



RemedyAP Ulladulla Lighthouse Case Study

REMEDY-ASSET-PROTECTION WARDEN-HEAD-LIGHTHOUSE

The lighthouse had multiple defective coating layers providing under-film corrosion that had gone unnoticed. RAP was able to identify the extent of corrosion damage and implement an action plan to rescue the structure.

Clients request:

To remove lead-based paint, treat corrosion & apply a new protective coatings system.

Reasoning:

To protect the structure from corrosion.

Risks:

- Lead-containing paint
- Damage to the Environment
- Working at heights (Difficult geometry vs ergonomics)

Requests:

Provide the Department with detailed inspection reports and a final inspection to verify practical and final completion stages.

Solution:

RAP developed a detailed repair specification enabling the Department to enforce strict project controls and thus avoid unsatisfactory workmanship. The project required full coating removal and application of a new coating system based on Australian Standard 2312.1 PUR5 to provide 15-25 year durability.

This cast iron structure has a mix of lap and butt joints and well as overlapping surfaces and rivets all presenting many areas where a new protective coating will strain and prematurely split. RAP identified this and initiated a joint sealing program to supplement the coating system consisting of marine fairing compounds and elastomeric polyurethane sealants.



Outcome:

This structure was in dire pain and the coatings acted to obscure the true condition of the steel where under-film corrosion was severe. The project commenced as a repair however quickly became a refurbishment. It was decided to expand the project to include the whole structure rather than the external when the extent of hazardous coatings was realized.

This became a rescue of the structure due to the severe corrosion and through collaboration of:

1. → Remedy AP being
 - To properly assess the structure and build a robust coating specification to not only halt the degradation but to improve the structure.
 - To provide site expertise and inspection which enhanced the outcomes for the Department and Contractor.
2. → The Department was adaptable to changes in the scope of works and was supportive of our role in enforcing the specification.
3. → The Applicant for their willingness to adhere to the specification and provide an outstanding outcome.

"This is a wonderful example of the heritage conservation achieved by the contractor, KGB Protective Coatings and Remedy AP consultancy. As clients, the Department of Industry is extremely satisfied with the result."

Ron Mann | Senior Engineer Coastal

Department of Industry - Lands & Water | Maritime Infrastructure Delivery Office

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