

U.S.C. Sec. 3506(c)(2)(A)). This program helps to ensure that requested data can be provided in the desired format, reporting burden (time and financial resources) is minimized, collection instruments are clearly understood, and the impact of collection requirement on respondents can be properly assessed.

Currently, the Corporation is soliciting comments concerning a small-scale pilot for an online reporting system that grantees can use to calculate the return on investment (ROI) for their volunteer recruitment and management activities. About fifty organizations will participate in the pilot. During the last six months of the pilot, participating organizations will use the system twice to report data on their organization's activities, and will provide feedback to the system's developers.

Copies of the information collection requests can be obtained by contacting the office listed in the addresses section of this notice.

**DATES:** Written comments must be submitted to the individual and office listed in the **ADDRESSES** section by January 22, 2010.

**ADDRESSES:** You may submit comments, identified by the title of the information collection activity, by any of the following methods:

(1) *By mail sent to:* Corporation for National and Community Service, Department of Research and Policy Development; Attention Nathan Dietz, Research Associate/Statistician, Room 10907; 1201 New York Avenue, NW., Washington, DC 20525.

(2) By hand delivery or by courier to the Corporation's mailroom at Room 8100 at the mail address given in paragraph (1) above, between 9 a.m. and 4 p.m. Monday through Friday, except Federal holidays.

(3) *By fax to:* (202) 565-2787, Attention Nathan Dietz, Research Associate/Statistician.

(4) *Electronically through the Corporation's e-mail address system:* [ndietz@cns.gov](mailto:ndietz@cns.gov).

**FOR FURTHER INFORMATION CONTACT:** Nathan Dietz, (202) 606-6633, or by e-mail at [ndietz@cns.gov](mailto:ndietz@cns.gov).

**SUPPLEMENTARY INFORMATION:** *The Corporation is particularly interested in comments that:*

- Evaluate whether the proposed collection of information is necessary for the proper performance of the functions of the Corporation, including whether the information will have practical utility;
- Evaluate the accuracy of the agency's estimate of the burden of the proposed collection of information, including the validity of the methodology and assumptions used;
- Enhance the quality, utility, and clarity of the information to be collected; and
- Minimize the burden of the collection of information on those who are expected to respond, including 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).

#### Background

The Corporation has entered into a cooperative agreement with the National Council on Aging (NCOA) to adapt its SMART (Strategic Metrics and Results Tracking) system for use by Corporation grantees and subgrantees. The goal is to develop a system that all Corporation projects can use to calculate the return on investment for the time and resources they devote to recruiting and managing volunteers.

#### Current Action

*During the first year for this project, NCOA will:*

- Build and test an online tool customized to calculate the return on investment for volunteer recruitment and management for CNCS projects;
  - Orient and train subsequent pilot participants in the use of the reporting tool;
  - Work with participating grantees on a six-month pilot of the tool; and
  - Prepare the tool for a broad-based rollout that will facilitate collection of ROI data among a larger number of CNCS grantees.
- Type of Review:* New collection.  
*Agency:* Corporation for National and Community Service.  
*Title:* Pilot for Volunteer Management ROI Measurement System.  
*OMB Number:* None.  
*Agency Number:* None.

*Affected Public:* Selected recipients of CNCS program grants and subgrants.

*Total Respondents:* 50.

*Frequency:* Twice annually.

*Average Time per Response:* 4 hours.

*Estimated Total Burden Hours:* 400 hours.

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

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

Comments submitted in response to this notice will be summarized and/or included in the request for Office of Management and Budget approval of the information collection request; they will also become a matter of public record.

Dated: November 17, 2009.

**Robert T. Grimm, Jr.,**

*Director of Research and Policy Development.*

[FR Doc. E9-28043 Filed 11-20-09; 8:45 am]

**BILLING CODE 6050--\$S-P**

## DEPARTMENT OF DEFENSE

### Office of the Secretary

[Transmittal Nos. 09-55, 09-56, 09-58, 09-62, and 09-64]

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

**AGENCY:** Defense Security Cooperation Agency, DoD.

**ACTION:** Notice.

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

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

**SUPPLEMENTARY INFORMATION:** The following are copies of letters to the Speaker of the House of Representatives, Transmittals 09-55, 09-56, 09-58, 09-62, and 09-64 with attached transmittal, policy justification, and Sensitivity of Technology.

Dated: November 18, 2009.

**Mitchell S. Bryman,**

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

**BILLING CODE 5001-06-P**

Transmittal No. 09-55



DEFENSE SECURITY COOPERATION AGENCY  
201 12TH STREET SOUTH, STE 203  
ARLINGTON, VA 22202-5408

NOV 10 2009

The Honorable Nancy Pelosi  
Speaker of the House of Representatives  
Washington, DC 20515

Dear Madam 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. 09-55, concerning the Department of the Army's proposed Letter(s) of Offer and Acceptance to Chile for defense articles and services estimated to cost \$455 million. After this letter is delivered to your office, we plan to issue a press statement to notify the public of this proposed sale.

Sincerely,

A handwritten signature in black ink, reading "Jeffrey A. Wieringa", is positioned above the printed name.

**Jeffrey A. Wieringa**  
Vice Admiral, USN  
Director

Enclosures:

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

Transmittal No. 09-55

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: Chile
- (ii) Total Estimated Value:

Major Defense Equipment*	\$223 million
Other	<u>\$232 million</u>
TOTAL	\$455 million
- (iii) Description and Quantity or Quantities of Articles or Services under Consideration for Purchase: 36 AVENGER Fire Units, 378 STINGER-Reprogrammable Micro-Processor (RMP) Block 1 Anti-Aircraft missiles, 12 STINGER Block 1 Buy-to-Fly missiles, 42 Captive Flight Trainers, 36 AN/VRC-92E Single Channel Ground and Airborne Radio Systems (SINCGARS), 42 Captive Flight Trainers (CFTs), S250 Shelters on High Mobility Multi-Purpose Wheeled Vehicles (HMMWV), support equipment, tools and test equipment, spare and repair parts, publications and technical documentation, personnel training and training equipment, U.S. Government and contractor technical support services, and other related elements of logistics support.
- (iv) Military Department: Army (ULN)
- (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: 10NOV09

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

POLICY JUSTIFICATIONChile – AVENGER Fire Units/STINGER Missiles

The Government of Chile has requested a possible sale of 36 AVENGER Fire Units, 378 STINGER-Reprogrammable Micro-Processor (RMP) Block 1 Anti-Aircraft missiles, 12 STINGER Block 1 Buy-to-Fly missiles, 42 Captive Flight Trainers, 36 AN/VRC-92E Single Channel Ground and Airborne Radio Systems (SINCGARS), 42 Captive Flight Trainers (CFTs), S250 Shelters on High Mobility Multi-Purpose Wheeled Vehicles (HMMWV), support equipment, tools and test equipment, spare and repair parts, publications and technical documentation, personnel training and training equipment, U.S. Government and contractor technical support services, and other related elements of logistics support. The estimated cost is \$455 million.

This proposed sale will contribute to the foreign policy and national security of the United States by helping to improve the security of a friendly country which has been and continues to be an important force for political stability and economic progress in South America.

Chile intends to use these defense articles and services to modernize its armed forces. and expand its existing air defense architecture to counter threats posed by air attack. These systems will contribute to the Chilean military's goal of updating its capability while further enhancing greater interoperability between Chile and the U.S. and other allies.

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

The principal contractors will be Boeing Aerospace Company of Huntsville, AL, Raytheon Missile Systems of Tucson, AZ, and Thales Raytheon Systems Company, LLC of Fullerton, CA. There are no offset agreements proposed in connection with this potential sale.

Implementation of this proposed sale will require 10 U.S. Government or contractor representatives to travel to Chile for 8 weeks for equipment checkout and training.

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

Transmittal No. 09-55

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 highest classification of the AVENGER hardware is Confidential and the data and information is Secret.

a. The AVENGER fire unit utilizes two Stinger Vehicle Universal Launchers to allow for the loading and firing of eight STINGER missiles. The primary critical technology associated with the AVENGER system is the STINGER missile utilized with the system. The Avenger control electronics unit integrates several inputs and outputs for the overall fire unit control. This could be used to develop evasive tactics. The AVENGER system utilizes a Confidential software Personal Computer Memory Card International Adapter card for upload of critical missile software orientation and kinematic range information to the platform. The laser range finder and Forward Looking Infra Red could compromise detailed design and fabrication information for these systems and their use with small missiles. The AVENGER/STINGER training equipment contains operational seeker hardware and firmware and must be protected by the same level of controls as tactical hardware.

b. The STINGER Block I International Missile System, hardware, software, and documentation contain sensitive technology and are classified Confidential. The guidance section of the missile and tracking head trainer contain highly sensitive technology and are classified Confidential. No man-portable grip stocks will be sold under these LOAs.

c. Missile System hardware and fire unit components contain sensitive/critical technologies. The STINGER critical technology is primarily in the area of design and production know-how and not end-items. This sensitive/critical technology is inherent in the hybrid microcircuit assemblies; microprocessors; magnetic and amorphous metals; purification; firmware; printed circuit boards; laser range finder, dual detector assembly; detector filters; missile software; optical coatings; ultraviolet sensors; semi-conductor detectors infrared band sensors; compounding and handling of electronic, electro-optic, and optical materials; equipment operating instructions; energetic materials formulation technology; energetic materials fabrication and loading technology; and warhead components seeker assembly. Information on vulnerability to electronic countermeasures and countermeasures, system performance capabilities and effectiveness, and test data are classified up to Secret.

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

Transmittal No. 09-56



DEFENSE SECURITY COOPERATION AGENCY  
201 12TH STREET SOUTH, STE 203  
ARLINGTON, VA 22202-5408

NOV 16 2009

The Honorable Nancy Pelosi  
Speaker  
U.S. House of Representatives  
Washington, DC 20515-6501

Dear Madam 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. 09-56, concerning the Department of the Air Force's proposed Letter(s) of Offer and Acceptance to Singapore for defense articles and services estimated to cost \$40 million. After this letter is delivered to your office, we plan to issue a press statement to notify the public of this proposed sale.

Sincerely,

**Jeffrey A. Wieringa**  
Vice Admiral, USN  
Director

Enclosures:

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

Transmittal No. 09-56

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: Singapore
- (ii) Total Estimated Value:

Major Defense Equipment*	\$ 33 million
Other	\$ <u>7 million</u>
TOTAL	\$ 40 million
- (iii) Description and Quantity or Quantities of Articles or Services under Consideration for Purchase: 670 KMU-572B/B Joint Direct Attack Munitions (JDAM) Guidance Kits and, 670 DSU-38/B Precision Laser Guidance kits for GBU-54(V)1/B (MK-82), support equipment, repair and return, tools and test equipment, spare and repair parts, publications and technical documentation, personnel training and training equipment, U.S. Government and contractor technical and logistics personnel services, and other related elements of logistical and program support.
- (iv) Military Department: Air Force (YAG)
- (v) Prior Related Cases, if any: FMS case YAB-\$5M-19Feb09
- (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: NOV 16 2009

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

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POLICY JUSTIFICATION

Singapore – Laser Joint Direct Attack Munitions

The Government of Singapore has requested a possible sale of 670 KMU-572B/B Joint Direct Attack Munitions (JDAM) Guidance Kits and, 670 DSU-38/B Precision Laser Guidance kits for GBU-54(V)1/B (MK-82) 670 KMU-572B/B Joint Direct Attack Munitions (JDAM) Guidance Kits for GBU-28B(V)1/B (MK-82), 670 DSU-38/B Precision Laser Guidance Kits for GBU-54(V)1/B, support equipment, repair and return, tools and test equipment, spare and repair parts, publications and technical documentation, personnel training and training equipment, U.S. Government and contractor technical and logistics personnel services, and other related elements of logistical and program support. The estimated cost is \$40 million.

This proposed sale will contribute to the foreign policy and national security of the United States by helping to improve the security of a friendly country that has been and continues to be an important force for economic progress in Southeast Asia.

Singapore needs the JDAM kits to help meet current and future threats of enemy air-to-ground weapons. Singapore will use the enhanced capability as a deterrent to regional threats and to strengthen its homeland defense. Singapore, which already has JDAM guidance kits in its inventory, will have no difficulty absorbing these additional enhanced kits.

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

The principal contractor will be The Boeing Company of St. Louis, Missouri. There are no known offset agreements proposed in connection with this potential sale.

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

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



Transmittal No. 09-56

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 Joint Direct Attack Munitions (JDAM) is a guidance tail kit that converts unguided free-fall bombs into accurate, adverse weather "smart" munitions. With the addition of a new tail section that contains an inertial navigational system and a global positioning system guidance control unit, JDAM improves the accuracy of unguided, general-purpose bombs in any weather condition. JDAM can be launched from very low to very high altitudes in a dive, toss and loft, or in straight and level flight with an on-axis or off-axis delivery. JDAM enables multiple weapons to be directed against single or multiple targets on a single pass.

2. Sensitive and/ or classified (up to Secret) elements of the proposed acquisition include hardware, accessories, components, and associated software: GBU-54 Laser Joint Direct Attack Munition (LJDAM). Additional sensitive areas include operating manuals and maintenance technical orders containing performance information, operating and test procedures, and other information related to the support operations and repair. The hardware, software, and data identified are classified to protect vulnerabilities, design, and performance parameters and other similar critical information.

3. The GBU-54 Laser JDAM is a MK-82 JDAM variant with a DSU-38 Laser Sensor that uses - a Global Position System aided inertial navigation and/or Laser guidance to execute threat targets. The Laser sensor enhances the standard JDAM's reactive targeting capability by allowing rapid prosecution of fixed targets with large initial target location errors (TLE). The DSU-38 Laser sensor also provides the additional capability to engage mobile targets moving up to 70 mph. The DSU-38 Laser sensor is a strap down (non-gimbaled) sensor that attaches to the Mk-82 bomb body in the forward fuze well. The addition of the DSU-38 Laser sensor combined with additional cabling and mounting hardware turns a standard GBU-38 JDAM into a GBU-54 Laser JDAM.

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

Transmittal No. 09-58



DEFENSE SECURITY COOPERATION AGENCY  
201 12TH STREET SOUTH, STE 203  
ARLINGTON, VA 22202-5408

NOV 16 2009

The Honorable Nancy Pelosi  
Speaker  
U.S. House of Representatives  
Washington, DC 20515

Dear Madam 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. 09-58, concerning the Department of the Army's proposed Letter(s) of Offer and Acceptance to Kuwait for defense articles and services estimated to cost \$410 million. After this letter is delivered to your office, we plan to issue a press statement to notify the public of this proposed sale.

Sincerely,

  
Beth M. McCormick  
Deputy Director

## Enclosures:

1. Transmittal
2. Policy Justification
3. Sensitivity of Technology
4. Regional Balance (Classified Document Provided Under Separate Cover)

Transmittal No. 09-58

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: Kuwait
- (ii) Total Estimated Value:
- |                          |                |
|--------------------------|----------------|
| Major Defense Equipment* | \$ 0 million   |
| Other                    | \$ 410 million |
| TOTAL                    | \$ 410 million |
- (iii) Description and Quantity or Quantities of Articles or Services under Consideration for Purchase: four-year PATRIOT Air Defense System sustainment and repair/return program to include spare and repair parts, support equipment, repair/return, transportation support, modification kits, Contractor Engineering Technical Services/Contractor Maintenance Support Services, Liaison Office Support Services, U.S. Government and contractor technical and logistics personnel services and other related elements of program support.
- (iv) Military Department: Army (VBZ and ZUM)
- (v) Prior Related Cases, if any: numerous cases dating back to 1992
- (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:
- \* as defined in Section 47(6) of the Arms Export Control Act.

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POLICY JUSTIFICATION

Kuwait – PATRIOT Sustainment and Repair/Return Program

The Government of Kuwait has requested a possible sale of four-year PATRIOT Air Defense System sustainment and repair/return program to include spare and repair parts, support equipment, repair/return, transportation support, modification kits, Contractor Engineering Technical Services/Contractor Maintenance Support Services, Liaison Office Support Services, U.S. Government and contractor technical and logistics personnel services and other related elements of program support. The estimated cost is \$410 million.

This proposed sale will contribute to the foreign policy and national security of the United States by helping to improve the security of a friendly country which has been, and continues to be, an important force for political stability and economic progress in the Middle East.

The Government of Kuwait needs the PATRIOT sustainment and repair/return program to enhance its capability to meet current and future enemy air-to-ground weapon threats. Kuwait will use the sustained capability to deter regional threats and to strengthen its homeland defense.

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

The principal contractor will be Raytheon Corporation in Tewksbury, MA. There are no known offset agreements proposed in connection with this potential sale.

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

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

Transmittal No. 09-58

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 Kuwait PATRIOT Air Defense System Sustainment and Repair/Return Program includes the release of publications and technical documentation, drawings, and software that are classified up to Secret.

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

Transmittal No. 09-62



DEFENSE SECURITY COOPERATION AGENCY  
201 12TH STREET SOUTH, STE 203  
ARLINGTON, VA 22202-5408

NOV 10 2009

The Honorable Nancy Pelosi  
Speaker  
U.S. House of Representatives  
Washington, DC 20515

Dear Madam 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. 09-62, concerning the Department of the Air Force's proposed Letter(s) of Offer and Acceptance to Chile for defense articles and services estimated to cost \$145 million. After this letter is delivered to your office, we plan to issue a press statement to notify the public of this proposed sale.

Sincerely,

A handwritten signature in black ink, reading "Beth M. McCormick", is positioned below the "Sincerely," text.

**Beth M. McCormick**  
**Deputy Director**

Enclosures:

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

## Transmittal No. 09-62

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: Chile
- (ii) Total Estimated Value:

Major Defense Equipment*	\$125 million
Other	\$ 20 million
TOTAL	\$145 million
- (iii) Description and Quantity or Quantities of Articles or Services under Consideration for Purchase: 100 AIM-120C-7 Advanced Medium-Range Air-to-Air Missiles (AMRAAM), containers, warranty, spare and repair parts, support equipment, publications and technical data, personnel training and training equipment, U.S. Government and contractor technical assistance, and other related elements of logistics support.
- (iv) Military Department: Air Force (YAB)
- (v) Prior Related Cases, if any: FMS case SAB (Amd #4)-\$35M-04Aug09
- (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: NOV 10 2009

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

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POLICY JUSTIFICATION

Chile – AIM-120C-7 AMRAAM Missiles

The Government of Chile has requested a possible sale of 100 AIM-120C-7 Advanced Medium-Range Air-to-Air Missiles (AMRAAM), containers, warranty, spare and repair parts, support equipment, publications and technical data, personnel training and training equipment, U.S. Government and contractor technical assistance, and other related elements of logistics support. The estimated cost is \$145 million.

This proposed sale will contribute to the foreign policy and national security of the United States by helping to improve the security of a friendly country which has been and continues to be an important force for political stability and economic progress in South America.

Chile intends to use these missiles to improve its capability to meet current and future threats of enemy air-to-air weapons. This will contribute to the Chilean military's goal to update its capability while further enhancing greater interoperability between Chile, the U.S., and other allies. Chile, which already has AMRAAM missiles in its inventory, will have no difficulty absorbing these additional missiles 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 the Raytheon Corporation in Tucson, Arizona. There are no known offset agreements proposed in connection with this potential sale.

Implementation of this proposed sale will not require 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. 09-62

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 AIM-120C-7 Advanced Medium-Range Air-to-Air Missile (AMRAAM) is a new generation air-to-air missiles. The AIM-120C-7 AMRAAM hardware, including the missile guidance section, is classified Confidential. State-of-the-art technology is used in the missile to provide it with unique beyond-visual-range capability. Significant AIM-120C-7 features include a target detection device with embedded electronic countermeasures, an electronics unit within the guidance section that performs all radar signal processing, mid-course and terminal guidance, flight control, target detection, and warhead burst point determination. Anti-tampering security measures have been incorporated into the AIM-120C-7 to prevent exploitation of the AMRAAM software.

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

Transmittal No. 09-64



DEFENSE SECURITY COOPERATION AGENCY  
201 12TH STREET SOUTH, STE 203  
ARLINGTON, VA 22202-5408

NOV 10 2009

The Honorable Nancy Pelosi  
Speaker  
U. S. House of Representatives  
Washington, DC 20515

Dear Madam 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. 09-64, concerning the Department of the Army's proposed Letter(s) of Offer and Acceptance to Chile for defense articles and services estimated to cost \$65 million. After this letter is delivered to your office, we plan to issue a press statement to notify the public of this proposed sale.

Sincerely,

A handwritten signature in black ink, reading "Beth M. McCormick", is positioned below the word "Sincerely,".

**Beth M. McCormick**  
**Deputy Director**

Enclosures:

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

Transmittal No. 09-64

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: Chile
- (ii) Total Estimated Value:

Major Defense Equipment*	\$ 45 million
Other	\$ 20 million
TOTAL	\$ 65 million
- (iii) Description and Quantity or Quantities of Articles or Services under Consideration for Purchase: 6 AN/MPQ-64F1 SENTINEL radar systems, 6 AN/VRC-92E Vehicular Dual Long Range Single Channel Airborne and Ground Radio Systems (SINCGARS), spare and repair parts, tool and test equipment, repair and return, software support, support equipment, integration, publications and technical data, personnel training and training equipment, communications equipment, U.S. Government and contractor engineering, technical, and logistics personnel support, and other related elements of logistics support.
- (iv) Military Department: Army (ULU)
- (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: 10NOV09

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

POLICY JUSTIFICATIONChile – AN/MPQ-64F1 SENTINEL Radar Systems

The Government of Chile has requested a possible sale of 6 AN/MPQ-64F1 SENTINEL radar systems, 6 AN/VRC-92E Vehicular Dual Long Range Single Channel Airborne and Ground Radio Systems (SINCGARS), spare and repair parts, tool and test equipment, repair and return, software support, support equipment, integration, publications and technical data, personnel training and training equipment, communications equipment, U.S. Government and contractor engineering, technical, and logistics personnel support, and other related elements of logistics support. The estimated cost is \$65 million.

This proposed sale will contribute to the foreign policy and national security of the United States by helping to improve the security of a friendly country which has been and continues to be an important force for political stability and economic progress in South America.

Chile intends to use these radars to modernize its armed forces. The Government of Chile intends to expand its existing air defense architecture to counter threats posed by air attack. This will contribute to the Chilean military's goal to update its capability while further enhancing greater interoperability between Chile and the U.S., and among other allies.

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

The principal contractors will be the Thales Raytheon Systems of Fullerton, California, International Telephone and Telegraph of Fort Wayne, Indiana, and American General of South Bend, Indiana. There are no known offset agreements proposed in connection with this potential sale.

Implementation of this proposed sale will require 10 U.S. Government or contractor representatives to travel to Chile for a period of 8 weeks for equipment checkout and training.

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

Transmittal No. 09-64

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 AN/MPQ-64 SENTINEL Radar System is a fielded air defense radar system in the Army inventory. SENTINEL is a derivative of the AN/TPQ-36 Firefinder System used for artillery detection and the AN/TPQ-36A Norwegian-adapted Hawk system. The SENTINEL radar (AN/MPQ-64) is the sensor for the Short Range Air Defense (SHORAD) weapon systems, including the Avenger, any ground-launched Stinger platform, and Bradley-Linebacker. SENTINEL is a mobile phased-array radar that provides highly accurate three dimensional radar track data to operate systems via the Forward Area Air Defense (FAAD) Command, Control, and Intelligence (C2I) node. SENTINEL's detection range, mobility, and 360 degree azimuth coverage allow it to support SHORAD weapons located throughout the division area. SENTINEL acquires, tracks, and reports cruise missiles, unmanned aerial vehicles, fixed and rotary wing aircraft in clutter and electronic counter measures environments. The SENTINEL export configuration (AN/MPQ-64F1) will be a derivative of the U.S. Army's Improved SENTINEL Radar that will be classified Confidential at the system level, when the classified software is loaded into the hardware. The hardware with the software removed and purged is Unclassified.

a. The SENTINEL consists of a radar-based sensor system with the M1097A2 as the prime mover and the MEP-813A Tactical Quiet Generator as the power source. The sensor is an advanced battlefield radar capable of X-Band air defense phased-array with an instrumented range of 40 kilometers with a rotating antenna providing 360 degree azimuth coverage for acquisition and tracking.

b. Reports, test data, and all Sentinel related media that discloses operational parameters, performance, characteristics, ECCM techniques, vulnerabilities, limitations or performance weaknesses shall be classified at the highest level based on the information being conveyed. Distribution of technical performance and system capabilities reports and data shall only be released up to the Confidential level. It is not possible to obtain the Sentinel wartime reserved frequencies by reverse engineering, testing, or analyzing the unclassified Sentinel end item.

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