

LOG ID	REV	MEMBER	MARKUP LOC	DESCRIPTION	MARKUP ACT
8	1	Slotkin, Elissa	TAL	Directs a briefing on Army modeling and simulation in support of ground vehicle development	EB 1
49	0	Brown, Anthony G.	TAL	Directs a briefing from the Army on the competitive process for the Air to Ground Networking Radio (AGNR) program.	EB 1
117	2	Kelly, Trent	TAL	Directs the Comptroller General of the United States to assess the Army's tactical wheeled vehicle strategy and implementation efforts.	EB 1
118	2	Kelly, Trent	TAL	Directs a briefing on the Army's UH-60V total force fielding strategy.	EB 1
152	2	Kelly, Trent	TAL	Directs a briefing on the status and transition plan for the Close Combat Lethality Task Force	EB 1
195	2	Abraham, Ralph Lee	TAL	To direct the Secretary to provide a report on non-traditional manned ISR platforms.	EB 1
242	2	Wittman, Robert	TAL	Directs a briefing on the requirements for combat and tactical vehicles to include flame resistant standards and the feasibility and availability of incorporating materials inside combat vehicles that contain flame resistant properties.	EB 1
244	1	Hartzler, Vicky	TAL	Directs the Secretary of the Army to provide a briefing to the House Armed Services Committee by March 1, 2021, on the Army's fielding strategy and plans to accelerate fielding of UH-60M helicopters to the Army National Guard.	EB 1
245	1	Hartzler, Vicky	TAL	Directs U.S. Marine Corps Aviation to provide a briefing on Modular Aviator Body Armor Vest Acquisition Strategy	EB 1
268	0	Scott, Austin	TAL	Modifies current section 122 regarding JSTARS divestment to include "capacity" and JSTARS fleet size.	EB 1
271	2	Bishop, Rob	TAL	Directs a briefing on Air Force plans to integrate Synthetic Aperture Radar Systems on A-10 aircraft	EB 1
273	0	Cheney, Liz	TAL	Directs a briefing on the Army's acquisition strategy to procure advanced and modernized magazines for the Next Generation Squad Weapon Program.	EB 1
337	1	Mitchell, Paul	TAL	DRL requiring the Army to brief HASC about the policies, programs, and funding to address corrosion prevention and control on Army aircraft, a plan to accelerate ACDS efforts, and consideration given to creating a program of record for this capability.	EB 1

LOG ID	REV	MEMBER	MARKUP LOC	DESCRIPTION	MARKUP ACT
349	0	Wilson, Joe	TAL	Directs a briefing to HASC on the Medium Range Interceptor Capability (MRIC) program	EB 1
398	2	Banks, Jim	TAL	Directs a briefing on the acquisition strategy for the Future Tactical Unmanned Aerial System (FTUAS) program.	EB 1
431	2	Gallagher, Mike	TAL	Directs Army briefing on its near and long-term strategy to meet current and future requirements for tactical wheeled vehicles.	EB 1
519	0	Brooks, Mo	TAL	Directs a briefing on the Army's plans to use artificial intelligence and machine learning technology for missile defense systems.	EB 1
558	1	Turner, Michael	TAL	Report on Counter-Radar Electronic Warfare and Signal Processing Capabilities.	EB 1
579	2	Bergman, Jack	TAL	Directs a briefing on the utilization of the Distributed Aperture Infrared Countermeasure System in light and medium rotary aircraft to ensure aircraft survivability.	EB 1
580	1	Kelly, Trent	TAL	Directs a briefing on the resourcing and programming strategy for the small caliber ammunition industrial base	EB 1
582	1	Brown, Anthony G.	TAL	Directs the Secretary of the Army to provide a briefing on the SBIR efforts within the NGSW and NGSW-FC programs.	EB 1
619	1	Waltz, Michael	TAL	Requires a briefing by the Assistant Secretary of the Air Force for Acquisition, Technology, and Logistics on Vanguard programs of the Air Force and how the Air Force plans to transition any proven technologies for operational use by the warfighter.	EB 1
624	0	Horn, Kendra S.	TAL	Supports testing and certification of helicopter load safety stabilization technology.	EB 1
631	1	Sherrill, Mikie	TAL	Directs a briefing on technical issues and related development plans for the Extended Range Cannon Artillery (ERCA) program.	EB 1

Amendment to H.R. 6395
National Defense Authorization Act for Fiscal Year 2021

Offered by: Representative Elissa Slotkin

In the appropriate place in the report to accompany H.R. 6395, insert the following new Directive Report Language:

Modeling and Simulation for Ground Vehicle Development and Sustainment

The Committee recognizes the importance and value of modeling and simulation (M&S) in supporting digital design, experimentation, and developmental and operational test and evaluation for military ground vehicle systems. When used appropriately, modeling and simulation can help save money and time delivering affordable technology to soldiers faster. The Committee notes that the Army's Ground Vehicle Systems Center (GVSC) has been using available funds to improve and expand its M&S capabilities through public-private partnerships and finding M&S tools developed by entities outside the military and brought to the Center's attention through their innovative outreach program. The Committee understands that partnerships with industry, academia, and non-profit science, technology, engineering, and math organizations could increase the likelihood of success for technology development and transfers between GVSC and non-traditional defense industry and organizations. In this regard, the committee directs the Assistant Secretary of the Army for Acquisition, Logistics, and Technology, not later than December 21, 2020, to provide a briefing to the House Armed Services Committee that outlines the Army's plans, if any, to support the improvement and expansion of GVSC's internal and external M&S capabilities and their relationship to the Army's high priority programs for combat and tactical vehicle modernization and sustainment.

**Amendment to H.R. 6395
National Defense Authorization Act for Fiscal Year 2021**

Offered by: Mr. Brown of Maryland

In the appropriate place in the report to accompany H.R. 6395, insert the following new Directive Report Language:

Army Aviation Radio Modernization

The committee is encouraged by the Army's efforts to modernize radio communication technology and increase interoperability through the Integrated Tactical Network (ITN) for operational rotorcraft platforms and ground systems. The committee supports the Army's use of program of record radios as well as use of a federated integration approach under the Air to Ground Networking Radio (AGNR) program. The committee recognizes the critical need to maintain radio development and production within the industrial base and believes that an open and competitive process will deliver the most cost effective capability to the Army.

As such, the committee directs the Assistant Secretary of the Army for Acquisition, Logistics and Technology to provide a briefing to the House Committee on Armed Services no later than October 1, 2020 on the acquisition strategy for the AGNR program, to include the how the Army plans to use full and open competition to ensure best value for radio integration into existing rotorcraft platforms, the current inventory of available radios in existing programs of record, the test and evaluation plan, and the impact of the AGNR program on the tactical radio industrial base.

Amendment to H.R. 6395
National Defense Authorization Act for Fiscal Year 2021

Offered by: Mr. Kelly of Mississippi

In the appropriate place in the report to accompany H.R. 6395, insert the following new Directive Report Language:

Assessment of the Army's tactical wheeled vehicle strategy and implementation efforts

The Committee notes that tactical wheeled vehicle fleets throughout the Army appear to be aging without significant technology upgrades or replacement by taking advantage of commercial industry investments in new technologies such as emissions controls, autonomous operation, and electric and hybrid-electric drive. The Committee is concerned about the potential impacts this has for the defense industrial base, the acquisition of commercially available technology, and the broader implications this may have for competition and cost for future wheeled vehicles acquisitions. The committee is interested to learn more about the analysis, decision-making processes, and the frequency with which technological upgrade or replacement of tactical wheeled vehicles could, should, or should not be competed. Therefore, the committee directs the Comptroller General of the United States, not later than March 1, 2021, to provide the House Armed Services Committee a report that assesses the Army's tactical wheeled vehicle strategy and implementation efforts. The assessment should include an analysis of the tactical wheeled vehicle industrial base and potential opportunities, if any, for significant advancements in technology and savings through competition. The assessment should also include the identification of and recommendations for overcoming obstacles to insertion of new technology and competition. The committee further directs the Comptroller General to provide a briefing to the House Armed Services Committee not later than December 11, 2020, on the preliminary findings of its assessment.

Amendment to H.R. 6395
National Defense Authorization Act for Fiscal Year 2021

Offered by: Mr. Kelly of Mississippi

In the appropriate place in the report to accompany H.R. 6395, insert the following new Directive Report Language:

UH-60V Total Force Fielding Strategy

The committee believes the Army's UH-60V modernization program is critical for ensuring legacy Blackhawk helicopters remain safe and relevant for multi-domain operations. The committee supports the Army's current plan to field the UH-60V across all components in order to maintain fleet and mission parity within the Army. Further, the Committee is aware that the Army's UH-60V acquisition strategy indicates that 48 UH-60Vs to be delivered per year once the program enters full rate production. Given the importance of this modernization effort, the committee believes the Army may want to consider options to accelerate production and fielding to include the potential of supplemental industry support or expanding capacity at Corpus Christi Army Depot. Therefore, the committee directs the Secretary of the Army to provide a briefing to the House Committee on Armed Services by March 1, 2021 on the advisability and feasibility of accelerating fielding of UH-60Vs to both the active and reserve components and address potential courses of action that would be required for this acceleration.

Amendment to H.R. 6395
National Defense Authorization Act for Fiscal Year 2021

Offered by: Mr. Kelly of Mississippi

In the appropriate place in the report to accompany H.R. 6395, insert the following new Directive Report Language:

Close Combat Lethality Task Force

The committee understands the Secretary of Defense established the Close Combat Lethality Task Force (CCLTF) in order to improve the readiness of combat capabilities of infantry and squad formations. The committee notes the CCLTF has focused its efforts on reforming manpower policy, improving training and overall military wellness, human performance initiatives, as well as ensuring the fielding of advanced equipment and weapons systems for these formations. These efforts are particularly noteworthy as technology proliferation has eroded the comparative advantage of these forces, and, with renewed great power competition, the committee believes the Department of Defense should continue to focus on investments that support improving the lethality of close combat formations that historically account for the majority of U.S. casualties. The committee is aware the Secretary of Defense has recently designated the Secretary of the Army as the lead for the CCLTF and that the CCLTF would transition to the Department of the Army.

Therefore, the committee directs the Secretary of the Army to provide a briefing to the House Committee on Armed Services by December 1, 2020 on the transition plan for the CCLTF to include organizational and governance changes that may occur, planned resources across of the future years defense program for the CCLTF, and overall coordination efforts with the United States Marine Corps and United States Special Operations Command.

**Amendment to H.R. 6395
National Defense Authorization Act for Fiscal Year 2021**

Offered by: Rep. Ralph Abraham

In the appropriate place in the report to accompany H.R. 6395, insert the following new Directive Report Language:

Report on Non-Traditional Manned ISR

The committee understands the critical importance of intelligence, surveillance, and reconnaissance (ISR) platforms and capabilities for operational missions. The committee notes that there is currently a high demand for more robust ISR capacity and capability throughout the military services in order to respond to global combatant command operational requirements. The committee further notes that currently the Department of Defense is only able to address approximately 20 percent of needed ISR capability. As such, the committee believes the Department may want to consider other opportunities and capabilities in addressing manned ISR capacity demands such as non-traditional forms of manned ISR, that could include a volunteer service similar to the Civil Air Patrol. The committee expects that any use of non-traditional forms of manned ISR for operations would be consistent with all laws and regulations concerning the collection of intelligence, including civil liberty protections.

The committee directs the Secretary of Defense to provide a report to the House Committee on Armed Services by December 31, 2020 on the advisability and feasibility of the potential to use non-traditional manned ISR platforms that are piloted by volunteer civilians, and consistent with all laws and regulations concerning the collection of intelligence, including civil liberty protections. This report should consider where these platforms may be best suited to perform as well as some of the challenges and limitations that would be associated with civilian contracted pilots performing manned ISR operations. The report should also address the feasibility of implementing a pilot program to test use of these platforms in theater.

Amendment to H.R. 6395
National Defense Authorization Act for Fiscal Year 2021

Offered by: Mr. Wittman of Virginia

In the appropriate place in the report to accompany H.R. 6395, insert the following new Directive Report Language:

Combat and tactical vehicle interior flame resistant materials

The committee is aware that the military services have not established baseline requirements for flame resistant vehicle soft armor, such as spall liners, and other internal materials. The Committee is concerned that the Army and the Marine Corps may not have adequately addressed this issue in its requirements analysis and development processes and, therefore, encourages each to consider including flame resistant standards, like those outlined in the Military Handbook 684, “Design of Ground Combat Vehicles for Survivability,” among the technical requirements for the modernization of combat and tactical vehicles. In this regard, the committee directs the Secretary of the Army, in coordination with the Secretaries of the Navy and the Air Force, not later than December 15, 2020, to provide a briefing to the House Committee on Armed Services, on the availability, feasibility, suitability, and affordability of flame resistant materials and their potential for increasing the survivability and safety of occupants inside combat and tactical vehicles.

**Amendment to H.R. 6395
National Defense Authorization Act for Fiscal Year 2021**

Offered by Mrs. Hartzler of Missouri:

In the appropriate place in the report to accompany H.R. 6395, insert the following new Directive Report Language:

UH-60M Army National Guard Fielding Strategy

“The committee understands the UH-60M Black Hawk is the most modernized utility helicopter in the Army’s inventory. The UH-60M is a digital networked platform that provides greater range and lift in order to support maneuver forces through air assault, general support command and control, and aeromedical evacuations. The committee notes the UH-60M Black Hawk is also a critical dual-use item for Army National Guard forces performing Title 32 missions.

Therefore, the committee directs the Secretary of the Army, in conjunction with the Chief of the National Guard Bureau and the Director of the Army National Guard, to provide a briefing to the House Committee on Armed Services by March 1, 2021, on the Army’s fielding strategy and plans to accelerate fielding of UH-60M helicopters to the Army National Guard.”

**Amendment to H.R. 6395
National Defense Authorization Act for Fiscal Year 2021**

Offered by Mrs. Hartzler of Missouri:

In the appropriate place in the report to accompany H.R. 6395, insert the following new Directive Report Language:

Modular Aviator Body Armor Vest Acquisition Strategy

“The committee is aware that the current aviation life support equipment flight vests worn by Marine helicopter aircrews have excessive bulk which can impede the operational performance of precision mission tasks. The committee notes that U.S. Marine Corps Aviation has a requirement for a modular aviator body armor vest (ABAV) system that can improve mobility and performance, while enhancing survivability by reducing weight, bulk, and heat stress. The committee notes in fiscal year 2020, \$2.2 million was requested to purchase 1,000 vests for UH-1Y and AH-1Z, but a plan has not been established to outfit other airframes such as the V-22 and CH-53. Therefore, the committee directs U.S. Marine Corps Aviation to provide a briefing to the House Committee on Armed Services by March 1, 2021, on its plan to equip CH-53 and V-22 airframes with ABAV systems.”

AMENDMENT TO H.R. 6395
OFFERED BY MR. AUSTIN SCOTT OF GEORGIA

In section 122 (log 71272), strike paragraph (1) and
insert the following new paragraph:

1 (1) the Secretary has identified a replacement
2 capability and capacity for the current fleet of 16
3 E-8 Joint Surveillance Target Attack Radar System
4 aircraft to meet global combatant command require-
5 ments; and



Amendment to H.R. 6395
National Defense Authorization Act for Fiscal Year 2021

Offered by: Mr. Rob Bishop (UT-01)

In the appropriate place in the report to accompany H.R. 6395, insert the following new Directive Report Language:

A-10 Synthetic Aperture Radar Improvements

The committee supports continued Air Force efforts to modernize and upgrade the A-10 fleet of aircraft. However, the committee believes the Air Force could take further steps to reduce aircrew risk and enhance the aircraft's capability to perform close air support in adverse weather and low-visibility environmental conditions. The committee understands that a recent Air Force study entitled "A-10C DoDAF View CV-3 Capability Phasing Roadmap, Revision 6.6," dated January 2, 2018, determined that integration of a synthetic aperture radar (SAR) could resolve the capability deficiencies in the areas of locating, identifying, tracking, and engaging targets in the aforementioned types of environmental conditions. Consequently, the committee also notes that the Air Force is currently performing an operational utility evaluation by integrating SAR capability on A-10 aircraft and evaluating workload impacts on A-10 aircrews.

Therefore, the committee directs the Secretary of the Air Force to provide a briefing to the House Committee on Armed Services by March 1, 2021, on the status and any known findings from the operational utility evaluation of integrating SAR capability onto A-10 aircraft.

Amendment to H.R. 6395
National Defense Authorization Act for Fiscal Year 2021

Offered by: Ms. Cheney of Wyoming

In the appropriate place in the report to accompany H.R. 6395, insert the following new Directive Report Language:

Briefing on Army's Carbine Magazine Development Strategy

“The committee supports the Department of the Army’s Next Generation Squad Weapons (NGSW) program and commends the service for continuously assessing new and advanced materials, such as polymer compounds, to provide warfighters with the best equipment necessary for mission success. As the Army proceeds with the NGSW program, the committee believes that the service should seek the highest-performing 6.8mm magazine composed of modern materials to maximize soldier lethality and improve soldier survivability.

The committee notes that the Army has completed several 5.56mm magazine tests, the results of which led the Departments of the Air Force, Marine Corps, Coast Guard, and Special Operations Command to formally adopt a high-performing polymer magazine that the Army has authorized for its own acquisition. The committee views synchronization in magazine selection between the services as a positive development that advances force interoperability and increases military preparedness. The committee believes that these outcomes should inform the Army’s magazine selection process under the NGSW program.

The committee expects the Army to implement lessons learned from previous magazine procurement and testing and require that the highest-performing magazines be used in NGSW rifles. The committee therefore directs the Secretary of the Army to provide a briefing to the congressional defense committees not later than October 30, 2020, on the Army’s comprehensive strategy on NGSW magazine procurement. The briefing shall include a description of the Army’s expected requirements for the NGSW magazines, such as performance metrics, materials, and visual indicators for rounds remaining.”

Amendment to H.R. 6395 National Defense Authorization Act for Fiscal Year 2021

Offered by: Mr. Mitchell of Michigan

In the appropriate place in the report to accompany H.R. 6395, insert the following new Directive Report Language:

Accelerating Army Aircraft Cleaning and Deicing Systems for rotary-wing aircraft

The committee has long expressed concern about the impact of corrosion on aviation assets and supported efforts to improve aircrew safety, aircraft availability, and aircraft and unit readiness through cost-effective corrosion mitigation. The committee understands that an aircraft cleaning and deicing system (ACDS) capability would help prevent and control corrosion of aviation assets through development and testing of an aircraft washing system. The committee remains concerned by the Army's current plans for ACDS which moves ACDS development and demonstration further into the future years defense program despite a persistent requirement to mitigate corrosion on aircraft. The committee is aware that existing commercial-off-the-shelf aircraft cleaning systems are currently available for test and evaluation and expects the Army to consider these systems as a potential option to rapidly address corrosion mitigation issues for aviation assets.

The committee directs the Secretary of the Army to provide a briefing to the House Committee on Armed Services by December 15, 2020, on the Army's plan to prevent and control the impact of corrosion on rotary- and fixed-wing aircraft. The briefing shall include, but not be limited to a detailed description of policies, programs, funding, and investment strategy to address corrosion prevention and control on Army aircraft, a plan to accelerate ACDS efforts, evaluations of commercial off the shelf systems, and consideration given to creating a program of record for this capability.

**Amendment to H.R. 6395
National Defense Authorization Act for Fiscal Year 2021**

Offered by: Rep. Joe Wilson

In the appropriate place in the report to accompany H.R. 6395, insert the following new Directive Report Language:

Medium Range Interceptor Capability (MRIC)

The committee notes the Marine Corps' effort to take advantage of existing capabilities and components, including, but not limited to, the AN/TPS-80 G/ATOR radar system, the common aviation command and control system, and the Iron Dome battle management and weapons control and Tamir missiles, to rapidly field a Medium Range Interceptor Capability (MRIC) under the Ground Based Air Defense family of systems. The committee understands the MRIC is intended to provide a critically needed capability to defend Marine Air Ground Task Force (MAGTF) sites primarily against cruise missiles and secondarily against manned and unmanned aircraft and other aerial threats. The committee is aware that missile, rocket, mortar threats have become increasingly prevalent with attacks on both U.S. forces and our allies in Iraq.

Therefore, the committee directs the Commanding General of the Marine Corps Combat Development Command to provide a briefing to the House Committee on Armed Services no later than December 21, 2020 on the timeline and funding plan to develop, test, and procure MRIC, including costs, requirements, and any opportunities or challenges associated with accelerating the program to respond to increased threats to deployed U.S. Marine forces.

Amendment to H.R. 6395
National Defense Authorization Act for Fiscal Year 2021

Offered by: Mr. Jim Banks of Indiana

In the appropriate place in the report to accompany H.R. 6395, insert the following new Directive Report Language:

A Report on the Future Tactical Unmanned Aerial System Program

The committee understands the Army's Future Tactical Unmanned Aircraft System (FTUAS) would serve as a replacement for the RQ-7B Shadow in Army brigade combat teams. Further, the committee notes the FTUAS would be a Group 2/3 unmanned aircraft system (UAS) with a point take-off and landing capability to provide the BCT commander with a joint all-domain operations capable, runway independent, reconnaissance, surveillance, and target acquisition capability. The committee is pleased the Department of Army is taking steps to advance the development and procurement of next generation tactical UAS programs. However, recognizing the need to grow the domestic UAS industry and the rapid pace of technological innovation, the committee expects the Army would fully evaluate and consider all domestic UAS proven technologies already fielded under a Small Business Innovation Research grant phase 2 or 3 contract, before issuing a production award under the Army's FTUAS program.

The committee directs the Secretary of the Army to provide a briefing to the House Committee on Armed Services by February 15th, 2021, that includes but is not limited to: (1) the FTUAS program's progress to date; (2) the current acquisition strategy and schedule for FTUAS prototyping and development; (3) planned funding and resources required for FTUAS across the future years defense program.

Amendment to H.R. 6395
National Defense Authorization Act for Fiscal Year 2021

Offered by: Mr. Gallagher of Wisconsin

In the appropriate place in the report to accompany H.R. 6395, insert the following new Directive Report Language:

Tactical Wheeled Vehicle Industrial base

The committee is concerned by the strategic risk the Army may be accepting in the defense tactical wheeled vehicle (TWV) industrial base. The committee notes the Army has specifically used tactical wheeled vehicles, such as the Family of Medium Tactical Vehicles (FMTV), Joint Light Tactical Vehicle (JLTV), High Mobility Multi-Purpose Wheeled Vehicle (HMMWV), and Heavy Expanded Mobile Tactical Truck (HEMTT), as bill payers for its higher priority development and modernization programs.

The committee further notes that truncated plans and resources for the development or procurement of upgrades and replacements for these vehicles has resulted in uncertainty and a lack of predictability over time. This ultimately increases cost for the Army as well as creates significant risks in the loss of capacity and capability in the TWV industrial base. As the committee predicted two years ago, the drastic, unexpected decrease in procurement projections for these vehicle programs has negatively affected the medium and heavy tactical wheeled vehicle industrial base. The committee believes the TWV industrial base needs stability and predictability from the Army in its near and longer-term plans and programs that appropriately manages risks through investment in production levels that meet or exceed agreed upon minimum sustaining rates ensuring its availability to support the Army in current operations and into the future.

Accordingly, the committee directs that the Secretary of the Army, not later than December 15, 2020, to provide a briefing to the House Committee on Armed Services on the Army's near and long-term strategy to meet the Army current and future requirements for tactical wheeled vehicles. The briefing should also address how the Army will assess and manage risk in the industrial base to include detailed development and acquisition plans as well as funding profiles through the future years defense program.

**Amendment to H.R. 6395
National Defense Authorization Act for Fiscal Year 2021**

Offered by: Rep. Mo Brooks (AL-05)

In the appropriate place in the report to accompany H.R. 6395, insert the following new Directive Report Language:

Pragmatic Artificial Intelligence and New Technology (PAINT)

The committee notes that artificial intelligence and machine learning are being leveraged by the Army to help solve complex problems, including designing testing scenarios for missile defense systems. The committee is encouraged by the use of this technology by the Army's Space and Missile Defense Command and believes an opportunity exists to continue leveraging artificial intelligence and machine learning techniques as the Army's Integrated Air and Missile Defense Program continues to integrate current and future air and missile defense sensors and weapons.

Therefore, the committee directs the Secretary of the Army to brief the House Committee on Armed Services not later than January 15, 2021, on the Army's plans to incorporate artificial intelligence techniques in its efforts to continue development of near-term engineering solutions to improve existing missile defense systems to keep pace with current and anticipated missile threats.

Amendment to H.R. 6395
National Defense Authorization Act for Fiscal Year 2021

Offered by: Mr. Turner of Ohio

In the appropriate place in the report to accompany H.R. 6395, insert the following new Directive Report Language:

Report on Counter-Radar Electronic Warfare and Signal Processing Capabilities

The committee understands that advances in foreign anti-access and electronic warfare technologies require commensurate advances in technologies designed to ensure the comparative advantage and dominance in U.S. electromagnetic spectrum operations capability. The committee understands there is a potential requirement and need to identify advanced mobile threats within milliseconds, to negate their operational effectiveness and nearly simultaneously provide technical electronic battle damage assessment.

The committee is aware the Department of Defense has demonstrated a high-fidelity open-air scene target generator capability. The committee understands this capability would provide a suite of active operations options for dominance in contested radio frequency spectrum environments. The committee notes this capability has completed initial free-space testing at a government range and understands that this is a unique capability in that it can operate within the adversary system sensor processing cycle and is not readily detectable as an electronic warfare technique.

Therefore, the committee directs the Assistant Secretary of the Air Force for Acquisition, Technology and Logistics, in coordination with the Secretary of the Air Force, to submit to the congressional defense and intelligence committees a report by March 1, 2021 detailing the efforts required to integrate high fidelity open-air scene target generator capability into appropriate platforms and electronic warfare command and control systems and how integration is resourced over the future years defense program. The report shall be submitted in unclassified form, with an accompanying classified annex, if necessary.

Amendment to H.R. 6395
National Defense Authorization Act for Fiscal Year 2021

Offered by: Mr. Bergman of Michigan

In the appropriate place in the report to accompany H.R. 6395, insert the following new Directive Report Language:

[Aviation Survivability of Marine Corps, Navy, and Air Force Rotary Wing Aircraft]

The committee recognizes the importance of the Distributed Aperture Infrared Countermeasure System (DAIRCM) and the Department of Defense's efforts to integrate an aircraft protection system to protect small to medium rotary wing aircraft from increased threats. These protection systems have been combat deployed by the Air Force. The committee is aware of enhanced capabilities that can provide light and medium rotary aircraft a dual-warning and defeat capability, able to counter surface-to-air missiles, small arms fire, and other anti-aircraft or laser-directed weapons threats confronting our forward-deployed forces. The committee recognizes there is a future gap in this aircraft survivability capability for both the Air Force and Marine Corps in the coming fiscal years and supports the efforts by these services to rapidly transition to a production capability. This transition will ensure all Marine Expeditionary Units and forward deployed Air Force rotary wing aircraft are properly equipped to meet this threat.

Therefore, the committee directs the Secretary of the Navy in coordination with the Commandant of the Marine Corps and Chief of Staff of the Air Force, to provide a briefing to the House Committee on Armed Services by March 1, 2021, on the effective integration of DAIRCM into additional light and medium rotary wing aircraft and the long-term strategy for aircraft survivability of the Marine Corps and Air Force rotary wing fleet.

Amendment to H.R. 6395
National Defense Authorization Act for Fiscal Year 2021

Offered by: Mr. Kelly of Mississippi

In the appropriate place in the report to accompany H.R. 6395, insert the following new Directive Report Language:

Handgun Ammunition Procurement

The committee understands the Army's budget request for small caliber ammunition includes \$328.3 million which includes funding for handgun 9mm, 5.56mm, 7.62mm, .50 caliber, and advanced technology armor piercing rounds. Regarding the handgun 9mm round request, the committee notes a substantial decrease from prior year funding requests. Specifically, the budget request only includes \$853 thousand for handgun 9mm rounds, which is a 95 percent decrease compared to fiscal year 2020 funding levels. The committee understands the Army believes this to be an acceptable risk given current inventories and stockpile requirements. However, the committee remains concerned over the impact this could present to the industrial base in terms of potential production breaks and generating inefficiencies in the handgun 9mm line.

The committee directs the Secretary of the Army to provide a briefing to the House Committee on Armed Services by December 15, 2020 on the long-term acquisition strategy for small caliber ammunition. The briefing should include but not limited to actions being taken to prevent any production breaks for handgun 9mm rounds, planned funding across the future year's defense program, and current inventory levels for small caliber rounds.

**Amendment to H.R. 6395
National Defense Authorization Act for Fiscal Year 2021**

Offered by: Mr. Brown of Maryland

In the appropriate place in the report to accompany H.R. 6395, insert the following new Directive Report Language:

Next Generation Squad Weapons and Small Business Innovation Research

The committee recognizes the Department of the Army's ongoing effort to enhance soldier lethality and battlefield connectivity through its Next Generation Squad Weapons (NGSW) and Next Generation Squad Weapon Fire Control (NGSW-FC) programs, as well as its programs to strengthen the battlefield network and support cooperative engagements. The committee encourages the Department of the Army to continue to integrate proven solutions for power, data energy efficiency, increased accuracy, and improved situational awareness in partnership with small businesses through the Small Business Innovation Research Program (SBIR). Therefore, the committee directs the Secretary of the Army to provide a briefing to the congressional defense committees not later than February 1, 2021, on the SBIR efforts within the NGSW and NGSW-FC programs.

**Amendment to H.R. 6395
National Defense Authorization Act for Fiscal Year 2021**

Offered by Mr. Waltz:

In the appropriate place in the report to accompany H.R. 6395, insert the following new Directive Report Language:

Briefing on Air Force Vanguard Programs

The committee understands that the Air Force’s 2019 “Science and Technology Strategy: Strengthening USAF Science and Technology for 2030 and Beyond” report designated three programs as “Vanguard programs” that are meant to quickly demonstrate the viability of emerging technology. Therefore, the committee directs the Assistant Secretary of the Air Force (Acquisition, Technology and Logistics) to provide a briefing to the House Committee on Armed Services by December 15, 2020 with details on its Vanguard programs and how the Air Force plans to transition these programs to ensure proven technology has the best chance of successfully and expeditiously transitioning into hands of the warfighter.

AMENDMENT TO H.R. 6395

NATIONAL DEFENSE AUTHORIZATION ACT FOR FISCAL YEAR 2021

OFFERED BY MS. HORN

In the appropriate place in the report to accompany H.R. 6395, insert the following new Directive Report Language:

LOAD STABILITY SYSTEMS

The committee is aware that load stability technology has the potential to offer performance and safety improvements for military utility and medical evacuation helicopters. The committee understands that Army Futures Command and Army Program Directorate Medical Evacuation have expressed interest in additional test and evaluation of litter-attached load stability systems on helicopter hoists. The committee further understands that a litter load stability system currently in testing is due to receive a limited air worthiness release by the end of fiscal year 2020.

The committee supports completing the testing and certification of this type of safety stabilization technology and allowing units to make use of this capability for life-saving and other missions. The committee directs the Commander, U.S. Army Futures Command, to provide a briefing to the House Committee on Armed Services by March 1, 2021, on the military utility of helicopter load stability systems, to include an assessment of technologies under evaluation, the potential application of these technologies, and estimate costs to procure and field these technologies.



**Amendment to H.R. 6395
National Defense Authorization Act for Fiscal Year 2021**

Offered by: Ms. Sherrill of New Jersey

In the appropriate place in the report to accompany H.R. 6395, insert the following new Directive Report Language:

Extended Range Cannon Artillery Program

The committee has consistently supported Army modernization of long-range precision fires. However, the committee has recently learned of technical issues effecting the Extended Range Cannon Artillery program with respect to auto-loader technology. The committee understands these technical issues have resulted in excess funds for the program. Accordingly, the committee directs the Secretary of the Army, not later than December 20, 2020, to provide a briefing to the House Armed Services Committee that identifies potential solutions to the technical issues impacting the Extended Range Cannon Artillery program and the steps that the Army has taken or will take to address the technical issues discovered. The committee encourages the Army, in restructuring this program, to consider directing available resources to other technical solutions that could accomplish this same purpose and to include those considerations in the above directed briefing. Finally, the Secretary of the Army is directed to include in the briefing a description of how the funding for the Extended Range Cannon Artillery has been executed for the past two years, and the Army's plans to properly fund this effort over the next five fiscal years.