspection of epoxy lined Hydro Power Station Penstock.



# Health and Safety, Quality and Environmental Management Systems operate in a regime of continuous improvement and industry best practice.

## Environmental Control

We are committed to reducing the impact of coating and lining materials on the environment and we are accredited to ISO14001. This assures customers that our knowledge and expertise selects only the products and process techniques that will provide high performance protection as well as safeguarding the environment for future generations.

## Health and Safety Management

Our comprehensive management system provides every aspect of site and workshop safety. Every site-based contract is issued with a specific documented control package which ensures assessment of risk and highlights the necessary control measures. Workshop manuals maintain a high level of safety facilitated by regular audits to ensure the most effective control measures are in place.

Extensive employee training, awareness and equipment maintenance are constantly monitored as part of our ongoing commitment to a safe working environment for all our employees, customers and work colleagues.

## Quality Service

Providing a competitive service while maintaining engineering excellence is at the forefront of our approach to quality. Efficient practice and utilisation of state-of-the-art processes allows us to maintain consistent quality and supports our accreditation to ISO9001.



Large pump bowl/chamber receiving abrasion resistant powder coating.

Pump Bellmouth receiving erosion, abrasion and corrosion resistant Weir protect lining system.



Split casing pumps awaiting preparation prior to efficiency coating.



Environmental monitoring station within the coatings workshop.



Power station waterbox after complete recoat and post machining.



Accredited to ISO Standards 9001, 18001 and 14001.

# Weir Power & Industrial Coating Systems provides a comprehensive protective coating service to all areas of Power Generation, Petrochemical and Oil and Gas industries.



Services are provided via our Field Service Teams and network of state-of-the-art workshops throughout the UK.

## Benefits

The Coatings Business is equipped with a dedicated fully trained and security vetted team of engineers geared to respond at short notice and provide pre-planned outage services.

Our commitment to safety and quality combined with a track record and reference list underlines our expertise and experience when maintaining and extending the life of critical plant and equipment.

## Power Generation

### ■ CW system

- Condenser water boxes and coolers
- CW system pumps and valves
- Puddle pipes and strainers
- Large and small bore pipework lining

### ■ Water treatment plant

- Cation and anion vessel lining
- RFW tank lining and painting
- Chemical floor and bund protection
- Pipework lining and painting

### ■ Hydro plant

- Spiral casing and draft tube
- Penstock lining and painting
- Guide and stay vane protection
- Storage tank and associated services

### ■ FGD systems

- Flue gas ducts
- Treatment and storage tanks
- Concrete and steel protection systems
- Repair programmes and services

### ■ Specialist materials

- Glass flake vinyl ester Systems
- Efficiency enhancement systems
- Metal enhancement systems
- Elastomeric abrasion/impact and erosion resistant
- Cavitation resistant ceramic epoxy and polyurethane

## Petrochemical, Oil and Gas

### ■ CW system

- Condenser water boxes and coolers
- CW system pumps and valves
- Large and small bore pipework lining

### ■ Fuel and chemical storage

- Large oil/solvent and fuel storage tanks
- Effluent and treatment tank lining and painting
- Chemical/acid/alkali floor and bund protection
- Pipework lining and painting

### ■ Specialist materials

- Glass flake vinyl ester and epoxy systems
- Epoxy novolac laminate and reinforced systems
- Metal enhancement systems
- Elastomeric abrasion/impact and erosion resistant
- High temp resistant ceramic epoxy and polyurethane



Typical unlined coastal power station CW pipework.

CW pipework treatment in process.



Sulphuric acid tank lining and coating for conventional power station water treatment plant.

Internal and external pipe painting.

## Coating Systems

Winnington Avenue  
Northwich  
Cheshire  
CW8 4FT  
England

Telephone: +44 (0)1606 782255  
Facsimile: +44 (0)1606 871631  
Web: [www.weirpowerindustrial.com](http://www.weirpowerindustrial.com)

Part of The Weir Group PLC  
Web: [www.weir.co.uk](http://www.weir.co.uk)

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