

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)(5)(C) of the Arms Export Control Act (AECA), as amended, we are forwarding Transmittal No. 20-0A. This notification relates to enhancements or upgrades from the level of sensitivity of technology or capability described in the Section 36(b)(1) AECA certification 08-60 of August 1, 2008.

Sincerely,

CHARLES W. HOOPER,
Lieutenant General, USA, Director.

Enclosures.

TRANSMITTAL NO. 20-0A

Report of Enhancement or Upgrade of Sensitivity of Technology or Capability (Sec. 36(b)(5)(c), AECA)

(i) Purchaser: Government of Italy.

(ii) Sec. 36(b)(1), AECA Transmittal No.: 08-60; Date: August 1, 2008; Military Department: Air Force.

(iii) Description: On August 1, 2008, Congress was notified by Congressional certification transmittal number 08-60 of the possible sale, under Section 36(b)(1) of the Arms Export Control Act, of 4 MQ-9 Unmanned Aerial Vehicles (UAV), 3 Mobile Ground Control Stations, five years of maintenance support, engineering support, test equipment, ground support, operational flight test support, communications equipment, technical assistance, personnel training/equipment, spare and repair parts, and other related elements of logistics support. These UAVs included AN/DPY-1 Synthetic Aperture Radar/Ground Moving Target Indicator (SAR/GMTI) systems with 0.3 to 3 meter resolution. The estimated total cost was \$330 million. Major Defense Equipment (MDE) constituted \$50 million of this total.

On November 18, 2009, Congress was notified by Congressional certification transmittal number 09-60 of the possible sale, under Section 36(b)(1) of the Arms Export Control Act, of two unarmed MQ-9 Unmanned Aerial Vehicles (UAVs), one (1) Mobile Ground Control Station, maintenance support, engineering support, test equipment, ground support, operational flight test support, communications equipment, technical assistance, personnel training/equipment, spare and repair parts, and other related elements of logistics support. These UAVs included AN/DPY-1 Synthetic Aperture Radar/Ground Moving Target Indicator (SAR/GMTI) systems with 0.1 to 3 meter resolution. The estimated total cost was \$63 million. MDE constituted \$36 million of this total.

On December 17, 2009, Congress was notified by Congressional certification transmittal number 0C-09 of the possible sale, under Section 36(b)(5)(a) of the Arms Export Control Act, of a performance upgrade of the AN/DPY-1 SAR/GMTI systems aboard the four MQ-9s UAVs previously notified on transmittal 08-60 from 0.3 to 3 meter resolution to the same 0.1 to 3 meter resolution of the two MQ-9s notified on transmittal 09-60.

There was no increase in cost of MDE for this upgrade.

This transmittal reports the addition of Major Defense Equipment items beyond what was originally notified to include:

1. Retrofit of five (5) existing MQ-9A Block 1 Unmanned Aerial Vehicles (UAV) to Block 5;
2. Retrofit of two (2) existing MGCS Block 30;
3. Addition of three (3) MQ-9A Block 5;
4. Addition of eight (8) Multi-Spectral Targeting Systems (MTS-B) AN/DAS-1A;
5. Addition of eight (8) General Atomics AN/APY-8 Lynx (exportable) Synthetic Aperture Radar/Ground Moving Target Indicator (SAR/GMTI) Systems, with Maritime Wide Area Search (MWAS) capability;
6. Addition of two (2) Mobile Ground Control Station (MGCS) Block 30, and;
7. Addition of twenty-seven (27) Honeywell H-764 Adaptive Configurable Embedded Global Positioning System/Inertial Guidance Units (EGI) with Selective Availability Anti-Spoofing Module (SAASM) (24 installed, 3 spares).

The retrofit, addition of aircraft, and inclusion of the above listed MDE not enumerated in the previous notifications will result in a net increase in MDE costs of \$180 million and non-MDE cost of \$138 million. These notifications represent the entirety of Italy's MQ-9 program, which will now increase in value from \$393 million to \$711 million.

(iv) Significance: As Italy continues with its plans to develop a robust MQ-9A fleet, it has requested additional aircraft. Enhancement of Italy's MQ-9A aircraft will provide strike capability to augment intelligence, surveillance, and reconnaissance (ISR) capability. The proposed sale increases Italy's capability to participate in Europe and NATO security operations and supports the foreign and national security policies of the US by enhancing the ISR and strike capability of a major ally.

(v) Justification: Italy is a major political and economic power in NATO and a key democratic partner of the United States in ensuring peace and stability around the world. Italy requests these capabilities to provide for the defense of deployed troops, regional security, and interoperability with the United States.

(vi) Sensitivity of Technology:

1. The MQ-9A Block 5 Unmanned Aerial System (UAS) is UNCLASSIFIED. The highest level of classified information required for training, operation, and maintenance is SECRET. The MQ-9A Block 5 is a Medium Altitude, long-endurance (MALE) remotely piloted aircraft that can be used for surveillance, military reconnaissance, and targeting missions. Real-time missions are flown under the control of a pilot in a Ground Control Station (GCS). A datalink is maintained that uplinks control commands and downlinks video with telemetry data. Line-of-Sight (LOS) communications is enabled through C-Band datalink and Beyond-Line-of-Sight (BLOS) communications is enabled through Ku-Band Satellite Communication (SATCOM). Control of the aircraft and payload are done through direct manual inputs by the crew or through preprogrammed mission. Preprogrammed missions are planned and uploaded by the pilots via the GCS and are executed through the control of an onboard suite of redundant computers and sensors. Payload imagery and data are downlinked to the GCS. The pilot may initiate pre-programmed missions once the aircraft is airborne and lands the aircraft when the mission is completed. Pilots can change preprogrammed mission parameters as often as required. When operated BLOS, aircraft control is given to other strategically placed Ground Control Stations—per-

mitting remote split operations (RSO). The MQ-9A Block 5 is designed to carry 850 pounds of internal payload with maximum fuel and can carry multiple mission payloads aloft. The MQ-9A Block 5 will be configured for the following payloads: Electro-Optical/Infrared (EO/IR), Synthetic Aperture Radar (SAR), Electronic Support Measures (ESM), Signals Intelligence (SIGINT), laser designators, and various weapons packages. The MQ-9A Block 5 systems will include the following components:

a. The Ground Control Station (GCS) can be either fixed or mobile. The fixed GCS is enclosed in a customer-specified shelter. It incorporates workstations that allow operators to control and monitor the aircraft, as well as record and exploit downlinked payload data. The mobile GCS allows operators to perform the same functions and is contained on a mobile trailer. Workstations in either GCS can be tailored to meet customer requirements. The GCS, technical data, and documents are UNCLASSIFIED.

b. The Raytheon Multi-Spectral Targeting System-B (MTS-B) integrates electro-optical (EO), infrared (IR), laser designation and laser illumination capabilities to provide detection, ranging, and tracking capabilities specifically for high-altitude applications. This advanced EO and IR system provides long-range surveillance, high altitude target acquisition, tracking, range finding, and laser designation for the Hellfire missile and for all tri-service and NATO laser-guided munitions.

c. The AN/APY-8 Lynx Block 20 Synthetic Aperture Radar and Ground Moving Target Radar system provides all-weather surveillance, tracking and targeting for military and commercial customers from manned and unmanned vehicles. The AN/PY-8 Lynx Block 20SAR/GMTI radar system and technical data/documents are UNCLASSIFIED.

d. The Honeywell H-764 Adaptive Configurable Embedded Global Positioning System/Inertial Guidance Unit (EGI) contains the Force 524D GPS Receiver card with Selective Availability Anti-Spoofing Module (SAASM). The Force 524D is a 24-channel SAASM based GPS receiver with precise positioning service capability built upon Trimble's next generation GPS technology. The Force 524D retains backward compatibility with the proven Force 5GS while adding new functionality to interface with the digital antenna electronics to significantly improve anti jam performance. The host platform can select the radio frequency of digital antenna electronics interface. In the digital mode, the Force 524D is capable of controlling up to 16 independent beams.

(vii) Date Report Delivered to Congress: December 4, 2019.

FUTURE ACT

Mr. ALEXANDER. Mr. President, today, the Senate passed a solution that Senator MURRAY and I reached to permanently fund historically Black colleges and universities and other minority serving institutions.

It is hard to think of a piece of legislation that would have more of a lasting impact on minority students and their families than this bill.

This legislation does two things:

First, it provides permanent funding—that is fully paid for—for HBCUs and other Minority-Serving Institutions attended by over 2 million minority students.

Second, after 5 years of bipartisan effort, it greatly simplifies the free application for Federal student aid—the

FAFSA—that 20 million families, including 8 million minority students, fill out every year to qualify for Federal student aid.

This bipartition provision—which was sponsored by Senators MURRAY, WHITEHOUSE, and GARDNER when it passed the Senate by unanimous consent last December—stops families from having to give their same tax information to the Federal Government twice—first to the IRS, then again to the Department of Education. Students give permission to the IRS and the Department of Education to share tax return data, which eliminates up to 22 questions on the FAFSA with one click.

It should eliminate most of the so-called verification process, which is a bureaucratic nightmare that 5.5 million students go through annually to make sure the information they gave to the Department of Education is exactly the same as they gave to the IRS. The president of East Tennessee State University recently told me that half the students applying to ETSU go through verification at some point.

According to the Department of Education, it helps taxpayers by eliminating up to \$6 billion each year in mistakes—both in overpayments and underpayments—in Pell grants and student loans.

It has taken 20 years to reach this result, and it would not have happened without Jeff Appel, a longtime staff member at the Department of Education who recently passed away, and Secretary DeVos and Secretary Mnuchin's commitment to getting this over the finish line.

In addition, I want to thank the staff who have been instrumental in getting the proposal to this place: on Senator MURRAY's staff, Kara Marachione, Bryce McKibben, Mary Barry, and Evan Schatz. Conor Sheehey with Senator SCOTT. Rebecca Howard with Senator JONES. Christopher Toppings with Senator BURR. Corey Linehan with Senator COONS. And from my staff, Robert Moran, Lauren Davies, Andrew LaCasse, Mary Catherine Cook, and David Cleary.

The final step to simplify the FAFSA is to pass additional legislation that will reduce the 108 questions on the FAFSA to a total of between 18 and 30 questions and make Pell grants predictable so students can know how much grant aid they will receive to attend college.

I and Senators MURRAY, SCOTT, JONES, BURR, and COONS worked together to reach this result and I am glad the Senate passed it today so it can be sent to the House and signed into law by the President before the end of the year.

Mr. SCOTT of Florida. Mr. President, Florida is the Nation's greatest melting pot, with people from all over the Nation choosing to make Florida their permanent home. Our State has the best colleges and universities in the Nation, including many Historically

Black Colleges and Universities and Minority Serving Institutions. As Governor of Florida, I made historic investments in higher education and fought to keep higher education affordable so more students can get a great education in Florida.

As Senator, I will continue to fight to make sure every child has access to a quality education at a price they can afford. Our Historically Black Colleges and Universities and Minority Serving Institutions are critical to the success of our State and the future of our children, and I will always work to support their mission.

The best way to support our colleges and universities is to make sure our economy is thriving so we have the resources we need to invest in education. That means we have to be careful about how we are spending taxpayer dollars. I have concerns any time the government permanently funds a program, no matter what that program is. Funding anything permanently means there is little to no accountability or oversight. We must be careful to regularly review every government-funded program to make sure taxpayers are always getting the best return on their investment.

TRIBUTE TO MAJOR JORDAN KAHN

Mr. MANCHIN. Mr. President, I rise today to acknowledge the service of my defense fellow, Maj. Jordan Kahn, who is approaching the end of his assignment with my office as part of his experience in the U.S. Air Force Legislative Fellowship Program.

Major Kahn joined my office in January and his dedication, work ethic, and intelligence quickly made him a trusted voice on my legislative team. A proud member of the U.S. Air Force, as well as being a graduate of both the U.S. Air Force Academy and the U.S. Air Force Weapons School, Jordan has deployed to defend our country multiple times, and because of his service, our Nation is safer. Most importantly, Jordan is a devoted husband and father, and I have had the pleasure of watching his family grow over the last year. In November, his wife Becky gave birth to their second son Haden, and his firstborn son Harrison has now dutifully taken on the responsibility of big brother.

As Major Kahn moves on to his next assignment, I have full faith that he will continue to excel as a leader in the Air Force and would trust him in the most demanding and sensitive positions within our Armed Forces. I extend my sincere thanks for his service to our Nation and our office and wish him and his family continued success in his future endeavors.

ADDITIONAL STATEMENTS

TRIBUTE TO BETH WALSH, CLAIRE PICHETTE, THOMAS REDMON, AND JUSTINE HURLEY

• Mr. DAINES. Mr. President, this week I have the honor of recognizing four Montana school teachers for their passion and dedication to teaching math and science to young Montanans.

Beth Walsh from East Valley Middle School, Claire Pichette from Helena High School, Thomas Redmon from Daly Elementary, and Justine Hurley from White Sulphur Springs Elementary School have all been awarded the Presidential Award for Excellence in Mathematics and Science Teaching between 2017 and 2018.

The Presidential Award for Excellence in Mathematics and Science Teaching is an incredibly high honor for school teachers across the country and no easy task to receive. A committee of Montana math and science teachers select finalists from a collection of statewide applications followed by a national panel of distinguished scientists, mathematician, and educators who select four national award winners from those finalists.

These teachers won the Presidential Award for their superior abilities to educate young Montanans on mathematics and science ranging from kindergarten children to seniors in high school. They show passion for their profession daily, and this award is a symbol of that passion. We are lucky to have such highly qualified teachers educating Montana students.

It is my honor to recognize Beth Walsh, Claire Pichette, Thomas Redmon, and Justine Hurley for their exemplary work educating Montana students. They are a true testament to the incredible education system we have throughout Big Sky Country. •

REMEMBERING DR. WOODIE FLOWERS

• Ms. HASSAN. Mr. President, today I would like to recognize the life of an extraordinary individual, Dr. Woodie Flowers.

As an engineer, a professor at the Massachusetts Institute of Technology—MIT—and an integral part of FIRST—For Inspiration and Recognition of Science and Technology—Woodie helped educate and inspire people in New Hampshire, across the country, and around the world.

I first had the privilege of meeting Woodie in the 1980s when I was doing legal work for MIT. Almost immediately, I recognized his curiosity and eagerness to learn, his patience and understanding, and his desire to collaborate and work effectively. Woodie extended that ethos and enthusiasm for education to every aspect of his life, including through his groundbreaking leadership at MIT and FIRST.

Throughout his career, Woodie brought a unique vision to his work