

PRESS RELEASE

SENER and Babcock commemorate the end of the AB-212 helicopters life extension program for the Spanish Navy

Madrid (Spain), 29 May 2019 - The engineering and technology group [SENER](#) and [Babcock](#) have put the final point to the [life extension program](#) (PEVH AB-212 in its Spanish acronym) for the Third Squadron of the Spanish Navy, in a ceremony held at FEINDEF, the international defence and security exhibition (Madrid from 29th to 31st May), in front of one of the seven AB-212 that are part of this program, exhibited at SENER's stand in FEINDEF. In the ceremony, Spanish Admiral Chief of Staff of the Navy (AJEMA) Teodoro López Calderón, SENER Vicepresident Andrés Sendagorta, and Babcock Spain CEO Ángel Rodero, took part.

During the event, Teodoro López Calderón referred to the experience accumulated in recent years in the development of this program (AB 212), which will allow projects of similar characteristics to be undertaken with greater guarantees, which may even mean the opening of a line of business within a broader business strategy.

Likewise, Andrés Sendagorta of SENER declared "This is a program carried out in a model way between the Spanish Navy, the Ministry of Defense and the industry, in which our engineers have been able to fully interact with the end user and, therefore, have a firsthand knowledge about the client's needs. In this way, we have been able to provide the best solutions in a fully collaborative environment. In short, the commitment assumed by SENER and Babcock has led to the delivery of a well-finished product to the Navy. "

Finally, Ángel Rodero from Babcock stressed that "This program has been a source of pride for Babcock Spain, for our helicopter Maintenance and Modernization Center in Albacete and for our Engineering Department for having been able to lead, together with our partner, the industrialization of a complex program by its very nature, but also by the effort we have all made to ensure that the Third Squadron continued to fulfill its mission wherever it was required during the execution of the Program itself. I firmly believe that the Spanish industry has been up to par with the support of the DGAM and the Navy, and that this Program is also a very good example of the essential alignment of industrial capabilities and military capabilities, which ultimately require our Armed forces".

Advanced equipment and avionics

Under this program, carried out in a joint venture by SENER and Babcock, the PEVH AB-212 program has meant the upgrade and deliver to the Spanish Defence Ministry's General Armaments and Materials Department (DGAM in its Spanish acronym) of seven Spanish Navy AB-212 helicopters that became operational in 1974. Thanks to the addition of advanced equipment and avionics, the Navy has been able to extend the useful life of its seven helicopters by at least 15 years and now has an upgraded squadron capable of operating on several Navy vessels undertaking low and medium range missions, unrestrictedly within controlled air spaces, both military and civil, in compliance with all requirements under the new regulations, including IFR operations.

The life extension program has given them new features such as surveillance radar, EO/IR Vision system, self-protection and self-defense systems (ballistic protection, MAWS, and a Gatling type defensive weapon), GPS navigation system with moving map and TAWS, and rescue hoist. The old navigation and instrument systems has been replaced by a new full glass cockpit, NVG compatible, and

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integrated with new mission systems. Additionally, it has been upgraded the communications systems and electrical distribution system, including new inverters and old wiring replacement.

As part of the Joint Venture, SENER has carried out the global management of the program, and has centralized the design and integration engineering works, providing all the necessary documentation for the manufacture and installation of the modification, as well as all the necessary analysis and evidences for certification and, in particular, safety analysis. SENER has also been responsible for the production support, definition and validation of the development and functional verification tests, as well as the solution of incidents detected during the certification phase.

In turn, Babcock's Design and Certification team has been responsible for the design and integration of certain systems, as well as the industrialization process and ground and flight certification tests. Babcock has also been in charge of the National Aerospace Technical Institute (INTA in its Spanish acronym) certification process. To that end, Babcock's Design and Certification team has succeeded in obtaining new certifications from INTA that will enhance military aircraft operations, with the option to fit armor plating as well as military tactical communications. Among other features, these new certifications also include improved full glass cockpit and an acoustic warning that improves operational safety over water.

The upgrade has taken place at Babcock's Aeronautical Maintenance Center in Albacete (Spain), a global benchmark in modification of both civil and military fleets.

About SENER

SENER is a private engineering and technology business group founded in 1956. Its aim is to offer its clients the most advanced technological solutions and to achieve international recognition based on its independence and commitment to innovation and quality. SENER has more than 2,500 professionals across its centres in Algeria, Argentina, Brazil, South Korea, Canada, Colombia, Chile, China, the United Arab Emirates, Spain, the United States, Morocco, Mexico, Poland, Portugal, the United Kingdom and South Africa. The group's operating revenue exceeded 766 million Euros (2017 data).

SENER brings together its own Aerospace and Engineering and Construction activities with industrial holdings in companies working in the field of Energy & Environment. In Aerospace, SENER has more than 50 years of experience and it is a first-rate international supplier in Space, Defense and Aeronautics. In Engineering and Construction, SENER has become a leading company worldwide in the Infrastructure and Transport; Renewables, Power, Oil & Gas; and Marine sectors.

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About Babcock

Babcock has provided highly specialised engineering services for over 100 years. We help clients in Spain and around the world to improve the capacity, reliability and availability of their resources in the four market sectors where we operate - Marine, Land, Aviation and Nuclear, endorsed by an in-depth knowledge of technological integration, as well as unique facilities and specialized training.

Babcock España is the leading company in Spain in air emergency and aircraft maintenance services, specialised in vital operations such as medical emergency, civil protection, sea and mountain search and rescue, coast and fisheries surveillance, fire fighting, training and maintenance of aircraft.

This leadership is supported by the special attention that Babcock pays to the security of its operations and services and the continuous training of its crews and maintenance technicians, guaranteeing operational excellence. Babcock is noted for its strong commitment towards investment and the continuous innovation, development and renewal of its fleet.

Some of the projects developed in the Aeronautical Maintenance Center by Babcock include the FAMET AS 332 SuperPuma modification to fight fire, as well as the UME 532 AL Cougar, the upgrading of the Air Force's S76C Sikorsky rescue cranes and the day/night Super Puma camera systems belonging to the Air Force's SAR squadrons.

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