

broad spectrum of secure, anti-jam voice and data communications, precision radio navigation and landing capability, self-identification, beyond visual range target identification and connectivity to off-board sources of information. It also includes an inertial navigation and global positioning system (GPS) for precise location information. The functionality is tightly integrated within the mission system to enhance efficiency.

g. The aircraft C4I/CNI system includes two data links: the Multi-Function Advanced Data Link (MADL) and Link 16. The MADL is designed specifically for the F-35 and allows for stealthy communications between F-35s. Link 16 data link equipment allows the F-35 to communicate with legacy aircraft using widely-distributed J-series message protocols.

h. The F-35 Autonomic Logistics Global Sustainment (ALGS) provides a fully integrated logistics management solution. ALGS integrates a number of functional areas, including supply chain management, repair, support equipment, engine support and training. The ALGS infrastructure employs a state-of-the-art information system that provides real-time, decision-worthy information for sustainment decisions by flight line personnel. Prognostic health monitoring technology is integrated with the air system and is crucial to predictive maintenance of vital components.

i. The F-35 Autonomic Logistics Information System (ALIS) provides an intelligent information infrastructure that binds all the key concepts of ALGS into an effective support system. ALIS establishes the appropriate interfaces among the F-35 Air Vehicle, the warfighter, the training system, government information technology (IT) systems, and supporting commercial enterprise systems. Additionally, ALIS provides a comprehensive tool for data collection and analysis, decision support and action tracking.

j. The F-35 Training System includes several training devices to provide integrated training for pilots and maintainers. The pilot training devices include a Full Mission Simulator (FMS) and Deployable Mission Rehearsal Trainer (DMRT). The maintenance training devices include an Aircraft Systems Maintenance Trainer (ASMT), Ejection System Maintenance Trainer (ESMT), Outer Mold Line (OML) Lab, Flexible Linear Shaped Charge (FLSC) Trainer, F135 Engine Module Trainer and Weapons Loading Trainer (WLT). The F-35 Training System can be integrated, where both pilots and maintainers learn in the same Integrated Training Center (ITC). Alternatively, the pilots and maintainers can train in separate facilities (Pilot Training Center and Maintenance Training Center).

k. Other subsystems, features, and capabilities include the F-35's low observable air frame, Integrated Core Processor (ICP) Central Computer, Helmet Mounted Display System (HMDS), Pilot Life Support System (PLSS), Off-Board Mission Support (OMS) System, and publications/maintenance manuals. The HMDS provides a fully sun-light readable, biocular display presentation of aircraft information projected onto the pilot's helmet visor. The use of a night vision camera integrated into the helmet eliminates the need for separate Night Vision Goggles. The PLSS provides a measure of Pilot Chemical, Biological, and Radiological Protection through use of an On-Board Oxygen Generating System (OBOGS); and an escape system that provides additional protection to the pilot. OBOGS takes the Power and Thermal Management System (PTMS) air and enriches it by removing gases (mainly nitrogen) by adsorption, thereby increasing the concentration of oxygen in the prod-

uct gas and supplying breathable air to the pilot. The OMS provides a mission planning, mission briefing, and a maintenance/intelligence/tactical debriefing platform for the F-35.

2. The Reprogramming Center is located in the United States and provides F-35 customers with a means to update F-35 EW databases.

3. The AIM-9X Block II and Block II+ (Plus) SIDEWINDER Missile represents a substantial increase in missile acquisition and kinematics performance over the AIM-9M and replaces the AIM-9X Block I Missile configuration. The missile includes a high off-boresight seeker, enhanced countermeasure rejection capability, low drag/high angle of attack airframe and the ability to integrate with a helmet mounted cueing system. The software algorithms are the most sensitive portion of the AIM-9X missile. The software continues to be modified via a preplanned product improvement (P<sup>3</sup>I) program to improve counter-countermeasure capabilities. Purchase will include AIM-9X Guidance Sections.

4. The GBU-54 Laser Joint Direct Attack Munition (LJDAM) is a 500 pound JDAM which incorporates all the capabilities of the JDAM guidance tail kit and adds a precision laser guidance set. The LJDAM gives the weapon system an optional semi-active laser guidance in addition to the Inertial Navigation System/Global Positioning System (INS/GPS) guidance. This provides the optional capability to strike moving targets. The GBU-54 consists of a laser guidance set, KMU-572 warhead specific tail kit, and MK-82 bomb body.

5. The GBU-53/B Small Diameter Bomb Increment II (SDB II) is a 250-lb class precision-guided, semi-autonomous, conventional, air-to-ground munition used to defeat moving targets through adverse weather from standoff range. The SDB II has deployable wings and fins and uses GPS/INS guidance, network-enabled datalink (Link-16 and UHF), and a multi-mode seeker (millimeter wave radar, imaging infrared) to autonomously search, acquire, track, and defeat targets. The SDB II employs a multi-effects warhead (Blast, Fragmentation, and Shaped-Charge) for maximum lethality against armored and soft targets. The SDB II weapon system consists of the AUR weapon; a 4-place common carriage system; and mission planning system application.

a. SDB II Guided Test Vehicles (GTV) is an SDB II configuration used for land or sea range-based testing of the SDB II weapon system. The GTV has common flight characteristics of an SDB II AUR, but in place of the multi-effects warhead is a Flight Termination, Tracking, and Telemetry (FTTT) subassembly that mirrors the AUR multi-effects warhead's size and mass properties, but provides safe flight termination, free flight tracking and telemetry of encrypted data from the GTV to the data receivers. The SDB II GTV can have either inert or live fuses. All other flight control, guidance, data-link, and seeker functions are representative of the SDB II AUR.

b. SDB II Captive Carry Reliability Test (CCRT) vehicles are an SDB II configuration primarily used for reliability data collection during carriage. The CCRT has common characteristics of an SDB II AUR but with an inert warhead and fuze. The CCRT has an inert mass in place of the warhead that mimics the warhead's mass properties. The CCRT is a flight capable representative of the SDB II AUR but is not approved for release from any aircraft. Since all other flight control, guidance, data-link, and seeker functions are representative of the SDB II AUR, this configuration could be used for any purpose where an inert round without telemetry or termination capability would be useful.

6. This sale will involve the release of sensitive and/or classified technology. The highest level of classification of information included in this potential sale is SECRET.

7. If a technologically advanced adversary were to obtain knowledge of the specific hardware and software elements, the information could be used to develop countermeasures that might reduce weapon system effectiveness or be used in the development of a system with similar advanced capabilities.

8. A determination has been made that Switzerland can provide substantially the same degree of protection for the sensitive technology being released as the U.S. Government. This sale is necessary in furtherance of the U.S. foreign policy and national security objectives outlined in the Policy Justification.

9. All defense articles and services listed in this transmittal are authorized for release and export to the Government of Switzerland.

#### ARMS SALES NOTIFICATION

Mr. RISCH, Mr. President, section 36(b) of the Arms Export Control Act requires that Congress receive prior notification of certain proposed arms sales as defined by that statute. Upon such notification, the Congress has 30 calendar days during which the sale may be reviewed. The provision stipulates that, in the Senate, the notification of proposed sales shall be sent to the chairman of the Senate Foreign Relations Committee.

In keeping with the committee's intention to see that relevant information is available to the full Senate, I ask unanimous consent to have printed in the RECORD the notifications which have been received. If the cover letter references a classified annex, then such annex is available to all Senators in the office of the Foreign Relations Committee, room SD-423.

There being no objection, the material was ordered to be printed in the RECORD, as follows:

DEFENSE SECURITY  
COOPERATION AGENCY,  
Arlington, VA.

Hon. JAMES E. RISCH,  
Chairman, Committee on Foreign Relations,  
U.S. Senate, Washington, DC.

DEAR MR. CHAIRMAN: Pursuant to the reporting requirements of Section 36(b)(1) of the Arms Export Control Act, as amended, we are forwarding herewith Transmittal No. 20-34 concerning the Navy's proposed Letter(s) of Offer and Acceptance to the Government of Switzerland for defense articles and services estimated to cost \$7.452 billion. After this letter is delivered to your office, we plan to issue a news release to notify the public of this proposed sale.

Sincerely,

HEIDI H. GRANT,  
Director.

Enclosures.

TRANSMITTAL NO. 20-34

Notice of Proposed Issuance of Letter of Offer Pursuant to Section 36(b)(1) of the Arms Export Control Act, as amended

(i) Prospective Purchaser: Government of Switzerland.

(ii) Total Estimated Value:

Major Defense Equipment\* \$4.155 billion.

Other \$3.297 billion.

Total \$7.452 billion.

(iii) Description and Quantity or Quantities of Articles or Services under Consideration for Purchase:

Major Defense Equipment (MOE):

Thirty-six (36) F/A-18E Super Hornet Aircraft.

Seventy-two (72) F414-GE-400 Engines (Installed).

Four (4) F/A-18F Super Hornet Aircraft.

Eight (8) F414-GE-400 Engines (Installed).

Sixteen (16) F414-GE-400 Engines (Spares).

Forty-four (44) M61A2 20MM Gun Systems.

Twenty-five (25) Advanced Targeting Forward-Looking Infrared (ATFLIR).

Fifty-five (55) AN/ALR-67(V)3 Electric Warfare Countermeasures Receiving Sets.

Fifty-five (55) AN/ALQ-214 Integrated Countermeasures Systems.

Forty-eight (48) Multifunctional Information Distribution Systems—Joint Tactical Radio Systems (MIDS JTRS).

Forty-eight (48) Joint Helmet Mounted Cueing Systems (JHMCS).

Two hundred sixty-four (264) LAU-127E/A Guided Missile Launchers.

Forty-eight (48) AN/AYK-29 Distributed Targeting Processor—Networked (DTP-N).

Twenty-seven (27) Infrared Search and Track (IRST) Systems.

Forty (40) AIM-9X Block II Sidewinder Tactical Missiles.

Fifty (50) AIM-9X Block II Sidewinder Captive Air Training Missiles (CATMs).

Six (6) AIM-9X Block II Sidewinder Special Air Training Missiles (NATMs).

Four (4) AIM-9X Block II Sidewinder Tactical Guidance Units.

Ten (10) AIM-9X Block II Sidewinder CATM Guidance Units.

Eighteen (18) KMU-572 JDAM Guidance Kits for GBU-54.

Twelve (12) Bomb MK-82 500LB, General Purpose.

Twelve (12) Bomb MK-82, Inert.

Twelve (12) GBU-53/B Small Diameter Bomb II (SOB II) All-Up Round (AUR).

Eight (8) GBU-53/B SDB II Guided Test Vehicle (GTV).

Non-MdE: Also included are AN/APG-79 Active Electronically Scanned Array (AESA) radars; High Speed Video Network (HSVN) Digital Video Recorder (HDVR); AN/AVS-9 Night Vision Goggles (NVG); AN/AVS-11 Night Vision Cueing Device (NVCD); AN/ALE-47 Electronic Warfare Countermeasures Systems; AN/ARC-210 Communication System; AN/APX-111 Combined Interrogator Transponder; AN/ALE-55 Towed Decoys; launchers (LAU-1150/A, LAU-116B/A, LAU118A); Training Aids, Devices and Spares; Technical Data Engineering Change Proposals; Avionics Software Support; Joint Mission Planning System (JMPS); Data Transfer Unit (DTU); Accurate Navigation (ANAV) Global Positioning System (GPS) Navigation; KIV-78 Dual Channel Encryptor, Identification Friend or Foe (IFF); Cartridge Actuated Devices/Propellant Actuated Devices (CADs/PADs); Technical Publications; AN/PYQ-10C Simple Key Loader (SKL); Aircraft Spares; other support equipment; Aircraft Armament Equipment (AAE); aircraft ferry; transportation costs; other technical assistance; engineering technical assistance; contractor engineering technical support; logistics technical assistance; Repair of Repairables (RoR); aircrew and maintenance training; contractor logistics support; flight test services; Foreign Liaison Officer (FLO) support; auxiliary fuel tanks, system integration and testing; software development/integration; and other related elements of logistics and program support. For AIM-9X: containers; missile support and test equipment; provisioning; spare and repair parts; personnel training and training equipment; publications and technical data; and U.S. Government and contractor technical assist-

ance and other related logistics support. For GBU-53/B SDB II and GBU-54: Detector Laser DSU-38A/B, Detector Laser DSU-38A(D-2)/B, FMU-1390/B Fuze, KMU-572(D-2)/B Trainer (JDAM), 40-inch Wing Release Lanyard; GBU-53/B SDB II Weapon Load Crew Trainers (WLCT); weapons containers; munitions support and test equipment; spares and repair parts; repair and return support; personnel training and training equipment; publications and technical documents; U.S. Government and contractor engineering, technical, and logistics support services; and other related elements of logistical and program support.

(iv) Military Department: Navy (SZ-P-SAZ, SZ-P-LAZ, SZ-P-SBZ); Air Force (SZ-D-YAD).

(v) Prior Related Cases, if any: None.

(vi) Sales Commission, Fee, etc., Paid, Offered, or Agreed to be Paid: None.

(vii) Sensitivity of Technology Contained in the Defense Article or Defense Services Proposed to be Sold: See Attached Annex.

(viii) Date Report Delivered to Congress: September 30, 2020.

\*As defined in Section 47(6) of the Arms Export Control Act.

#### POLICY JUSTIFICATION

##### Switzerland—F1 A-18E/F Super Hornet Aircraft and Weapons

The Government of Switzerland has requested to buy up to thirty-six (36) F/A-18E Super Hornet aircraft; seventy-two (72) F414-GE-400 engines (installed); four (4) F/A-18F Super Hornet aircraft; eight (8) F414-GE-400 engines (installed); sixteen (16) F414-GE-400 engines (spares); forty-four (44) M61A2 20MM gun systems; twenty-five (25) Advanced Targeting Forward-Looking Infrared (ATFLIR)/other targeting pod; fifty-five (55) AN/ALR-67(V)3 Electric Warfare Countermeasures Receiving sets; fifty-five (55) AN/ALQ-214 Integrated Countermeasures systems; forty-eight (48) Multifunctional Information Distribution Systems—Joint Tactical Radio Systems (MIDS-JTRS); forty-eight (48) Joint Helmet Mounted Cueing Systems (JHMCS); two hundred sixty-four (264) LAU-127E/A guided missile launchers; forty-eight (48) AN/AYK-29 Distributed Targeting Processor—Networked (DTP-N); twenty-seven (27) Infrared Search and Track (IRST) systems; forty (40) AIM-9X Block II Sidewinder tactical missiles; fifty (50) AIM-9X Block II Sidewinder Captive Air Training Missiles (CATMs); six (6) AIM-9X Block II Sidewinder Special Air Training Missiles (NATMs); four (4) AIM-9X Block II Sidewinder tactical guidance units; ten (10) AIM-9X Block II Sidewinder CATM guidance units; eighteen (18) KMU-572 JDAM Guidance Kits for GBU-54; twelve (12) Bomb MK-82 500LB, General Purpose; twelve (12) Bomb MK-82, Inert; twelve (12) GBU-53/B Small Diameter Bomb II (SDB II) All-Up Round (AUR); and eight (8) GBU-53/B SDB II Guided Test Vehicle (GTV). Also included are AN/APG-79 Active Electronically Scanned Array (AESA) radars; High Speed Video Network (HSVN) Digital Video Recorder (HDVR); AN/AVS-9 Night Vision Goggles (NVG); AN/AVS-11 Night Vision Cueing Device (NVCD); AN/ALE-47 Electronic Warfare Countermeasures Systems; AN/ARC-210 Communication System; AN/APX-111 Combined Interrogator Transponder; AN/ALE-55 Towed Decoys; launchers (LAU-1150/A, LAU-116B/A, LAU118A); Training Aids, Devices and Spares; Technical Data Engineering Change Proposals; Avionics Software Support; Joint Mission Planning System (JMPS); Data Transfer Unit (DTU); Accurate Navigation (ANAV) Global Positioning System (GPS) Navigation; KIV-78 Dual Channel Encryptor, Identification Friend or Foe (IFF); Cartridge Actuated Devices/Propellant Actuated Devices (CADs/PADs); Technical Publications;

AN/PYQ-10C Simple Key Loader (SKL); Aircraft Spares; other support equipment; Aircraft Armament Equipment (AAE); aircraft ferry; transportation costs; other technical assistance; engineering technical assistance; contractor engineering technical support; logistics technical assistance; Repair of Repairables (RoR); aircrew and maintenance training; contractor logistics support; flight test services; Foreign Liaison Officer (FLO) support; auxiliary fuel tanks, system integration and testing; software development/integration; and other related elements of logistics and program support. For AIM-9X: containers; missile support and test equipment; provisioning; spare and repair parts; personnel training and training equipment; publications and technical data; and U.S. Government and contractor technical assistance and other related logistics support. For GBU-53/B SDB II and GBU-54: Detector Laser DSU-38A/B, Detector Laser DSU-38A(D-2)/B, FMU-1390/B Fuze, KMU-572(D-2)/B Trainer (JDAM), 40-inch Wing Release Lanyard; GBU-53/B SDB II Weapon Load Crew Trainers (WLCT); weapons containers; munitions support and test equipment; spares and repair parts; repair and return support; personnel training and training equipment; publications and technical documents; U.S. Government and contractor engineering, technical, and logistics support services; and other related elements of logistical and program support. The total estimated cost is \$7.452 billion.

This proposed sale will support the foreign policy and national security of the United States by helping to improve the security of a friendly European nation that continues to be an important force for political stability and economic progress in Europe.

The proposed sale will improve Switzerland's capability to meet current and future threats. Switzerland currently operates the Boeing F/A-18C/D, but that aircraft is reaching end-of-life and will be replaced by the winner of Switzerland's New Fighter Aircraft competition, for which the F/A-18E/F is being considered. The primary missions of the aircraft and associated weapons will be policing the airspace above Switzerland and providing national defense capabilities. Switzerland will have no difficulty absorbing these aircraft into its armed forces.

The proposed sale of this equipment and support will not alter the basic military balance in the region.

The principal contractors will be The Boeing Company, St. Louis, MO; Northrop Grumman, Los Angeles, CA; Raytheon Company, El Segundo, CA; Raytheon Missile Systems Company, Tucson, AZ; General Electric, Lynn, MA; and The Boeing Company, St. Charles, MO. This proposal is being offered in the context of a competition. The purchaser typically requests offsets. Any offset agreement will be defined in negotiations between the purchaser and the contractor.

Implementation of this proposed sale will require the assignment of six (6) additional U.S. contractor representatives to Switzerland on an intermittent basis for a duration of the life of the case to support delivery of the F/A-18E/F Super Hornet aircraft and provide supply support management, inventory control, and equipment familiarization.

There will be no adverse impact on U.S. defense readiness as a result, of this proposed sale.

TRANSMITTAL NO. 20-34

*Notice of Proposed Issuance of Letter of Offer Pursuant to Section 36(b)(1) of the Arms Export Control Act*

Annex Item No. vii

(vii) Sensitivity of Technology:

1. The F/A-18E/F Super Hornet is a single-seat and two-seat, twin engine, multi-mission fighter/attack aircraft that can operate

from either aircraft carriers or land bases. The F/A-18E/F Super Hornet fills a variety of roles and provides air superiority, fighter escort, suppression of enemy air defenses, reconnaissance, forward air control, close and deep air support, and day and night strike missions.

a. The AN/APG-79 Active Electronically Scanned Array (AESA) Radar System provides the F/A-18E/F Super Hornet aircraft with all-weather, multi-mission capability for performing Air-to-Air and Air-to-Ground targeting and attack. Air-to-Air modes provide the capability for all-aspect target detection, long-range search and track, automatic target acquisition, and tracking of multiple targets. Air-to-Surface attack modes provide high-resolution ground mapping navigation, weapon delivery, and sensor cueing.

b. The AN/ALR-67(V)3 Electric Warfare Countermeasures Receiving Set provides the F/A-18E/F aircrew with radar threat warnings by detecting and evaluating friendly and hostile radar frequency threat emitters and providing identification and status information about the emitters to on-board Electronic Warfare (EW) equipment and the aircrew. The Operational Flight Program (OFP) and User Data Files (UDF) used in the AN/ALR-67(V)3 contain threat parametric data used to identify and establish priority of detected radar emitters.

c. The AN/ALE-47 Countermeasures Dispensing System is a threat-adaptive dispensing system that dispenses chaff, flares, and expendable jammers for self-protection against airborne and ground-based Radio Frequency (RF) and Infrared threats. The Operational Flight Program (OFP) and Mission Data Files (MDF) used in the AN/ALE-47 contain algorithms used to calculate the best defense against specific threats.

d. The AN/ALQ-214 is an advanced airborne Integrated Defensive Electronic Countermeasures (IDECM) programmable modular automated system capable of intercepting, identifying, processing received radar signals (pulsed and continuous) and applying an optimum countermeasures technique in the direction of the radar signal, thereby improving individual aircraft probability of survival from a variety of Surface-to-Air and Air-to-Air Radio Frequency (RF) threats. The system operates in a standalone or Electronic Warfare (EW) suite mode. In the EW suite mode, the AN/ALQ-214 operates in a fully coordinated mode with the towed dispensable decoy, Radar Warning Receiver (RWR), and the onboard radar in the F/A-18E/F Super Hornet in a coordinated, non-inference manner sharing information for enhanced information. The AN/ALQ-214 was designed to operate in a high-density Electromagnetic Hostile Environment with the ability to identify and counter a wide variety of multiple threats, including those with Doppler characteristics.

e. The AN/APX-111 Combined Interrogator/Transponder (CIT) with the Conformal Antenna System (CAS) is a complete MARK-XII identification system compatible with Identification Friend or Foe (IFF) Modes 1, 2, 3/A, C and 4 (secure). A single slide-in module that can be customized to the unique cryptographic functions for a specific country provides the systems secure mode capabilities. As a transponder, the CIT is capable of replying to interrogation modes 1, 2, 3/A C (altitude) and secure mode 4. The requirement is to upgrade Switzerland's Combined Interrogator Transponder (CIT) AN/APX-111 (V) IFF system software to implement Mode Select (Mode S) capabilities. Beginning in early 2005 EUROCONTROL mandated the civil community in Europe to transition to a Mode S only system and for all aircraft to be compliant by 2009. The Mode S Beacon Sys-

tem is a combined data link and Secondary Surveillance Radar (SSR) system that was standardized in 1985 by the International Civil Aviation Organization (ICAO). Mode S provides air surveillance using a data link with a permanent unique aircraft address. Selective Interrogation provides higher data integrity, reduced Radio Frequency (RF) interference levels, increased air traffic capacity, and adds air-to-ground data link.

f. The Joint Helmet Mounted Cueing System (JHMCS) is a modified HGU-55/P helmet that incorporates a visor-projected Heads-Up Display (HUD) to cue weapons and aircraft sensors to air and ground targets. In close combat, a pilot must currently align the aircraft to shoot at a target. JHMCS allows the pilot to simply look at a target to shoot. This system projects visual targeting and aircraft performance information on the back of the helmet's visor, enabling the pilot to monitor this information without interrupting his field of view through the cockpit canopy, the system uses a magnetic transmitter unit fixed to the pilot's seat and a magnetic field probe mounted on the helmet to define helmet pointing positioning. A Helmet Vehicle Interface (HVI) interacts with the aircraft system bus to provide signal generation for the helmet display. This provides significant improvement for close combat targeting and engagement.

g. The Joint Mission Planning System (JMPS) will provide mission planning capability for support of military aviation operations. It will also provide support for unit-level mission planning for all phases of military flight operations and have the capability to provide necessary mission data for the aircrew. JMPS will support the downloading of data to electronics data transfer devices for transfer to aircraft and weapon systems. A JMPS for a specific aircraft type will consist of basic planning tools called the Joint Mission Planning Environment (JMPE) mated with a Unique Planning Component (UPC) provided by the aircraft program. In addition, UPCs will be required for specific weapons, communication devices, and moving map displays. The JMPS will be tailored to the specific releasable configuration for the F/A-18E/F Super Hornet.

h. The AN/AVS-9 Night Vision Goggles (NVG) provide imagery sufficient for an aviator to complete night time missions down to starlight and extreme low light conditions. The AN/AVS-9 is designed to satisfy the F/A-18E/F mission requirements for covert night combat, engagement, and support. The third generation light amplification tubes provide a high-performance, image-intensification system for optimized F/A-18E/F night flying at terrain-masking altitudes.

i. The AN/AVS-11 Night Vision Goggles (NVG) is capable of high resolution imaging. This capability allows reduced visibility weapon delivery. While the NVCD hardware is unclassified, this item requires Enhanced End Use Monitoring (EEUM).

j. The AN/ALE-55 Towed Decoy improves aircraft survivability by providing an enhanced, coordinated onboard/off-board countermeasure response to enemy threats.

k. The Multifunctional Informational Distribution System (MIDS) Joint Tactical Radio System (JTRS) a secure data and voice communication network using Link-16 architecture. The system provides enhanced situational awareness, positive identification of participants within the network, secure fighter-to-fighter connectivity, secure voice capability, and ARN-118 TACAN functionality. It provides three major functions: Air Control, Wide Area Surveillance, and Fighter-to-Fighter. The MIDS JTRS can be used to transfer data in Air-to-Air, Air-to-Surface, and Air-to-Ground scenarios. The MIDS Enhanced Interference Blanking Unit

(EIBU) provides validation and verification of equipment and concept. EIBU enhances input/output signal capacity of the MIDS JTRS and addresses parts obsolescence.

l. LAU-127E/A Guided Missile Launchers designed to enable F/A-18E/F Super Hornet aircraft to carry and launch missiles. It provides the electrical and mechanical interface between the missile and launch aircraft as well as the two-way data transfer between missile and cockpit controls and displays to support preflight orientation and control circuits to prepare and launch the missile.

m. Accurate Navigation (ANAV) Global Positioning System (GPS) also includes Key Loading Installation and Facility Charges. The ANAV is a 24-channel SAASM based pulse-per-second GPS receiver built for next generation GPS technology.

n. The AN/ARC-210 Radio's Line-of-sight data transfer rates up to 80 kb/s in a 25 kHz channel creating high-speed communication of critical situational awareness information for increased mission effectiveness. Software that is reprogrammable in the field via Memory Loader/Verifier Software making flexible use for multiple missions. The AN/ARC-210 has embedded software with programmable cryptography for secure communications.

o. AN/PYQ-10(C) is the next generation of the currently fielded AN/CYZ-10 Data Transfer Device (DTD). The AN/PYQ-10(C) provides automated, secure and user-friendly methods for managing and distributing cryptographic key material, Signal Operating Instructions (SOI), and Electronic Protection data. This course introduces some of the basic components and activities associated with the AN/PYQ-10(C) in addition to hands-on training. Learners will become familiar with the security features of the SKL, practice the initial setup of the SKL, and will receive and distribute electronic keys using the SKL.

p. KIV-78 Dual Channel Encryptor Mode 4/ Mode 5 Identify Friend or Foe (IFF) Crypto applique includes aircraft installs and initial spares, to ensure proper identification of aircraft during coalition efforts. The KIV-78 provides cryptographic and time-of-day services for a Mark XIIA (Mode 4 and Mode 5) IFF Combined Interrogator/Transponder (CIT), individual interrogator, and individual transponder.

q. Data Transfer Unit (DTU) with CRYPTO Type 1 and Ground Encryption Device (GED). The DTU (MU-1164(C)/A) has an embedded DAR-400EX and the GED (DI-12(C)/A) has an embedded DAR-400ES. Both versions of the DAR-400 are type 1 devices.

r. High Speed Video Network (HSVN) Digital Video Recorder (HDVR) with CRYPTO Type 1 and Ground Encryption Device (GED). The HDVR has an embedded DAR-400EX and the GED has an embedded DAR-400ES. Both versions of the DAR-400 are Type 1 devices.

s. The Advanced Targeting Forward Looking Infrared (ATFLIR)/or other targeting pod is a multi-sensor, electro-optical targeting pod incorporating infrared, low-light television camera, laser range finder/target designator, and laser spot tracker. It is used to provide navigation and targeting for military aircraft in adverse weather and using precision-guided weapons such as laser-guided bombs. It offers much greater target resolution and imagery accuracy than previous systems.

t. The Infrared Search and Track (IRST) is a long wave infrared targeting pod in an external fuel tank outer mold and carried on the centerline station. The IRST has an upgraded infrared receiver and processor to provide full system capability.

u. The Distributed Targeting Processor—Networked (DTP-N) will host the geo-location capability previously resident in the DTS, providing increased memory and speed,

improving overall functionality. DTP-N enabled geo-registration and targeting enhancements, when used in conjunction with the advanced networking capabilities, will provide near real-time dissemination of actionable warfighting data thereby reducing kill chain times.

v. The M61A2 20MM Gun is a hydraulically, electrically or pneumatically driven, six barrel, air-cooled, electrically fired Gatling-style rotary cannon which fires 20MM rounds at an extremely high rate. The M61 and its derivatives have been the principal cannon armament of United States military fixed-wing aircraft.

w. The F414-GE-400 Engine is a 22,000-pound class afterburning turbofan engine. The engine features an axial compressor with 3 fan stages and 7 high-pressure compressor stages, and 1 high-pressure and 1 low-pressure turbine stage. It incorporates advanced technology with the proven design base and features a Full Authority Digital Engine Control (FADEC) system—to provide the F/A-18E/F Super Hornet with a durable, reliable, and easy-to-maintain engine.

x. LAU-115D/A is a rail Launcher designed to enable F/A-18E/F Super Hornet aircraft to carry and launch missiles. The launcher is suspended from the bomb rack on wing stations. The LAU-127 launchers may be attached to the sides of the LAU-115 for carriage missiles.

y. LAU-116B/A Guided Missile Launchers designed to enable F/A-18E/F Super Hornet aircraft to carry and launch missiles. Two launchers, one left hand and one right hand, are installed in the underside of the aircraft fuselage at stations 4 and 6. The launchers are recessed in cavities within the aircraft fuselage, allowing the missiles to be semi recessed for aerodynamic purposes. Both versions of the LAU-116 are ejection launchers.

z. LAU-118A Guided Missile Launchers designed to enable F/A-18E/F Super Hornet aircraft to carry and launch missiles. It provides the electrical and mechanical interface between the missile and launch aircraft, as well as the two-way data transfer between missile and cockpit controls and displays to support preflight orientation and control circuits to prepare and launch the missile.

aa. Cartridge Actuated Devices (CADs) are designed for the F/A-18E/F Super Hornet as small explosive devices used to eject stores from launched devices, actuate other explosive systems, or provide initiation for aircrew escape devices. Propellant Actuated Devices (PADs) are a tool or specialized mechanized device or gas generator system that is activated by a propellant or releases or directs work through a propellant charge. Weapons release, aircraft ejection, life support, and fire-suppression systems are some facets that rely heavily on CADs and PADs.

bb. Books and Other Publications includes flight manuals, technical manuals and support of technical data and updates, release and distribution of classified publications for the operation and/or maintenance of the F/A-18E/F aircraft or systems.

cc. Software provides for initial design and development of the Electronic Warfare Software suite which encompasses AN/ALQ-214, AN/ALE-47, ALE-55, ALE-67, as part of the System Configuration Set (SCS) builds.

dd. Technical Data provides for the F/A-18E/F post-production of classified test reports and other related documentation.

ee. Training Aide and Devices provides for upgraded classified lessons, hardware and installation for the Tactical Operational Flight Trainers (TOFT), Low Cost Trainers (LCT), Aircrew courseware and spares for delivery and installation of Systems Configuration Sets (SCS).

ff. The AIM-9X Block II SIDEWINDER Missile is a supersonic, short-range Air-to-

Air (A/A) guided missile which employs a passive Infrared (IR) target acquisition system, proportional navigational guidance, and a closed-loop position servo Fin Actuator Unit (FAU). It represents a substantial increase in missile acquisition and kinematics performance over the AIM-9M and replaces the AIM-9X Block I Missile configuration. The missile includes a high off-boresight seeker, enhanced countermeasure rejection capability, low drag/high angle of attack airframe and the ability to integrate the Helmet Mounted Cueing System. The software algorithms are the most sensitive portion of the AIM-9X missile. The software continues to be modified via a pre-planned product improvement (P3I) program in order to improve its counter-countermeasure capabilities. No software source code or algorithms will be released.

gg. AIM-9X BLK II Captive Air Training Missile (CATM) is a flight certified inert mass simulator with a functioning Guidance Unit (GU). The CATM is the primary aircrew training device providing all pre-launch functions as well as realistic aerodynamic performance that equate to carrying a tactical missile. The CATM provides pilot training in aerial target acquisition and use of aircraft controls/displays.

hh. AIM-9X BLK II Special Air Training Missile (NATM) is a live flight test and training missile, with functioning GU and RM, designed for ignition and separation. The NATM is similar to the AIM-9X BLK II Tactical missile except the WDU-17/B Warhead is replaced with a Telemetry Section (TM) for streaming data to a ground station during flight and may be fired with or without a target. The telemetry cable is previously connected between the GU and Target Detector (TD). An Active Optical Target Detector (AOTD) and Telemetry cable is connected between the TD and TM. The Electronic Safety and Arming Device (ESAD) is replaced with an ESAD simulator.

ii. AIM-9X BLK II Tactical GU, WGU-57/B, provides the missile tracking, guidance, and control signals. The GU provides counter-countermeasures, improved reliability and maintainability over earlier Sidewinder models. Improvements include: (1) upgrade/redesign of the Electronics Unit Circuit Card Assemblies, (2) a redesigned center section harnessing, and (3) a larger capacity missile battery.

jj. AIM-9X BLK II CATM GU, WGU-57/B, is identical to the tactical GU except the GU and Control Actuation System (CAS) batteries are inert and the software Captive. The software switch tells the missile processor that it is attached to a CATM and to ignore missile launch commands. The switch also signals software to not enter abort mode because there is no FAU connected to the GU.

kk. AIM-9X BLK II Multi-Purpose Training Missile (MPTM) is a ground training device used to train ground personnel in aircraft loading, sectionalization, maintenance, transportation, storage procedures, and techniques. The missile replicates external appearance and features of a tactical AIM-9X-2 missile. The MPTM will physically interface with loading equipment, maintenance equipment, launchers, and test equipment. The missile is explosively and electrically inert and is NOT flight certified.

ll. AIM-9X BLK II Dummy Air Training Missile (DATM) is used to train ground personnel in missile maintenance, loading, transportation, and storage procedures. All components are completely inert. The missile contains no programmable electrical components and is not approved for flight.

mm. AIM-9X BLK II Active Optical Target Detector (AOTD) is newly designed for Block II. The AOTD/Data Link (AOTD/DL) uses the

latest laser technology allowing significant increases in sensitivity, aerosol performance, low altitude performance, and Pk (Probability of Kill). The AOTD/DL design includes a DL for 2-way platform communication. The AOTD/DL communicates with the GU over a serial interface which allows the GU to receive and transmit data so that a target position and status communication with a launching platform is possible during missile flight.

nn. The GBU-54 Laser Joint Direct Attack Munition (LJDAM) is a 500 pound JDAM which incorporates all the capabilities of the JDAM guidance tail kit and adds a precision laser guidance set. The LJDAM gives the weapon system an optional semi-active laser guidance in addition to the Inertial Navigation System/Global Positioning System (INS/GPS) guidance. This provides the optional capability to strike moving targets. The GBU-54 consists of a laser guidance set, KMU-572 warhead specific tail kit, and MK-82 bomb body.

oo. The GBU-53/B Small Diameter Bomb Increment II (SDB II) is a 250-lb class precision-guided, semi-autonomous, conventional, air-to-ground munition used to defeat moving targets through adverse weather from standoff range. The SDB II has deployable wings and fins and uses GPS/INS guidance, network-enabled datalink (Link-16 and UHF), and a multi-mode seeker (millimeter wave radar, imaging infrared) to autonomously search, acquire, track, and defeat targets. The SDB II employs a multi-effects warhead (Blast, Fragmentation, and Shaped-Charge) for maximum lethality against armored and soft targets. The SDB II weapon system consists of the AUR weapon; a 4-place common carriage system; and mission planning system application.

pp. SDB II Guided Test Vehicles (GTV) is an SDB II configuration used for land or sea range-based testing of the SDB II weapon system. The GTV has common flight characteristics of an SDB II AUR, but in place of the multi-effects warhead is a Flight Termination, Tracking, and Telemetry (FTTT) subassembly that mirrors the AUR multi-effects warhead's size and mass properties, but provides safe flight termination, free flight tracking and telemetry of encrypted data from the GTV to the data receivers. The SDB II GTV can have either inert or live fuses. All other flight control, guidance, data-link, and seeker functions are representative of the SDB II AUR.

qq. SDB II Captive Carry Reliability Test (CCRT) vehicles are an SDB II configuration primarily used for reliability data collection during carriage. The CCRT has common characteristics of an SDB II AUR but with an inert warhead and fuze. The CCRT has an inert mass in place of the warhead that mimics the warhead's mass properties. The CCRT is a flight capable representative of the SDB II AUR but is not approved for release from any aircraft. Since all other flight control, guidance, data-link, and seeker functions are representative of the SDB II AUR, this configuration could be used for any purpose where an inert round without telemetry or termination capability would be useful.

2. The highest level of classification of defense articles, and services included in this potential sale is SECRET.

3. If a technologically advanced adversary were to obtain knowledge of the specific hardware or software elements, the information could be used to develop countermeasures that might reduce weapon system effectiveness or be used in the development of a system with similar or advanced capabilities.

4. A determination has been made that Switzerland can provide substantially the same degree of protection for the sensitive

technology being released as the U.S. Government. This sale is necessary in furtherance of the U.S. foreign policy and national security objectives outlined in the Policy Justification.

5. All defense articles and services listed in this transmittal have been authorized for release and export to Switzerland.

#### ARMS SALES NOTIFICATION

Mr. RISCH. Mr. President, section 36(b) of the Arms Export Control Act requires that Congress receive prior notification of certain proposed arms sales as defined by that statute. Upon such notification, the Congress has 30 calendar days during which the sale may be reviewed. The provision stipulates that, in the Senate, the notification of proposed sales shall be sent to the chairman of the Senate Foreign Relations Committee.

In keeping with the committee's intention to see that relevant information is available to the full Senate, I ask unanimous consent to have printed in the RECORD the notifications which have been received. If the cover letter references a classified annex, then such annex is available to all Senators in the office of the Foreign Relations Committee, room SD-423.

There being no objection, the material was ordered to be printed in the RECORD, as follows:

DEFENSE SECURITY  
COOPERATION AGENCY,  
Arlington, VA.

Hon. JAMES E. RISCH,  
Chairman, Committee on Foreign Relations,  
U.S. Senate, Washington, DC.

DEAR MR. CHAIRMAN: Pursuant to the reporting requirements of Section 36(b)(1) of the Arms Export Control Act, as amended, we are forwarding herewith Transmittal No. 20-76 concerning the Air Force's proposed Letter(s) of Offer and Acceptance to the Government of the United Kingdom for defense articles and services estimated to cost \$401.3 million. After this letter is delivered to your office, we plan to issue a news release to notify the public of this proposed sale.

Sincerely,

HEIDI H. GRANT,  
Director.

Enclosures.

TRANSMITTAL NO. 20-76

Notice of Proposed Issuance of Letter of Offer Pursuant to Section 36(b)(1) of the Arms Export Control Act, as amended

(i) Prospective Purchaser: The Government of the United Kingdom

(ii) Total Estimated Value:

Major Defense Equipment\* \$0.0 million.

Other \$401.3 million.

Total \$401.3 million.

(iii) Description and Quantity or Quantities of Articles or Services under Consideration for Purchase:

Major Defense Equipment (MDE):

None.

Non-MDE: Follow-on C-17 aircraft Contractor Logistical Support (CLS) to include aircraft component spare and repair parts; accessories; publications and technical documentation; software and software support; U.S. Government and contractor engineering, technical and logistical support services; and other related elements of logistical and program support.

(iv) Military Department: Air Force (UK-D-QDQ).

(v) Prior Related Cases, if any: UK-D-QDD.

(vi) Sales Commission, Fee, etc., Paid Offered, or Agreed to be Paid: None.

(vii) Sensitivity of Technology Contained in the Defense Article or Defense Services Proposed to be Sold: None.

(viii) Date Report Delivery to Congress: September 24, 2020.

\*As defined in Section 47(6) of the Arms Exports Control Act.

#### POLICY JUSTIFICATION

United Kingdom—Follow-on Contractor Logistics Support (CLS) for C-17 Aircraft

The Government of the United Kingdom has requested to buy follow-on C-17 aircraft Contractor Logistical Support (CLS) to include aircraft component spare and repair parts; accessories; publications and technical documentation; software and software support; U.S. Government and contractor engineering, technical and logistical support services; and other related elements of logistical and program support. The total estimated program cost is \$401.3 million.

This proposed sale will support the foreign policy and national security objectives of the United States by improving the security of a key NATO Ally, which is an important force for political stability and economic progress in Europe.

This proposed sale will improve the United Kingdom's capability to meet current and future threats by ensuring the operational readiness of the Royal Air Force. Its C-17 aircraft fleet provides strategic airlift capabilities that directly support U.S. and coalition operations around the world. The United Kingdom will have no difficulty absorbing these services into its armed forces.

The proposed sale of this equipment and support will not alter the basic military balance in the region.

The prime contractor will be The Boeing Company of Chicago, IL. There are no known offset agreements proposed in connection with this potential sale.

Implementation of the proposed sale will not require the assignment of any additional U.S. Government or contractor representatives to the United Kingdom.

There will be no adverse impact on U.S. defense readiness as a result of this proposed sale.

#### ADDITIONAL STATEMENTS

##### TRIBUTE TO LAURA NOWLIN

• Mr. DAINES. Mr. President, this week I have the honor of recognizing Laura Nowlin of Teton County for her compassion and dedication to her community.

Since 1986, Laura has devoted her time to working at the Teton County Food Pantry as both a volunteer and a member of the executive board. Over the course of her 33 years at the food pantry, she ensured families in the community had healthy and hearty groceries with no exceptions. Rain or shine, Laura was always there to help the people of Teton County get the nutrition they needed.

Recently named the board member emeritus of the pantry, Laura will be dearly missed by her colleagues. Her unwavering selflessness was an incredibly valuable asset to both the pantry and her community and will continue to be in her new capacity.

It is my distinct honor to recognize Laura for her tireless service to the

people of Teton County. Her kindness and charitable approach to work serves as an inspiration to all Montanans who serve our communities.●

##### TRIBUTE TO MISTY BRITT

• Mrs. HYDE-SMITH. Mr. President, I would like to recognize Misty Britt, an ICU nurse at Kings Daughters Medical Center in my hometown of Brookhaven, MS. During the pandemic, Misty has truly stepped up to be a leader in the hospital. She manages the nurses on her rotation, picks up extra shifts; reads, studies, and learns about the virus; and has helped streamline the workflow to make the environment in the hospital more manageable for health care workers and patients.

Misty cares for her patients with compassion and empathy. She holds their hand when they are afraid, assists with family FaceTime calls when family isn't allowed to visit, and forms close relationships with each patient by offering love and encouragement. No matter the circumstance, Misty is by her patient's side helping them fight every day for their lives. It is nurses like Misty who do the mundane and the heroic work with tender loving care and are able to provide patients more comfort during difficult times.

For nurses all over our Nation, it is overwhelming to witness what COVID is doing to their patients. The physical, emotional, and mental stress of their work continues to mount. Every day, they go to work knowing they may lose another patient and endure more emotional strain. I am grateful for the hard work and personal sacrifice Misty and other ICU nurses undertake. They have my admiration.●

##### TRIBUTE TO LARUE LAMBERT

• Mrs. HYDE-SMITH. Mr. President, I would like to recognize, Larue Lambert, who has worked for Kings Daughters Medical Center in Brookhaven, MS, for over 20 years. Mr. Lambert worked as an ICU nurse before moving into the house coordinator position, where he monitors admissions and discharges, staffing needs, patient census, responds to emergencies, and compiles detailed reports for the chief nurse.

During the COVID-19 pandemic, Mr. Lambert has picked up additional responsibilities to ensure the hospital is functioning smoothly on a daily basis. Personal protective equipment was a huge concern for all hospitals at the beginning of the pandemic. Mr. Lambert closely monitors the hospital's PPE inventory and would distribute it to units that were in need. Additionally, he picked up extra shifts when staffing levels were low. As a frontline healthcare worker, Mr. Lambert selflessly puts his life in danger each day to care for his fellow Mississippians.

Larue risks not only his personal health, but the health of his close friends and family each day while he assists in the fight against this pandemic. I commend Larue Lambert for