

ENGINEERED GRP ACCESS

Barakah Nuclear Power Plant GRP Access Infrastructure

Bespoke GRP platforms, walkways and modular handrails for safety-critical energy infrastructure in the United Arab Emirates.

SECTOR

Nuclear and international infrastructure

LOCATION

Barakah, Abu Dhabi, United Arab Emirates

SYSTEM

Access platforms, walkways and handrail

CLIENT

Barakah Nuclear Power Plant project

01 THE CHALLENGE

Durable access for a demanding infrastructure environment.

Barakah is the United Arab Emirates' first commercial nuclear power station. Access components serving operational and maintenance areas required dependable material performance, repeatable assembly and a delivery model suited to a major international programme.

Vital GRP supplied a coordinated package of bespoke GRP access platforms, walkway systems and modular key-clamp handrails. The lightweight composite solution reduced corrosion exposure and future maintenance compared with conventional steel access components.

02 THE SPECIFICATION

The product features that helped.



Barakah Nuclear Power Plant infrastructure context.

Bespoke geometry

Platforms and walkways were configured around the access and maintenance interfaces identified by the project team.

Modular guarding

Key-clamp handrail components created a consistent guarded route across the supplied access infrastructure.

International delivery

The package combined coordinated fabrication with a lightweight system suited to transport and assembly overseas.

03 DELIVERY

A coordinated composite package for a major energy programme.

The work brought together GRP profiles, flooring and modular handrails as a single access-system response. Component-based fabrication supported quality control before dispatch and reduced the amount of heavy handling associated with an equivalent steel package.

04 THE OUTCOME

What the project delivered.

The completed package provided corrosion-resistant pedestrian and maintenance access while extending Vital GRP's delivery record into nuclear and international energy infrastructure.



Barakah site development context in the United Arab Emirates.

Project information and assurance

Standards and assurance: Project-specific nuclear-site requirements, approved component specification and controlled fabrication information. Evidence note: Vital GRP international project record, completed project. Location: Abu Dhabi, United Arab Emirates.

YOUR NEXT PROJECT

Planning an international GRP access package?

Send the access scope, site requirements and delivery constraints. We can help coordinate the proposed package.

Discuss an international access project

Explore the system and its application

All projects

Sector expertise

Products and systems