



CASE STUDY

BRISBANE AIRPORT RUNWAY HIAL STRUCTURE

RESTORING CRITICAL MARINE INFRASTRUCTURE IN AN OPERATIONAL AIRPORT ENVIRONMENT

IPCQ was engaged by Brisbane Airport Corporation to complete restorative coating works to the Runway 19R High Intensity Approach Lighting (HIAL) Marine Structure. The project involved corrosion remediation and protective coating application to critical steel infrastructure supporting airfield lighting systems, ensuring the structure continues to meet its intended 50-year design life while operating within a highly regulated airport and marine environment.



PROJECT SNAPSHOT

CLIENT

Brisbane Airport Corporation

LOCATION

Brisbane Airport, Queensland

SCOPE

Protective Coatings Restoration

VALUE

\$430,000.00

DURATION

October 2024 - December 2025



PROJECT HIGHLIGHTS



**OPERATIONAL AIRPORT
ENVIRONMENT**



**ENVIRONMENTAL
COMPLIANCE**



**MARINE
INFRASTRUCTURE**



**HIGH QA
REQUIREMENTS**



**WORKING OVER
WATER**



**BAC CEO SAFETY
AWARD NOMINATION**

PROJECT DELIVERY



**ZERO
SAFETY
INCIDENTS**



**50-YR
DESIGN LIFE**



**2-COAT
PROTECTION
SYSTEM - C5 SPEC**



**\$430K
PROJECT
VALUE**

CLIENT TESTIMONIAL

“IPCQ demonstrated strong technical capability and attention to detail, including proactive identification and rectification of defects to achieve a high-quality and durable finish. Health, safety and environmental performance was a key strength, achieving zero safety incidents in a high-risk environment.”

- KYLE MCARDLE

Project Manager - Civil
Brisbane Airport Corporation



ESTABLISHED 1971
50+ YEARS OF
EXPERIENCE

**YOUR PARTNER IN SAFE, EFFECTIVE &
QUALITY CORROSION CONTROL SERVICES**

PROTECTING CRITICAL AVIATION INFRASTRUCTURE

The Runway 19R HIAL Structure forms a critical component of Brisbane Airport's airfield lighting infrastructure. The project required specialist corrosion remediation and protective coating works to be completed within a highly regulated operational airport environment while maintaining stringent environmental, safety and quality requirements.

01



THE CHALLENGE

The project required restorative coating works to be completed within a complex marine and operational airport environment.

- Working over water & tidal zones
- Maintaining airport operational safety requirements
- Strict environmental protection controls
- High QA and inspection requirements
- Corrosion remediation in a severe marine environment
- Accessing elevated and restricted infrastructure

02



IPCQ SOLUTION

IPCQ implemented specialist corrosion control methodologies aligned with Brisbane Airport Corporation's safety, environmental and quality standards.

- Detailed project-specific safety and rescue planning
- Environmental and containment controls for environmental protection
- Low-pressure water washing and surface preparation
- Spot blasting and whip blasting of deteriorated coatings
- Application of C5 corrosion protection coating systems
- Comprehensive QA and inspection documentation

03



OUTCOME

IPCQ successfully restored protective coating systems on critical Brisbane Airport infrastructure, supporting long-term asset performance, safety and operational reliability.

- Protection of critical HIAL infrastructure
- Supporting the intended 50-year design life
- High-quality coating restoration outcomes
- Zero safety incidents throughout delivery
- Environmental compliance maintained
- BAC CEO Safety Award nomination