

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

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**DEPARTMENT OF DEFENSE**

**Office of the Secretary**

[Transmittal No. 18-39]

**Arms Sales Notification**

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

**ACTION:** Arms sales notice.

**SUMMARY:** The Department of Defense is publishing the unclassified text of an arms sales notification.

**FOR FURTHER INFORMATION CONTACT:** Karma Job at *karma.d.job.civ@mail.mil* or (703) 697-8976.

**SUPPLEMENTARY INFORMATION:** This 36(b)(1) arms sales notification is published to fulfill the requirements of section 155 of Public Law 104-164 dated July 21, 1996. The following is a copy of a letter to the Speaker of the

House of Representatives, Transmittal 18-39 with attached Policy Justification and Sensitivity of Technology.

Dated: December 23, 2019.

**Aaron T. Siegel,**

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

**BILLING CODE 5001-06-P**



## DEFENSE SECURITY COOPERATION AGENCY

201 12<sup>TH</sup> STREET SOUTH, STE 203  
ARLINGTON, VA 22202-5408

NOV 16 2018

The Honorable Paul D. Ryan  
Speaker of the House  
U.S. House of Representatives  
H-209, The Capitol  
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. 18-39, concerning the Air Force's proposed Letter(s) of Offer and Acceptance to the NATO Support and Procurement Agency for defense articles and services estimated to cost \$320.5 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

## Enclosures:

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

## BILLING CODE 5001-06-C

Transmittal No. 18-39

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:* NATO Support and Procurement Agency (NSPA) as Lead Nation for Belgium, Czech Republic, Denmark, Finland, Greece, Hungary, Italy Netherlands,

Norway, Poland, Portugal, Spain and the United Kingdom

(ii) *Total Estimated Value:*

Major Defense Equipment *	\$240.5 million
Other .....	\$ 80.0 million
<b>TOTAL .....</b>	<b>\$320.5 million</b>

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

*Major Defense Equipment (MDE):*

Five hundred (500) KMU-556 F/B Joint Direct Attack Munition (JDAM) Kits for GBU-31 2000-lbs  
Forty (40) KMU-557 F/B JDAM Kits for GBU-31 2000-lbs  
One thousand five hundred (1,500) KMU-572 F/B JDAM Kits for GBU-38 500-lbs  
One thousand (1,000) Munitions Adapter Unit (MAU)-210 F/B

Enhanced Computer Control Groups (ECCGs) for GBU-48 1,000-lb EP II  
Three hundred (300) MAU-210 F/B  
ECCGs for GBU-49 500-lbs EP II  
Three hundred (300) MXU-650K/B  
AFGs for GBU-49 500-lbs EP II  
One thousand and twenty-five (1,025)  
MAU-209 C/B or MAU-169 L/B CCGs  
for GBU-12 500 lbs Paveway II  
One thousand and twenty-five (1,025)  
MXU-650 K/B AFGs for GBU-12 500  
lbs Paveway II  
Four thousand three hundred sixty-five  
(4,365) Joint Programmable Fuze,  
FMU-152 A/B for all GBU types

*Non-MDE:* Also includes Detector  
Sensing Unit (DSU)-38A/B Laser kits,  
DSU-33D/B proximity sensors, Wireless  
Paveway Avionics Kit (WIPAK)  
interfaces for Enhanced Paveway II  
bombs, repair and return services,  
transportation, engineering services, and  
other support services.

(iv) *Military Department:* Air Force  
(v) *Prior Related Cases, if any:* N4-D-  
YAA

(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:* November 16, 2018

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

#### POLICY JUSTIFICATION

##### NATO Support and Procurement Agency—Precision Guided Munitions

NATO Support and Procurement  
Agency as Lead Nation has requested a  
possible sale of precision guided  
munitions kits. The components that  
comprise the kits are: five hundred (500)  
KMU-556 F/B Joint Direct Attack  
Munition (JDAM) Kits for GBU-31 2000-  
lbs; forty (40) KMU-557 F/B JDAM Kits  
for GBU-31 2000-lbs; one thousand five  
hundred (1,500) KMU-572 F/B JDAM  
Kits for GBU-38 500-lbs; one thousand  
(1,000) Munitions Adapter Unit (MAU)-  
210 F/B Enhanced Computer Control  
Groups (ECCGs) for GBU-48 1,000-lb  
EP II; three hundred (300) MAU-210 F/  
B ECCGs for GBU-49 500-lbs EP II; three  
hundred (300) MXU-650K/B AFGs for  
GBU-49 500-lbs EP II; one thousand  
twenty-five (1,025) MAU-209 C/B or  
MAU-169 L/B CCGs for GBU-12 500 lbs  
Paveway II; one thousand twenty-five  
(1,025) MXU-650 K/B AFGs for GBU-12  
500 lbs Paveway II; four thousand three  
hundred sixty-five (4,365) Joint  
Programmable Fuze, FMU-152 A/B for  
all GBU types. Also includes Detector  
Sensing Unit (DSU)-38A/B Laser kits,  
DSU-33D/B proximity sensors, Wireless

Paveway Avionics Kit (WIPAK)  
interfaces for Enhanced Paveway II  
bombs, repair and return services,  
transportation, engineering services, and  
other support services. The estimated  
value is \$320.5 million.

This proposed sale supports the  
foreign policy and national security of  
the United States by increasing the  
flexibility of Belgium, Czech Republic,  
Denmark, Finland, Greece, Hungary,  
Italy, Netherlands, Norway, Poland,  
Portugal, Spain and the United  
Kingdom—twelve NATO nations and  
one Partnership for Peace nation—to  
contribute to overseas contingency  
operations. This sale increases the  
quantity of precision-guided munitions  
within NATO and allows for their pre-  
coordinated transfer in support of  
national and NATO requirements.

The proposed sale improves NATO's  
capability to meet current and future  
ground threats with precision. NATO  
will use the enhanced capability as a  
deterrent to regional threats, and to  
increase interoperability within  
contingency operations. Many of the  
purchasing nations already have  
precision-guided munitions in their  
inventories; and they will all have no  
difficulty absorbing these kits.

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

The prime contractors for production  
are the Boeing Corporation of St Louis,  
Missouri, and Raytheon Missile Systems  
of Tucson, Arizona. The principle  
contractor for integration is unknown  
and will be determined during contract  
negotiations. 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 or  
contractor representatives to NATO.

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

Transmittal No. 18-39

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 Direct Attack Munitions  
(JDAM) is a Joint Service weapon that  
uses an onboard GPS-aided Inertial  
Navigation System (INS) Guidance Set  
with a MK 82, MK 83, MK 84, BLU-109,  
BLU-110, BLU-111, BLU-117, BLU-126  
(Navy) or BLU-129 warhead. The  
Guidance Set, when combined with a  
warhead and appropriate fuze, forms a

JDAM Guided Bomb Unit (GBU). The  
JDAM Guidance Set gives these bombs  
adverse weather capability with  
improved accuracy. The JDAM weapon  
can be delivered from modest standoff  
ranges at high or low altitudes against  
a variety of land and surface targets  
during the day or night. After release,  
JDAM autonomously guides to a target,  
using the resident GPS-aided INS  
guidance system. JDAM is capable of  
receiving target coordinates via  
preplanned mission data from the  
delivery aircraft, by onboard aircraft  
sensors (i.e. FLIR, Radar, etc) during  
captive carry, or from a third party  
source via manual or automated aircrew  
cockpit entry. The KMU-556 F/B, KMU-  
557 F/B are the tail kits for the GBU-31,  
the KMU-572 is the tail kit for the GBU-  
38. The JDAM as an All Up Round is  
UNCLASSIFIED; technical data for  
JDAM is classified up to SECRET.

2. Detector Sensor Unit (DSU)-38A/B  
is a laser-illuminated target detector that  
adds a Precision Laser Guidance Set  
(PLGS) to inventory JDAMs, giving the  
weapon system optional semi-active  
laser guidance in addition to its other  
GPS/INS guidance modes. The DSU-  
38A/B is a DSU-33 (proximity fuze)  
form-factored passive laser seeker that  
can be easily installed in the field to the  
front of existing JDAM weapons and is  
connected to the Guidance Set via an  
externally mounted strap-on harness kit.  
The DSU-38 provides an additional  
capability to engage mobile targets  
moving up to 70 mph. 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. The  
DSU-38 hardware is UNCLASSIFIED;  
technical data and other documentation  
are classified up to SECRET.

3. Enhanced Paveway II (EP II), a Laser  
Guided Bomb (LGB), is a maneuverable,  
free fall weapon that guides to a spot of  
laser energy reflected off of the target.  
The "enhanced" component is the  
addition of GPS guidance to the laser  
seeker. This dual-mode allows the  
weapon to operate in all-weather  
conditions. The LGB is delivered like a  
normal general purpose (GP) warhead  
and the semi-active guidance corrects  
for many of the normal errors inherent  
in any delivery system. Laser  
designation for the LGB can be provided  
by a variety of laser target markers or  
designators. An LGB 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. The EP II can use  
either the FMU-152 or FMU-139 fuze.

The overall weapon is classified  
CONFIDENTIAL.

GBU-48 is a 1,000lb (MK-84 or BLU-117 B/B) GP bomb body fitted with the MXU- 667 AFG, and MAU-210 F/B ECCG to guide to its laser-designated target.

GBU-49 is a 500lbs (MK-82 or BLU-111 B/B) GP bomb body fitted with the MXU- 650 AFG, and MAU-210 F/B ECCGs to guide to its laser-designated target.

4. Paveway II (PWII), a Laser Guided Bomb (LGB), is a maneuverable, free-fall weapon that guides to a spot of laser energy reflected off of the target. The LGB is delivered like a normal general purpose (GP) warhead and the semi-active guidance corrects for many of the normal errors inherent in any delivery system. Laser designation for the LGB can be provided by a variety of laser target markers or designators. A LGB consists of a MAU-209C/B or MAU-169 L/B Computer Control Group (CCG) that is not warhead-specific, and a warhead-specific Air Foil Group (AFG) that attaches to the nose and tail of a General Purpose bomb body. The PWII can use either the FMU-152 or FMU-139 fuze. The overall weapon is classified  
CONFIDENTIAL.

GBU-12 is a 500lbs (MK-82 or BLU-111 B/B) GP bomb body fitted with the MXU- 650 AFG, and MAU-209 C/B or MAU-169 L/B CCGs to guide to its laser designated target.

5. Joint Programmable Fuze (JPF) FMU-152 is a Multi-Delay, Multi-Arm and Proximity Sensor Compatible with General Purpose Blast, Frag and Hardened-Target Penetrator Warheads. It is cockpit selectable in-flight (prior to release) when used with JDAM weapons. It can interface with the following weapons: GBU-10, GBU-12, GBU-15, GBU-16, GBU-24, GBU-27, GBU-28, GBU-31, GBU-32, GBU-38, and AGM-130. The JPF hardware is UNCLASSIFIED.

6. If a technologically advanced adversary obtained 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.

7. A determination has been made that NSPA and the participating countries 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.

8. All defense articles and services listed in this transmittal have been authorized for release and export to NATO Support and Procurement Agency, Belgium, Czech Republic, Denmark, Finland, Greece, Hungary, Italy, Netherlands, Norway, Poland,

Portugal, Spain, and the United Kingdom.

[FR Doc. 2019-28214 Filed 12-30-19; 8:45 am]

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## DEPARTMENT OF DEFENSE

### Office of the Secretary

[Transmittal No. 18-44]

### Arms Sales Notification

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

**ACTION:** Arms sales notice.

**SUMMARY:** The Department of Defense is publishing the unclassified text of an arms sales notification.

**FOR FURTHER INFORMATION CONTACT:**

Karma Job at [karma.d.job.civ@mail.mil](mailto:karma.d.job.civ@mail.mil) or (703) 697-8976.

**SUPPLEMENTARY INFORMATION:** This 36(b)(1) arms sales notification is published to fulfill the requirements of section 155 of Public Law 104-164 dated July 21, 1996. The following is a copy of a letter to the Speaker of the House of Representatives, Transmittal 18-44 with attached Policy Justification and Sensitivity of Technology.

Dated: December 23, 2019.

**Aaron T. Siegel,**

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

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