

Navy to Shock-Test GE's New Composite Engine Enclosure

NATIONAL HARBOR, Md. – The new composite engine enclosure designed by GE for the LM2500 engine used on several classes of Navy ships is going to be shock-tested in the near future, a company official said. The company touts the enclosure as advantageous for the future frigate as well.

The lightweight enclosure is designed to replace the steel enclosure for the LM2500, which is the engine used on Arleigh Burke-class destroyers, Ticonderoga-class cruisers, the amphibious assault ships USS Makin Island and USS America, and slated for follow-on ships. It is 50 percent lighter and reduces noise, improves cooling, and provides more safety access than the current steel enclosure.

In an April 11 interview with Seapower, George Aiszus, GE's military marketing director, said that in a comparison test the lightweight enclosure with the engine was 60 percent quieter at four decibels and 25 to 50 degrees cooler, improvement which would greatly improve working conditions for the crew.

Aiszus said the Engineering Change Proposal is in works with the Navy and Bath Iron Works to have the new enclosure installed on DDG 128.

He also said that the lightweight enclosure would be ideal for the Navy's future frigate, because weight would be an important factor in its design, which would need the speed provided by the LM2500.

The LM2500 and its derivatives is the only gas turbine engine on Navy ships that has been shock-tested.

Congressmen: 355 Ships Still Important, Naval Safety Prime for Oversight

NATIONAL HARBOR, Md. – At a breakfast session hosted at the Sea-Air-Space Exposition April 11, Reps. Rob Wittman, R-Va., and Joe Courtney, D-Conn., co-chairs of the House seapower and projection forces subcommittee, focused on boosting the Navy's sea power, now enabled by the most recent National Defense Appropriations Act and omnibus bill.

After some reports of the Navy's 355-ship plan being a soft target for the service to reach, the congressmen discussed the importance of having a number as a measure to guide awareness on the Navy's needs.

As the Navy ramps up, it must carefully balance what assets get built and in what amount, said the congressmen, noting that submarines are often a stand-alone investment with fewer other appropriations needs, versus an aircraft carrier, which requires investments across the board.

Wittman said enabling sea power comes down to aligning the authorization process with the appropriation process and creating certainty.

"There has to be certainty within the requirement and design realm for ships and I believe we are there," he said. That means no continuing resolutions and appropriations bills that are completed on time. Through 2019, Wittman forecasted few issues with this, but once sequestration rears up again in 2020-2021, Congress may have a challenge in enabling stability again.

“We have to have a visualization for people outside the realm of the Navy, outside the realm of the Department of Defense to say, ‘What does this Navy even look like?’” said Wittman, explaining the value of having a specific number for the future fleet. “Without a number, there is nowhere to go.”

Wittman and Courtney also discussed potential congressional recommendations for the Navy after two deadly collisions in the Pacific area of operation in 2017.

“There is no way how we can possibly explain to families how this happened. It was totally preventable,” said Courtney, who acknowledged the Navy has already implemented some of the recommendations from a comprehensive review after the USS John S. McCain and USS Fitzgerald incidents.

“Our subcommittee will take definitive action. ... The oversight of Congress is how it works the best,” said Wittman.

LX(R) Transitions to LPD Flight II

NATIONAL HARBOR, Md. – The transition from the LPD 17 amphibious transport dock ship to the LX(R) amphibious ship replacement took a slight twist earlier this week when the nomenclature for the new ship was changed, according to program manager Capt. Brian Metcalf.

James F. Geurts, assistant secretary of the Navy, Research, Development and Acquisition, has announced the term LX(R) will be phased out and the next-generation amphibious ships will be known as LPD Flight II, Metcalf noted during a presentation at the Naval Sea Systems Command at the Sea-Air-Space Exposition

April 11. The program itself, and the number of ships, will remain the same, Metcalf said. Only the designation will be changed.

Plans call for building 13 Flight II ships to bolster an LPD 17 class of 13 ships, he said. The LPDs, which Metcalf said can serve as airport, seaport, and provide the transport and deployment of some of the Marine Corps' heaviest equipment, offers "some combat capability not provided by many ships in the Navy."

During an update of the overall program, Metcalf noted that the 11th LPD 17 ship, Portland, was set to be commissioned on April 18. It will deploy in 2020. But as part of its post-shakedown availability after commissioning, the ship will be outfitted next summer with the next-generation-capability laser weapon system for testing by the fleet and the Office of Naval Research.

The next ship in the class, Fort Lauderdale (LPD 28), is 18 percent complete and is expected to be delivered in 2021. The future LPD 29 will have its keel-laying in early 2019. Both ships were congressional add-ons that expanded the class to 12 and are considered transitional ships to what is now LPD Flight II, which will begin with LPD 30. LPDs 28 and 29 will employ a series of design and capability changes from previous ships in the class to make for a smoother transition to the new class, he said.

LPD 29 will be the first ship to employ the Enterprise Air Surveillance Radar (EASR) that originally was intended for the first LX(R). The radar will be installed after the ship is delivered in 2023, Metcalf said.

Maritime Gala Celebrates the Sea Services

NATIONAL HARBOR, Md. – An Irish Tenor, country star Lee Greenwood and all four of the sea service chiefs helped the Navy League celebrate the sea services and their families during the inaugural Maritime Gala at the Sea-Air-Space Exposition April 10.

The event featured remarks from Marine Corps Commandant Gen. Robert B. Neller and was highlighted by the presentation of awards to honor service and business leaders whose devotion to duty deserved special recognition.

“We are so excited to have you here in celebration of all our sea services and their families,” said Navy League National President Alan Kaplan in his opening remarks.

John McDermott, founder of the Irish Tenors, sang the national anthem after the U.S. Navy Ceremonial Guard presented the colors, and Greenwood performed “Wind Beneath My Wings” prior to the gala dinner. He concluded the event with an encore performance of patriotic songs, including his signature “God Bless the U.S.A.”

Prior to introducing Neller as the keynote speaker, Chief of Naval Operations Adm. John Richardson offered a few words of thanks to the Navy League for the gala and the exposition as a whole.

“What a fantastic event, Sea-Air-Space in 2018, the biggest, the best, the most attended ... people fighting for the opportunity to come and join this team here at Sea-Air-Space,” he said. “That wouldn’t happen without the Navy League, just one of the so many things they do for the sea services.”

In introducing Neller, Richardson described the commandant as

“an innovative thinker; he is moving the Marine Corps into new territory to make sure that they continue to be relevant in this new era that we’re moving into with smart machines, digital communications, everything. He’s leading the way intellectually. Far more than that is you would never, ever hope for anybody else to go into a fight with you.”

Neller prefaced his remarks by noting, “This is an interesting year; there is a lot to talk about.”

Specifically, he addressed the theme of this year’s Sea-Air-Space: “learn, compete, win.”

“That speaks to the heart of our naval force,” Neller said. “As Marines, we like to think of ourselves as innovative. Innovation is a hallmark of our Corps and it remains so today. Your Marines are learning through testing and evaluation of new technology to gain advantages over our competitors, our rivals. And there is competition; we are in a competition right now.

“We are not at war; we’re competing below the level of conflict, but make no mistake about it – we’re competing every single day, whether it be in cyber, information or electronic warfare, command and control, engineering, manned and unmanned teaming, robotics, additive manufacturing, trying to figure out how to leverage artificial intelligence. Those competitions go on every single day.

“Advancements in those areas that many of you are involved in, and can help us with, will help propel us into the future, enabling us to compete,” Neller said, addressing the gala attendees from industry. “We don’t want to compete on the battlefield –we want to dominate the battlefield.”

At the same time, Neller noted, the nation’s competitors have evolved and are increasing their capabilities.

“They are not standing by and watching us,” he said. “They

want to dominate the battlespace, so it is essential that we, our military, our civilians, our leadership, our political leaders, our business community, all work together to keep our capability at a competitive advantage that we must have. We don't know when the next fight is coming, but we have to be prepared in case it does.

"We need to drive innovation and come up with new advanced equipment where we can continue to dominate the battlefield. ... So this is an exciting time. We are always in continuous competition. We always must be ready to compete, learn and win. We have to win."

Following Neller's remarks, the Navy League honored several service and business leaders who Kaplan noted, "exemplify what it means to be a leader in their field."

Outgoing Coast Guard Commandant Adm. Paul F. Zukunft received the new Semper Paratus Leader Award for his more than 40 years of service to the country. He was presented the award by retired Vice Adm. Jay Donnelly, who called the commandant "a Sailor's Sailor." Zukunft will be retiring next month.

Coast Guard Capt. Holly R. Harrison was presented with the U.S. Naval Sea Cadet Corps Distinguished Alumni Award. "She is a shining example of how the Sea Cadet program introduces young people to a lifetime of exemplary service," said gala co-chair Bruce Mosler of Cushman & Wakefield.

Harrison was the first woman to command a Coast Guard cutter in a combat zone and the first to be awarded the Bronze Star. "I can trace the beginning of my Coast Guard career to when I joined the Naval Sea Cadet Corps in the fall of 1986," she said after accepting the award.

Frank Bisignano, chairman and CEO of First Data Corp. received the Teddy Roosevelt Award. "He epitomizes steadfast business leadership," said gala co-chair Tom Higgins of First Data.

Bisignano is the founder of the 100,000 Jobs Mission, a coalition of 170 firms that have hired nearly 450,000 veterans. As chairman and CEO of First Data, he is a steward of the First Data Salutes Program, providing opportunities and support for returning military and their families.

In a special presentation, Kaplan also honored Navy League Staff Vice President for External & Governmental Affairs Sara Fuentes with the Navy League National President's Award for her legislative affairs work on behalf of the organization.