



Navy Vessel ATLANTE

RFC Commissioning

Project Description

- Commissioning support for rotating frequency converters (RFCs)
- Electrical field testing on asynchronous/synchronous machine system
- Independent technical field consulting by INP Schweiz



The ATLANTE, built by Fincantieri for the Italian Navy, was equipped with rotating frequency converters based on asynchronous motor and synchronous generator configuration. INP Schweiz was brought in to provide field testing and commissioning support.

Role & Scope

RFC system commissioning and validation

- No-load and load tests of the RFC system
- Verification of CT settings and measured values
- Temperature sensor validation (windings, bearings, airflow)
- Support for wiring inspection and insulation testing
- Coordination with customer engineers and system vendor
- Documentation of findings and technical clarification

General Project Contribution

- On-site technical advisor for electrical testing
- Interface between customer and vendor during functional tests
- Issue analysis and clarification of discrepancies in machine measurement setup

Highlights & Benefits

INP Schweiz brought valuable external perspective and structured engineering methodology into a complex commissioning environment. By combining system-level understanding with practical field know-how, we helped identify hidden issues and contributed to a safe and successful Harbor Acceptance Test. The customer specifically appreciated the neutral, focused support and the clarity we brought to the technical process.

Technical Component Details

- Asynchronous machine (motor) on shared shaft with synchronous generator
- Fixed-frequency input/output, driven from onboard ship grid
- Hitzinger RFC (Rotating Frequency Converter) system
- Integrated into marine power automation via hardwired/bus interfaces

REFERENCE



Customer: **Fincantieri SI**



Location: **Castellammare di Stabia, Italy**



Project Duration: **3 weeks**



Services:
Technical assistance and validation testing for rotating frequency converters (RFCs) aboard naval vessel

"This project is a great example of how INP Schweiz can make a real impact – even in specialised environments that go beyond our usual scope. Our ability to adapt and deliver results was key to the customer's satisfaction."

IVO, DIVISION MANAGER
INP SCHWEIZ AG