

## **The F110 frigate's electric propulsion motor and converter pass their shock tests**

**3rd February 2025.** – On November 28, the barge shock tests of the electric motor and frequency converter of the F110 frigate's propulsion were successfully completed.

Following the shock tests completed in October for the diesel generator, the main switchboard and the fuel purifier module, these tests complete all the tests planned to be carried out on barges for the F110 Program propulsive system.

Once again, the tests were carried out on the barge "Shock Test Vehicle STV02" that Thornton Tomasetti Defence Ltd (TTDL) uses for this type of shock tests at the Limehillock facilities (Scotland).

The success of this tests highlights Navantia's capacity to qualify the ship's equipment against the most demanding levels of combat survivability and confirms the capacity of its supplier Ingeteam for the design and manufacture of electrical naval propulsion equipment, both frequency converter and electric motor, these being capable of withstanding adverse external conditions, maintaining the required operating conditions.

The work team included representatives from Navantia and TTDL, as well as Ingeteam, manufacturer of the equipment tested. Representatives from the Ministry of Defence, the F110 Programme Office of the Directorate General of Armament and Material (DGAM) and the North American company Element, which acts as a third party for Defence, guaranteeing the correlation between the test carried out in Scotland (British regulations) and the one to be carried out in the USA (MIL regulations), were also present.

All the equipment subjected to the barge shock tests in Scotland has been transported by sea and returned to Navantia's shipyard in Ferrol, from where they will be sent to their respective factories of origin for reconditioning and additional factory tests.

### **About Navantia:**

*With a history of over 300 years linked to the construction of ships for the Navy, Navantia is a public and strategic technology company for the defense of Spain. Its areas of specialization range from naval construction (surface and submarine) to the design and integration of high-tech systems and life cycle support and high value-added services. Additionally, with its brand Navantia Seanergies, it is a global provider for the development of offshore wind energy and other green energies such as hydrogen.*

#### **COMMUNICATION DIVISION**

Carolina Jiménez: ✉ [cjimenez@navantia.es](mailto:cjimenez@navantia.es) ☎ +34 600 90 55 18

Esther Benito: ✉ [ebenito@navantia.es](mailto:ebenito@navantia.es) ☎ +34 690 10 92 43



*Navantia employs around 4,000 people directly in Spain, mainly at its sites in Ferrol and Fene (A Coruña), Puerto Real, San Fernando, Cádiz and Rota (Cádiz), Cartagena (Region of Murcia), and Madrid.*

*Committed to building a secure and sustainable future through technological excellence and industrial collaboration, Navantia has contracts with governments and companies around the world and ties with universities and technological and academic centers. Due to its social responsibility as a public company and as a driving force for an entire industrial ecosystem, it contributes to sustainability and innovation with its daily commitment to people and the planet, with responsible practices from a labor, environmental, and economically and technologically viable development perspective regionally, nationally, and internationally. It is 100% owned by the Spanish State Industrial Holdings Company (SEPI, attached to the Ministry of Finance and Public Administration of Spain).*

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Carolina Jiménez: ✉ [cjimenez@navantia.es](mailto:cjimenez@navantia.es) ☎ +34 600 90 55 18

Esther Benito: ✉ [ebenito@navantia.es](mailto:ebenito@navantia.es) ☎ +34 690 10 92 43