

PRESS RELEASE

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In the presence of the President of the French Republic, Naval Group launches the *Suffren*, the latest generation of nuclear submarines (SSN)

On July 12 2019, during a ceremony presided over by the President of the French Republic Emmanuel Macron, Naval Group launched the *Suffren*, the first of six nuclear submarines of the latest generation in Cherbourg. This event is a key step for the Barracuda program for the benefit of the French Navy.

Hervé Guillou, Chairman and Chief Executive Officer of Naval Group, said: *"We are proud to have presented to the President of the French Republic the first submarine of the Barracuda-class, a symbol of our exceptional know-how and our ability to master the most advanced technologies and the most complex products. The construction of the Suffren is a collective success, the result of a strong cooperation with our long-standing partners: the French Navy and the French Defence Procurement Agency (DGA), but also the Atomic Energy and Alternative Energies Commission (CEA), TechnicAtome and all the manufacturers of the sector. Now, we are all focused on finalising the Suffren tests at the shipyard, with the start-up of the nuclear boiler room in the coming weeks, but also on producing the complete series. Maintaining our knowledge and adapting to new technologies are among our main priorities."*

Vincent Martinot-Lagarde, Director of the Barracuda program at Naval Group, also commented: *"To successfully complete this extraordinary project, several thousand women and men worked together, driven by the same values of team spirit and technical excellence. Today, on the occasion of this exceptional ceremony, we are very proud to present our work, which is the result of the extraordinary diversity of our skills."*

Naval Group's know-how and technological expertise

The *Suffren* is the first of the Barracuda-class series, designed to replace the Rubis-class generation. Naval Group is in charge of the construction of this submarines series, including the design and construction of the ship and information systems as well as the manufacturing of the main components of nuclear boiler rooms.

Naval Group is the overall prime contractor of the ship's architecture (2 500 people) and TechnicAtome is the prime contractor for the nuclear reactor. The French Defence Procurement Agency (DGA) is in charge of the overall program, with the Atomic Energy and Alternative Energies Commission (CEA) for the nuclear reactor.

With this program, Naval Group irrigates the French industry with more than 10,000 people and 800 companies involved.

All the skills within the group are called upon to design and produce the *Suffren* and the following of the Barracuda series. All Naval Group sites are simultaneously mobilised. Nantes-Indret, Angoulême-Ruelle, Brest and Lorient design and produce different systems and modules. The Ollioules site is responsible for the design and production of the combat system. The entire program is managed from Cherbourg, where the submarines are assembled and tested.

The Toulon site will be in charge of the maintenance of the *Suffren* and gradually that of the entire series. The in-service support was taken into account from the submarine's design stage to limit the number and duration of interventions, thus optimising the availability of the Barracuda-class at sea.

The *Suffren*: a technology and capacity leap

The *Suffren* is one of the stealthiest submarines over the world. This discretion, combined with its advanced detection capabilities, guarantees its acoustic superiority.

For the first time thanks to the *Suffren*-class submarines, the French Navy will have a deep strike capability with MBDA's naval cruise missiles (MdCN). The latest generation of SSN also allows the discreet deployment of special forces underwater, in particular thanks to its "divers hatch" and the optional carrying of a dry deck shelter allowing for the deployment of underwater vehicles.

More discreet, manoeuvrable and mobile, the *Suffren* has the latest generation of systems, including a centralised and more automated driving.

The technical characteristics of the *Suffren*-class submarines

- Surface displacement: 4,700 tonnes
- Diving displacement: 5,300 tonnes
- Length: 99 metres
- Diameter: 8.8 metres
- Armament: naval cruise missiles, F21 heavy-weight wire-guided torpedoes, modernised Exocet SM39 anti-ship missiles
- Hybrid propulsion: pressurised water reactor derived from the reactors on board the Triumphant-type SSBN and *Charles-de-Gaulle* aircraft carrier, two propulsion turbines, two turbo generators and two electric motors
- Crew: 65 crew members + commandos
- Availability: > 270 days per year

Photos and videos available on www.salledeprese.com

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About Naval Group

Naval Group is a European leader in naval defence. As an international high-tech company, Naval Group uses its extraordinary know-how, unique industrial resources and capacity to arrange innovative strategic partnerships to meet its customers' requirements. The group designs, builds and supports submarines and surface ships. It also supplies services to shipyards and naval bases. In addition, the group offers a wide range of marine renewable energy solutions. Attentive to corporate social responsibility, Naval Group adheres to the United Nations Global Compact. The group reports revenues of €3.6 billion and has a workforce of 14,860 (data for 2018).

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