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DIVISION A—DEPARTMENT OF DEFENSE AUTHORIZATIONS

TITLE I—PROCUREMENT

LEGISLATIVE PROVISIONS

SUBTITLE C—NAVY PROGRAMS

Section 1XX—Multiyear Procurement Authority for Arleigh Burke Class Destroyers

This section would provide multiyear procurement authority for up to 15 Flight III DDG-51 destroyers.

Section 1XX—Authority for Certain Procurements for the Ship-to-Shore Connector Program

This section would authorize the Secretary of the Navy to enter into one or more contracts for up to 25 Ship-to-Shore craft and associated equipment.

SUBTITLE D—AIR FORCE PROGRAMS

Section 1XX—Minimum Inventory of C-130 Aircraft

This section would keep the C-130 total aircraft inventory at 271 with a sunset date of October 1, 2028.

Section 1XX—Modification of Minimum Inventory Requirement for Air Refueling Tanker Aircraft

This section would set an air refueling minimum inventory of 466 tanker aircraft for fiscal year 2023 and prevent the Air Force from moving KC-135 aircraft from Primary Mission Aircraft Inventory to Backup Aircraft Inventory in the Air Force Guard and Reserve.

TITLE X—GENERAL PROVISIONS

LEGISLATIVE PROVISIONS

SUBTITLE C—NAVAL VESSELS AND SHIPIYARDS

Section 10XX—Number of Navy Operational Amphibious Ships
This section would amend section 8062 of title 10, United States Code, and provide a statutory floor for the minimum number of amphibious ships the Secretary is required to have in service.

Section 10XX—Availability of Funds for Retirement or Inactivation of Guided Missile Cruisers

This section would prohibit the retirement of greater than four guided missile cruisers, and specify that the USS Vicksburg shall not be one of the four ships retired.

Section 10XX—Availability of Funds for Retirement or Inactivation of Landing Dock Ships

This section would prohibit retirement or inactivation of the USS Germantown (LSD-42), USS Gunston Hall (LSD-44), USS Tortuga (LSD-46), and USS Ashland (LSD-48).

SUBTITLE G—OTHER MATTERS

Section 10XX—Navy Consultation with Marine Corps on Major Decisions Directly Concerning Marine Corps Amphibious Force Structure and Capability

This section would amend section 8026 of title 10, United States Code, and require consultation with the Commandant of the Marine Corps on major decisions directly concerning naval amphibious force structure and capabilities.

DIVISION C—DEPARTMENT OF ENERGY NATIONAL SECURITY AUTHORIZATIONS AND OTHER AUTHORIZATIONS

TITLE XXXV—MARITIME ADMINISTRATION

LEGISLATIVE PROVISIONS

Section 35XX—Authorization of the Maritime Administration

This section would authorize funds for the Maritime Administration.

Section 35XX—Appointment of Superintendent of United States Merchant Marine Academy
This section would amend section 51301 of title 46, United States Code, and clarify the eligibility requirements to become the Superintendent of the United States Merchant Marine Academy.

Section 35XX—Recapitalization of National Defense Reserve Fleet

This section would direct the Secretary of Transportation to direct the Maritime Administrator to carry out a program to design and construct up to 10 sealift vessels.

Section 35XX—United States Marine Highway Program

This section would amend section 55601 of title 46, United States Code, rename the Marine Highways Transportation Program as United States Marine Highway Program, and make substantive changes to program execution.

Section 35XX—Multistate, State, and Regional Transportation Planning

This section would amend chapter 556 of title 46, United States Code, and create a new section 55603: Multistate, State, and regional transportation planning.

Section 35XX—Port and Intermodal Improvement Program Grants for Emission Mitigation Measures

This section would authorize the Secretary of Transportation to make grants during fiscal years 2023-2027 under section 54301 of title 46, United States Code, to provide for emission mitigation measures.

Section 35XX—Certificates of Numbers for Undocumented Vessels

This section would amend section 12304(a) of title 46, United States Code, and make changes to the number certificate format.

Section 35XX—Secretary of Transportation Responsibility with Respect to Cargoes Procured, Furnished, or Financed by Other Federal Departments and Agencies

This section would require the Maritime Administrator to issue a final rule to implement and enforce section 55305(d) of title 46, United States Code.

This section would also amend section 55305(d)(2)(A) of title 46, United States Code, and require the Secretary of Transportation to submit an annual report on the underlying programs to the Committee on Transportation and Infrastructure of the House of Representatives and the Committee on Commerce, Science, and Transportation of the Senate.

Section 35XX—Waiver of Navigation and Vessel-Inspection Laws
This section would amend section 501 of title 46, United States Code, and make changes to vessel-inspection laws and waiver requirements.

Section 35XX—National Maritime Transportation Report and Strategy

This section would require the Secretary of Defense to submit a report on National Maritime Transportation that analyzes the decline in United States-flag vessels participating in international trade, and the resultant national security implications.

This section would also require the Secretary of Defense to submit a National Maritime Strategy that seeks to grow shipping by United States-flag and United States-owned vessels, and that grows the United States shipbuilding industrial base.
BILL LANGUAGE
SEC. 1. [Log 74780]. MULTIYEAR PROCUREMENT AUTHORITY FOR ARLEIGH BURKE CLASS DESTROYERS.

(a) FINDINGS; SENSE OF CONGRESS.—

(1) FINDINGS.—Congress makes the following findings:

(A) The DDG Flight III destroyer is the most capable large surface combatant in the world-wide inventory of the Department of Defense.

(B) The Department plans to retire 18 large surface combatants over the next five years.

(C) Under the future-years defense plan, the Department plans to procure two DDGs per year over the next five years.

(2) SENSE OF CONGRESS.—It is the sense of Congress that—

(A) the loss of aggregate fire power due to the retirement of 18 large surface combatants over the next five years is cause for concern;

(B) the Department should continue to procure large surface combatants at the fastest
possible rate based on industrial base capacity; and

(C) the Department should maximize savings and provide stability to the large surface combatant industrial base through the use of multiyear procurement contracts for the maximum number of ships, realized at a consistent number of ships per year.

(b) AUTHORITY FOR MULTIYEAR PROCUREMENT.—Subject to section 3501 of title 10, United States Code, the Secretary of the Navy may enter into one or more multiyear contracts for the procurement of up to 15 Arleigh Burke class Flight III guided missile destroyers.

(e) AUTHORITY FOR ADVANCE PROCUREMENT.—The Secretary of the Navy may enter into one or more contracts, beginning in fiscal year 2023, for advance procurement associated with the destroyers for which authorization to enter into a multiyear procurement contract is provided under subsection (b), and for systems and sub-systems associated with such destroyers in economic order quantities when cost savings are achievable.

(d) CONDITION FOR OUT-YEAR CONTRACT PAYMENTS.—A contract entered into under subsection (b) shall provide that any obligation of the United States to make a payment under the contract for a fiscal year after
fiscal year 2023 is subject to the availability of appropriations or funds for that purpose for such later fiscal year.

(c) LIMITATION.—The Secretary of the Navy may not modify a contract entered into under subsection (b) if the modification would increase the target price of the destroyer by more than 10 percent above the target price specified in the original contract or the destroyer under subsection (b).
SEC. 1. AUTHORITY FOR CERTAIN PROCUREMENTS FOR THE SHIP-TO-SHORE CONNECTOR PROGRAM.

(a) CONTRACT AUTHORITY.—The Secretary of the Navy may enter into one or more contracts, beginning with fiscal year 2023, for the procurement of up to 25 Ship-to-Shore Connector class craft and associated material.

(b) LIABILITY.—Any contract entered into under subsection (a) shall provide that—

(1) any obligation of the United States to make a payment under the contract is subject to the availability of appropriations for that purpose; and

(2) that total liability of the Federal Government for termination of any contract entered into shall be limited to the total amount of funding obligated to the contract at time of termination.
SEC. 1. [Log 74834]. MINIMUM INVENTORY OF C–130 AIRCRAFT.

(a) MINIMUM INVENTORY REQUIREMENT.—

(1) IN GENERAL.—During the covered period, the Secretary of the Air Force shall maintain a total inventory of C–130 aircraft of not less than 271 aircraft.

(2) EXCEPTION.—The Secretary of the Air Force may reduce the number of C–130 aircraft in the Air Force below the minimum number specified in subsection (a) if the Secretary determines, on a case-by-case basis, that an aircraft is no longer mission capable because of a mishap or other damage.

(3) COVERED PERIOD DEFINED.—In this subsection, the term “covered period” means the period—

(A) beginning at the close of the period described in section 138(e) of the National Defense Authorization Act for Fiscal Year 2022 (Public Law 117–81; 135 Stat. 1577); and

(B) ending on October 1, 2028.

(b) PROHIBITION ON REDUCTION OF C–130 AIRCRAFT ASSIGNED TO NATIONAL GUARD.—
2

(1) IN GENERAL.—During fiscal year 2023, the Secretary of the Air Force may not reduce the total number of C–130 aircraft assigned to the National Guard below the number so assigned as of the date of the enactment of this Act.

(2) EXCEPTION.—The prohibition under paragraph (1) shall not apply to an individual C–130 aircraft that the Secretary of the Air Force determines, on a case-by-case basis, to be no longer mission capable because of a mishap or other damage.
SEC. 1. [Log 74800]. MODIFICATION OF MINIMUM INVENTORY REQUIREMENT FOR AIR REFUELLING TANKER AIRCRAFT.

(a) MINIMUM INVENTORY REQUIREMENT.—

(1) IN GENERAL.—Section 9062(j) of title 10, United States Code, is amended—

(A) by striking “effective October 1, 2019,”; and

(B) by striking “479” each place it appears and inserting “466”.

(2) EFFECTIVE DATE.—The amendments made by paragraph (1) shall take effect on October 1, 2022.

(b) PROHIBITION ON REDUCTION OF KC–135 AIRCRAFT IN PMAI OF THE RESERVE COMPONENTS.—

(1) IN GENERAL.—None of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2023 for the Air Force may be obligated or expended to reduce the number of KC–135 aircraft designated as primary mission aircraft inventory within the reserve components of the Air Force.

(2) PRIMARY MISSION AIRCRAFT INVENTORY DEFINED.—In this subsection, the term “primary
mission aircraft inventory” has the meaning given that term in section 9062(i)(2)(B) of title 10, United States Code.
SEC. 10. [Log 74781]. NUMBER OF NAVY OPERATIONAL AMPHIBIOUS SHIPS.

Section 8062 of title 10, United States Code, is amended by adding at the end the following new subsection:

“(g) The naval combat forces of the Navy shall include not less than 31 operational amphibious ships, comprised of LSD–41 class ships, LSD–49 class ships, LPD–17 class ships, LPD–17 Flight II class ships, LHD–1 class ships, LHA–6 Flight 0 class ships, and LHA–6 Flight I class ships. For purposes of this subsection, an operational amphibious ship includes an amphibious ship that is temporarily unavailable for worldwide deployment due to routine or scheduled maintenance or repair.”.
SEC. 10. AVAILABILITY OF FUNDS FOR RETIREMENT OR INACTIVATION OF GUIDED MISSILE CRUISERS.

(a) IN GENERAL.—Subject to subsection (b), none of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2023 for the Department of Defense may be obligated or expended to retire, prepare to retire, inactivate, or place in storage more than four guided missile cruisers.

(b) USS VICKSBURG.—The USS Vicksburg may not be retired, prepared to retire, inactivated, or placed in storage pursuant to subsection (a).
SEC. 10. [Log 75535]. AVAILABILITY OF FUNDS FOR RETIREMENT OR INACTIVATION OF LANDING DOCK SHIPS.

None of the funds authorized to be appropriated by this Act or otherwise made available for fiscal year 2023 for the Department of Defense may be obligated or expended to retire, prepare to retire, inactivate, or place in storage any of the following ships:

(1) USS Germantown (LSD-42).
(2) USS Gunston Hall (LSD-44).
(3) USS Tortuga (LSD-46).
(4) USS Ashland (LSD-48).
SEC. 10. [Log 74782]. NAVY CONSULTATION WITH MARINE CORPS ON MAJOR DECISIONS DIRECTLY CONCERNING MARINE CORPS AMPHIBIOUS FORCE STRUCTURE AND CAPABILITY.

(a) IN GENERAL.—Section 8026 of title 10, United States Code, is amended by inserting “or amphibious force structure and capability” after “Marine Corps aviation”.

(b) CLERICAL AMENDMENTS.—

(1) SECTION HEADING.—The heading of such section is amended by inserting “or amphibious force structure and capability”.

(2) TABLE OF SECTIONS.—The table of sections at the beginning of chapter 803 of such title is amended by striking the item relating to section 8026 and inserting the following new item:

“8026. Consultation with Commandant of the Marine Corps on major decisions directly concerning Marine Corps aviation or amphibious force structure and capability.”.
SEC. 35. [Log 74788]. AUTHORIZATION OF THE MARITIME ADMINISTRATION.

(a) IN GENERAL.—There are authorized to be appropriated to the Department of Transportation for fiscal year 2023 for programs associated with maintaining the United States merchant marine, the following amounts:

(1) For expenses necessary for operations of the United States Merchant Marine Academy, $99,748,000, of which—

(A) $87,848,000 shall be for Academy operations; and

(B) $11,900,000 shall be for capital asset management at the Academy.

(2) For expenses necessary to support the State maritime academies, $120,700,000, of which—

(A) $2,400,000 is for the Student Incentive Program;

(B) $6,000,000 is for direct payments;

(C) $6,800,000 is for training ship fuel assistance;

(D) $30,500,000 for school ship maintenance and repair; and

(E) $75,000,000 for the National Security Multi-Mission Vessel.
(3) For expenses necessary to support Maritime Administration operations and programs, Headquarters Operations, $67,433,000.

(4) For expenses necessary to dispose of vessels in the National Defense Reserve Fleet, $6,000,000.

(5) For expenses necessary to maintain and preserve a United States flag merchant marine to serve the national security needs of the United States under chapter 531 of title 46, United States Code, $318,000,000.

(6) For expenses necessary for the loan guarantee program authorized under chapter 537 of title 46, United States Code, $33,000,000, of which—

(A) $30,000,000 may be used for the cost (as defined in section 502(5) of the Federal Credit Reform Act of 1990 (2 U.S.C. 661a(5))) of loan guarantees under the program; and

(B) $3,000,000 may be used for administrative expenses relating to loan guarantee commitments under the program.

(7) For expenses necessary to provide for the Tanker Security Fleet, as authorized under chapter 534 of title 46, United States Code, $60,000,000.

(8) For expenses necessary to support maritime environmental and technical assistance activities au-
authorized under section 50307 of title 46, United States Code, $15,000,000.

(9) For expenses necessary to support marine highway program activities authorized under chapter 556 of such title, $15,000,000.

(10) For expenses necessary to provide assistance to small shipyards and for the maritime training program authorized under section 54101 of title 46, United States Code, $25,000,000.

(11) For expenses necessary to implement the port infrastructure development activities authorized under subsections (a) and (b) of section 54301 of title 46, United States Code, $685,000,000.

(12) For expenses necessary to provide for sealift contested environment evaluation, $2,000,000.

(13) For expenses necessary to provide for National Defense Reserve Fleet resiliency, $800,000.

(14) For expenses necessary to provide for training ship State of Maine maritime training platform requirements, $1,200,000.

(b) LIMITATION.—None of the amounts authorized to be appropriated for port infrastructure development activities under subsection (a)(11) may be used to provide a grant to purchase fully automated cargo handling equipment that is remotely operated or remotely monitored,
with or without the exercise of human intervention or control, if the Secretary of Transportation determines such equipment would result in a net loss of jobs within a port or port terminal.
SEC. 35. APPOINTMENT OF SUPERINTENDENT OF UNITED STATES MERCHANT MARINE ACADEMY.

Subsection (c) of section 51301 of title 46, United States Code, is amended to read as follows:

“(c) SUPERINTENDENT.—The immediate command of the United States Merchant Marine Academy shall be in the Superintendent of the Academy, who shall be appointed by the Secretary of Transportation and subject to the direction of the Maritime Administrator under the general supervision of the Secretary of Transportation.”.
SEC. 35. [Log 75498]. RECAPITALIZATION OF NATIONAL
DEFENSE RESERVE FLEET.

(a) IN GENERAL.—The Secretary of Transportation, in consultation with the Chief of Naval Operations and the Commandant of the Coast Guard, shall direct the Maritime Administrator to carry out a program under which the Administrator—

(1) shall complete the design of a roll-on, roll-off cargo vessel for the National Defense Reserve Fleet to allow for the construction of such vessel to begin in fiscal year 2024; and

(2) subject to the availability of appropriations, shall have an entity enter into a contract for the construction of not more than ten such vessels in accordance with this section.

(b) CONSTRUCTION AND DOCUMENTATION REQUIREMENTS.—A vessel constructed pursuant to this section shall meet the requirements for and be issued a certificate of documentation and a coastwise endorsement under chapter 121 of title 46, United States Code.

(c) DESIGN STANDARDS AND CONSTRUCTION PRACTICES.—Subject to subsection (b), a vessel constructed pursuant to this section shall be constructed using commercial design standards and commercial construction
practices that are consistent with the best interests of the Federal Government.

(d) Consultation With Other Federal Entities.—The Maritime Administrator may consult and coordinate with the Secretary of the Navy regarding the vessel described in subsection (a) and activities associated with such vessel.

(e) Contracting.—The Maritime Administrator shall provide for an entity other than the Maritime Administration to contract for the construction of the vessel described in subsection (a).

(f) Limitation on Use of Funds for Used Vessels.—Amounts authorized to be appropriated by this or any other Act for use by the Maritime Administration to carry out this section may not be used for the procurement of any used vessel.
SEC. 35. [Log 75067]. UNITED STATES MARINE HIGHWAY PROGRAM.

(a) UNITED STATES MARINE HIGHWAY PROGRAM.—Section 55601 of title 46, United States Code, is amended to read as follows:

“§ 55601. United States marine highway program

“(a) ESTABLISHMENT.—There is in the Department of Transportation a program, to be known as the ‘United States marine highway program’.

“(b) CRITERIA.—In order to be designated as a marine highway transportation route under subsection (c) or as a marine highway transportation project under subsection (d), a route or project shall—

“(1) provide a coordinated and capable alternative to landside transportation;

“(2) mitigate or relieve landside congestion; or

“(3) promote marine highway transportation.

“(c) MARINE HIGHWAY TRANSPORTATION ROUTES.—The Secretary may—

“(1) designate a route that meets the criteria under subsection (b) as a marine highway transportation route; and

“(2) collect and disseminate data related to such designation.
“(d) PROJECT DESIGNATION.—The Secretary may—

“(1) designate a project that meets the criteria under subsection (b) as a marine highway transportation project if the Secretary determines that such project uses vessels documented under chapter 121 and—

“(A) develops, expands, or promotes—

“(i) marine highway transportation services;

“(ii) shipper utilization of marine highway transportation; or

“(iii) port and landside infrastructure for which assistance is not available under section 54301; or

“(B) implements strategies developed under section 5560; and

“(2) conduct research on solutions to impediments to such projects.

“(e) ASSISTANCE.—

“(1) IN GENERAL.—The Secretary may make grants, or enter into contracts or cooperative agreements, to implement a marine highway transportation project designated under subsection (e) or a component of such a project.
“(2) APPLICATION.—To be eligible to receive a
grant or to enter into a contract or cooperative
agreement under this subsection, an applicant
shall—

“(A) submit to the Secretary an applica-
tion in such form and manner, at such time,
and containing such information as the Sec-
retary may require; and

“(B) demonstrate to the satisfaction of the
Secretary that—

“(i) the proposed project is financially
viable;

“(ii) the funds received under the
grant, contract, or cooperative agreement
will be spent or used efficiently and effec-
tively; and

“(iii) a market exists for the services
of the proposed project, as evidenced by
contracts or written statements of intent
from potential customers.

“(3) NON-FEDERAL SHARE.—Not more than 80
percent of the funding for any project for which
funding is provided under this subsection may come
from Federal sources.
“(4) Preference for financially viable projects.— In awarding grants or entering in contracts or cooperative agreements under this subsection, the Secretary shall give a preference to those projects or components that present the most financially viable transportation services and require the lowest percentage Federal share of the costs.

“(f) Additional program activities.—In carrying out the program established under subsection (a), the Secretary of Transportation may—

“(1) coordinate with ports, State departments of transportation, localities, other public agencies, and appropriate private sector entities on the development of landside facilities and infrastructure to support marine highway transportation; and

“(2) develop performance measures for the program.”.

(b) Clerical amendment.—The analysis for chapter 556 of title 46, United States Code, is amended by striking the item relating to section 55601 and inserting the following:

“55601. United States marine highway program.”.
SEC. 35. MULTISTATE, STATE, AND REGIONAL TRANSPORTATION PLANNING.

(a) MULTISTATE, STATE, AND REGIONAL TRANSPORTATION PLANNING.—Chapter 556 of title 46, United States Code, is amended by inserting after section 55602 the following:

“§ 55603. Multistate, State, and regional transportation planning

“(a) IN GENERAL.—The Secretary, in consultation with Federal entities, State and local governments, and appropriate private sector entities, may develop strategies to encourage the use of marine highway transportation for transportation of passengers and cargo.

“(b) STRATEGIES.—If the Secretary develops strategies under subsection (a), the Secretary may—

“(1) assess the extent to which States and local governments include marine highway transportation and other marine transportation solutions in transportation planning;

“(2) encourage State departments of transportation to develop strategies, where appropriate, to incorporate marine highway transportation, ferries, and other marine transportation solutions for re-
gional and interstate transport of freight and passengers in transportation planning; and

“(3) encourage groups of States and multistate transportation entities to determine how marine highways can address congestion, bottlenecks, and other interstate transportation challenges.”.

(b) CLERICAL AMENDMENT.—The analysis for chapter 556 of title 46, United States Code, is amended by striking the item relating to section 55603 and inserting the following:

“55603. Multistate, State, and regional transportation planning.”.
SEC. 35. PORT AND INTERMODAL IMPROVEMENT PROGRAM GRANTS FOR EMISSION MITIGATION MEASURES.

(a) In General.—For each of fiscal years 2023 through 2027, the Secretary of Transportation shall treat a project described in subsection (b) as an eligible project under paragraph (3) of subsection (a) of section 54301 of title 46, United States Code, for purposes of making grants under such subsection.

(b) Projects Described.—A project described in this subsection is a project to provide shore power at a port that services passenger vessels described in section 3507(k) of title 46, United States Code.
SEC. 35 [Log 75070]. CERTIFICATES OF NUMBERS FOR UNDOCUMENTED VESSELS.

Section 12304(a) of title 46, United States Code, is amended—

(1) by striking “shall be pocketsized,”; and

(2) by inserting “in hard copy or digital form.

Any certificate issued in hard copy under this section shall be pocketsized. The certificate shall be” after “and may be”.
SEC. 35. [Log 75072]. SECRETARY OF TRANSPORTATION RESPONSIBILITY WITH RESPECT TO CARGOES PROCURED, FURNISHED, OR FINANCED BY OTHER FEDERAL DEPARTMENTS AND AGENCIES.

(a) IN GENERAL.—Not later than 90 days after the date of the enactment of this Act, the Administrator of the Maritime Administration shall issue a final rule to implement and enforce section 55305(d) of title 46, United States Code.

(b) PROGRAMS OF OTHER AGENCIES.—Section 55305(d)(2)(A) of title 46, United States Code, is amended by inserting after “section” the following: “and annually submit to the Committee on Transportation and Infrastructure of the House of Representatives and the Committee on Commerce, Science, and Transportation of the Senate a report on the administration of such programs”.
SEC. 35. WAIVER OF NAVIGATION AND VESSEL-INSPECTION LAWS.

Section 501 of title 46, United States Code, is amended—

(1) in subsection (b)(1) by inserting “on a vessel specific basis” after “those laws”; and

(2) in subsection (c)(1)—

(A) by inserting “and the individual requesting such waiver (if not the owner or operator of the vessel)” before “shall submit”; 

(B) in subparagraph (C) by striking “and”;

(C) by redesignating subparagraphs (B), (C), and (D), as subparagraphs (C), (D), and (G), respectively;

(D) by inserting after subparagraph (A) the following:

“(B) the name of the owner and operator of the vessel;”; and

(E) by inserting after subparagraph (D), as so redesignated, the following:

“(E) a description of the cargo carried;
“(F) an explanation as to why the waiver is necessary in the interest of national defense; and”.
SEC. 35. NATIONAL MARITIME TRANSPORTATION REPORT AND STRATEGY.

(a) NATIONAL MARITIME TRANSPORTATION REPORT.—Not later than October 31, 2023, the Secretary of Defense shall submit to the appropriate congressional committees a national maritime transportation report. Such report shall include each of the following:

(1) An analysis of the causes for the decline in the number of vessels documented under chapter 121 of title 46, United States Code and operating in the international trade.

(2) An examination of the national security and economic requirements for the United States merchant marine during peacetime and during surge and sustained national defense sealift that addresses—

(A) whether existing United States-flag shipping, maritime labor, and shipbuilding and repair capacity is sufficient to fulfill such sealift requirements; and

(B) if such capacity is not sufficient, the capacity, including naval auxiliary ships, that would be needed during a major conflict by—
(i) the military for strategic sealift;

and

(ii) the private sector to sustain the economy.

(3) An evaluation of the contracting procedures for United States Government cargo transport and a determination of whether such policies ensure sufficient access to vessels documented under chapter 121 of title 46, United States Code.

(4) A review of the objectives under section 50101(a) of title 46, United States Code, and a determination of the extent to which legislation, programs, policies, and regulations adopted since the adoption of such objectives in the Merchant Marine Act, 1936 have aligned with such objectives.

(5) A comparison between the subsidy programs of other beneficial flag programs and the existing support programs in the United States.

(b) NATIONAL MARITIME TRANSPORTATION STRATEGY.—Not later than October 31, 2024, the Secretary of Defense shall submit to the appropriate congressional committees a national maritime transportation strategy. Such strategy shall include each of the following:

(1) Recommendations to encourage the growth of shipping by United States-flag and United States-
owned vessels and the growth of the United States
shipbuilding industrial base that are—

(A) sufficient for national and economic se-
curity;

(B) consistent with the objectives and pol-
icy under section 50101 of title 46, United
States Code;

(C) compatible with international treaties
and agreements governing maritime safety, se-
curity, and environmental protection; and

(D) compatible with rapidly evolving mari-
time transportation technology.

(2) Recommendations to increase the size of the
United States-flagged fleet and increase the pool of
United States mariners through—

(A) bolstering existing funding sources;

(B) new funding; or

(C) new programs.

(c) INDEPENDENT ENTITY PREPARATION.—The Sec-
retary of Defense shall seek to enter into an agreement
with an appropriate non-Department of Defense entity
that specializes in maritime research under which such en-
tity shall prepare the report and strategy required under
this section.
(d) CONSULTATION REQUIREMENT.—In carrying out this section, the Secretary of Defense shall consult with—

(1) the Secretary of Transportation, acting through the Maritime Administrator; and

(2) the Secretary of the Department in which the Coast Guard operating, acting through the Commandant of the Coast Guard.

(e) APPROPRIATE CONGRESSIONAL COMMITTEES.—In this section, the term “appropriate congressional committees” means—

(1) the Committee on Armed Services and the Committee on Transportation and Infrastructure of the House of the Representatives; and

(2) the Committee on Armed Services and the Committee on Commerce, Science and Transportation of the Senate.
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**OTHER PROCUREMENT, AIR FORCE**
- Items of Special Interest
  - Infrared suppression improvements for C-130 and C-17 aircraft

**PROCUREMENT, DEFENSE-WIDE**
- Items of Special Interest
  - Arctic access and air refueling missions
  - Autonomous air-to-air refueling technology
  - E-6B recapitalization

### TITLE II—RESEARCH, DEVELOPMENT, TEST, AND EVALUATION

**RESEARCH, DEVELOPMENT, TEST, AND EVALUATION, NAVY**
- Items of Special Interest
  - Anti-submarine warfare with multi-day attritable Group III Unmanned Aerial Systems
  - Marine Corps autonomous underwater vehicle capabilities
  - Next-generation expeditionary and reconnaissance watercraft
Additive manufacturing in shipbuilding and ship repair

The committee remains concerned with shipbuilding supply chains, and how existing challenges induce cost and schedule risk into our shipbuilding programs. The committee believes that additive and advanced manufacturing capabilities could induce some resiliency into the supply chain and assist with construction and repair techniques. Therefore, the committee directs the Secretary of the Navy to submit a report to the House Committee on Armed Services by March 31, 2023, on the use of additive manufacturing capabilities in traditional shipbuilding and repair; the feasibility of entering into public-private partnerships with agencies or organizations with expertise in these areas; and an assessment of how public-private partnerships could eliminate or mitigate known capability gaps.

Assessment of the Navy's amphibious warfare fleet

The Navy and Marine Corps have identified amphibious capabilities as an area of emphasis in future conflicts and are reviewing the requirements and acquisition of the fleet of assets dedicated to this mission. The committee is concerned about the potential impacts this has for the acquisition of amphibious ships that are best suited for prosecuting a future amphibious invasion. Further, the committee is also concerned about the broader implications of the importance of amphibious warfare capabilities, the probability of such a conflict, and the cost of building and maintaining a fleet that can prosecute such a conflict. The committee is interested to learn more about the analysis, decision-making processes, and the frequency with which the Navy and Marine Corps review requirements for amphibious warfare and align these requirements with acquisition programs. Specifically, the committee seeks to understand how the potential changes to requirements would impact the acquisition plans identified in the most recent 30-year shipbuilding plan.

Therefore, the committee directs the Comptroller General of the United States to review the Navy’s plans for the future amphibious warfare fleet. At a minimum, the review shall address the following elements:

(1) analysis of the current amphibious warfare fleet;
(2) Navy and Marine Corps future plans for the fleet and how it will be positioned to evolve as technology changes;
(3) an assessment of the costs of building and maintaining a fleet whose primary mission is amphibious conflict, such as the light amphibious warship, large deck amphibious ships, and LPD-class ships; and
(4) other items the Comptroller General determines appropriate.

The committee further directs the Comptroller General to provide a briefing to the House Committee on Armed Services not later than March 1, 2023, on the Comptroller General’s preliminary findings and to present final results in a format and timeframe agreed to at the time of the briefing.

**Immersive virtual training**

The committee is aware the Navy’s Immersive Virtual Training (IVT) and Surface Training Immersive Gaming and Simulation (STIGS) programs are successfully delivering Surface Training Advanced Virtual Environment (STAVE) compliant courseware and trainers to the Navy’s surface fleet, resulting in more effective and efficient sailors, improved team readiness and retention, and reductions in the time and expense of qualifying and certifying sailors.

The committee understands that through these programs, a significant level of IVT software content and training solutions have already been developed for U.S. and Foreign Military Sales (FMS) ship platforms that share extensive system commonality across U.S. Navy ship classes and fleet modernization efforts. This provides the Navy with an opportunity to leverage existing IVT digital content that can be tailored and repurposed with minimal time and cost investment to meet the training needs of additional U.S. ship programs that share common fleet subsystems, such as the new construction FFG-62, LCS Lethality and Survivability modernization, and other Navy ship classes.

Therefore, the committee directs the Secretary of the Navy to provide a briefing to the House Committee on Armed Services by March 1, 2023, as to options for implementing an expanded IVT content. Specifically, this briefing shall include: an analysis of all existing IVT digital content created for U.S. and FMS surface fleet programs to identify common ship platforms, fleet subsystems, and training objectives that are candidates to leverage existing like-training IVT content investments; and, implementation options for this expanded content.

**Large surface combatant Arctic operations**

The committee recognizes the importance of the Arctic region to United States security and interests. With the decreasing sea ice levels in the Arctic, the region will become a place for increasing commercial and military activity. The territorial claims of Russia in the Arctic, as well as China’s rhetoric around the Arctic, claiming itself to be a “near-Arctic” state, necessitate a strategic shift and focus on this emerging region.

The committee recognizes that Navy large surface combatant vessels lack the capability to operate in sea ice conditions at the levels present in the Arctic. This gap in capability poses a risk to the United States' ability to defend itself,
advance its interests, and project power. The committee believes that the Flight III Arleigh Burke-class destroyers offer an opportunity to fill this gap. The committee understands that the current class of destroyers cannot be reasonably outfitted to act as icebreakers, but notes that industry experts have acknowledged that the ship class is ideally suited to improvements that will allow them to operate in ice-diminished seas.

Therefore, the committee directs the Secretary of the Navy to submit a report to the House Committee on Armed Services by March 31, 2023, on the feasibility of ice-hardening the Flight III Arleigh Burke-class destroyers. The report should include at a minimum:

1. the overall suitability of the Flight III Arleigh Burke-class destroyers for operations in ice-diminished waters;
2. the improvements in hull form and hull strength to allow for operations in ice-diminished waters;
3. the power plant’s ability to support the increase in displacement that would result from these improvements;
4. the improvements to auxiliary systems and combat systems for the destroyers to operate in the Arctic;
5. the increase in capability that ice-capable destroyers would provide to combatant commanders;
6. a comparative analysis of the feasibility of the improvements versus the capabilities they would provide; and
7. the application of these considerations in the design of the next-generation guided-missile destroyer (DDG-X).

Large surface combatant life extension and modernization

The committee is concerned about the Navy’s plan to inactivate 18 large surface combatants (LSC) between 2023 and 2027, and the resultant loss of combat capability and capacity. Accordingly, the committee directs the Secretary of the Navy to submit a report to the House Committee on Armed Services by March 31, 2023, on the Navy’s plan for cruisers and DDG-51 Flight I destroyers. The report should include:

1. an assessment of modernization and/or service life extension opportunities for each of the 18 LSCs planned for inactivation;
2. an assessment of estimated costs to life-extend and/or modernize these ships;
3. an assessment of the capability and capacity of original equipment manufacturers to perform potential life extensions and/or modernizations; and
4. an assessment of the resultant increase in capability and capacity if these ships were retained in the active inventory, vice inactivated per the 30-year shipbuilding plan.

Review of the Constellation-class guided-missile frigate program
In April 2020, the Navy competitively awarded a detail, design, and construction contract for the lead Constellation-class guided-missile frigate (FFG-62). To achieve increased capability, the Navy committed to procuring a ship that is significantly more expensive than its current class of small surface combatants, the littoral combat ships (LCS). The Navy expects the lead frigate to cost nearly $1.3 billion, with an average procurement cost of approximately $1.1 billion for the remaining 19 ships currently planned for the program. The shipbuilder is currently maturing its detail design to support construction of the lead ship beginning in 2022.

The Government Accountability Office (GAO) reported in 2019 that the Navy’s approach to acquiring the frigate was expected to help reduce the risk of design and technology problems that have plagued other Navy shipbuilding programs. However, GAO also found that the Navy asked for $1.3 billion to build the first ship before having a solid understanding of its design and cost. Given the widespread cost growth and schedule delays in Navy shipbuilding programs in general, including the LCS program, the committee directs the Comptroller General of the United States to review the Constellation-class guided missile frigate program. At a minimum, the review shall address the following elements:

1. Implication of FFG-62 design changes from the parent ship design on the Navy’s plans to mature the design to support construction of the lead ship within cost, schedule, and performance expectations;

2. The Navy’s acquisition approach, including any plans for procurement beyond the 20 Constellation-class frigates currently planned or for the potential addition of a follow yard to increase production;

3. Overall test and evaluation plans, including how the Navy’s new land-based engineering site for the frigate helps address technical and programmatic risk; and

4. Other items the Comptroller General determines appropriate.

The committee further directs the Comptroller General to provide a briefing to the House Committee on Armed Services not later than March 1, 2023, on the Comptroller General's preliminary findings and to present final results in a format and timeframe agreed to at the time of the briefing.

Vertical launch system on EPF ships

The committee is concerned about the Navy’s plan to inactivate 18 large surface combatants (LSC) between 2023 and 2027, and the resultant loss in firepower capacity due to the reduction in vertical launch systems (VLS) available to combatant commanders. Accordingly, the committee directs the Secretary of the Navy to conduct a feasibility study on converting expeditionary fast transport (EPF) ships into arsenal ships equipped with 64 VLS tubes. The committee further directs the Secretary of the Navy to submit a report to the House Committee on Armed Services by March 31, 2023, on its findings. The report shall include, at a minimum:
(1) an engineering assessment regarding suitability for EPF ships to be equipped with VLS;
(2) an assessment of additional combat systems upgrades necessary to enable EPF to employ weapons from a VLS;
(3) an assessment of additional manpower and training requirements associated with EPF employment of weapons utilizing VLS; and
(4) cost assessments associated with full implementation of VLS on EPF ships.

OTHER PROCUREMENT, NAVY

Items of Special Interest

Next Generation Surface Search Radar

The committee understands the AN/SPS-73(V)1B Next Generation Surface Search Radar (NGSSR) is a multi-mission software configurable radar that delivers improved situational awareness capabilities to the U.S. Navy surface fleet through advancements in safe navigation, periscope detection, fast attack defense, and drone detection.

The committee supports the NGSSR program and notes it has successfully achieved all phases of developmental testing and has transitioned to full-rate production, with radar systems being delivered to shipyards for installation across the surface fleet, including: aircraft carriers (CVN), guided-missile destroyers (DDG), guided-missile cruisers (CG), future frigate (FFG(X)), and amphibious platforms. However, understanding NGSSR is designated for accelerated deployment as a priority requirement from the Navy’s 2017 comprehensive review of the USS McCain and USS Fitzgerald collisions, the committee is concerned the Navy’s current contract vehicle does not support the expeditious fielding of NGSSR.

To ensure stability in fielding this critical warfighting system to the fleet, the committee encourages the Secretary of the Navy to transition or evolve the program from a development-type contract to one that matches the stage of program maturity and full-rate production. The committee is concerned that if the Navy does not accomplish this, the Navy will harm deployment of and urgency of fielding NGSSR to the surface fleet by inhibiting acquisition of long lead items; impeding stability for subcontractors; creating logistics and talent shortages; and delaying installation, training, and sparing efforts associated with mature radar systems and weapons programs. Therefore, the committee directs the Secretary of the Navy to provide a briefing to the House Committee on Armed Services by March 1, 2023, on the status of the NGSSR’s contract vehicle maturation and its proposed fielding plan across the surface fleet.

OTHER PROCUREMENT, AIR FORCE

Items of Special Interest
Infrared suppression improvements for C-130 and C-17 aircraft

The committee notes that current infrared (IR) missiles and man-portable surface-to-air missile systems (MANPADS) are outpacing the existing IR countermeasure flare dispensing and directed energy defensive systems associated with military aircraft. Given the increase of this threat, the committee believes there is merit in providing a wider range of military aircraft that are capable of reducing engine IR baselines to decrease their IR signature and increase the effectiveness of their existing IR countermeasures (IRCM) systems.

The committee understands that with the installation of a highly cost-effective and proven IR suppression system (IRSS), special operations AC-130J gunships have successfully decreased their IR signatures by at least 95 percent, substantially increasing their survivability and exponentially increasing the effectiveness of their existing IRCM systems. The committee also understands that the affordability of the IRSS provides the military services with an opportunity to rapidly and affordably employ this technology across a wider range of military aircraft to increase warfighter survivability and lethality.

As adversary missile capabilities continue to evolve and their proliferation increases globally, the committee believes the Air Force, Navy, Marine Corps, and the Air National Guard should leverage enhanced IR suppression systems to achieve greater heat signature reduction capabilities for its aviation fleets. Therefore, the committee directs the Secretary of the Air Force, in coordination with the Secretary of the Navy, to provide a briefing to the House Committee on Armed Services by October 3, 2022, on what planning and programming actions the Air Force, Navy, Marine Corps, and the Air National Guard are taking to reduce the IR signatures for each military service’s C-130s and C-17 aircraft, and identify the resources necessary to implement an expanded IRSS installation program for these aircraft.

PROCUREMENT, DEFENSE-WIDE

Items of Special Interest

Arctic access and air refueling missions

The committee understands the growing strategic importance of the Arctic region and the long distances military aircraft may have to fly to provide support. Therefore, the committee directs the Secretary of the Air Force to provide a briefing to the House Committee on Armed Services by August 1, 2023, on the Arctic and North Atlantic regions for air refueling mission capability.

Autonomous air-to-air refueling technology

The committee notes that the Secretary of the Air Force has proposed investments in capabilities to better enable a global operating model and modernize
key capabilities through the use of autonomous air-to-air refueling for manned and unmanned platforms. The committee supports innovative investments across the manned/unmanned spectrum and supports cost-effective options for extending America’s combat reach in denied and geographically dispersed regions across the globe.

Therefore, the committee directs the Secretary of the Air Force to provide a briefing to the House Committee on Armed Services by August 1, 2023, on the efforts to develop autonomous air-to-air refueling capabilities. Specifically, the brief shall address:

(1) current efforts to demonstrate new autonomous air-to-air refueling techniques;

(2) efforts to scale and adopt new autonomous air-to-air refueling techniques across a range of Department of Defense airborne platforms (manned and unmanned); and

(3) use of commercial technologies in modeling new autonomous air-to-air refueling capabilities to determine effectiveness, future technology development priorities, and alternative employment concepts that support increased manned/unmanned teaming operations and combat reach.

E-6B recapitalization

The committee is concerned over the current E-6B’s fleet availability during a nuclear event. Fleet size and sustainment challenges with aging aircraft and parts obsolescence fail to meet the operational tempo required for current and future concepts of operations for air-to-submarine communications. Furthermore, capability gaps and emerging threats from strategic competitors necessitate the modernization of existing onboard nuclear command, control, and communications (NC3) systems for execution of Presidential orders in contested environments. Therefore, the committee directs the Secretary of the Navy to provide a briefing to the House Committee on Armed Services by February 1, 2023, that includes the plan for the recapitalization program to include initial procurement of selected airframes for prototyping and modernization of onboard nuclear command and control systems. The recapitalization program must provide the earliest possible solution on the fastest schedule to prevent further delays and address the growing capability gap.

TITLE II—RESEARCH, DEVELOPMENT, TEST, AND EVALUATION

Research, Development, Test, and Evaluation, Navy

Items of Special Interest

Anti-submarine warfare with multi-day attritable Group III Unmanned Aerial Systems
The committee is encouraged with the Navy’s use of ultra-endurance Group III Unmanned Aerial Systems (UAS) to address the limitation of existing manned and unmanned anti-submarine warfare detection. These capabilities will play a key role in deterrence and ensuring the rights of sovereign countries at sea. The committee directs the Secretary of the Navy to provide a briefing to the House Committee on Armed Services by March 1, 2023, on the use of long-range, multi-day endurance Group III UAS in anti-submarine warfare. This briefing should include:

1. total program development cost;
2. program costs included in the fiscal year; and
3. overall development/employment timetable to address these critical anti-submarine warfare surveillance capabilities.

**Marine Corps autonomous underwater vehicle capabilities**

The committee recognizes the critical role that autonomous underwater vehicles (AUVs) will play in maintaining U.S. strategic advantage in the undersea domain, particularly in the U.S. Indo-Pacific Command area of responsibility, and welcomes the recent direction of the Commandant of the Marine Corps to integrate AUVs as part of the service’s modernization efforts. The committee supports the Marine Corps’ efforts to evaluate and procure long-range, multi-mission AUVs with flexible payload interfaces as a critical Marine Corps capability that will deliver a significant warfighting advantage in the undersea domain. As the Marine Corps continues to incorporate AUVs into its inventory and operational concepts, the committee supports efforts to ensure these vehicles are multi-mission capable, including intelligence, surveillance, and reconnaissance (ISR), logistical resupply, and kinetic effect mission sets. These capabilities will support operational and strategic-level missions including anti-surface warfare, seabed warfare, intelligence preparation of the battlefield, reconnaissance and counter reconnaissance, ISR and targeting, and cross-domain intelligence.

The committee encourages the Secretary of the Navy and the Commandant of the Marine Corps, in coordination with the Chief of Naval Operations, to continue to develop capabilities utilizing AUVs as enablers in the undersea domain in support of the Naval Force. Further, the committee directs the Secretary of the Navy, in coordination with the Commandant of the Marine Corps, to provide a briefing to the House Committee on Armed Services by February 1, 2023, detailing the Marine Corps’ plans to integrate autonomous underwater vehicles into Marine Corps concept of operations development, its current and planned test and evaluation schedule for AUVs, and its resourcing, development, and deployment plan over the Future Years Defense Program.

**Next-generation expeditionary and reconnaissance watercraft**

The committee notes that the U.S. Marine Corps has identified gaps and requirements for a reconnaissance battalions’ need for reconnaissance and insertion craft. The committee supports the Commandant’s efforts and U.S. Marine Corps
operations envisioned in current concepts. Littoral maneuver from the sea will entail surveillance, collections, target acquisition, battlespace shaping and reconnaissance. The committee further supports a platform with reduced signature from adversary sensors to enhance survivability and efficacy. The committee believes the Secretary of the Navy should rapidly assess and acquire multi-modal insertion maritime platforms for operating across a distributed battlefield. Therefore, the committee directs the Secretary of the Navy to provide a briefing to the House Committee on Armed Services by November 1, 2022, as to the requirements associated with this effort to include crewed and un-crewed options and the plan of action to deliver this capability.