AMENDMENT TO
RULES COMMITTEE PRINT 119–8
OFFERED BY MR. MAGAZINER OF RHODE ISLAND

At the end of subtitle B of title X, add the following:

SEC. 10___. ADVANCED MANUFACTURING TECHNOLOGY TRANSFER FOR NAVAL SHIPBUILDING.

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

(1) The United States Navy faces critical challenges in submarine and surface ship production, with delivery schedules behind schedule despite nearly doubling shipbuilding budgets over the past two decades.

(2) The submarine industrial base requires approximately 10,000 new skilled workers annually, far exceeding current pipeline outputs from traditional training programs.

(3) United States shipyards operate with significantly lower digital maturity compared to peer industries such as aerospace and automotive manufacturing.

(4) Advanced manufacturing technologies including digital twins, additive manufacturing, artifi-

cial intelligence-driven decision tools, and robotics offer substantial potential to accelerate build timelines, reduce costs, and attract modern skilled workers as well as build the skills of the current workforce.

(5) Academic institutions, including those partnered with the National Institute for Undersea Vehicle Technology, have demonstrated advanced manufacturing capabilities that could benefit naval shipbuilding operations, but lack adoption pathways due to cost, risk, and schedule.

(6) According to industry reports, academic research partnerships have already saved up to 10 years in development cycles for various technology areas in submarine production programs.

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

(1) the Navy should prioritize the rapid adoption of advanced manufacturing technologies developed by either the ManTech programs of the Department or United States academic institutions funded by the Department or other Federal agencies that could contribute to modernizing shipyard operations and accelerate vessel production timelines;

(2) prime shipbuilding contractors should establish formal partnerships with universities and research institutions as well as small and medium manufacturers in their supply chains to facilitate technology transfer and workforce development; and

(3) students and recent graduates with expertise in advanced manufacturing, digital engineering, robotics, and artificial intelligence should be integrated into shipyard modernization efforts to address workforce shortages while advancing technological capabilities.

(c) ADVANCED MANUFACTURING TECHNOLOGY TRANSFER PROGRAM.—

(1) ESTABLISHMENT.—The Secretary of the Navy, in coordination with the Secretary of Defense, shall establish an Advanced Manufacturing Technology Transfer Program to facilitate the adoption of cutting-edge manufacturing technologies developed at academic institutions into naval shipbuilding operations.

(2) PROGRAM OBJECTIVES.—In carrying out the program required under paragraph (1) the Secretary of the Navy shall—

(A) identify advanced manufacturing technologies developed at universities and research

institutions that could enhance naval shipbuilding efficiency, quality, and timeline acceleration;

(B) establish formal partnerships between the Navy, prime shipbuilding contractors, and academic institutions for technology demonstration, implementation, and pilot demonstrations;

(C) create pathways for students and graduates with relevant technical expertise to participate in shipyard modernization projects;

(D) develop standardized protocols for evaluating, testing, and scaling academic research for shipyard implementation;

(E) establish secure facilities and procedures to protect sensitive technologies and manufacturing processes from foreign adversaries; and

(F) create training curricula that promotes advanced manufacturing techniques with traditional shipbuilding skills.

(3) COLLABORATIVE CENTERS.—The Secretary of the Navy is authorized to establish or support Advanced Manufacturing Centers at key shipbuilding locations, which shall—

(A) serve as testing and demonstration facilities for academic technologies;

(B) provide hands-on training for shipyard workers, students, and recent graduates;

(C) facilitate collaboration between university faculty, industry experts, and Government researchers;

(D) support both prime contractors and subcontractors in adopting new technologies; and

(E) maintain appropriate security clearances and protocols for sensitive research and development activities.

(d) CONTRACTOR INCENTIVES.—

(1) TECHNOLOGY ADOPTION REQUIREMENTS.—As part of a prime shipbuilding contract, the Secretary of the Navy shall require prime shipbuilding contractors to—

(A) establish formal partnerships with at least two academic institutions with relevant advanced manufacturing capabilities;

(B) demonstrate measurable progress in adopting advanced manufacturing technologies by not later than 24 months after the date on which the contract is awarded;

(C) incorporate qualified students and recent graduates into technology implementation teams; and

(D) submit to the Secretary annual reports on technology transfer activities, workforce development outcomes, and manufacturing efficiency improvements.

(2) INCENTIVE STRUCTURE.—The Secretary of the Navy may provide performance incentives to a contractor if the contractor—

(A) exceeds technology adoption benchmarks;

(B) demonstrates significant improvements in production timelines or cost efficiency through advanced manufacturing implementation;

(C) successfully integrates academic personnel into shipyard operations;

(D) establishes sustainable partnerships with multiple academic institutions and local small businesses; and

(E) allows for 100 percent reimbursement of independent research and development needed for technology adoption activities.

(e) WORKFORCE DEVELOPMENT.—

(1) STUDENT AND GRADUATE INTEGRATION.—The program established under subsection (c) shall include the establishment of pathways for students and recent graduates to participate in shipyard modernization through—

(A) paid internship programs focused on advanced manufacturing implementation;

(B) graduate fellowships for research directly applicable to naval shipbuilding challenges;

(C) job training programs that combine traditional shipbuilding skills with advanced manufacturing expertise;

(D) collaborative projects between university students and experienced shipyard workers; and

(E) security clearance processing assistance for qualified students and graduates.

(2) CURRICULUM DEVELOPMENT.—The Secretary of the Navy shall support the development of specialized curricula in—

(A) digital shipyard innovation and implementation;

(B) artificial intelligence applications in manufacturing scheduling and optimization;

(C) robotics integration for high-mix, low-volume production environments;

(D) additive manufacturing for maritime applications; and

(E) systems engineering for advanced manufacturing integration.

(f) REPORTING REQUIREMENTS.—

(1) ANNUAL REPORT.—Not later than March 1 of each year, the Secretary of the Navy shall provide to the congressional defense committees a briefing on the Advanced Manufacturing Technology Transfer Program established under this section. Each such briefing shall include, for the year covered by the briefing—

(A) a comprehensive assessment of technologies identified, evaluated, and transitioned for shipyard implementation;

(B) challenges encountered in technology transfer and recommended solutions;

(C) accomplishments from technology transitions and partnerships established between the Navy, contractors, and academic institutions;

(D) metrics on workforce development outcomes, including numbers of students and graduates integrated into shipyard operations;

(E) quantitative analysis of improvements in shipbuilding timelines, costs, and quality resulting from technology adoption; and

(F) recommendations for program expansion or modification.

(2) CLASSIFIED ANNEX.—Each annual briefing required under paragraph (1) may include a classified discussion containing sensitive information related to specific technologies, security procedures, or competitive advantages.

(g) AUTHORIZATION OF APPROPRIATIONS.—

(1) FISCAL YEAR 2026.—There is authorized to be appropriated for fiscal year 2026, $50,000,000 to carry out this section.

(2) FISCAL YEARS 2027–2030.—There is authorized to be appropriated for each of fiscal years 2027 through 2030, $500,000,000 to carry out this section.

(h) DEFINITIONS.—In this section:

(1) The term ''advanced manufacturing technologies'' includes digital twins, additive manufacturing, artificial intelligence-driven decision tools, robotics and automation systems, digital engineering platforms, and other cutting-edge manufacturing

processes that can enhance shipbuilding efficiency and quality.

(2) The term ''prime shipbuilding contractors'' means contractors holding primary contracts for the construction, maintenance, or modernization of Navy vessels, including submarines and surface ships.

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