

Nineteen (19) Joint Helmet-Mounted Cueing Systems (JHMCS)

Six (6) Inert MK-82 (500LB) General Purpose Bomb Bodies

Two (2) MXU-650KB Air Foil Groups (AFG)
Forty-four (44) LN-260 Embedded GPS/INS (EGI)

Forty-nine (49) Multifunctional Information Distribution System Joint Tactical Radios (MIDS JTRS)

Non-MDE: Also included are avionics and Mode 5 equipment and software upgrades, integration, and test; software and software support; ARC-238 Radios; Combined Altitude Radar Altimeters (CARA); Joint Mission Planning System (JMPS) support; Identification Friend or Foe (IFF) AN/APX-126 Combined Interrogator Transponders, cryptographic appliques, keying equipment, and encryption devices; weapon system spares and support; bomb components; High-Bandwidth Compact Telemetry Modules (HCTMs); secure communications and precision navigation equipment; aircraft displays; additional spare and repair/return parts; publications, charts, and technical documentation; integration and test equipment; U.S. Government and contractor engineering, technical and logistical support services; and other related elements of logistics and program support.

(iv) Military Department: Air Force (CI-D-VAZ).

(v) Prior Related Cases, if any: CI-D-CAW, CI-D-FAA, CI-D-GBK, CI-D-GBL, GBM, CID-GB0, CI-D-GRS, CI-D-KAB, CI-D-KBB, CI-D-MAA, CI-D-OAA, CI-D-PAC, CI-D-QAA, CI-D-QAB, CI-D-QAE, CI-D-QAN, CI-D-QAP, CI-D-RAD, CI-D-RAG, CI-DSGB, CI-D-VAE, CI-D-YAA, CI-D-YAB.

(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: July 23, 2020.

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

POLICY JUSTIFICATION

Chile—F-16 Modernization

The Government of Chile has requested to buy equipment and related services for F-16 Modernization to include: nineteen (19) Joint Helmet-Mounted Cueing Systems (JHMCS); six (6) inert MK-82 (500LB) general purpose bomb bodies; two (2) MXU-650KB Air Foil Groups (AFG); forty-four (44) LN-260 Embedded GPS/INS (EGI); forty-nine (49) Multifunctional Information Distribution System Joint Tactical Radios (MIDS JTRS). Also included are avionics and Mode 5 equipment and software upgrades, integration, and test; software and software support; ARC-238 Radios; Combined Altitude Radar Altimeters (CARA); Joint Mission Planning System (JMPS) support; Identification Friend or Foe (IFF) AN/APX-126 Combined Interrogator Transponders, cryptographic appliques, keying equipment, and encryption devices; weapon system spares and support; bomb components; High-Bandwidth Compact Telemetry Modules (HCTMs); secure communications and precision navigation equipment; aircraft displays; additional spare and repair/return parts; publications, charts, and technical documentation; integration and test equipment; U.S. Government and contractor engineering, technical and logistical support services; and other related elements of logistics and program support. The total estimated program cost is \$634.70 million.

This proposed sale will support the foreign policy goals and national security objectives of the United States by improving the security of a strategic partner in South America.

The proposed sale will improve Chile's capability to meet current and future threats

by modernizing its F-16 fleet, which will allow Chile to maintain sovereignty and homeland defense, increase interoperability with the United States and other partners, and deter potential adversaries. Chile will have no difficulty absorbing the upgrades into its armed forces.

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

The principal contractor will be Lockheed Martin, Bethesda, MD. There are no known offset agreements in connection with this potential sale.

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

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

TRANSMITTAL NO. 20-28

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. 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 enabling the pilot to monitor aircraft information without interrupting his field of view through the cockpit canopy.

2. Embedded GPS-INS (EGI) LN-260 is a sensor that combines GPS and inertial sensor inputs to provide accurate location information for navigation and targeting.

3. Multifunctional Information Distribution System (MIDS) Joint Tactical Radio (JTRS) is a software defined radio and data link. MIDS JTRS terminals can be loaded with sensitive cryptographic keys which secure data and radio communications.

4. Enhanced Paveway II (EP II) Laser Guided Bomb (LGB) is a maneuverable, all-weather, free-fall weapon that guides to a spot of laser energy reflected off the target. The "enhanced" component is the addition of GPS-aided Inertial Navigation Systems (GAINS) guidance to the laser seeker. Laser designation for the LGB can be provided by a variety of laser target markers or designators. The EP II consists of an Enhanced Computer Control Group (ECCG) that is not warhead specific and a warhead-specific Air Foil Group (AFG) that attaches to the nose and tail of a GP bomb body.

GBU-49 is a 500 lb weapon that can use an inert or live MK-82 bomb body fitted with MXU-650 or WGU-63 type AFGs, and MAU-210 ECCGs to guide to either a laser designated target or GPS coordinates of a target.

5. High-Bandwidth Compact Telemetry Modules (HCTM) are flight test instrumentation hardware that gathers real-time weapon data during testing of a munition.

6. The Modular Mission Computer (MMC) 7000AH is the central aircraft computer of the F-16. It serves as the hub for all aircraft subsystems and avionics data transfer.

7. AN/ARC-238 radio is a secure voice communications radio system.

8. Combined Altitude Radar Altimeter (CARA) is a radar system used to measure the aircraft altitude above the terrain. It is comprised of four components: a Receiver/Transmitter, Signal Data Converter, and Transmit and Receive Antennas. The upgrade will involve the Receiver/Transmitter as part of the overall Avionics upgrades.

9. Joint Mission Planning System (JMPS) is a multi-platform PC based mission planning system.

10. The AN/APX-126 Combined Interrogator Transponder is an Identification Friend or

Foe system capable of transmitting and interrogating Modes 4 and 5.

11. The highest level of classification of information included in this potential sale is SECRET.

12. 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 or advanced capabilities.

13. A determination has been made that Chile 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.

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

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 requirement of Section 36(b)(1) of the Arms Export Control Act, as amended, we are forwarding herewith Transmittal No. 20-40 concerning the Navy's proposed Letter(s) of Offer and Acceptance to the Government of France for defense articles and services estimated to cost \$2 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,

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

Enclosures.

TRANSMITTAL NO. 20-40

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 France.

(ii) Total Estimated Value:
Major Defense Equipment * \$1.3 billion.
Other \$.7 billion.
Total \$2.0 billion.

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

Major Defense Equipment (MDE):

Three (3) E-2D Advanced Hawkeye Aircraft.

Ten (10) T-56-427A engines (6 installed and 4 spares).

Three (3) AN/APY-9 Radar Assemblies.

Four (4) AN/ALQ-217 Electronic Support Measure systems (3 installed and 1 spare).

Three (3) AN/AYK-27 Integrated Navigation Channels and Display Systems.

Five (5) Link-16 (MIDS-JTRS) Communications Systems (3 installed and 2 spares).

Ten (10) Embedded GPS/INS (EGI) Devices (6 installed and 4 spares).

Four (4) AN/APX-122(A) and AN/APX-123(A) Identification, Friend or Foe systems (3 installed and 1 spare).

One (1) Joint Mission Planning System.

Non-MDE: Also included are Common Systems Integration Laboratories with/Test Equipment, one in Melbourne, FL, and the other in France; air and ground crew equipment; support equipment; spare and repair parts; publications and technical documentation; transportation; training and training equipment; U.S. Government and contractor logistics, engineering, and technical support services; and other related elements of logistics and program support.

(iv) Military Department: Navy (FR-P-SBM).

(v) Prior Related Cases, if any: FR-P-GXJ.

(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: July 6, 2020.

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

POLICY JUSTIFICATION

France—E-2D Advanced Hawkeye Aircraft, Spares and Support Equipment

The Government of France requests to buy three (3) E-2D Advanced Hawkeye Aircraft, ten (10) T-56-427A engines (6 installed and 4 spares), three (3) AN/APY-9 radar assemblies, four (4) AN/ALQ-217 electronic support measure systems (3 installed and 1 spare), three (3) AN/AYK-27 Integrated Navigation Channels and Display Systems, five (5) Link-16 (MIDS-JTRS) Communications Systems (3 installed and 2 spares), ten (10) Embedded GPS/INS (EGI) Devices (6 installed and 4 spares), four (4) AN/APX-122(A) and AN/APX-123(A) Identification, Friend or Foe systems (3 installed and 1 spare) and one (1) Joint Mission Planning System. Also included are Common Systems Integration Laboratories with/Test Equipment, one in Melbourne, FL, and the other in France; air and ground crew equipment; support equipment; spare and repair parts; publications and technical documentation; transportation; training and training equipment; U.S. Government and contractor logistics, engineering, and technical support services; and other related elements of logistics and program support. The total estimated program cost is \$2 billion.

This proposed sale will support the foreign policy and national security of the United States by helping to improve security of a NATO ally which is an important force for political stability and economic progress in Europe.

The proposed sale will improve France's capability to meet current and future threats by providing its Naval Air Forces with a sustainable follow on capability to their current, legacy E-2C Hawkeye aircraft. The E-2D aircraft will continue and expand French naval aviation capabilities and maintain interoperability with U.S. naval forces.

As a current E-2C operator, France will have no difficulty absorbing this equipment and support into its armed forces.

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

The principal contractor will be Northrop Grumman Systems Corp, Aerospace Systems, Melbourne, FL. There are no known offset agreements proposed in connection with this potential sale. Any offset agreement will be defined in negotiations between the Purchaser and the prime contractor.

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

There will be no adverse impact on U.S. defense readiness resulting from this proposed sale.

TRANSMITTAL NO. 20-40

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 E-2D Airborne Early Warning Aircraft is a carrier based command and control aircraft. The E-2D Airborne Early Warning Aircraft provides command and control capability as well as sea and air surveillance for naval forces.

2. The Multifunctional Information Distribution System (MIDS) Joint Tactical Radio System V (JTRS-5) is a Command, Control, Communications, Computing and Intelligence (C4I) system for the exchange of near real-time tactical information. MIDS JTRS provides Link 16 and TACAN functionalities providing information, both data and voice, across the network to air, ground, and maritime elements.

3. The AN/AYK-27 Integrated Navigation Channels and Display System (INCD) is a navigation and communication system used for internal aircrew communication as well as operational alert and messaging display. The AN/AYK-27 INCD provides internal communications between the five crew members and interfaces with the radio and selected navigation systems.

4. The LN-251 Embedded Global Positioning System (GPS) Inertial Navigation System (INS) (EGI) is a navigation system accurate global positioning information. The LN-251 EGI provides both satellite and inertial position information used for aircraft navigation and tracking.

5. The AN/APY-9 Airborne Early Warning (AEW) Radar Group is an all-weather, airborne early warning radar designed to detect small, highly maneuverable targets in the dense littoral and overland environments. The AN/APY-9 AEW Radar Group provides enhanced airborne command and control and expanded surveillance capabilities.

6. The AN/ALQ-217 Electronic Support Measures (ESM) system is a passive detection system used to identify and locate Radio Frequency (RF) signals. The AN/ALQ-217 ESM System provides autonomous detection and identification of RF emissions.

7. The AN/ARC-210 RT-1939A(C) Radio is a Very High Frequency (VHF) and Ultra High Frequency (UHF) two-way radio providing voice and data communication. The AN/ARC-210 RT-1939A(C) Radio provides two-way, multi-mode voice and data communications across VHF and UHF frequencies as well as satellite communication.

8. The AN/APX-122A Identification Friend or Foe (IFF) Interrogator is a cooperative airborne interrogator capable of detecting military and civilian transponders. The AN/APX-122A IFF Interrogator provides target identification of both civilian and military targets via standardized interrogation modes.

9. The AN/APX-123A (V) Identification Friend or Foe (IFF) Transponder is a cooperative transponder capable of providing ownship IFF data to available IFF interrogators. The AN/APX-123A (V) IFF Transponder provides ownship information inclusive of craft identification data as well as altitude.

10. The Joint Mission Planning System (JMPS) and Mission Planning Environment (MPE) is a software system that provides aircrews with well-structured automated flight planning tools for aircraft, weapons, and sensors. The JMPS MPE system provides the information, automated tools, and decision aids needed to plan aircraft, weapon, and sensor missions rapidly and accurately.

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

12. 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 or advanced capabilities.

13. A determination has been made that France 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.

14. All defense articles and services listed in this transmittal have been authorized for release and export to the France.

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.

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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. 20-45 concerning the Navy's proposed Letter(s) of Offer and Acceptance to the Government of Germany for defense articles and service estimated to cost \$130 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,

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