

- Propose ways to enhance the quality, utility, and clarity of the information to be collected; and
- Propose ways to minimize the burden of the collection of information on those who are to respond, including through the use of appropriate automated, electronic, mechanical, or other technological collection techniques or other forms of information technology, e.g., permitting electronic submissions of responses.

**Comments**

The 60-day *Notice* soliciting comments was published on December 10, 2012 on page 73454. Five public comments were received. All comments received supported all changes that would streamline language, remove redundant text, and simplify and reorder narrative questions to be clearer for applicants to address.

*Description:* CNCS is seeking approval of the Senior Corps Grant Application, as revised. The Grant Application is used by RSVP, Foster Grandparent and Senior Companion Program grantees, and for potential applicants. The Senior Corps Grant Application is currently approved through September 30, 2015.

*Type of Review:* Revision of a currently approved collection.

*Agency:* Corporation for National and Community Service.

*Title:* National Senior Corps Grant Application.

*OMB Number:* 3045-0035.

*Agency Number:* None.

*Affected Public:* Current and potential grantees of the RSVP, Foster Grandparent, and Senior Companion programs.

*Total Respondents:* 1,519.

*Frequency:* Annual.

*Average Time Per Response:* 5 hours.

*Estimated Total Burden Hours:* 7,595.

*Total Burden Cost (capital/startup):* None.

*Total Burden Cost (operating/maintenance):* None.

Dated: April 15, 2013.

**Erwin J. Tan,**

*Director, Senior Corps.*

[FR Doc. 2013-09136 Filed 4-17-13; 8:45 am]

**BILLING CODE 6050-28-P**

**DEPARTMENT OF DEFENSE****Office of the Secretary**

[Transmittal Nos. 13-10]

**36(b)(1) Arms Sales Notification**

**AGENCY:** Department of Defense, Defense Security Cooperation Agency.

**ACTION:** Notice.

**SUMMARY:** The Department of Defense is publishing the unclassified text of a section 36(b)(1) arms sales notification. This is published to fulfill the requirements of section 155 of Public Law 104-164 dated July 21, 1996.

**FOR FURTHER INFORMATION CONTACT:** Ms. B. English, DSCA/DBO/CFM, (703) 601-3740.

The following is a copy of a letter to the Speaker of the House of Representatives, Transmittals 13-10 with attached transmittal, policy justification, and Sensitivity of Technology.

Dated: April 12, 2013.

**Aaron Siegel,**

*Alternate OSD Federal Register Liaison Officer, Department of Defense.*



## DEFENSE SECURITY COOPERATION AGENCY

201 12TH STREET SOUTH, STE 203  
ARLINGTON, VA 22202-5408

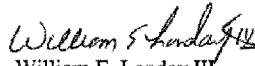
MAR 29 2013

The Honorable John A. Boehner  
Speaker of the House  
U.S. House of Representatives  
Washington, DC 20515

Dear Mr. Speaker:

Pursuant to the reporting requirements of Section 36(b)(1) of the Arms Export Control Act, as amended, we are forwarding herewith Transmittal No. 13-10, concerning the Department of the Air Force's proposed Letter(s) of Offer and Acceptance to the Republic of Korea for defense articles and services estimated to cost \$10.8 billion. After this letter is delivered to your office, we plan to issue a press statement to notify the public of this proposed sale.

Sincerely,

  
William E. Landay III  
Vice Admiral, USN  
Director

## Enclosures:

1. Transmittal
2. Policy Justification
3. Sensitivity of Technology



Transmittal No. 13-10  
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*: Republic of  
Korea  
(ii) *Total Estimated Value*:

Major Defense Equipment*	\$8.1 billion
Other .....	\$2.7 billion
<b>TOTAL .....</b>	<b>\$10.8 billion</b>

(iii) *Description and Quantity or  
Quantities of Articles or Services under  
Consideration for Purchase*: (60) F-35  
Joint Strike Fighter Conventional Take  
Off and Landing (CTOL) aircraft.  
Aircraft will be configured with the  
Pratt & Whitney F-135 engines, and (9)  
Pratt & Whitney F-135 engines are  
included as spares. Other aircraft  
equipment includes: Electronic Warfare  
Systems; Command, Control,  
Communication, Computer and  
Intelligence/Communication,  
Navigational and Identification (C4I/  
CNI); Autonomic Logistics Global

Support System (ALGS); Autonomic  
Logistics Information System (ALIS);  
Full Mission Trainer; Weapons  
Employment Capability, and other  
Subsystems, Features, and Capabilities;  
F-35 unique infrared flares;  
Reprogramming center; F-35  
Performance Based Logistics. Also  
included: software development/  
integration, aircraft ferry and tanker  
support, support equipment, tools and  
test equipment, communication  
equipment, spares and repair parts,  
personnel training and training  
equipment, publications and technical

documents, U.S. Government and contractor engineering and logistics personnel services, and other related elements of logistics and program support.

(iv) *Military Department: Air Force (SAC)*

(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 Annex attached.*

(viii) *Date Report Delivered to Congress: 29 March 2013*

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

#### POLICY JUSTIFICATION

##### Korea—F-35 Joint Strike Fighter Aircraft

The Government of the Republic of Korea has requested a possible sale of (60) F-35 Joint Strike Fighter Conventional Take Off and Landing (CTOL) aircraft. Aircraft will be configured with the Pratt & Whitney F-135 engines, and (9) Pratt & Whitney F-135 engines are included as spares. Other aircraft equipment includes: Electronic Warfare Systems; Command, Control, Communication, Computer and Intelligence/Communication, Navigational and Identification (C4I/CNI); Autonomic Logistics Global Support System (ALGS); Autonomic Logistics Information System (ALIS); Full Mission Trainer; Weapons Employment Capability, and other Subsystems, Features, and Capabilities; F-35 unique infrared flares; reprogramming center; F-35 Performance Based Logistics. Also included: software development/integration, aircraft ferry and tanker support, support equipment, tools and test equipment, communication equipment, spares and repair parts, personnel training and training equipment, publications and technical documents, U.S. Government and contractor engineering and logistics personnel services, and other related elements of logistics and program support. The estimated cost is \$10.8 billion.

This proposed sale will contribute to the foreign policy goals and national security objectives of the United States by meeting the legitimate security and defense needs of an ally and partner nation. The Republic of Korea continues to be an important force for peace, political stability, and economic progress in North East Asia.

The proposed sale of F-35s will provide the Republic of Korea (ROK) with a credible defense capability to

deter aggression in the region and ensure interoperability with U.S. forces. The proposed sale will augment Korea's operational aircraft inventory and enhance its air-to-air and air-to-ground self-defense capability. The ROK's Air Force F-4 aircraft will be decommissioned as F-35's are added to the inventory. Korea will have no difficulty absorbing these aircraft into its armed forces.

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

The prime contractors will be Lockheed Martin Aeronautics Company in Fort Worth, Texas; and Pratt & Whitney Military Engines in East Hartford, Connecticut. This proposal is being offered in the context of a competition. If the proposal is accepted, it is expected that offset agreements will be required.

Implementation of this proposed sale will require multiple trips to Korea involving U.S. Government and contractor representatives for technical reviews/support, program management, and training over a period of 15 years. U.S. contractor representatives will be required in Korea to conduct Contractor Engineering Technical Services (CETS) and Autonomic Logistics and Global Support (ALGS) for after-aircraft delivery.

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

Transmittal No. 13-10

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

Item No. vii

(vii) *Sensitivity of Technology:*

1. The F-35 Conventional Take-Off and Landing (CTOL) Block 3 aircraft is classified Secret, except as noted below. It contains current technology representing the F-35 low observable airframe/outer mold line, Pratt & Whitney engine, radar, integrated core processor central computer, mission systems/electronic warfare suite, a multiple sensor suite, operational flight and maintenance trainers, technical data/documentation, and associated software. As the aircraft and its subsystems are under development, many specific identifying equipment/system nomenclatures have not been assigned to date. Sensitive and classified elements of the F-35 CTOL Block 3 aircraft include hardware, accessories, components, and associated

software for the following major subsystems:

a. The Propulsion system is classified Secret and contains technology representing the latest state-of-the-art in several areas. Information on performance and inherent vulnerabilities is classified Secret. Software (object code) is classified Secret. The single 40,000-lb thrust class engine is designed for low observability and has been integrated into the aircraft system, Pratt & Whitney, with the F135, is developing and producing engine turbo machinery compatible with the F-35 and assures highly reliable, affordable performance. The engine is designed to be utilized in all F-35 variants, providing unmatched commonality and supportability throughout the worldwide base of F-35 users. The CTOL propulsion configuration consists of a main engine, diverterless supersonic inlet, and a Low Observable Axisymmetric Nozzle (LOAN).

b. The AN/APG-81 Active Electronically Scanned Array (AESA) provides mission systems with air-to-air and air-to-ground tracks which the mission system uses as a component to sensor fusion. The AESA allows the radar to direct RF energy in a way that does not expose the F-35, allowing it to maintain low observability in high-threat environments. The radar subsystem supports integrated system performance for air-to-air missions by providing search, track, identification, and AIM-120 missile data link functionality. The radar also provides synthetic aperture radar mapping for locating surface targets and weather mapping for weather avoidance. The radar functions are tightly integrated, interleaved, and managed by an interface to sensor management functions within mission software. The hardware and software are classified Secret.

c. The Electro Optical Targeting System (EOTS) contains technology representing the latest state-of-the-art in several areas. Information on performance and inherent vulnerabilities is classified Secret. Software (object code) is classified Secret. The EOTS subsystem to the sensor suite provides long-range detection; infrared targeting and tracking systems to support weapon employment. It incorporates a missile-quality Infrared Search and Track (IRST) capability, a Forward-Looking Infrared (FLIR) sensor for precision tracking, and Bomb Damage Indication (BDI) capability. EOTS replaces multiple separate internal or podded systems typically found on legacy aircraft. The

functionality of the EOTS employs the following modes: Targeting FLIR; Laser Range-Finding and Target Designation; EO DAS and EOTS Performance.

d. The Electro-Optical Distributed Aperture System (EODAS) is a subsystem to the sensor suite and provides full spherical coverage for air-to-air and air-to-ground detection and Navigation Forward Looking Infrared (NFLIR) imaging. The system contains both Secret and Unclassified elements and contains technology representing the latest state-of-the-art in several areas. Information on performance and inherent vulnerabilities is classified Secret. Software (object code) is classified Secret. The NFLIR capability provides infrared (IR) imagery directly to the pilot's Helmet-Mounted Display for navigation in total darkness, including takeoff and landing, and provides a passive IR input to the F-35's sensor fusion algorithms. The all-aspect missile warning function provides time-critical warnings of incoming missiles and cues other subsystems to provide effective countermeasure employment. EODAS also provides anIRST function that can create and maintain Situational Awareness-quality tracks (SAIRST). EODAS is a mid-wave Infrared (IR) system consisting of six identical sensors distributed around the F-35 aircraft. Each sensor has a corresponding airframe window panel integrated with the aircraft structure to meet aerodynamic and stealth requirements.

e. The Electronic Warfare (EW) system contains technology representing the latest state-of-the-art in several areas. Information on performance and inherent vulnerabilities is classified Secret. Software (object code) is classified Secret. Sensitive elements include: apertures; radio frequency (RF) and infrared (IR) countermeasures; and Electronic Countermeasures (ECM) techniques and features. The reprogrammable, integrated system provides radar warning and electronic support measures (ESM) along with a fully integrated countermeasures (CM) system. The EW system is the primary subsystem used to enhance situational awareness, targeting support and self defense through the search, intercept, location and identification of in-band emitters and to automatically counter IR and RF threats. The IR and RF countermeasures are classified Secret. This system uses low signature-embedded apertures, located in the aircraft control surface edges, to provide direction finding and identification of surface and airborne emitters and the geo-location of surface emitters. The system is classified Secret.

f. The Command, Control, Communications, Computers and Intelligence/Communications, Navigation, and Identification (C4I/CNI) system provides the pilot with unmatched connectivity to flight members, coalition forces, and the battlefield. It is an integrated subsystem designed to provide a broad spectrum of secure, anti-jam, covert voice and data communications, precision radio navigation and landing capability, self-identification, beyond visual range target identification, and connectivity with off-board sources of information. The functionality is tightly integrated within the mission system for enhanced efficiency and effectiveness in the areas of communications, navigation, identification, and sensor fusion. Information on performance and inherent vulnerabilities is classified Secret. Software (object code) is classified Secret. The CNI function includes both Secret and Unclassified elements. Sensitive elements of the CNI subsystems include:

(1) The VHF/UHF Voice and Data (Plain and Secure) Communication functionality includes air-to-air UHF/VHF voice and data, both clear and secure, to provide communications with other friendly and coalition aircraft, air-to-ground UHF voice to provide communications with ground sites, and intercommunication voice and tone alerts to provide communications between the avionics system and the pilot. UHF/VHF downlink of air vehicle status and maintenance information is provided to notify the ground crews of the amounts and types of stores, fuel, and other supplies or equipment needed to quickly turn the aircraft for the next mission. The system contains both Secret and Unclassified elements and contains technology representing the latest state-of-the-art in several areas. Information on performance and inherent vulnerabilities is classified Secret. Software (object code) is classified Secret.

(2) The Tactical Air Navigation (TACAN) functionality provides operational modes to identify ground station and to provide bearing-to-station, slant range-to-ground station, bearing-to-airborne station and slant range to the nearest airborne station or aircraft. TACAN is not unique to the F-35 aircraft but is standard on most USAF aircraft. Information on performance and inherent vulnerabilities is classified Secret. Software (object code) is classified Secret.

(3) The Identification Friend or Foe Interrogator and Transponder Identification functionality consists of

integrated Mark XII Identification Friend or Foe (IFF) transponder capability to provide identification of other friendly forces. The CNI system supports sensor fusion by supplying data from IFF interrogations and off-board sources through the intra-flight data link. The system contains both Secret and Unclassified elements and contains technology representing the latest state-of-the-art in several areas. Information on performance and inherent vulnerabilities is classified Secret. Software (object code) is classified Secret.

(4) The Global Positioning System Navigation functionality includes the Global Positioning System (GPS) aided inertial navigation to provide high-quality positional navigation, and the Instrument Landing System (ILS)/Tactical Air Control and Navigation (TACAN) to provide navigation and landing cues within controlled airspace. Information on performance and inherent vulnerabilities is classified Secret. Software (object code) is classified Secret.

(5) The Multi-Function Advanced Data Link (MADL) is used specifically for communications between F-35 aircraft and has a very low probability of intercept, contributing to covert operations. The system contains both Secret and Unclassified elements and contains technology representing the latest state-of-the-art in several areas. Information on performance and inherent vulnerabilities is classified Secret. Software (object code) is classified Secret.

(6) The Inertial Navigation System is an all-attitude, Ring Laser Gyro-based navigation system providing outputs of linear and angular acceleration, velocity, body angular rates, position, attitude (roll, pitch, and platform azimuth), magnetic and true heading, altitude, and time tags. Information on performance and inherent vulnerabilities is classified Secret. Software (object code) is classified Secret.

(7) The Radar Altimeter functionality is a module provided in the CNI system rack 3A and uses separate transmit and receive antennae. It measures and reports altitude, and altitude rate of change. Control data is transferred over to a configurable avionics interface card which translates the information to the F-35 aircraft computers. Information on performance and inherent vulnerabilities is classified Secret. Software (object code) is classified Secret.

(8) The Instrument Landing System (ILS) measures, and reports azimuth course and alignment, elevation course

alignment, and distance to the runway. Data from the ILS is used to drive visual flight instrumentation. Information on performance and inherent vulnerabilities is classified Secret. Software (object code) is classified Secret.

(9) The Tactical Data Links is a secure broadcast Tactical Digital Information Link (TADIL) used for real-time voice/data exchange for command and control, relative navigation, and Precise Position Location Identification (PPLI), providing Link-16 type capabilities. The system contains both Secret and Unclassified elements and contains technology representing the latest state-of-the-art in several areas. Information on performance and inherent vulnerabilities is classified Secret. Software (object code) is classified Secret.

g. The F-35 Autonomic Logistics Global Sustainment (ALGS) includes both Secret and Unclassified elements. It 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 the predictive maintenance of vital components.

h. The F-35 Autonomic Logistics Information System (ALIS) includes both Secret and unclassified elements. The ALIS provides an intelligent information infrastructure that binds all of 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, JSF operations, and supporting commercial enterprise systems. Additionally, ALIS provides a comprehensive tool for data collection and analysis, decision support, and action tracking.

i. The F-35 Training System includes both Secret and unclassified elements. The Training System includes several types of training devices, to provide for integrated training of both pilots and maintainers. The pilot training devices include a Full Mission Simulator (FMS) and Deployable Mission Rehearsal Trainer (DMRT). The maintainer training devices include an Aircraft Systems Maintenance Trainer (ASMT), Ejection System Maintenance Trainer (ESMT), 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).

j. Weapons employment capability is Secret and contains technology representing the latest state-of-the-art in several areas. Information on performance and inherent vulnerabilities is Secret. Software (object code) is classified Secret. Sensitive elements include co-operative targeting.

k. Other Subsystems, Features, and Capabilities:

(1) The Low Observable Air Frame is Secret and contains technology representing the latest state-of-the-art in several areas. Information on performance and inherent vulnerabilities is classified Secret. Software (object code) is Secret. Sensitive elements include: the Radar Cross Section and its corresponding plots, construction materials and fabrication.

(2) The Integrated Core Processor (ICP) Central Computer is Secret and contains technology representing the latest state-of-the-art in several areas. Information on performance and inherent vulnerabilities is Secret. Software (object code) is classified Secret. Sensitive elements include: F-35 Integrated Core Processor utilizing Commercial Off the Shelf (COTS) Hardware and Module Design to maximize growth and allow for efficient Management of DMS and Technology Insertion, if additional processing is needed, a second ICP will be installed in the space reserved for that purpose, more than doubling the current throughput and memory capacity.

(3) The F-35 Helmet Mounted Display System (HMDS) is Secret and contains technology representing the latest state-of-the-art in several areas. Information on performance and inherent vulnerabilities is Secret. Software (object code) is Secret. Sensitive elements include: HMDS consists of the Display Management Computer-Helmet, a helmet shell/display module, a quick disconnect integrated as part of the ejection seat, helmet trackers and tracker processing, day- and night-vision camera functions, and dedicated system/graphics processing. The HMDS provides a fully sunlight readable, bi-ocular 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 (NVG). The camera

video is integrated with EO and IR imaging inputs and displayed on the pilot's visor to provide a comprehensive night operational capability.

(4) The Pilot Life Support System is Secret and contains technology representing the latest state-of-the-art in several areas. Information on performance and inherent vulnerabilities is Secret. Software (object code) is Secret. Sensitive elements include: a measure of Pilot Chemical, Biological, and Radiological Protection through use of On Board Oxygen Generating System (OBOGS); and an escape system that provide 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 product gas and supplying breathable air to the pilot.

(5) The Off-Board Mission Support System is Secret and contains technology representing the latest state-of-the-art in several areas. Information on performance and inherent vulnerabilities is Secret. Software (object code) is Secret. Sensitive elements include: mission planning, mission briefing, maintenance/intelligence/tactical debriefing, sensor/algorithm planning, EW system reprogramming, data debrief, etc.

1. Publications: Manuals are considered Secret as they contain information on aircraft/system performance and inherent vulnerabilities.

2. The JSF Reprogramming Center is classified Secret and contains technology representing the latest state-of-the-art in several areas. This hardware/software facility provides a means to update JSF electronic warfare databases. Sensitive elements include: EW software databases and tools to modify these databases.

3. 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.

[FR Doc. 2013-09094 Filed 4-17-13; 8:45 am]

BILLING CODE 5001-06-P