

## COUNTRY GROUP D—Continued

Country	[D: 1] National Security	[D: 2] Nu- clear	[D: 3] Chem- ical & Biologi- cal	[D: 4] Missile Tech- nology	[D: 5] U.S. Arms Embar- goed Coun- tries <sup>1</sup>
Saudi Ara- bia .....	.....	.....	X	X	
Somalia .....	.....	.....	.....	.....	X
South Sudan, Republic of .....	.....	.....	.....	.....	X
Sudan .....	.....	.....	.....	.....	X
Syria .....	.....	.....	X	X	X
Taiwan .....	.....	.....	X	.....	
Tajikistan .....	X	.....	X	.....	
Turkmenist- an .....	X	.....	X	.....	
United Arab Emirates .....	.....	.....	X	X	
Uzbekistan .....	X	.....	X	.....	
Venezuela .....	X	X	X	X	X
Vietnam .....	X	.....	X	.....	
Yemen .....	X	.....	X	X	
Zimbabwe .....	.....	.....	.....	.....	X

<sup>1</sup>**Note to Country Group D-5:**Countries subject to U.S. arms embargoes are identified by the State Department through notices published in the **Federal Register**. The list of arms embargoed destinations in this table is drawn from 22 CFR 126.1 and State Department **Federal Register** notices related to arms embargoes and will be amended when the State Department publishes subsequent notices. If there are any discrepancies between the list of countries in this table and the countries identified by the State Department as subject to a U.S. arms embargo (in the **Federal Register**), the State Department's list of countries subject to U.S. arms embargoes shall be controlling.

COUNTRY GROUP E <sup>1</sup>

Country	[E:1] Terrorist supporting countries <sup>2</sup>	[E:2] Unilateral embargo
Cuba .....	.....	X
Iran .....	X	
Korea, North .....	X	
Syria .....	X	

<sup>1</sup>In addition to the controls maintained by the Bureau of Industry and Security pursuant to the EAR, note that the Department of the Treasury administers:

(a) A *comprehensive embargo* against Cuba and Iran; and  
 (b) An *embargo against certain persons*, e.g., Specially Designated Terrorists (SDT), Foreign Terrorist Organizations (FTO), Specially Designated Global Terrorists (SDGT), and Specially Designated Narcotics Traffickers (SDNT). Please see part 744 of the EAR for controls maintained by the Bureau of Industry and Security on these and other persons.

<sup>2</sup>The President made inapplicable with respect to Iraq provisions of law that apply to countries that have supported terrorism.

[61 FR 12768, Mar. 25, 1996]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting supplement no. 1 to part 740, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at [www.govinfo.gov](http://www.govinfo.gov).

## SUPPLEMENT NO. 2 TO PART 740—ITEMS THAT MAY BE DONATED TO MEET BASIC HUMAN NEEDS UNDER THE HUMANITARIAN LICENSE EXCEPTION

(a) *Health*

Equipment for the Handicapped  
 Hospital Supplies and Equipment  
 Laboratory Supplies and Equipment  
 Medical Supplies and Devices  
 Medicine-Processing Equipment  
 Medicines  
 Vitamins  
 Water Resources Equipment  
 Food  
 Agricultural Materials and Machinery Suited to Small-Scale Farming Operations  
 Agricultural Research and Testing Equipment  
 Fertilizers  
 Fishing Equipment and Supplies Suited to Small-Scale Fishing Operations

(b) *Food*

Insecticides  
 Pesticides  
 Seeds  
 Small-Scale Irrigation Equipment  
 Veterinary Medicines and Supplies

(c) *Clothes and Household Goods*

Bedding  
 Clothes  
 Cooking Utensils  
 Fabric  
 Personal Hygiene Items  
 Soap-Making Equipment  
 Weaving and Sewing Equipment

(d) *Shelter*

Building Materials  
 Hand Tools

(e) *Education*

Books  
 Individual School Supplies  
 School Furniture  
 Special Education Supplies and Equipment for the Handicapped

(f) *Basic Support Equipment and Supplies Necessary To Operate and Administer the Donative Program*

Audio-Visual Aids for Training  
 Generators  
 Office Supplies and Equipment

## SUPPLEMENT NO. 3 TO PART 740—LICENSE EXCEPTION ENC FAVORABLE TREATMENT COUNTRIES

Austria	Czech Republic
Australia	Estonia
Belgium	Denmark
Bulgaria	Finland
Canada	France
Croatia	Germany
Cyprus	Greece

**Bur. of Industry and Security, Comm.**

**Pt. 740, Supp. No. 4**

Hungary	Norway
Iceland	Poland
Ireland	Portugal
Italy	Romania
Japan	Slovakia
Latvia	Slovenia
Lithuania	Spain
Luxembourg	Sweden
Malta	Switzerland
Netherlands	Turkey
New Zealand	United Kingdom

[69 FR 71363, Dec. 9, 2004, as amended at 73 FR 57507, Oct. 3, 2008; 81 FR 64673, Sept. 20, 2016]

**SUPPLEMENT NO. 4 TO PART 740—ANNEX  
A FIREARM MODELS**

(a) *Pistols/revolvers.*

- (1) German Model P08 Pistol = SMCR.
- (2) IZH 34M, .22 Target pistol.
- (3) IZH 35M, .22 caliber Target pistol.
- (4) Mauser Model 1896 pistol = SMCR.
- (5) MC-57-1 pistol.
- (6) MC-1-5 pistol.
- (7) Polish Vis Model 35 pistol = SMCR.
- (8) Soviet Nagant revolver = SMCR.
- (9) TOZ 35, .22 caliber Target pistol.
- (10) MTs 440.
- (11) MTs 57-1.
- (12) MTs 59-1.
- (13) MTs 1-5.
- (14) TOZ-35M (starter pistol).
- (15) Biathlon-7K.

(b) *Rifles.*

- (1) BARS-4 Bolt Action carbine.
- (2) Biathlon target rifle, .22.
- (3) British Enfield rifle = SMCR.
- (4) CM2, .22 target rifle (also known as SM2, .22).
- (5) German model 98K = SMCR.
- (6) German model G41 = SMCR.
- (7) German model G43 = SMCR.
- (8) IZH-94.
- (9) LOS-7, bolt action.
- (10) MC-7-07.
- (11) MC-18-3.
- (12) MC-19-07.
- (13) MC-105-01.
- (14) MC-112-02.
- (15) MC-113-02.
- (16) MC-115-1.
- (17) MC-125/127.
- (18) MC-126.
- (19) MC-128.
- (20) Saiga.
- (21) Soviet Model 38 carbine = SMCR.
- (22) Soviet Model 44 carbine = SMCR.
- (23) Soviet Model 91/30 rifle = SMCR.
- (24) TOZ 18, .22 bolt action.
- (25) TOZ 55.
- (26) TOZ 78.
- (27) Ural Target, .22lr.
- (28) VEPR rifle.
- (29) Winchester Model 1895, Russian Model rifle = SMCR.

- (30) Sever—double barrel.
- (31) IZH18MH single barrel break action.
- (32) MP-251 over/under rifle.
- (33) MP-221 double barrel rifle.
- (34) MP-141K.
- (35) MP-161K.
- (36) MTs 116-1.
- (37) MTs 116M.
- (38) MTs 112-02.
- (39) MTs 115-1.
- (40) MTs 113-02.
- (41) MTs 105-01.
- (42) MTs 105-05.
- (43) MTs 7-17 combination gun.
- (44) MTs 7-12-07 rifle/shotgun.
- (45) MTs 7-07.
- (46) MTs 109-12-07 rifle.
- (47) MTs 109-07 rifle.
- (48) MTs 106-07 combination.
- (49) MTs 19-97.
- (50) MTs 19-09.
- (51) MTs 18-3M.
- (52) MTs 125.
- (53) MTs 126.
- (54) MTs 127.
- (55) Berkut-2.
- (56) Berkut-2M1.
- (57) Berkut-3.
- (58) Berkut-2-1.
- (59) Berkut-2M2.
- (60) Berkut-3-1.
- (61) Ots-25.
- (62) MTs 20-07.
- (63) LOS-7-1.
- (64) LOS-7-2.
- (65) LOS-9-1.
- (66) Sobol (Sable).
- (67) Rekord.
- (68) Bars-4-1.
- (69) Saiga.
- (70) Saiga-M.
- (71) Saiga 308.
- (72) Saiga-308-1.
- (73) Saiga 308-2.
- (74) Saiga-9.
- (75) Korshun.
- (76) Ural-5-1.
- (77) Ural 6-1.
- (78) Ural-6-2.
- (79) SM-2.
- (80) Biatlon-7-3.
- (81) Biatlon-7-4.
- (82) Rekord-1.
- (83) Rekord-2.
- (84) Rekord-CISM.
- (85) Rekord-1-308.
- (86) Rekord-2-308.
- (87) Rekord-1-308-CISM.
- (88) VEPR.
- (89) VEPR Super.
- (90) VEPR Pioneer.
- (91) VEPR Safari.
- (92) TOZ 109.
- (93) KO 44-1.
- (94) TOZ 78-01.
- (95) KO 44.
- (96) TOZ 99.

**Pt. 742**

- (97) TOZ 99-01.
- (98) TOZ 55-01 Zubr.
- (99) TOZ 55-2 Zubr.
- (100) TOZ 120 Zubr.
- (101) MTs 111.
- (102) MTs 109.
- (103) TOZ 122.
- (104) TOZ 125.
- (105) TOZ 28.
- (106) TOZ 300.

[85 FR 4175, Jan. 23, 2020]

**PART 742—CONTROL POLICY—CCL  
BASED CONTROLS**

**Sec.**

- 742.1 Introduction.
- 742.2 Proliferation of chemical and biological weapons.
- 742.3 Nuclear nonproliferation.
- 742.4 National security.
- 742.5 Missile technology.
- 742.6 Regional stability.
- 742.7 Crime control and detection.
- 742.8 Anti-terrorism: Iran.
- 742.9 Anti-terrorism: Syria.
- 742.10 [Reserved]
- 742.11 Specially designed implements of torture, including thumb screws, thumbcuffs, handcuffs, spiked batons, and parts and accessories, n.e.s.
- 742.12 [Reserved]
- 742.13 Communications intercepting devices; software and technology for communications intercepting devices.
- 742.14 Significant items: hot section technology for the development, production or overhaul of commercial aircraft engines, components, and systems.
- 742.15 Encryption items.
- 742.16 [Reserved]
- 742.17 Exports of firearms to OAS member countries.
- 742.18 Chemical Weapons Convention (CWC or Convention).
- 742.19 Anti-terrorism: North Korea.

SUPPLEMENT NO. 1 TO PART 742—NON-PROLIFERATION OF CHEMICAL AND BIOLOGICAL WEAPONS

SUPPLEMENT NO. 2 TO PART 742—ANTI-TERRORISM CONTROLS: IRAN, NORTH KOREA, SYRIA CONTRACT SANCTITY DATES AND RELATED POLICIES

SUPPLEMENT NO. 3 TO PART 742—HIGH-RISK DESTINATIONS FOR FIREARMS AND RELATED ITEMS

SUPPLEMENT NO. 4 TO PART 742—COUNTRIES EXCLUDED FROM CERTAIN SEMICONDUCTOR MANUFACTURING EQUIPMENT LICENSE REQUIREMENTS

SUPPLEMENT NO. 5 TO PART 742 [RESERVED]

SUPPLEMENT NO. 6 TO PART 742—TECHNICAL QUESTIONNAIRE FOR ENCRYPTION AND OTHER “INFORMATION SECURITY” ITEMS

**15 CFR Ch. VII (1–1–25 Edition)**

SUPPLEMENT NO. 7 TO PART 742—DESCRIPTION OF MAJOR WEAPONS SYSTEMS

SUPPLEMENT NO. 8 TO PART 742—SELF-CLASSIFICATION REPORT FOR ENCRYPTION ITEMS

AUTHORITY: 50 U.S.C. 4801–4852; 50 U.S.C. 4601 *et seq.*; 50 U.S.C. 1701 *et seq.*; 22 U.S.C. 3201 *et seq.*; 42 U.S.C. 2139a; 22 U.S.C. 7201 *et seq.*; 22 U.S.C. 7210; Sec. 1503, Pub. L. 108–11, 117 Stat. 559; E.O. 12058, 43 FR 20947, 3 CFR, 1978 Comp., p. 179; E.O. 12851, 58 FR 33181, 3 CFR, 1993 Comp., p. 608; E.O. 12938, 59 FR 59099, 3 CFR, 1994 Comp., p. 950; E.O. 13026, 61 FR 58767, 3 CFR, 1996 Comp., p. 228; E.O. 13222, 66 FR 44025, 3 CFR, 2001 Comp., p. 783; Presidential Determination 2003–23, 68 FR 26459, 3 CFR, 2004 Comp., p. 320; Notice of November 7, 2024, 89 FR 88867 (November 8, 2024).

SOURCE: 61 FR 12786, Mar. 25, 1996, unless otherwise noted.

**§ 742.1 Introduction.**

In this part, references to the Export Administration Regulations (EAR) are references to 15 CFR chapter VII, subchapter C.

(a) *Scope.* This part describes all the reasons for control reflected in the Country Chart in supplement no. 1 to part 738 of the EAR. In addition, it includes licensing requirements and licensing policies for the following items that are not reflected on the Country Chart: specially designed implements of torture, high performance computers, and communications intercepting devices. In addition to describing the reasons for control and licensing requirements and policies, this part describes any applicable contract sanctity provisions that may apply to specific controls and includes a description of any multilateral regime under which specific controls are maintained.

(b) *Reasons for control listed on the CCL not covered by this part.* This part describes the license requirements and the licensing policies for all the “Reasons for Control” that are listed on the Commerce Control List (CCL) except “Short Supply” and “U.N. Sanctions,” which do not appear on the Country Chart.

(1) *Short supply.* ECCNs containing items subject to short supply controls (“SS”) refer the exporter to part 754 of the EAR. These ECCNs are: 0A980 (Horses for export by sea); 1C980 (certain inorganic chemicals); 1C982 (certain other petroleum products); 1C983 (certain natural gas liquids and other

natural gas derivatives); 1C984 (certain manufactured gas and synthetic natural gas (except when commingled with natural gas and thus subject to export authorization from the Department of Energy); and 1C988 (Unprocessed western red cedar (*Thuja plicata*) logs and timber, and rough, dressed and worked lumber containing wane).

(2) *U.N. Sanctions.* The United Nations imposes sanctions, short of complete embargoes, against certain countries which may result in controls that supplement those otherwise maintained under the EAR for that particular country. This part does not address license requirements and licensing policies for controls implementing U.N. sanctions. CCL entries containing items subject to U.N. sanctions will refer the exporter to part 746 of the EAR, Embargoes and Other Special Controls, for any supplemental controls that may apply to exports and re-exports involving these countries.

(c) *Exports and reexports involving Cuba and Iran.* This part does not cover license requirements and licensing policies that apply to exports and re-exports to embargoed destinations (Cuba and Iran). These comprehensive embargoes cover a broader range of items than those reflected in the CCL. If you are exporting or reexporting to any of these destinations, you should first review part 746 of the EAR, Embargoes and Other Special Controls.

(d) *Anti-terrorism Controls on Iran, North Korea, and Syria.* Commerce maintains anti-terrorism controls on Iran, North Korea, and Syria under section 6(a) of the Export Administration Act. Items controlled under section 6(a) to Iran, Syria, and North Korea are described in §§ 742.8, 742.9, 742.10, and 742.19, respectively, and in Supplement No. 2 to part 742. Commerce also maintains controls under section 6(j) of the EAA to Iran, North Korea, and Syria. Items controlled to these countries under EAA section 6(j) are also described in Supplement 2 to part 742. The Secretaries of Commerce and State are required to notify appropriate Committees of the Congress 30 days before issuing a license for an item controlled under section 6(j) to North Korea, Iran, or Syria. If you are exporting or reexporting to Iran, North

Korea, or Syria, you should review part 746 of the EAR, Embargoes and Other Special Controls.

(e) *End-user and end-use based controls.* This part does not cover prohibitions and licensing requirements for exports of items not included on the CCL that are subject to end-use and end-user controls: certain nuclear end-uses; certain missile end-uses; certain chemical and biological weapons end-uses; certain naval nuclear propulsion end-uses; certain activities of U.S. persons; and certain exports to and for the use of certain foreign vessels and aircraft. Licensing requirements and policies for these exports are contained in part 744 of the EAR.

(f) *Overlapping license policies.* Many items on the CCL are subject to more than one type of control (e.g., national security (NS), missile technology (MT), nuclear nonproliferation (NP), regional stability (RS)). In addition, applications for all items on the CCL, other than those controlled for short supply reasons, may be reviewed for missile technology (see § 742.5(b)(3) of this part), nuclear nonproliferation (see § 742.3(b)(2) of this part), or chemical and biological weapons (see § 742.2(b)(3) of this part), if the end-use or end-user may be involved in certain proliferation activities. Finally, many multilaterally controlled items are reviewed for anti-terrorism reasons if they are destined for a terrorism-supporting country (see paragraph (d) of this section). Your application for a license will be reviewed under all applicable licensing policies. A license will be issued only if an application can be approved under all applicable licensing policies.

[61 FR 12786, Mar. 25, 1996, as amended at 62 FR 25458, May 9, 1997; 65 FR 38151, June 19, 2000; 69 FR 23629, Apr. 29, 2004; 69 FR 46075, July 30, 2004; 71 FR 51717, Aug. 31, 2006; 72 FR 3725, Jan. 26, 2007; 76 FR 77117, Dec. 12, 2011; 79 FR 34410, June 17, 2014; 80 FR 43318, July 22, 2015; 81 FR 29486, May 12, 2016; 86 FR 4933, Jan. 19, 2021]

#### § 742.2 Proliferation of chemical and biological weapons.

(a) *License requirements.* The following controls are maintained in support of the U.S. foreign policy of opposing the proliferation and illegal use of chemical and biological weapons. (See also

## § 742.2

## 15 CFR Ch. VII (1–1–25 Edition)

§ 742.18 of this part for license requirements pursuant to the Chemical Weapons Convention).

(1) If CB Column 1 of the Country Chart (supplement no. 1 to part 738 of the EAR) is indicated in the appropriate ECCN, a license is required to all destinations, including Australia, Canada, and the United Kingdom, for the following:

(i) Toxins identified in ECCNs 1C351.d.15 and .16;

(ii) Genetic elements (ECCN 1C353) of the toxins described in paragraph (a)(1)(i) of this section; and

(iii) Technology (ECCNs 1E001 and 1E351) for the production and/or disposal of toxins described in paragraph (a)(1)(i) of this section.

(2) If CB Column 2 of the Country Chart (supplement no. 1 to part 738 of the EAR) is indicated in the appropriate ECCN, a license is required to all destinations except countries in Country Group A:3 (see supplement no. 1 to part 740 of the EAR) (Australia Group members) for the following:

(i) Chemicals identified in ECCN 1C350 (precursor and intermediate chemicals used in the production of chemical warfare agents).

(A) This license requirement includes chemical mixtures identified in ECCN 1C350.b, .c, or .d, except as specified in License Requirements Note 2 to that ECCN.

(B) This licensing requirement does not include chemical compounds created with any chemicals identified in ECCN 1C350, unless those compounds are also identified in ECCN 1C350.

(C) This licensing requirement does not apply to any of the following medical, analytical, diagnostic, and food testing kits that consist of pre-packaged materials of defined composition that are specifically developed, packaged, and marketed for diagnostic, analytical, or public health purposes:

(I) Test kits containing no more than 300 grams of any chemical controlled by ECCN 1C350.b or .c (CB-controlled chemicals also identified as Schedule 2 or 3 chemicals under the CWC) that are destined for export or reexport to CWC States Parties (destinations listed in supplement no. 2 to part 745 of the EAR). Such test kits are controlled by ECCN 1C395 for CB and CW reasons, to

States not Party to the CWC (destinations not listed in supplement no. 2 to part 745 of the EAR), and for AT reasons.

(2) Test kits that contain no more than 300 grams of any chemical controlled by ECCN 1C350.d (CB-controlled chemicals not also identified as Schedule 1, 2, or 3 chemicals under the CWC). Such test kits are controlled by ECCN 1C995 for AT reasons.

(ii) Human pathogens, zoonoses, toxins, animal pathogens, genetically modified microorganisms and plant pathogens identified in ECCNs 1C351 (except .d.15 and .16), 1C353 (except genetic elements of toxins in ECCN 1C351.d.15 and .16), and 1C354; and

(iii) Software (ECCN 1D390) for process control that is specifically configured to control or initiate production of the chemical precursors controlled by ECCN 1C350.

(iv) Technology (ECCN 1E001) for the development or production of chemical detection systems and dedicated detectors therefore, controlled by ECCN 1A004.c, that also have the technical characteristics described in ECCN 2B351.a.

(v) Technology (ECCNs 1E001 and 1E350) involving the following for facilities designed or intended to produce chemicals described in 1C350:

(A) Overall plant design;

(B) Design, specification, or procurement of equipment;

(C) Supervision of construction, installation, or operation of complete plant or components thereof;

(D) Training of personnel; or

(E) Consultation on specific problems involving such facilities.

(vi) Technology (ECCNs 1E001 and 1E351) for:

(A) Production and/or disposal of chemical precursors described in ECCN 1C350; and

(B) Production and/or disposal of microbiological commodities described in paragraph (a)(2)(ii) of this section (except toxins and genetic elements of those toxins in ECCN 1C351.d.15 and .16).

(vii) Equipment and materials identified in ECCN 2B350 or 2B351 on the CCL, chemical detection systems controlled

by 1A004.c for detecting chemical warfare agents and having the characteristics of toxic gas monitoring systems described in 2B351.a, and valves controlled by ECCN 2A226 having the characteristics of those described in 2B350.g, which can be used in the production of chemical weapons precursors or chemical warfare agents.

(viii) Equipment and materials identified in ECCN 2B352, which can be used in the production of biological agents.

(ix) Software identified in ECCN 2D351 or 2D352, as follows:

(A) Dedicated software identified in ECCN 2D351 for the “use” of toxic gas monitoring systems and their dedicated detecting components controlled by ECCN 2B351;

(B) Software designed for nucleic acid assemblers and synthesizers controlled by 2B352.j that is capable of designing and building functional genetic elements from digital sequence data.

(x) Technology identified in ECCN 2E001 for the “development” of software controlled by ECCN 2D351 or 2D352.

(xi) Technology identified in ECCN 2E001, 2E002, or 2E301 for:

(A) The development, production, or use of items controlled by ECCN 2B350, 2B351, or 2B352; or

(B) The development or production of valves controlled by ECCN 2A226 having the characteristics of those described in ECCN 2B350.g.

(xii) Technology identified in ECCN 2E201 or 2E290 for the use of valves controlled by ECCN 2A226 having the characteristics of those described in 2B350.g.

(3) If CB Column 3 of the Country Chart (supplement no. 1 to part 738 of the EAR) is indicated in the appropriate ECCN, a license is required to Country Group D:3 (see supplement no. 1 to part 740 of the EAR) for medical products identified in ECCN 1C991.c.

(4) A license is required, to States not Party to the CWC (destinations not listed in supplement no. 2 to part 745 of the EAR), for mixtures controlled by 1C395.a and test kits controlled by 1C395.b.

(b) *Licensing policy.* (1) License applications for the items described in paragraph (a) of this section will be considered on a case-by-case basis to deter-

mine whether the export or reexport would make a material contribution to the design, development, production, stockpiling or use of chemical or biological weapons. When an export or reexport is deemed to make such a material contribution, the license will be denied. When an export or reexport is intended to be used in a chemical weapons or biological weapons program, or for chemical or biological weapons terrorism purposes, it is deemed to make a material contribution. The factors listed in paragraph (b)(2) of this section are among those that will be considered to determine what action should be taken on license applications for these items.

(2) The following factors are among those that will be considered to determine what action should be taken on license applications for the items described in paragraph (a) of this section:

(i) The specific nature of the end-use, including the appropriateness of the stated end-use;

(ii) The significance of the export and reexport in terms of its potential contribution to the design, development, production, stockpiling, or use of chemical or biological weapons;

(iii) The nonproliferation credentials of the importing country, including the importing country's chemical and biological capabilities and objectives;

(iv) The extent and effectiveness of the export control system in the importing country and in any intermediary country through which the items being exported or reexported will transit or be transshipped en route to the importing country;

(v) The risk that the items will be diverted for use in a chemical weapons or biological weapons program, or for chemical weapons or biological weapons terrorism purposes;

(vi) The reliability of the parties to the transaction, including whether:

(A) An export or reexport license application involving any such parties has previously been denied;

(B) Any such parties have been engaged in clandestine or illegal procurement activities;

(C) The end-user is capable of securely handling and storing the items to be exported or reexported;

### § 742.3

### 15 CFR Ch. VII (1–1–25 Edition)

(vii) Relevant information about proliferation and terrorism activities, including activities involving the design, development, production, stockpiling, or use of chemical or biological weapons by any parties to the transaction;

(viii) The types of assurances or guarantees against the design, development, production, stockpiling, or use of chemical or biological weapons that are given in a particular case, including any relevant assurances provided by the importing country or the end-user;

(ix) The applicability of other multilateral export control or nonproliferation agreements (e.g., the Chemical Weapons Convention and the Biological and Toxin Weapons Convention) to the transaction; and

(x) The existence of a pre-existing contract.

(3) BIS will review license applications in accordance with the licensing policy described in paragraph (b)(1) of this section for items not described in paragraph (a) of this section that:

(i) Require a license for reasons other than short supply; and

(ii) Could be destined for the design, development, production, stockpiling, or use of chemical or biological weapons, or for a facility engaged in such activities.

(4) License applications for items described in paragraph (a) of this section, when destined for the People's Republic of China will be reviewed in accordance with the licensing policies in both paragraph (b) of this section and § 742.4(b)(7). When such items are destined to Russia or Belarus, license applications will be reviewed under a policy of denial. However, exports and re-exports of items to Russia or Belarus in support of U.S.-Russia or U.S.-Belarus civil space cooperation activities will be reviewed on a case-by-case basis, as well as certain other certain specified activities specified in § 746.8 of the EAR. See § 746.8(b).

(c) *Contract sanctity.* Contract sanctity dates are set forth in supplement no. 1 to part 742. Applicants who wish that a preexisting contract be considered in reviewing their license applications must submit documentation sufficient to establish the existence of such a contract.

(d) *Australia Group.* The Australia Group, a multilateral body that works to halt the spread of chemical and biological weapons, has developed common control lists of items specifically related to chemical and biological weapons. Australia Group members are listed in Country Group A:3 (see supplement no. 1 to part 740 of the EAR). Controls on items listed in paragraph (a) of this section are consistent with lists agreed to in the Australia Group.

(e) *License application requirements and instructions.* Unique application and submission requirements for chemicals, medicinals, and pharmaceuticals are described in paragraph (a) of supplement no. 2 to part 748 of the EAR.

[61 FR 12786, Mar. 25, 1996]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 742.2, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at [www.govinfo.gov](http://www.govinfo.gov).

### § 742.3 Nuclear nonproliferation.

(a) *License requirements.* Section 309(c) of the Nuclear Non-Proliferation Act of 1978 requires BIS to identify items subject to the EAR that could be of significance for nuclear explosive purposes if used for activities other than those authorized at the time of export or reexport. ECCNs on the CCL that include the symbol “NP 1” or “NP 2” in the “Country Chart” column of the “License Requirements” section identify items that could be of significance for nuclear explosive purposes and are therefore subject to licensing requirements under this part and under section 309(c) of the Nuclear Non-Proliferation Act of 1978. These items are referred to as “The Nuclear Referral List” and are subject to the following licensing requirements:

(1) If NP Column 1 of the Country Chart (supplement no. 1 to part 738 of the EAR) is indicated in the appropriate ECCN, a license is required to all destinations, except those Nuclear Suppliers Group (NSG) member countries that are listed under Country Group A:4 in supplement no. 1 to part 740 of the EAR.

(2) If NP Column 2 of the Country Chart (supplement no. 1 to part 738 of the EAR) is indicated in the applicable

ECCN, a license is required when the item is destined to a Country Group D:2 (see supplement no. 1 to part 740 of the EAR) country, China (the People's Republic of), or Macau.

(3) Other nuclear-related license requirements are described in §§ 744.2 and 744.5 of the EAR.

(b) *Licensing policy.* (1) To implement the controls in paragraph (a) of this section, the following factors are among those used to determine what action should be taken on individual applications:

(i) Whether the items to be transferred are appropriate for the stated end-use and whether that stated end-use is appropriate for the end-user;

(ii) The significance for nuclear purposes of the particular item;

(iii) Whether the items to be exported or reexported are to be used in research on, or for the development, design, manufacture, construction, operation, or maintenance of, any reprocessing or enrichment facility;

(iv) The types of assurances or guarantees given against use for nuclear explosive purposes or proliferation in the particular case;

(v) Whether any party to the transaction has been engaged in clandestine or illegal procurement activities;

(vi) Whether an application for a license to export or reexport to the end-user has previously been denied, or whether the end-user has previously diverted items received under a general license, a License Exception, or a validated license to unauthorized activities;

(vii) Whether the export or reexport would present an unacceptable risk of diversion to a nuclear explosive activity or unsafeguarded nuclear fuel-cycle activity described in § 744.2(a) of the EAR;

(viii) The nonproliferation credentials of the importing country, based on consideration of the following factors:

(A) Whether the importing country is a party to the Nuclear Non-Proliferation Treaty (NPT) or to the Treaty for the Prohibition of Nuclear Weapons in Latin America (Treaty of Tlatelolco) or to a similar international legally-binding nuclear nonproliferation agreement;

(B) Whether the importing country has all of its nuclear activities, facilities, or installations that are operational, being designed, or under construction under International Atomic Energy Agency (IAEA) safeguards or equivalent full scope safeguards;

(C) Whether there is an agreement for cooperation in the civil uses of atomic energy between the U.S. and the importing country;

(D) Whether the actions, statements, and policies of the government of the importing country are in support of nuclear nonproliferation and whether that government is in compliance with its international obligations in the field of non-proliferation;

(E) The degree to which the government of the importing country cooperates in non-proliferation policy generally (e.g., willingness to consult on international nonproliferation issues); and

(F) Information on the importing country's nuclear intentions and activities; and

(ix) Whether the recipient state has sufficient national export controls (as described in paragraph 3 of United Nations Security Council Resolution 1540 (2004)) to prevent an unacceptable risk of retransfer or diversion to a nuclear explosive activity or unsafeguarded nuclear fuel-cycle activity described in § 744.2(a) of the EAR.

(2) In addition, BIS will review license applications in accordance with the licensing policy described in paragraph (b) of this section for items *not* on the Nuclear Referral List that:

(i) Require a license on the CCL for reasons other than "short supply;" and

(ii) Are intended for a nuclear related end-use or end-user.

(3) For the People's Republic of China, the general licensing policy for applications for those items that would make a direct and significant contribution to nuclear weapons and their delivery systems is extended review or denial.

(4) License applications for items described in paragraph (a) of this section, when destined for the People's Republic of China will be reviewed in accordance with the licensing policies in both paragraph (b) of this section and



## § 742.4

## 15 CFR Ch. VII (1–1–25 Edition)

§ 742.4(b)(7). When such items are destined to Russia or Belarus, license applications will be reviewed under a policy of denial. However, exports and re-exports of items to Russia or Belarus in support of U.S.-Russia or U.S.-Belarus civil space cooperation activities or in support of Russian manufactured nuclear power plants in Russia or other destinations will be reviewed on a case-by-case basis. See § 746.8(b) of the EAR.

(c) *Contract sanctity*. Contract sanctity provisions are not available for license applications reviewed under this section.

(d) *Nuclear Suppliers Group*. Most items on the Nuclear Referral List that require a license under NP Column No. 1 on the Country Chart (see supplement no. 1 to part 738 of the EAR) are contained in the Annex to the “Guidelines for Transfers of Nuclear-Related Dual-Use Equipment, Material, and Related Technology” (the Annex), as published by the International Atomic Energy Agency in INFCIRC/254/Revision 1/Part 2. The adherents to INFCIRC/254/Revision 1/Part 2, which includes the Nuclear Suppliers Guidelines, have agreed to establish export licensing procedures for the transfer of items identified in the Annex. Items that are listed as requiring a license under NP Column No. 2 on the Country Chart (see supplement no. 1 to part 738 of the EAR) are not included in the Annex and are controlled only by the United States.

[61 FR 12786, Mar. 25, 1996, as amended at 70 FR 51252, Aug. 30, 2005; 72 FR 33656, June 19, 2007; 76 FR 4231, Jan. 25, 2011; 79 FR 46324, Aug. 7, 2014; 81 FR 94967, Dec. 27, 2016; 85 FR 10277, Feb. 24, 2020; 87 FR 12238, Mar. 3, 2022; 87 FR 13058, Mar. 8, 2022; 88 FR 54877, Aug. 14, 2023]

### § 742.4 National security.

(a) *License requirements*. It is the policy of the United States to restrict the export and reexport of items that would make a significant contribution to the military potential of any other destination or combination of destinations that would prove detrimental to the national security (NS) of the United States. Generally, items on the Commerce Control List in supplement no. 1 to part 774 of the EAR that have a reason for control of NS are those

that are also listed on the Wassenaar Arrangement’s “List of Dual-use Goods and Technologies,” as well as some items listed on the Wassenaar Arrangement’s “Munitions List.” “600 series” items and 9x515 items are also controlled for NS reasons.

(1) *National Security column 1 (NS:1)*. A license is required for exports and reexports to all destinations, except Australia, Canada, or the United Kingdom, for all items in ECCNs on the CCL that include NS Column 1 in the Country Chart column of the “License Requirements” section.

(2) *National Security column 2 (NS:2)*. A license is required to all destinations except those specified in Country Group A:1 (see supplement no. 1 to part 740 of the EAR), for all items in ECCNs on the CCL that include NS column 2 in the Commerce Country Chart column of the “License Requirements” section except those cameras in ECCN 6A003.b.4.b that have a focal plane array with 111,000 or fewer elements and a frame rate of 60 Hz or less.

(3) *6A003.b.4.b*. A license is required to all destinations except those specified in Country Group A:1 (see supplement no. 1 to part 740 of the EAR) for those cameras in ECCN 6A003.b.4.b that have a focal plane array with 111,000 or fewer elements and a frame rate of 60 Hz or less and for cameras being exported or reexported pursuant to an authorization described in § 742.6(a)(2)(iii) or (v). The purpose of this control is to ensure that these items do not contribute to the military potential of destinations specified in Country Group D:1 (see supplement no. 1 to part 740 of the EAR) that would prove detrimental to the national security of the United States.

(4) *Certain semiconductor manufacturing equipment and associated software and technology*—(i) *Scope*. A license is required for exports, reexports, exports from abroad, and transfers (in-country) to or within either Macau or a destination specified in Country Group D:5 in supplement no. 1 to part 740 of the EAR of items specified in 3B001.a.4, c, d, f.1, f.5, k to n, p.2, p.4, r, 3B002.c, 3D992, or 3E992.

(ii) *Exclusions*. The license requirements in this paragraph (a)(4) do not apply to any of the following:

(A) Deemed exports or deemed reexports.

(B) An item subject to the EAR pursuant to § 734.4(a)(8) or § 734.9(k) if the item is reexported or exported from abroad by an entity located in a country specified in supplement no. 4 to this part, and the entity is not headquartered or have an ultimate parent company headquartered in either Macau or a destination specified in Country Group D:5.

(C) An item subject to the EAR pursuant to § 734.4(a)(8) or § 734.9(k) if the item is reexported or exported from abroad by an entity located in a country that has implemented equivalent controls for items specified in paragraph (a)(4)(i) of this section, and the entity is not headquartered or have an ultimate parent company headquartered in either Macau or a destination specified in Country Group D:5. For the purposes of this paragraph, equivalent means the item is listed on the country's export control list and the country applies the same license review policy. To receive assistance in determining countries with equivalent controls, you may submit an advisory opinion in accordance with § 748.3(c) of the EAR.

(5)(i) *Scope*. A license is required for national security reasons to export or reexport any item subject to the EAR and specified on the Commerce Control List (supplement no. 1 to part 774) to any destination worldwide when the ECCN includes an NS license requirement that references this paragraph (a)(5) in the license requirement table of the ECCN.

(ii) *Deemed export and deemed reexport exclusions*. The license requirements in paragraph (a)(5)(i) of this section do not apply to deemed exports or deemed reexports of “technology” or “software” to the extent consistent with paragraphs (a)(5)(ii)(A) and (B) of this section.

(A) *Grandfather Exclusion*. Except for deemed exports or deemed reexports of “technology” in ECCN 3E905 to foreign persons whose most recent country of citizenship or permanent residency is a destination specified in Country Group D:1 or D:5 in supplement no. 1 to part 740 of the EAR (see GAAFET General License in supplement no. 1 to part 736

general order no. 6), the license requirements in paragraph (a)(5)(i) of this section do not apply to deemed exports or deemed reexports of “technology” or “software,” including for future advancements or versions of the same “technology” or “software,” to employees or contractors already employed by entities subject to this control as of September 6, 2024, and who are not prohibited persons under part 744 of the EAR, *e.g.*, not listed on the Entity List (supplement no. 4 to part 744), Unverified List (supplement no. 6 to part 744), Military End-User List (supplement no. 7 to part 744) or listed on the Denied Persons List (<https://www.bis.doc.gov>). For purposes of this paragraph (a)(5)(ii), the employee need not be a permanent and regular employee as that term is defined in § 734.20(d), *e.g.*, they may be newly hired.

(B) *Deemed export and deemed reexport exclusion—(1) (i) Limited exclusion*. There is a limited deemed export or deemed reexport exclusion from the license requirements in paragraph (a)(5)(i) of this section for the following “software” or “technology” ECCNs unless for foreign persons whose most recent citizenship or permanent residency is a destination specified in Country Group D:1 or D:5: ECCNs 2D910; 2E910; 3D001 (“software” for “EUV” masks and reticles in ECCN 3B001.q); 3D901 (for “software” for quantum items in ECCNs 3A901.b and 3B904 and for scanning electron microscopes (SEM) in ECCN 3B903); 3D907 “software” designed to extract “GDSII” or equivalent data; 3E001 (“technology” for “EUV” masks and reticles in ECCN 3B001.q); and 3E901 (for “technology” for quantum items in 3A901, 3A904, 3B904, 3C907, 3C908, and 3C909, and for SEMs in ECCN 3B903); 3E905 (“technology” according to the General Technology Note for the “development” or “production” of integrated circuits or devices, using “Gate all-around Field-Effect Transistor” (“GAAFET”) structures); 4D906 “software” (for quantum items in 4A906), and 4E906 “technology” (for quantum items in ECCNs 4A906 or 4D906).

(b) *Licensing policy.* Each application is reviewed in light of prevailing policies with full consideration of all aspects of the proposed transaction. When the license application meets the criteria of more than one licensing policy, then the most restrictive licensing policy will be applied. The review generally includes: an analysis of the kinds and quantities of items to be shipped; their military or civilian uses; the unrestricted availability abroad of the same or comparable items; the country of destination; the ultimate end users in the country of destination; and the intended end use.

(1)(i) *Country Group D:1.* The policy for national security-controlled items exported or reexported to any destination except a destination specified in Country Group D:1 (see supplement no. 1 to part 740 of the EAR) is to approve applications unless there is a significant risk that the items will be diverted to a destination specified in Country Group D:1. Except for those countries described in paragraphs (b)(5) through (7) and (9) of this section, the general policy for exports and reexports of items to Country Group D:1 (see supplement no. 1 to part 740 of the EAR) is to approve applications when BIS determines, on a case-by-case basis, that the items are for civilian use or would otherwise not make a significant contribution to the military potential of the country of destination that would prove detrimental to the national security of the United States.

(ii) *9x515 and “600 series” items.* When destined to a country listed in Country Group D:5 in supplement no. 1 to part 740 of the EAR, however, items classified under 9x515 or “600 series” ECCNs will be reviewed consistent with United States arms embargo policies in 22 CFR 126.1 (International Traffic in Arms Regulations (ITAR)). When destined to the People’s Republic of China or a country listed in Country Group E:1 in supplement no. 1 to part 740 of the EAR, items classified under any 9x515 ECCN will be subject to a policy of denial.

(2) License applications for items specified in paragraph (a)(4) of this section will be reviewed consistent with license review policies in § 744.23(d) of the EAR. However, if § 744.23 does not

apply, applications will be reviewed on a case-by-case basis if no license would be required under part 744 of the EAR. applications will be reviewed on a case-by-case basis if no license would be required under part 744 of the EAR.

(3) [Reserved]

(4) Although each proposed transaction is considered individually, items described in Advisory Notes on the Commerce Control List are more likely to be approved than others.

(5) In recognition of efforts made to adopt safeguard measures for exports and reexports, Kazakhstan and Mongolia are accorded enhanced favorable consideration licensing treatment.

(6) The general policy for Laos is to approve license applications when BIS determines, on a case-by-case basis, that the items are for an authorized use in Laos and are not likely to be diverted to another country or use contrary to the national security or foreign policy controls of the United States.

(7)(i) For Burma, Cambodia, the People’s Republic of China (PRC), Nicaragua, and Venezuela, all applications will be reviewed to determine the risk of diversion to a military end user or military end use. There is a general policy of approval for license applications to export, reexport, or transfer items determined to be for civil end users for civil end uses. There is a presumption of denial for license applications to export reexport, or transfer items that would make a material contribution to the “development,” “production,” maintenance, repair, or operation of weapons systems, subsystems, and assemblies, such as, but not limited to, those described in supplement no. 7 to this part, of Burma, Cambodia, China, or Venezuela.

(ii) The following factors are among those that will be considered in reviewing license applications described in paragraph (b)(7)(i) of this section:

(A) The appropriateness of the export, reexport, or transfer for the stated end use;

(B) The significance of the item for the weapon systems capabilities of the importing country;

(C) Whether any party is a ‘military end user’ as defined in § 744.21(g) of the EAR;

(D) The reliability of the parties to the transaction, including whether:

(1) An export or reexport license application has previously been denied;

(2) Any parties are or have been engaged in unlawful procurement or diversion activities;

(3) The parties are capable of securely handling and storing the items; and

(4) End-use checks have been and may be conducted by BIS or another U.S. Government agency on parties to the transaction;

(E) The involvement of any party to the transaction in military activities, including activities involving the “development,” “production,” maintenance, repair, or operation of weapons systems, subsystems, and assemblies;

(F) Government strategies and policies that support the diversion of exports from their stated civil end use and redirection towards military end use; and

(G) The scope and effectiveness of the export control system in the importing country.

(iii) The review will also include an assessment of the impact of a proposed export of an item on the United States defense industrial base and the denial of an application for a license that would have a significant negative impact, as defined in section 1756(d)(3) of the Export Control Reform Act of 2018 (50 U.S.C. 4815(d)(3)), on such defense industrial base.

(8) For India, there is a general policy of approval for license applications to export, reexport, or transfer items, including “600 series” items, for civil or military end uses in India, for ultimate end use by the Government of India, for reexport to countries in Country Group A:5, or for return to the United States, so long as such items are not for use in nuclear, “missile,” or chemical or biological weapons activities.

(9) For the Russian Federation and Belarus, all applications will be reviewed in accordance with the licensing policy set forth in § 746.8(b) of the EAR.

(10) *License review policy for items specified in paragraph (a)(5).* License applications to export or reexport items described in paragraph (a)(5)(i) of this

section to destinations specified in Country Group A:1, A:5, and A:6, see supplement no. 1 to part 740 of the EAR, will be reviewed with a presumption of approval. License applications to export or reexport items described in paragraph (a)(5)(i) of this section to destinations specified in Country Groups D:1 or D:5 of supplement no. 1 to part 740 of the EAR will be reviewed under a presumption of denial. License applications to export or reexport items described in paragraph (a)(5)(i) of this section to any other destination will be reviewed on a case-by-case basis, unless subject to a more restrictive NS policy in this section.

(c) *Contract sanctity.* Contract sanctity provisions are not available for license applications reviewed under this section, except for applications for items in paragraph (a)(4) of this section. For paragraph (a)(4), contract sanctity provisions are available for contracts signed before October 18, 2023.

(d) *License exceptions.* Certain license exceptions are available only for national security items, such as License Exceptions GBS (see § 740.4 of the EAR) and TSR (see § 740.6 of the EAR), but other license exceptions may also be available for national security items, such as License Exception STA (see § 740.20 of the EAR) or license exceptions based on the facts of the transaction, such as License Exceptions TMP (see § 740.9 of the EAR) or GOV (see § 740.11 of the EAR). See part 740 of the EAR for a full list of license exceptions and § 740.2 of the EAR for license exception restrictions that apply to every license exception.

[61 FR 12786, Mar. 25, 1996]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 742.4, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at [www.govinfo.gov](http://www.govinfo.gov).

#### § 742.5 Missile technology.

(a) *License requirements.* (1) In support of U.S. foreign policy to limit the proliferation of missiles, a license is required to export and reexport items related to the design, development, production, or use of missiles. These items are identified in ECCNs on the CCL as MT Column No. 1 in the Country Chart

column of the “License Requirements” section. Licenses for these items are required to all destinations, except Australia, Canada, or the United Kingdom, as indicated by MT Column 1 of the Country Chart (see supplement no. 1 to part 738 of the EAR).

(2) The term “missiles” is defined as rocket systems (including ballistic missiles, space launch vehicles, and sounding rockets) and unmanned aerial vehicle systems (including cruise missiles, target drones, and reconnaissance drones) capable of delivering at least 500 kilograms (kg) payload to a range of at least 300 kilometers (km). See § 746.3 of the EAR for definition of a “ballistic missile” to be exported or re-exported to Iraq.

(b) *Licensing policy.* (1) Applications to export and reexport items identified in ECCNs on the CCL as MT Column No. 1 in the Country Chart column of the “License Requirements” section will be considered on a case-by-case basis to determine whether the export or reexport would make a material contribution to the proliferation of missiles. Applications for exports and reexports of such items contained in Category 7A or described by ECCN 9A101 on the CCL will be considered favorably if such exports or reexports are destined to a manned aircraft, satellite, land vehicle, or marine vessel, in quantities appropriate for replacement “parts” and “components” for such applications. When an export or reexport is deemed to make a material contribution to the proliferation of missiles, the license will be denied.

NOTE 1 TO PARAGRAPH (b)(1): Applications to export and reexport an Unmanned Aerial Vehicle (UAV) that has a range and payload capability equal to or greater than 300 km/500 kg but a maximum true airspeed of less than 800 km/hr, and items controlled for Missile Technology reasons for the design, development, production, or use of UAV systems that meet these parameters, will not be subject to a policy of denial but will instead be reviewed on a case-by-case basis to determine whether the export or reexport will be used in support of WMD activities or military activities contrary to U.S. national security, or whether there is a risk of diversion to support such activities.

(2) The following factors are among those that will be considered in reviewing individual applications.

(i) The specific nature of the end-use;  
(ii) The significance of the export and reexport in terms of its contribution to the design, development, production, or use of missiles;

(iii) The capabilities and objectives of the missile and space programs of the recipient country;

(iv) The nonproliferation credentials of the importing country;

(v) The types of assurances or guarantees against design, development, production, or use of missiles that are given in a particular case; and

(vi) The existence of a preexisting contract.

(3)(i) Consistent with the MTCR Annex *General Minimum Software Note*, MTCR Annex *General Technology Note* and § 750.7(c)(1)(x) of the EAR, the approval of any item controlled for MT reasons on a BIS license also authorizes the export, reexport, or transfer (in-country) to the same ultimate consignee(s) and end user(s) specified on the license of the minimum “software,” excluding source code, controlled for MT reasons that is required for the installation, operation, maintenance or repair of the item and the “technology” required for the installation, operation, maintenance, or repair of the item in order to ensure the item’s safe operation as originally intended. The approval of any item controlled for MT reasons on a BIS license also authorizes the later export, reexport, or transfer (in-country) of “software” controlled for MT reasons intended to correct defects (bug fixes) in a previously legally exported item under a BIS license to the same ultimate consignee(s) and end user(s) specified on the license, provided that the capability and/or performance of the item are not otherwise enhanced. This MT licensing policy is implemented concurrent with § 750.7(c)(1)(x) because it applies to all MT licenses, except when a condition is placed on the license which excludes the use of § 750.7(c)(1)(x), as described in paragraph (b)(3)(ii) of this section.

(ii) Applicants are not required to identify or provide any support documentation for such minimum “software” or “technology” on a license application for MT controlled items because such minimum “software” or

“technology” is authorized within the scope of the license, consistent with § 750.7(c)(1)(x). Applicants will be informed when such minimum “software” and/or “technology” in § 750.7(c)(1)(x) is excluded from the license by a BIS condition on the license, which will state the following: *“This license does not authorize the export, reexport or transfer (in-country) of the minimum “software” and/or “technology” specified in paragraph (c)(1)(x) of § 750.7 (See paragraph (b)(3) of § 742.5).”*

NOTE TO PARAGRAPH (b)(3): License Exception TSU under § 740.13 of the EAR is available for the ECCNs controlled for MT reasons specified in paragraph (a)(5) in § 740.2, provided the software or technology is for an end use specified in that paragraph and meets the requirements of License Exception TSU. (See §§ 740.2(a)(5) and 740.13). The licensing policy in paragraph (b)(3) is only available for licensed exports (or reexports, or transfers (in-country)).

(4) *Controls on other items.* BIS will review license applications, in accordance with the licensing policy described in paragraph (b)(1) of this section, for items not described in paragraph (a) of this section that:

- (i) Require a validated license for reasons other than short supply; and
- (ii) Could be destined for the design, development, production, or use of missiles, or for a facility engaged in such activities.

(5) License applications for items described in paragraph (a) of this section, when destined for the People's Republic of China, will be reviewed in accordance with the licensing policies in both paragraph (b) of this section and § 742.4(b)(7). When such items are destined to Russia or Belarus, license applications will be reviewed under a policy of denial. However, exports and reexports of items to Russia or Belarus in support of U.S.-Russia or U.S.-Belarus civil space cooperation activities will be reviewed on a case-by-case basis. See § 746.8(b) of the EAR.

(c) *Contract sanctity.* The following contract sanctity dates have been established:

- (1) License applications for batch mixers specified in ECCN 1B117 involving contracts that were entered into prior to January 19, 1990, will be considered on a case-by-case basis.

(2) License applications subject to ECCN 1B115.b or .c that involve a contract entered into prior to March 7, 1991, will be considered on a case-by-case basis.

(3) Applicants who wish that a pre-existing contract be considered in reviewing their license applications must submit documentation sufficient to establish the existence of a contract.

(d) *Missile Technology Control Regime.* Missile Technology Control Regime (MTCR) members are listed in Country Group A:2 (see supplement no. 1 to part 740 of the EAR). Controls on items identified in paragraph (a) of this section are consistent with the list agreed to in the MTCR and included in the MTCR Annex.

[61 FR 12786, Mar. 25, 1996, as amended at 68 FR 16147, Apr. 2, 2003; 69 FR 46075, July 30, 2004; 72 FR 33656, June 19, 2007; 76 FR 4231, Jan. 25, 2011; 81 FR 19030, Apr. 4, 2016; 81 FR 76861, Nov. 4, 2016; 82 FR 31446, July 7, 2017; 85 FR 10277, Feb. 24, 2020; 86 FR 2254, Jan. 12, 2021; 87 FR 12239, Mar. 3, 2022; 87 FR 13059, Mar. 8, 2022; 89 FR 28599, Apr. 19, 2024]

#### § 742.6 Regional stability.

(a) *License requirements.* The following controls are maintained in support of U.S. foreign policy to maintain regional stability:

(1) *RS Column 1 license requirements in general.* A license is required for exports and reexports to all destinations, except Australia, Canada, or the United Kingdom, for all items in ECCNs on the CCL that include RS Column 1 in the Country Chart column of the “License Requirements” section. Transactions described in paragraph (a)(2), (3), or (9) of this section are subject to the RS Column 1 license requirements set forth in those paragraphs rather than the license requirements set forth in this paragraph (a)(1).

(2) *Special RS Column 1 license requirements applicable to certain thermal imaging cameras.* (i) As indicated in the CCL and in RS Column 1 of the Commerce Country Chart, cameras described in 6A003.b.4.b require a license to all destinations other than Australia, Canada, or the United Kingdom if such cameras have a frame rate greater than 60 Hz.

(ii) Except as noted in paragraph (a)(2)(iii) of this section, as indicated in

the CCL and in RS Column 1 of the Commerce Country Chart, cameras described in 6A003.b.4.b require a license to all destinations other than Australia, Canada, or the United Kingdom if such cameras incorporate a focal plane array with more than 111,000 elements and a frame rate of 60 Hz or less, or cameras described in 6A003.b.4.b that are being exported or reexported to be embedded in a civil product.

(iii) BIS may issue licenses for cameras subject to the license requirement of paragraph (a)(2)(ii) of this section that are fully-packaged for use as consumer-ready civil products that, in addition to the specific transactions authorized by such license, authorize exports and reexports of such cameras without a license to any civil end-user to whom such exports or reexport are not otherwise prohibited by U.S. law in a destination in Country Group A:1 (see supplement no. 1 to part 740 of the EAR). The license requirements of this paragraph (a)(2) shall not apply to exports or reexports so authorized. In this paragraph, the term “civil end-user” means any entity that is not a national armed service (army, navy, marine, air force, or coast guard), national guard, national police, government intelligence organization or government reconnaissance organization, or any person or entity whose actions or functions are intended to support “military end-uses” as defined in § 744.17(d) of the EAR.

(iv) Except as noted in paragraph (a)(2)(v) of this section, as indicated in the CCL and in RS Column 1 of the Commerce Country Chart, cameras described in 6A003.b.4.b require a license to all destinations other than Australia, Canada, or the United Kingdom if such cameras incorporate a focal plane array with 111,000 elements or less and a frame rate of 60 Hz or less and are being exported or reexported to be embedded in a civil product.

(v) BIS may also issue licenses for the cameras described in paragraph (a)(2)(iv) of this section that, in addition to the specific transactions authorized by such license, authorize exports and reexports to authorized companies described in the license for the purpose of embedding such cameras into a completed product that will be

distributed only in countries in Country Group A:1 (see supplement no. 1 to part 740 of the EAR). The license requirements of this paragraph (a)(2) shall not apply to exports or reexports so authorized. In this paragraph, the term “authorized companies” means companies that have been previously licensed for export, are not the subject of relevant negative intelligence or open source information, have not been the subject of a Department of Commerce or Department of State enforcement action within the past two years, have demonstrable production capacity, and do not pose an unacceptable risk of diversion.

(3) *Special RS Column 1 license requirement applicable to military commodities.* A license is required for reexports to all destinations except Australia, Canada, or the United Kingdom for items classified under ECCN 0A919 except when such items are being reexported as part of a military deployment by a unit of the government of a country in Country Group A:1 (see supplement no. 1 to part 740 of the EAR) or the United States.

(4) *RS Column 2 license requirements—*  
(i) *License requirements applicable to most RS Column 2 items.* As indicated in the CCL and in RS Column 2 of the Commerce Country Chart (see supplement no. 1 to part 738 of the EAR), a license is required to any destination except those in Country Group A:1 (see supplement no. 1 to part 740 of the EAR) and India for all items in ECCNs on the CCL that include RS Column 2 in the Country Chart column of the “License Requirements” section. A license continues to be required for items controlled under ECCNs 6A003.b.4.b and 9A515.e for RS Column 2 reasons when destined to India.

(ii) *Special RS Column 2 license requirements applicable only to certain cameras.* As indicated by the CCL, and RS column 2 and footnote number 4 to the Commerce Country Chart, a license is required to any destination except a country in Country Group A:1 (see supplement no. 1 to part 740 of the EAR) for fully-packaged thermal imaging cameras for use as consumer-ready civil products controlled by 6A003.b.4.b when incorporating “focal plane arrays” that have not more than 111,000

elements and a frame rate of 60Hz or less and that are not being exported or reexported to be embedded in a civil product.

(5) *RS requirements that apply to Iraq.* As indicated on the CCL, a license is required for the export or reexport to Iraq or transfer within Iraq of the following items controlled for RS reasons on the CCL: 0B999, 0D999, 1B999, 1C992, 1C995, 1C997, 1C999 and 6A992. The Commerce Country Chart is not designed to determine RS licensing requirements for these ECCNs.

(6) *RS requirement that applies to advanced computing and semiconductor manufacturing items—(i) Exports, reexports, transfers (in-country) to or within Macau or Country Group D:5—(A) Certain semiconductor manufacturing equipment and associated software and technology—(1) Scope.* A license is required for exports, reexports, and transfers (in-country) to or within either Macau or a destination specified in Country Group D:5 in supplement no. 1 to part 740 of the EAR of items specified in 3B001.a.4, c, d, f.1, f.5, k to n, p.2, p.4, r, 3B002.c, 3D992, or 3E992.

(2) *Exclusions.* The license requirements in this paragraph (a)(6)(i)(A) do not apply to any of the following:

(i) Deemed exports or deemed reexports.

(ii) An item subject to the EAR pursuant to §§ 734.4(a)(8) or 734.9(k) if the item is reexported or exported from abroad by an entity located in a country specified in supplement. no. 4 to this part, and the entity is not headquartered or have an ultimate parent company headquartered in Country Group D:5 or Macau.

(iii) An item subject to the EAR pursuant to §§ 734.4(a)(8) or 734.9(k) if the item is reexported or exported from abroad by an entity located in a country that has implemented equivalent controls for items specified in paragraph (a)(6)(i)(A)(I) of this section, and the entity is not headquartered or have an ultimate parent company headquartered in Country Group D:5 or Macau. For the purposes of this paragraph, 'equivalent' means the item is listed on the country's export control list and the country applies the same license review policy. To receive assistance in determining countries with

equivalent controls, you may submit an advisory opinion request in accordance with § 748.3(c) of the EAR.

(B) *High Bandwidth Memory (HBM).* A license is required for items specified in ECCNs 3A090.c, 3D001 (for 3A090.c), and 3E001 (for 3A090.c) when exported, reexported, or transferred (in-country) to or within Macau or a destination specified in Country Group D:5 in supplement no. 1 to part 740 of the EAR. The license requirements in this paragraph (a)(6)(i)(B) do not apply to deemed exports or deemed reexports.

(ii) *Exports from abroad originating in either Macau or a destination specified in Country Group D:5.* A license is also required for the export from abroad originating in either Macau or a destination specified in Country Group D:5 to any destination worldwide excluding any destination also specified in Country Groups A:5 or A:6, of 3E001 (for 3A090) technology developed by an entity headquartered in, or whose ultimate parent company is headquartered in, either Macau or a destination specified in Country Group D:5 that is the direct product of software subject to the EAR and is for the "production" of commodities identified in ECCNs 3A090, 4A090, 3A001.z, 4A003.z, 4A004.z, 4A005.z, 5A002.z, 5A004.z, or 5A992.z, consistent with § 734.9(h)(1)(i)(B)(I) and (h)(2)(ii) of the EAR.

(iii) *Exports, reexports, transfers (in-country) to or within destinations specified in Country Groups D:1, D:4, and D:5, excluding destinations also specified in Country Groups A:5 or A:6.* A license is required for items specified in ECCNs 3A001.z; 3A090 (except for 3A090.c); 3D001 (for "software" for commodities controlled by 3A001.z, 3A090 (except for 3A090.c)); 3E001 (for "technology" for commodities controlled by 3A001.z, 3A090 (except for 3A090.c)); 4A003.z; 4A004.z; 4A005.z; 4A090; 4D001 (for "software" for commodities controlled by 4A003.z, 4A004.z, and 4A005.z); 4D090 (for "software" for commodities controlled by 4A090); 4E001 (for "technology" for commodities controlled by 4A003.z, 4A004.z, 4A005.z, 4A090 or "software" specified by 4D001 (for 4A003.z, 4A004.z, and 4A005.z), 4D090 (for "software" for commodities controlled by 4A090)); 5A002.z; 5A004.z; 5A992.z; 5D002.z; 5D992.z; 5E002 (for "technology" for



commodities controlled by 5A002.z or 5A004.z or “software” specified by 5D002 (for 5A002.z or 5A004.z commodities)); or 5E992 (for “technology” for commodities controlled by 5A992.z or “software” controlled by 5D992.z) being exported, reexported, or transferred (in-country) to or within a destination specified in Country Groups D:1, D:4, and D:5, excluding destinations also specified in Country Groups A:5 or A:6, in supplement no. 1 to part 740 of the EAR.

(iv) *Deemed exports and reexports.* The license requirements in paragraphs (a)(6)(i) through (iii) of this section do not apply to deemed exports or deemed reexports.

(7) *RS requirement that applies to the People’s Republic of China (China), Russia, or Venezuela.* A license is required to export or reexport to China, Russia, or Venezuela any item described in a .y paragraph of a 9x515 or “600 series” ECCN, except for exports or reexports to Russia for use in, with, or for the International Space Station (ISS), including launch to the ISS. (See § 740.11(e)(1) of the EAR for a definition of the ISS.)

(8) *RS Column 1 license requirements and related policies for ECCN 0Y521 items—(i) Scope.* This paragraph (a)(8) supplements the information in the 0Y521 ECCNs and in Supplement No. 5 to part 774 (Items Classified Under ECCNs 0A521, 0B521, 0C521, 0D521 and 0E521). This paragraph alerts exporters, reexporters and transferors to the procedures that apply to items classified under the 0Y521 ECCNs.

(ii) *0Y521 Items.* Items subject to the EAR that are not listed elsewhere in the CCL, but which the Department of Commerce, with the concurrence of the Departments of Defense and State, has determined should be controlled for export because the items provide at least a significant military or intelligence advantage to the United States or for foreign policy reasons are classified under ECCNs 0A521, 0B521, 0C521, 0D521 and 0E521. These items are typically emerging technologies (including emerging commodities, software and technology) that are not yet included in the CCL, so such items are listed on the CCL in 0Y521 ECCNs while the U.S. Government determines whether clas-

sification under a revised or new ECCN, or an EAR 99 designation, is appropriate. The list of items classified under a 0Y521 ECCN is limited to those listed in supplement no. 5 to part 774.

(iii) *Requirement to be classified under another ECCN within one calendar year of classification under ECCN 0Y521.* Items classified under an ECCN 0Y521 entry must be re-classified under another ECCN within one calendar year from the date they are listed in supplement no. 5 to part 774 of the EAR. If such re-classification does not occur within that period, classification under an ECCN 0Y521 entry expires, and such items are designated as EAR99 items unless either the CCL is amended to impose a control on such items under another ECCN or the ECCN 0Y521 classification is extended. BIS may extend an item’s ECCN 0Y521 classification for two one-year periods, provided that the U.S. Government has submitted a proposal to the relevant multilateral regime(s) to obtain multilateral controls over the item. Further extension beyond three years may occur only if the Under Secretary for Industry and Security makes a determination that such extension is in the national security or foreign policy interests of the United States. Any extension or re-extension of control of an ECCN 0Y521 item, including the determination by the Under Secretary, shall be published in the FEDERAL REGISTER.

(9) *Special RS Column 1 license requirement applicable to certain spacecraft and related items.* A license is required for all destinations, except for Australia, Canada, and the United Kingdom, for spacecraft and related items classified under ECCN 9A515.a.1, a.2, a.3, a.4, .g, and ECCN 9E515.f.

(10)(i) *Scope.* A license is required for regional stability reasons to export or reexport any item subject to the EAR and listed on the Commerce Control List (supplement no. 1 to part 774) to any destination worldwide when the ECCN includes an RS license requirement that references this (a)(10) paragraph in the license requirement table.

(ii) *Deemed export and deemed reexport exclusions.* The license requirements in paragraph (a)(10)(i) of this section do not apply to deemed exports or deemed reexports to the extent consistent with

paragraphs (a)(10)(ii)(A) and (B) of this section.

(A) *Grandfather clause.* Except for deemed exports or deemed reexports of “technology” in ECCN 3E905 to foreign persons whose most recent country of citizenship or permanent residency is a destination specified in Country Group D:1 or D:5 in supplement no. 1 to part 740 of the EAR (see GAAFET General License in supplement no. 1 to part 736 general order no. 6), the license requirements in paragraph (a)(10)(i) of this section do not apply to deemed exports or deemed reexports of “technology” or “software,” including for future advancements or versions of the same “technology” or “software,” to employees or contractors already employed by entities subject to this control as of September 6, 2024, and who are not prohibited persons under part 744 of the EAR, *e.g.*, not listed on the Entity List (supplement no. 4 to part 744), Unverified List (supplement no. 6 to part 744), Military End-User List (supplement no. 7 to part 744) or listed on the Denied Persons List (<https://www.bis.doc.gov>). For purposes of this paragraph (a)(10)(ii), the employee need not be a permanent and regular employee as that term is defined in § 734.20(d), *e.g.*, they may be newly hired.

(B) *Deemed export and deemed reexport exclusion—(1) Limited exclusion.* There is a limited deemed export or deemed reexport exclusion from the license requirements in paragraph (a)(10)(i) of this section for the following “software” or “technology” ECCNs, unless for foreign persons whose most recent citizenship or permanent residency is a destination specified in Country Group D:1 or D:5: 2D910; 2E910; 3D001 (“software” for “EUV” masks and reticles in ECCN 3B001.q); 3D901 (for “software” for quantum items in ECCNs 3A901.b, 3B904 and scanning electron microscopes (SEM) in ECCN 3B903); 3D907 “software” designed to extract “GDSII” or equivalent data; 3E001 (“technology” for “EUV” masks and reticles in ECCN 3B001.q), 3E901 (for “technology” for quantum items in 3A901, 3A904, 3B904, 3C907, 3C908, and 3C909, and for SEMs in ECCN 3B903); 3E905 (“technology” according to the General Technology Note for the “de-

velopment” or “production” of integrated circuits or devices, using “Gate all-around Field-Effect Transistor” (“GAAFET”) structures); and “technology” for quantum items in ECCNs 4D906 or 4E906.

(2) *Full exclusion.* There is a full deemed export and reexport exclusion in § 742.6(a)(6)(iv) that conveys to the license requirement in this paragraph (a)(10) for “technology” and “software” in ECCNs 3D001, 3D002, and 3E001 for anisotropic dry plasma etch equipment and isotropic dry etch equipment in 3B001.c.1.a and c.1.c.

(11) *License requirement for ECCN 3B993, 3B994, 3D993, 3D994, 3E993, and 3E994.* A license is required for the export, reexport, or transfer (in-country) of items specified in ECCN 3B993, 3B994, 3D993, 3D994, 3E993, or 3E994 to a Footnote 5 designated entity listed on the Entity List in supplement no. 4 to part 744 of the EAR when the item is not subject to the EAR pursuant to § 734.4(a)(9) or § 734.9(e)(3) of the EAR. See § 744.11(a)(2)(v)(a) for license requirements for these items when subject to the EAR pursuant to §§ 734.4(a)(9) and 734.9(e)(3) of the EAR.

(12) *RS requirements that apply to Pakistan.* A license is required to export, re-export, or transfer (in-country) to or within Pakistan the following items: 1B999 (“Specific Processing Equipment, n.e.s.”); 2A992 (“Piping, fittings and valves made of, or lined with stainless, copper-nickel alloy or other alloy steel containing 10% or more nickel and/or chromium”); 2B999 (“Specific Processing Equipment, n.e.s.”), except 2B999.h.2; 3A992 (“General purpose electronic equipment not controlled by 3A002”); 3A999 (“Specific Processing Equipment, n.e.s.”); and 6A996 (“Magnetometers” not controlled by ECCN 6A006, ‘Superconductive’ electromagnetic sensors, and ‘specially designed’ components’ therefor”).

(b) *Licensing policy—(1) Licensing policy for RS Column 1 items.* (i) Applications for exports and reexports of ECCN 0A501, 0A502, 0A504, 0A505, 0A506, 0A507, 0A508, 0A509, 0B501, 0B505, 0D501, 0D505, 0E501, 0E504, and 0E505 items, 9x515, and “600 series” items will be reviewed under the following policies:

(A) Applications for exports and reexports of ECCN 0A501, 0A502, 0A504,

0A505, 0A506, 0A507, 0A508, 0A509, 0B501, 0B505, 0D501, 0D505, 0E501, 0E504, and 0E505 items; 9x515 and “600 series” items will be reviewed on a case-by-case basis to determine whether the transaction is contrary to the national security or foreign policy interests of the United States, including the foreign policy interest of promoting the observance of human rights throughout the world.

(B) Other applications for exports and reexports described in paragraph (a)(1), (2), (6), or (8) of this section will be reviewed on a case-by-case basis to determine whether the export or reexport could contribute directly or indirectly to any country’s military capabilities in a manner that would alter or destabilize a region’s military balance contrary to the foreign policy interests of the United States.

(C) Applications for reexports of items described in paragraph (a)(3) of this section will be reviewed applying the policies for similar commodities that are subject to the ITAR.

(D) Applications for export or reexport of items classified under ECCNs 0A501, 0A502, 0A505, 0A506, 0A507, 0A508, or 0A509, or any 9x515 or “600 series” ECCN requiring a license in accordance with paragraph (a)(1) or (9) of this section, will also be reviewed consistent with United States arms embargo policies in §126.1 of the ITAR (22 CFR 126.1), if destined to a country set forth in Country Group D:5 in Supplement No. 1 to part 740 of the EAR.

(E) Applications for export or reexport of “parts,” “components,” “accessories,” “attachments,” “software,” or “technology” “specially designed” or otherwise required for the F-14 aircraft will generally be denied.

(F) Applications for exports and reexports of items classified under ECCNs 0A501, 0A502, 0A504, 0A505, 0A506, 0A507, 0A508, 0A509, 0B501, 0B505, 0D501, 0D505, 0E501, 0E504, or 0E505, or any 9x515 ECCN will be subject to a policy of denial, when destined to China or a country listed in E:1 in Supplement No. 1 to part 740 of the EAR.

(G) Applications for exports and reexports of ECCNs 0A501, 0A502, 0A504, 0A505, 0A506, 0A507, 0A508, 0A509, 0B501, 0B505, 0D501, 0D505, 0E501, 0E504, and 0E505 items will be subject to a policy

of denial when there is reason to believe the transaction involves criminal organizations, rebel groups, street gangs, or other similar groups or individuals, that may be disruptive to regional stability, including within individual countries.

(ii) Applications for exports and reexports to a country listed in Country Group D:5 (in supplement no. 1 to part 740 of the EAR) of technology controlled under 6E001 for the development of focal plane arrays, read-out integrated circuits (ROICs) or image intensifier tubes described in 6A002 or technology controlled under 6E002 for the production of focal plane arrays, read-out integrated circuits (ROICs) or image intensifier tubes described in 6A002 will be reviewed with a presumption of denial.

(2) *Licensing policy for RS Column 2 items.* (i) Except as described in paragraph (b)(2)(ii), applications to export and reexport commodities described in paragraph (a)(4) of this section will generally be considered favorably on a case-by-case basis unless there is evidence that the export or reexport would contribute significantly to the destabilization of the region to which the equipment is destined.

(ii) Applications to export and reexport items controlled under ECCNs 2A984, 2D984 and 2E984 will be reviewed under a presumption of approval when exported or reexported to Austria, Cyprus, Finland, Ireland, Israel, Malta, Mexico, Singapore or Sweden, provided the items to be exported or reexported are being made to a government end-user or to a person designated by the government end-user pursuant to contract. License applications to export to a designated person must include a statement from the government end-user that the person is so designated. See supplement no. 2 to part 748, paragraph (k)(2).

(3) For terrorist-designated countries, the applicable licensing policies are found in parts 742 and 746 of the EAR.

(4) See §746.3(b) of the EAR for the applicable licensing policies for items controlled for RS reasons to Iraq.

(5) *Spacecraft for launch.* (i) Applications to export or reexport a “spacecraft” controlled under ECCN 9A515.a

for launch in or by a country that is not a member of the North Atlantic Treaty Organization (NATO) or a major non-NATO ally of the United States (as defined in 22 CFR 120.31 and 120.32), will require a technology transfer control plan approved by the Department of Defense, an encryption technology control plan approved by the National Security Agency, and Department of Defense monitoring of all launch activities.

(ii) Applications to export or reexport a “spacecraft” controlled under ECCN 9A515.a for launch in or by a country that is a member of the North Atlantic Treaty Organization (NATO) or a major non-NATO ally of the United States (as defined in 22 CFR 120.31 and 120.32), may require a technology transfer control plan approved by the Department of Defense, an encryption technology control plan approved by the National Security Agency, or Department of Defense monitoring of launch activities.

(6) *Remote sensing spacecraft.* Applications to export or reexport a “spacecraft” described in ECCN 9A515.a.1., a.2, a.3, or .a.4, sensitive remote sensing components described in 9A515.g, or “technology” described in ECCN 9E515.f may require a government-to-government agreement at the discretion of the U.S. Government.

(7) For India, there is a general policy of approval for license applications to export, reexport, or transfer items, including “600 series” items, for civil or military end uses in India, for ultimate end use by the Government of India, for reexport to countries in Country Group A:5, or for return to the United States, so long as such items are not for use in nuclear, “missile,” or chemical or biological weapons activities.

(8) *China or Venezuela.* Applications to export or reexport items described in paragraph (a)(7) of this section to China or Venezuela will be reviewed on a case-by-case basis to determine whether the transaction is contrary to the national security or foreign policy interests of the United States, including the foreign policy interest of promoting the observance of human rights throughout the world. Such applications will also be reviewed consistent

with United States arms embargo policies in § 126.1 of the ITAR (22 CFR 126.1). When destined to China, items classified under any 9x515.y ECCN will be subject to a policy of denial consistent with paragraph (b)(1) of this section.

(9) *Russia or Belarus.* Applications to export or reexport items described in paragraph (a)(7) of this section will be reviewed pursuant to the licensing policy set forth in § 746.8(b) of the EAR, as well as the foreign policy interest of promoting the observance of human rights throughout the world and consistent with United States arms embargo policies in § 126.1 of the ITAR (22 CFR 126.1).

(10) *Advanced computing and semiconductor manufacturing items—*(i) *License review policy for paragraphs (a)(6)(i)(A) and (ii) of this section.* License applications for items specified in paragraphs (a)(6)(i)(A) and (ii) of this section will be reviewed consistent with license review policies in § 744.23(d) of the EAR. However, if § 744.23 does not apply, applications will be reviewed on a case-by-case basis if no license would be required under part 744 of the EAR.

(ii) *License review policy for paragraph (a)(6)(i)(B) of this section (for 3A090.c).* There is a presumption of approval review policy for license applications for items specified in paragraph (a)(6)(i)(B) to or within Macau or a destination specified in Country Group D:5 in supplement no. 1 to part 740 of the EAR for entities neither headquartered in nor whose ultimate parent company is headquartered in either Macau or a destination specified in Country Group D:5. There is a presumption of denial policy for all other license applications.

(iii) *License review policy for paragraph (a)(6)(iii) of this section.* (A) License applications will be reviewed under a presumption of approval for export, reexport, or transfer (in-country) of items specified in paragraph (a)(6)(iii) to or within destinations other than Country Group D:5 or Macau or to entities not headquartered in or whose ultimate parent company is not headquartered in destinations in Country Group D:5 or Macau. (B) License applications will be reviewed under a presumption of denial for the

export, reexport, or transfer (in-country) of items specified in paragraph (a)(6)(iii) of this section to or within destinations in Country Group D:5 or Macau, or to an entity headquartered in or whose ultimate parent company is headquartered in a destination in Country Group D:5 or Macau, unless either of the following apply, in which case they will be subject to a case-by-case license review policy if either of the following apply:

(1) The commodity meets the parameters of 3A090.a and is not designed or marketed for use in a datacenter; or

(2) The commodity meets the parameters of 3A090.b and is designed or marketed for use in a datacenter.

(11) *License review policy for items specified in paragraph (a)(10).* License applications to export or reexport items described in paragraph (a)(10) of this section to destinations specified in Country Group A:1, A:5, and A:6, see supplement no. 1 to part 740 of the EAR, will be reviewed with a presumption of approval. License applications to export or reexport items described in paragraph (a)(10) of this section to destinations specified in Country Groups D:1 or D:5 of supplement no. 1 to part 740 of the EAR will be reviewed under a presumption of denial. License applications to export or reexport items described in paragraph (a)(10) of this section to any other destination will be reviewed on a case-by-case basis, unless subject to a more restrictive RS policy in this section.

(12) *License review policy for paragraph (a)(11).* The license review policy for items subject to a license pursuant to paragraph (a)(11) of this section will be reviewed as specified in the license review policy column for the listed entity. See also § 744.11(a)(2)(v) of the EAR.

(13) Applications for the export, reexport, or transfer (in-country) of any item that requires a license pursuant to paragraph (a)(12) of this section will be reviewed on a case-by-case basis to determine whether the proposed export, reexport, or transfer (in-country) presents an unacceptable risk of use in, or diversion to, an end use or end user of concern, as set forth in part 744 of the EAR. If it is determined that the proposed export, reexport, or transfer (in-country) poses an unacceptable risk

of use in, or diversion to, an end use or end user of concern, the application will be denied.

(c)(1) *Contract sanctity date:* March 21, 2003. This contract sanctity date applies only to items controlled under ECCNs 2A983, 2D983 and 2E983 destined for countries not listed in Country Group E (supplement 1 to part 740). See parts 742 and 746 for the contract sanctity requirements applicable to exports and reexports to countries listed in Country Group E.

(2) *Contract sanctity date:* March 19, 2010. This contract sanctity date applies only to items controlled under ECCNs 2A984, 2D984 and 2E984 destined for countries not listed in Country Group E (supplement 1 to part 740). See parts 742 and 746 for the contract sanctity requirements applicable to exports and reexports to countries listed in Country Group E.

(d) *U.S. controls.* Although the United States seeks cooperation from like-minded countries in maintaining regional stability controls, at this time these controls are maintained only by the United States.

[61 FR 12786, Mar. 25, 1996]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 742.6, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at [www.govinfo.gov](http://www.govinfo.gov).

#### § 742.7 Crime control and detection.

(a) *License requirements.* In support of U.S. foreign policy to promote the observance of human rights throughout the world, a license is required to export and reexport crime control and detection equipment, related technology and software as follows:

(1) Crime control and detection instruments and equipment and related “technology” and “software” identified in the appropriate ECCNs on the CCL under CC Column 1 in the Country Chart column of the “License Requirements” section. A license is required to countries listed in CC Column 1 (Supplement No. 1 to part 738 of the EAR). Items affected by this requirement are identified on the CCL under the following ECCNs: 0A977, 0A978, 0A979, 0D977, 0E977, 1A984, 1A985, 3A980, 3A981, 3D980, 3E980, 4A003 (for fingerprint

computers only), 4A980, 4D001 (for fingerprint computers only), 4D980, 4E001 (for fingerprint computers only), 4E980, 6A002 (for police-model infrared viewers only), 6E001 (for police-model infrared viewers only), 6E002 (for police-model infrared viewers only), and 9A980.

(2) Items designed for the execution of human beings as identified in ECCN 0A981 require a license to all destinations including Australia, Canada, and the United Kingdom. Controls for these items appear in each ECCN; a column specific to these controls does not appear in the Country Chart (supplement no. 1 to part 738 of the EAR).

(3) Certain crime control items require a license to all destinations, except Canada only. These items are identified under ECCNs 0A982, 0A503, and 0E982. Controls for these items appear in each ECCN; a column specific to these controls does not appear in the Country Chart (supplement no. 1 to part 738 of the EAR).

(4) See § 742.11 of the EAR for further information on items controlled under ECCN 0A983, which require a license to all destinations, including Australia, Canada, and the United Kingdom. Controls for these items appear in each ECCN; a column specific to these controls does not appear in the Country Chart (supplement no. 1 to part 738 of the EAR).

(5) Items detailed under this paragraph are specific to certain firearms, shotguns, and related items. Crime control and detection instruments and equipment and related “technology” and “software” identified in the appropriate ECCNs on the CCL under CC Column 2 in the Country Chart column of the “License Requirements” section. A license is required to countries listed in CC Column 2 (supplement no. 1 to part 738 of the EAR). Items affected by this requirement are identified on the CCL under the following ECCNs: 0A501 (except 0A501.y), 0A502, 0A504, 0A505. a., .b, and .x, 0A506, 0A507, 0A508, 0A509, 0D501, 0D505, 0E501, 0E502, 0E504, and 0E505.

(b) *Licensing policy.* (1) Applications for items controlled under paragraphs (a)(1) through (a)(4) of this section will generally be considered favorably on a case-by-case basis, unless there is civil

disorder in the country or region or unless there is a risk that the items will be used to violate or abuse human rights. The judicious use of export controls is intended to deter human rights violations and abuses, distance the United States from such violations and abuses, and avoid contributing to civil disorder in a country or region.

(2) BIS will review license applications in accordance with the licensing policy in paragraph (b)(1) of this section for items that are not controlled under this section but that require a license pursuant to another section for any reason other than short supply and could be used by the recipient Government or other end user specifically to violate or abuse human rights.

(3) Applications for items controlled under paragraph (a)(5) of this section will be reviewed under the following license review policies:

(i) Applications destined for government end users will be reviewed on a case-by-case basis to determine whether there is a risk of diversion or misuse of the items in a manner that would adversely impact U.S. national security or foreign policy.

(ii) Those applications destined for non-government end users will be reviewed on a case-by-case basis, unless one of the following apply, in which case they will be reviewed under a presumption of denial:

(A) The destination is identified in supplement no. 3 to this part; or

(B) There is a substantial risk that the items will be diverted or misused in a manner that would adversely impact U.S. national security or foreign policy.

NOTE 1 TO PARAGRAPH (b)(3): In reviewing applications under this paragraph, BIS will consider the following risks in the destination country or region: firearms trafficking or diversion, terrorism, corruption, human rights concerns and political violence, state fragility, organized crime or gang-related activity, and drug trafficking. BIS will also consider prior instances of diversion or misuse; the capabilities, potential uses, and lethality of the item; the nature of the end user; and other factors as appropriate.

(c) *Contract sanctity.* Contract sanctity date: August 22, 2000. Contract sanctity applies only to items controlled under ECCNs 0A982, 0A503, and 0E982 destined for countries not listed

## § 742.8

## 15 CFR Ch. VII (1–1–25 Edition)

in CC Column 1 of the Country Chart (supplement no. 1 to part 738 of the EAR).

(d) *U.S. controls.* In maintaining its controls on crime control and detection items, the United States considers international norms regarding human rights and the practices of other countries that control exports to promote the observance of human rights. However, these controls are not based on the decisions of any multinational export control regime and may differ from controls imposed by other countries.

[89 FR 34705, Apr. 30, 2024]

### § 742.8 Anti-terrorism: Iran.

(a) *License requirements.* (1) A license is required for anti-terrorism purposes to export or reexport to Iran any item for which AT column 1 or AT column 2 is indicated in the Country Chart column of the applicable ECCN or any item described in ECCNs 1C350, 1C355, 1C395, 2A994, 2D994 and 2E994. See paragraph (a)(5) of this section for controls maintained by the Department of the Treasury. See § 746.7 of the EAR for additional EAR license requirements that apply to Iran.

(2) [Reserved]

(3) The Secretary of State has designated Iran as a country whose Government has repeatedly provided support for acts of international terrorism.

(4) In support of U.S. foreign policy applicable to terrorism-supporting countries, the EAR imposes anti-terrorism license requirements on exports and reexports to Iran pursuant to sections 6(j) and 6(a) of the Export Administration Act.

(i) *Section 6(j) anti-terrorism controls.* Section 6(j) requirements apply to all exports and reexports destined to the police, military or other sensitive end-users of items listed on the Commerce Control List (supp. no. 1 to part 774 of the EAR) for which any listed reason for control in the applicable ECCN is NS (national security), CB (chemical or biological weapons proliferation), MT (missile proliferation), NP (nuclear weapons proliferation) or an Export Control Classification Number ending in “18” (military related items). BIS may not issue a license for a trans-

action subject to section 6(j) controls until 30 days after the notification described in Section 6(j)(2) of the Export Administration Act is delivered to the committees of Congress specified in that section. License applications for all other items controlled under section 6(a) are also reviewed to determine whether section 6(j) applies.

(ii) *Section 6(a) anti-terrorism controls.* Section 6(a) requirements apply to all exports and reexports regardless of the end user of items described in paragraph (a)(1) of this section.

(5) Exports and certain reexports to Iran are subject to a comprehensive embargo administered by the Department of the Treasury’s Office of Foreign Assets Control (OFAC). If you wish to export or reexport to Iran, the Government of Iran or any entity owned or controlled by that Government, you should review part 746 of the EAR and consult with OFAC. Please note that authorization from OFAC constitutes authorization under the EAR and no separate license or authorization from BIS is required.

(b) *Licensing policy.* (1) The Iran-Iraq Arms Non-Proliferation Act of October 23, 1992, requires BIS to deny licenses for items controlled to Iran for national security (section 5 of the 1979 EAA) or foreign policy reasons (section 6 of the 1979 EAA), absent contract sanctity or a Presidential waiver. License applications for which contract sanctity is established may be considered under policies in effect prior to the enactment of that Act. Otherwise, licenses for such items to Iran are subject to a general policy of denial.

(2) License applications for items controlled under section 6(a) of the EAA will also be reviewed to determine whether requirements of section 6(j) apply. Whenever the Secretary of State determines that an export or reexport could make a significant contribution to the military potential of Iran, including its military logistics capability, or could enhance Iran’s ability to support acts of international terrorism, the Secretaries of State and Commerce will notify the Congress 30 days prior to the issuance of a license.

(c) *Contract Sanctity.* Section 6(f) of the Export Administration Act requires that a report be delivered to

Congress before foreign policy based export controls are imposed, expanded or extended. Consistent with section 6(p) of the Export Administration Act, certain exports or reexports in fulfillment of contracts entered into before such delivery of the report applicable to a particular license requirement or licensing policy may be subject to the license requirements and licensing policy that were in force before the report was delivered. License applicants who wish to have their application considered under such pre-existing requirements or policy must include evidence of the pre-existing contract with their license applications.

(d) *U.S. controls.* Although the United States seeks cooperation from like-minded countries in maintaining anti-terrorism controls, at this time these controls are maintained only by the United States.

[61 FR 12786, Mar. 25, 1996, as amended at 63 FR 42228, Aug. 7, 1998; 64 FR 27142, May 18, 1999; 65 FR 34075, May 26, 2000; 66 FR 36682, July 12, 2001; 68 FR 16212, Apr. 3, 2003; 74 FR 2356, Jan. 15, 2009]

#### § 742.9 Anti-terrorism: Syria.

(a) *License requirements.* (1) If AT Column 1 of the Country Chart (supplement no. 1 to part 738 of the EAR) is indicated in the appropriate ECCN, a license is required for export and reexport to Syria for anti-terrorism purposes.

(2) The Secretary of State has designated Syria as a country whose government has repeatedly provided support for acts of international terrorism.

(3) In support of U.S. foreign policy against terrorism, BIS maintains two types of anti-terrorism controls on the export and reexport to Syria of items described in supplement no. 2 to part 742.

(i) Items described in paragraphs (c)(1) through (c)(5) of supplement no. 2 to part 742, if destined to military, police, intelligence or other end-users in Syria, are controlled under section 6(j) of the Export Administration Act, as amended (EAA).

(ii) Items listed in paragraphs (c)(1) through (c)(5) of supplement no. 2 to part 742 destined to other end-users in Syria, as well as items to all end-users

listed in (c)(6) through (c)(8), (c)(10) through (c)(14), (c)(16) through (c)(19), and (c)(22) through (c)(44) of supplement no. 2 to part 742, are controlled to Syria under section 6(a) of the EAA.

(b) *Licensing policy.* (1) Applications for export and reexport to all end-users in Syria of the following items will generally be denied:

(i) Items that are controlled for chemical and biological weapons proliferation reasons to any destination. These are items that contain CB Column 1, CB Column 2, or CB Column 3 in the Country Chart column of the "License Requirements" section of an ECCN on the CCL.

(ii) Military-related items controlled for national security reasons to any destination. These are items that contain NS Column 1 in the Country Chart column of the "License Requirements" section in an ECCN on the CCL and are controlled by equipment or material entries ending in the number "18."

(iii) Items that are controlled for missile proliferation reasons to any destination. These are items that have an MT Column 1 in the Country Chart column of the "License Requirements" section of an ECCN on the CCL.

(iv) All aircraft (powered and unpowered), helicopters, engines, and related spare parts and components, except that parts and components intended to ensure the safety of civil aviation and the safe operation of commercial passenger aircraft will be reviewed on a case-by-case basis, with a presumption of approval. These are items controlled to any destination for national security and missile technology reasons and items controlled to Syria for anti-terrorism purposes. Such items contain an NS Column 1, NS Column 2, MT Column 1, or AT Column 1 in the Country Chart column of the "License Requirements" section of an ECCN on the CCL. Note that, consistent with the general rule that applies to computing U.S. parts and components content incorporated into foreign made products, all aircraft-related items that require a license to Syria will be included as controlled U.S. content, except for ECCNs 6A998, 7A994, and 9A991.d, for purposes of such licensing requirements.



(v) Cryptographic, cryptanalytic, and cryptologic items controlled to any destination for national security reasons. Such items contain an AT Column 1 and an NS Column 1 or NS Column 2 in the Country Chart column of the “License Requirements” section of an ECCN on the CCL.

(vi) Explosives detection equipment controlled under ECCN 2A983.

(vii) “Software” (ECCN 2D983) specially designed or modified for the “development”, “production” or “use” of explosives detection equipment controlled by 2A983.

(viii) “Technology” (ECCN 2E983) specially designed or modified for the “development”, “production” or “use” of explosives detection equipment controlled by 2A983.

(ix) Commercial charges and devices controlled under ECCN 1C992.

(x) Ammonium nitrate, including certain fertilizers containing ammonium nitrate, controlled under ECCN 1C997.

(xi) Technology for the production of Chemical Weapons Convention (CWC) Schedule 2 and 3 chemicals controlled under ECCN 1E355.

(xii) Concealed object detection equipment controlled under ECCN 2A984.

(xiii) “Software” (ECCN 2D984) “required” for the “development”, “production” or “use” of concealed object detection equipment controlled by 2A984.

(xiv) “Technology” (ECCN 2E984) “required” for the “development”, “production” or “use” of concealed object detection equipment controlled by 2A984, or the “development” of “software” controlled by 2D984.

(2) Applications for export and reexport to Syria of all other items described in paragraph (a) of this section, and not described by paragraph (b)(1) of this section, will generally be denied if the export or reexport is destined to a military end-user or for military end-use. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(3) Notwithstanding the provisions of paragraphs (b)(1) and (b)(2), of this section, applications for Syria will be considered on a case-by-case basis if:

(i) The transaction involves the reexport to Syria of items where Syria was not the intended ultimate destination at the time of original export from the United States, provided that the exports from the U.S. occurred prior to the applicable contract sanctity date (or, where the contract sanctity date is December 16, 1986, prior to June 18, 1987).

(ii) The U.S. content of foreign-produced commodities is 20% or less by value; or

(iii) The commodities are medical items.

NOTE TO PARAGRAPH (b) OF THIS SECTION: Applicants who wish any of the factors described in paragraph (b) of this section to be considered in reviewing their license applications must submit adequate documentation demonstrating the value of the U.S. content, the specifications and medical use of the equipment, or the date of export from the United States.

(4) License applications for items reviewed under 6(a) controls will also be reviewed to determine the applicability of 6(j) controls to the transaction. When it is determined that an export or reexport could make a significant contribution to the military potential of Syria, including its military logistics capability, or could enhance Syria’s ability to support acts of international terrorism, the Secretaries of State and Commerce will notify the Congress 30 days prior to issuance of a license.

(c) *Contract sanctity.* Contract sanctity dates and related licensing policies for Syria are set forth in supplement no. 2 to part 742. Applicants who wish a pre-existing contract to be considered must submit sufficient documentation to establish the existence of a contract.

(d) *U.S. controls.* Although the United States seeks cooperation from like-minded countries in maintaining anti-terrorism controls, at this time these controls are maintained only by the United States.

(e) Section 746.9 (Syria) of the EAR sets forth the export and reexport controls for Syria. Section 746.9 supersedes

the provisions of paragraphs (a) through (d) of this section.

[61 FR 12786, Mar. 25, 1996, as amended at 62 FR 25459, May 9, 1997; 63 FR 42228, Aug. 7, 1998; 64 FR 27142, May 18, 1999; 64 FR 47667, Sept. 1, 1999; 64 FR 50248, Sept. 16, 1999; 66 FR 36682, July 12, 2001; 68 FR 16212, Apr. 3, 2003; 71 FR 9442, Feb. 24, 2006; 75 FR 14340, Mar. 25, 2010; 76 FR 77117, Dec. 12, 2011; 78 FR 13469, Feb. 28, 2013]

#### § 742.10 [Reserved]

#### § 742.11 Specially designed implements of torture, including thumbscrews, thumbcuffs, handcuffs, spiked batons, and parts and accessories, n.e.s.

(a) *License Requirements.* In support of U.S. foreign policy to promote the observance of human rights throughout the world, a license is required to export any commodity controlled by ECCN 0A983 to all destinations including Australia, Canada, and the United Kingdom.

(b) *Licensing policy.* Applications for such licenses will generally be denied to all destinations.

(c) *Contract sanctity.* The contract sanctity date is November 9, 1995. Contract sanctity will be a factor in considering only applications for export to the NATO countries, Japan, Australia, and New Zealand.

(d) *U.S. controls.* In maintaining its controls on specially designed instruments of torture the United States considers international norms regarding human rights and the practices of other countries that control exports to promote the observance of human rights. However, these controls are not based on the decisions of any multinational export control regime and may differ from controls imposed by other countries.

[61 FR 12786, Mar. 25, 1996, as amended at 72 FR 9849, Mar. 6, 2007; 75 FR 41082, July 15, 2010; 89 FR 28600, Apr. 19, 2024]

#### § 742.12 [Reserved]

#### § 742.13 Communications intercepting devices; software and technology for communications intercepting devices.

(a) *License requirement.* (1) In support of U.S. foreign policy to prohibit the export of items that may be used for

the surreptitious interception of wire, oral, or electronic communications, a license is required for all destinations, including Australia, Canada, and the United Kingdom, for ECCNs having an “SL” under the “Reason for Control” paragraph. These items include any electronic, mechanical, or other device primarily useful for the surreptitious interception of wire, oral, or electronic communications (ECCNs 5A001.f.1 and 5A980); and for related “software” primarily useful for the surreptitious interception of wire, oral, or electronic communications (ECCN 5D001.c and 5D980.a); and “software” primarily useful for the “development”, “production”, or “use” of devices controlled under ECCNs 5A001.f.1 and 5A980 (ECCNs 5D001.a and 5D980.b); and for “technology” primarily useful for the “development”, “production”, or “use” of items controlled by ECCNs 5A001.f.1, 5D001.a (for 5A001.f.1), 5A980 and 5D980 (ECCNs 5E001.a and 5E980); and for “software” primarily useful to support such ECCN 5E001.a “development”, “production”, or “use” “technology” for 5A001.f.1 equipment and certain 5D001.a “software” (ECCN 5D001.b). These licensing requirements do not supersede the requirements contained in the Omnibus Crime Control and Safe Streets Act of 1968, as amended (18 U.S.C. 2512). This license requirement is not reflected on the Commerce Country Chart (supplement no. 1 to part 738 of the EAR).

(2) “Communications intercepting devices” are electronic, mechanical, or other devices that can be used for interception of wire, oral, or electronic communications if their design renders them primarily useful for surreptitious listening even though they may also have innocent uses. A device is not restricted merely because it is small or may be adapted to wiretapping or eavesdropping. Some examples of devices to which these restrictions apply are: the martini olive transmitter; the infinity transmitter; the spike mike; and the disguised microphone appearing as a wristwatch, cufflink, or cigarette pack; etc. The restrictions do not apply to devices such as the parabolic microphone or other directional microphones ordinarily used by broadcasters at sports events, since these devices

are not primarily useful for surreptitious listening.

(b) *Licensing policy.* (1) License applications, except for those applications for which a license is required for both SL and AT reasons, will generally be approved for exports or reexports requiring a license for SL reasons when the exporter or reexporter is:

(i) A provider of wire or electronic communication services or an officer, agent, or employee of, or person under contract with such a provider, in the normal course of the business of providing that wire or electronic communication service; or

(ii) An officer, agent, or employee of, or a person under contract with, the United States, one of the 50 States, or a political subdivision thereof, when engaged in the normal course of government activities.

NOTE TO PARAGRAPH (b)(1): For SL reasons, license applications will generally be denied to countries that are subject to controls for AT reasons.

NOTE TO PARAGRAPH (b)(1)(i): The normal course of the business of providing a wire or electronic communications service includes any activity which is a necessary incident to the rendition of the service or to the protection of the rights and property of the provider of that service.

(2) Other license applications will generally be denied for exports or reexports requiring a license for SL reasons.

(c) *Contract sanctity.* Contract sanctity provisions are not available for license applications involving exports and reexports of communications interception devices.

(d) *U.S. controls.* Controls on items classified under ECCNs 5A980, 5D980, and 5E980 are maintained by the United States government for foreign policy purposes.

[61 FR 12786, Mar. 25, 1996, as amended at 71 FR 67036, Nov. 20, 2006; 77 FR 39368, July 2, 2012; 78 FR 37382, June 20, 2013; 89 FR 28600, Apr. 19, 2024]

**§ 742.14 Significant items: hot section technology for the development, production or overhaul of commercial aircraft engines, components, and systems.**

(a) *License requirement.* Licenses are required for all destinations, except Australia, Canada, and the United

Kingdom, for ECCNs having an “SI” under the “Reason for Control” paragraph. These items include hot section technology for the development, production or overhaul of commercial aircraft engines controlled under ECCN 9E003.a.1 through a.6, a.8, .h, .i, and .l, and related controls.

(b) *Licensing policy.* Pursuant to section 6 of the Export Administration Act of 1979, as amended, foreign policy controls apply to technology required for the development, production or overhaul of commercial aircraft engines controlled by ECCN 9E003.a.1 through a.6, a.8, .h, .i, and .l, and related controls. These controls supplement the national security controls that apply to these items. Applications for export and reexport to all destinations will be reviewed on a case-by-case basis to determine whether the export or reexport is consistent with U.S. national security and foreign policy interests. The following factors are among those that will be considered to determine what action will be taken on license applications:

- (1) The country of destination;
- (2) The ultimate end-user(s);
- (3) The technology involved;
- (4) The specific nature of the end-use(s); and
- (5) The types of assurance against unauthorized use or diversion that are given in a particular case.

(c) *Contract sanctity.* Contract sanctity provisions are not available for license applications reviewed under this § 742.14.

(d) [Reserved]

[64 FR 13339, Mar. 18, 1999, as amended at 75 FR 36515, June 28, 2010; 75 FR 54276, Sept. 7, 2010; 76 FR 29619, May 20, 2011; 88 FR 12112, Feb. 24, 2023; 88 FR 71935, Oct. 18, 2023; 89 FR 28600, Apr. 19, 2024]

**§ 742.15 Encryption items.**

Encryption items can be used to maintain the secrecy of information, and thereby may be used by persons abroad to harm U.S. national security, foreign policy and law enforcement interests. The United States has a critical interest in ensuring that important and sensitive information of the public and private sector is protected. Consistent with our international obligations as a member of the Wassenaar

Arrangement, the United States has a responsibility to maintain control over the export and reexport of encryption items. As the President indicated in Executive Order 13026 and in his Memorandum of November 15, 1996, exports and reexports of encryption software, like exports and reexports of encryption hardware, are controlled because of this functional capacity to encrypt information, and not because of any informational or theoretical value that such software may reflect, contain, or represent, or that its export or reexport may convey to others abroad. For this reason, export controls on encryption software are distinguished from controls on other software regulated under the EAR.

(a) *Licensing requirements and policy—*

(1) *Licensing requirements.* A license is required to export or reexport encryption items (“EI”) classified under ECCN 5A002, 5A004, 5D002.a, .c.1 or .d (for equipment and “software” in ECCNs 5A002 or 5A004, 5D002.c.1); or 5E002 for “technology” for the “development,” “production,” or “use” of commodities or “software” controlled for EI reasons in ECCNs 5A002, 5A004 or 5D002, and “technology” classified under 5E002.b to all destinations, except Canada. Refer to part 740 of the EAR, for license exceptions that apply to certain encryption items, and to § 772.1 of the EAR for definitions of encryption items and terms. Most encryption items may be exported under the provisions of License Exception ENC set forth in § 740.17 of the EAR. Following classification or self-classification, items that meet the criteria of Note 3 to Category 5—Part 2 of the Commerce Control List (the “mass market” note), are classified under ECCN 5A992 or 5D992 and are no longer subject to this Section (see § 740.17 of the EAR). Before submitting a license application, please review License Exception ENC to determine whether this license exception is available for your item or transaction. For exports, reexports, or transfers (in-country) of encryption items that are not eligible for a license exception, you must submit an application to obtain authorization under a license or an Encryption Licensing Arrangement.

(2) *Licensing policy.* Applications will be reviewed on a case-by-case basis by BIS, in conjunction with other agencies, to determine whether the export, reexport, or transfer (in-country) is consistent with U.S. national security and foreign policy interests. Encryption Licensing Arrangements (ELAs) may be authorized for exports, reexports, or transfers (in-country) of unlimited quantities of encryption commodities and software described in § 740.17 (b)(2)(i)(A) that have been classified by BIS to “more sensitive government end users,” in all destinations, except countries listed in Country Groups E:1 or E:2 of supplement no. 1 to part 740. ELAs for “more sensitive government end users” may be authorized for encryption commodities and software described in § 740.17(b)(2)(ii) through (iv) under certain circumstances. ELAs are valid for four years and may require pre-shipment notification. Applicants seeking authorization for Encryption Licensing Arrangements must specify the sales territory on their license applications.

(b) *Publicly available encryption source code—*(1) *Scope and eligibility.* Subject to the notification requirements of paragraph (b)(2) of this section, publicly available (see § 734.3(b)(3) of the EAR) encryption source code classified under ECCN 5D002 is not subject to the EAR. Such source code is publicly available even if it is subject to an express agreement for the payment of a licensing fee or royalty for commercial production or sale of any product developed using the source code.

(2) *Notification requirement for “non-standard cryptography.”* For publicly available encryption source code classified under ECCN 5D002 that provides or performs “non-standard cryptography” as defined in part 772 of the EAR, you must notify BIS and the ENC Encryption Request Coordinator via email of the internet location (e.g., URL or internet address) of the source code or provide each of them a copy of the publicly available encryption source code. If you update or modify the source code, you must also provide additional copies to each of them each time the cryptographic functionality of the source code is updated or modified. In addition, if you posted the

source code on the internet, you must notify BIS and the ENC Encryption Request Coordinator each time the internet location is changed, but you are not required to notify them of updates or modifications made to the encryption source code at the previously notified location. In all instances, submit the notification or copy to [crypt@bis.doc.gov](mailto:crypt@bis.doc.gov) and to [enc@nsa.gov](mailto:enc@nsa.gov).

[73 FR 57507, Oct. 3, 2008, as amended at 75 FR 36494, June 25, 2010; 75 FR 43821, July 27, 2010; 76 FR 1063, Jan. 7, 2011; 76 FR 29619, May 20, 2011; 78 FR 13469, Feb. 28, 2013; 78 FR 37383, June 20, 2013; 81 FR 64673, Sept. 20, 2016; 86 FR 16488, Mar. 29, 2021; 88 FR 73494, Oct. 25, 2023; 89 FR 23885, Apr. 4, 2024]

#### § 742.16 [Reserved]

#### § 742.17 Exports of firearms to OAS member countries.

(a) *License requirements.* BIS maintains a licensing system for the export of firearms and related items to all OAS member countries. This action is based on the Organization of American States (OAS) Model Regulations for the Control of the International Movement of Firearms, their Parts and Components and Munitions (OAS Model Regulations) which were developed to assist OAS member countries to implement the Inter-American Convention Against the Illicit Manufacturing of and Trafficking in Firearms, Ammunition, Explosives, and Other Related Materials (Firearms Convention).<sup>2</sup> Items subject to these controls are identified by “FC Column 1” in the “License Requirements” section of their Export Control Classification Number (ECCN) on the Commerce Control List (CCL). If “FC Column 1” of the Commerce Country Chart (supplement no. 1 to part 738 of the EAR) is indicated for a particular country, a license is required for export to that destination. Licenses will generally be issued on a Firearms Convention (FC) Import Certificate or equivalent official document, satisfactory to BIS, issued by the government of the importing OAS member country.

(b) *Licensing policy.* Applications will be reviewed on a case-by-case basis

when supported by an FC Import Certificate or equivalent official document issued by the government of the importing country. However, there is a policy of denial for applications to export items linked to such activities as drug trafficking, terrorism, and transnational organized crime.

(c) *Contract sanctity.* Contract sanctity provisions are not available for license applications under this § 742.17.

(d) *OAS Model Regulations.* The OAS Model Regulations on which regulations are based are designed by OAS member countries to combat illicit manufacturing of and trafficking in firearms, ammunition, explosives, and other related materials in North and South America because of their links to such activities as drug trafficking, terrorism, and transnational organized crime.

(e) *OAS member countries to which firearms controls under this section apply.* The OAS member countries include: Antigua and Barbuda, Argentina, the Bahamas, Barbados, Belize, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Dominica, Dominican Republic, Ecuador, El Salvador, Grenada, Guatemala, Guyana, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Panama, Paraguay, Peru, St. Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Suriname, Trinidad and Tobago, the United States, Uruguay, and Venezuela.

(f) *Items/Commodities.* Items requiring a license under this section are ECCNs 0A501 (except 0A501.y), 0A502, 0A504 (except 0A504.f), 0A505 (except 0A505.d), 0A506, 0A507, 0A508, and 0A509. (See supplement no. 1 to part 774 of the EAR).

(g) *Validity period for licenses.* Although licenses generally will be valid for a period of four years, your ability to ship items that require an FC Import Certificate or equivalent official document under this section may be affected by the validity of the FC Import Certificate or equivalent official document (see § 748.12(d)(3) of the EAR).

[64 FR 17973, Apr. 13, 1999, as amended at 78 FR 13469, Feb. 28, 2013; 80 FR 13217, Mar. 13, 2015; 85 FR 4176, Jan. 23, 2020; 86 FR 46594, Aug. 19, 2021; 89 FR 34705, Apr. 30, 2024]

<sup>2</sup>Status of Convention as of April 13, 1999 had not entered into force.

**§ 742.18 Chemical Weapons Convention (CWC or Convention).**

States that are parties to the Convention on the Prohibition of the Development, Production, Stockpiling and Use of Chemical Weapons and on Their Destruction, also known as the Chemical Weapons Convention (CWC or Convention), undertake never to develop, produce, acquire, stockpile, transfer, or use chemical weapons. As a State Party to the Convention, the United States is subjecting certain toxic chemicals and their precursors listed in Schedules within the Convention to trade restrictions. Trade restrictions include: a prohibition on the export of Schedule 1 chemicals to States not Party to the CWC; a prohibition on the reexport of Schedule 1 chemicals to all destinations (both States Parties to the CWC and States not Party to the CWC); license requirements for the export of Schedule 1 chemicals to all States Parties; a prohibition on the export of Schedule 2 chemicals to States not Party to the CWC; and an End-Use Certificate requirement for exports of Schedule 3 chemicals to States not Party to the CWC. Exports of CWC chemicals that do not require a license for CW reasons (e.g., exports and reexports of Schedule 2 and Schedule 3 chemicals to States Parties to the CWC) may require a license for other reasons set forth in the EAR. (See, in particular, the license requirements in § 742.2 of the EAR that apply to exports and reexports of precursor chemicals controlled by ECCN 1C350, for CB reasons. Also note the end-use and end-user restrictions in part 744 of the EAR and the restrictions that apply to embargoed countries in part 746 of the EAR.)

(a) *License requirements—(1) Schedule 1 chemicals and mixtures controlled under ECCN 1C351.* A license is required for CW reasons to export or reexport Schedule 1 chemicals controlled under ECCN 1C351.d.15 or .d.16 to all destinations including Australia, Canada, and the United Kingdom. CW applies to 1C351.d.15 for ricin in the form of Ricinus Communis AgglutininII (RCA<sub>II</sub>), which is also known as ricin D or Ricinus Communis LectinIII (RCL<sub>III</sub>), and Ricinus Communis LectinIV (RCL<sub>IV</sub>), which is also known

as ricin E. CW applies to 1C351.d.16 for saxitoxin identified by C.A.S. #35523-89-8. (Note that the advance notification procedures and annual reporting requirements described in § 745.1 of the EAR also apply to exports of Schedule 1 chemicals.)

(2) *Schedule 2 and 3 chemicals and mixtures controlled under ECCN 1C350, ECCN 1C355, or ECCN 1C395—(i) States Parties to the CWC.* Neither a license nor an End-Use Certificate is required for CW reasons to export or reexport Schedule 2 or 3 chemicals and mixtures controlled under ECCN 1C350, ECCN 1C355, or ECCN 1C395 to States Parties to the CWC (destinations listed in supplement no. 2 to part 745 of the EAR).

(ii) *States not Party to the CWC—(A) Schedule 2 chemicals.* A license is required for CW reasons to export or reexport Schedule 2 chemicals and mixtures controlled under ECCN 1C350.b, ECCN 1C355.a, or ECCN 1C395 to States not Party to the CWC (destinations *not* listed in supplement no. 2 to part 745 of the EAR).

(B) *Schedule 3 chemicals—(1) Exports.* A license is required for CW reasons to export Schedule 3 chemicals and mixtures controlled under ECCN 1C350.c, ECCN 1C355.b, or ECCN 1C395.b to States not Party to the CWC (destinations *not* listed in supplement no. 2 to part 745 of the EAR), *unless* the exporter obtains from the consignee an End-Use Certificate (issued by the government of the importing country) prior to exporting the Schedule 3 chemicals and submits it to BIS in accordance with the procedures described in § 745.2 of the EAR. Note, however, that obtaining an End-Use Certificate does not relieve the exporter from the responsibility of complying with other license requirements set forth elsewhere in the EAR.

(2) *Reexports—(i) Reexports from States Parties to the CWC.* Neither a license nor an End-Use Certificate is required for CW reasons to reexport Schedule 3 chemicals and mixtures controlled under ECCN 1C350.c, ECCN 1C355.b, or ECCN 1C395.b from States Parties to the CWC (destinations listed in supplement no. 2 to part 745 of the EAR) to States not Party to the CWC. However, a license may be required for other reasons set forth elsewhere in the EAR. In

addition, reexports of Schedule 3 chemicals may be subject to an End-Use Certificate requirement by governments of other countries when the chemicals are destined for States not Party to the CWC.

(ii) *Reexports from States not Party to the CWC.* A license is required for CW reasons to reexport Schedule 3 chemicals and mixtures controlled under ECCN 1C350.c, ECCN 1C355.b, or ECCN 1C395.b from a State not Party to the CWC (a destination *not* listed in supplement no. 2 to part 745 of the EAR) to any other State not Party to the CWC.

(C) *Technology controlled under ECCN 1E355.* A license is required for CW reasons to export or reexport technology controlled under ECCN 1E355 to all States not Party to the CWC (destinations *not* listed in supplement no. 2 to part 745 of the EAR), except for Israel and Taiwan.

(b) *Licensing Policy*—(1) *Schedule 1 chemicals and mixtures*—

(i) *Exports to States Parties to the CWC.* Applications to export Schedule 1 Chemicals controlled under ECCN 1C351.d.15 or .d.16 to States Parties to the CWC (destinations listed in supplement no. 2 to part 745 of the EAR) generally will be denied, unless all of the following conditions are met:

(A) The chemicals are destined only for purposes not prohibited under the CWC (*i.e.*, research, medical, pharmaceutical, or protective purposes);

(B) The types and quantities of chemicals are strictly limited to those that can be justified for those purposes;

(C) The Schedule 1 chemicals were not previously imported into the United States (this does not apply to Schedule 1 chemicals imported into the United States prior to April 29, 1997, or imported into the United States directly from the same State Party to which they now are to be returned, *i.e.*, exported); and

(D) The aggregate amount of Schedule 1 chemicals in the country of destination at any given time is equal to or less than one metric ton *and* receipt of the proposed export will *not* cause the country of destination to acquire

or to have acquired one metric ton or more of Schedule 1 chemicals in any calendar year.

(ii) *Exports to States not party to the CWC.* Applications to export Schedule 1 chemicals controlled under ECCN 1C351.d.15 or .d.16 to States not Party to the CWC (destinations not listed in supplement no. 2 to part 745 of the EAR) generally will be denied, consistent with U.S. obligations under the CWC to prohibit exports of these chemicals to States not Party to the CWC.

(iii) *Reexports.* Applications to reexport Schedule 1 chemicals controlled under ECCN 1C351.d.15 or .d.16 generally will be denied to all destinations (including both States Parties to the CWC and States not Party to the CWC).

(2) *Schedule 2 chemicals and mixtures.* Applications to export or reexport Schedule 2 chemicals and mixtures controlled under ECCN 1C350.b, ECCN 1C355.a, or ECCN 1C395 to States not Party to the CWC (destinations *not* listed in supplement no. 2 to part 745 of the EAR) generally will be denied, consistent with U.S. obligations under the CWC to prohibit exports of these chemicals to States not Party to the CWC.

(3) *Schedule 3 chemicals and mixtures*—

(i) *Exports.* Applications to export Schedule 3 chemicals and mixtures controlled under ECCN 1C350.c, ECCN 1C355.b, or ECCN 1C395.b to States not Party to the CWC (destinations *not* listed in supplement no. 2 to part 745 of the EAR) generally will be denied.

(ii) *Reexports from States not Party to the CWC.* Applications to reexport Schedule 3 chemicals and mixtures controlled under ECCN 1C350.c, ECCN 1C355.b, or ECCN 1C395.b from a State not Party to the CWC (a destination *not* listed in supplement no. 2 to part 745 of the EAR) to any other State not Party to the CWC generally will be denied.

(4) *Technology controlled under ECCN 1E355.* Exports and reexports of technology controlled under ECCN 1E355 will be reviewed on a case-by-case basis.

(c) *Contract sanctity.* Contract sanctity provisions are not available for license applications reviewed under this section.

[67 FR 37982, May 31, 2002, as amended at 69 FR 42865, July 19, 2004; 76 FR 56101, Sept. 12, 2011; 88 FR 2511, Jan. 17, 2023; 89 FR 28600, Apr. 19, 2024; 89 FR 104412, Dec. 23, 2024]

#### § 742.19 Anti-terrorism: North Korea.

(a) *License requirements.* (1) All items on the Commerce Control List (CCL) (i.e., with a designation other than EAR99) that are controlled for anti-terrorism reasons require a license for export or reexport to North Korea. This includes all items on the CCL containing AT column 1 or AT column 2 in the Country Chart column of the License requirements section of an ECCN; and ECCNs 0A505.c, 0A988, 0A999, 0B505.c, 0B999, 0D999, 1A999, 1B999, 1C995, 1C999, 1D999, 2A994, 2A999, 2B999, 2D994, 2E994, 3A999, and 6A999. See also part 746 of the EAR.

(2) The Secretary of State has designated North Korea as a country whose Government has repeatedly provided support for acts of international terrorism.

(3) In support of U.S. foreign policy on terrorism-supporting countries, BIS maintains two types of anti-terrorism controls on the export and reexport of items described in supplement 2 to part 742.

(i) Items described in paragraphs (c)(1) through (c)(5) of supplement so. 2 to part 742 are controlled under section 6(j) of the Export Administration Act, as amended (EAA), if destined to military, police, intelligence or other sensitive end-users.

(ii) Items described in paragraphs (c)(1) through (c)(5) of supplement no. 2 to part 742 destined to non-sensitive end-users, as well as items described in paragraph (c)(6) through (c)(45) to all end-users, are controlled to North Korea under section 6(a) of the EAA. License applications for items reviewed under section 6(a) controls will also be reviewed to determine the applicability of section 6(j) controls to the transaction. When it is determined that an export or reexport could make a significant contribution to the military potential of North Korea, including its military logistics capability, or could

enhance North Korea's ability to support acts of international terrorism, the Secretaries of State and Commerce will notify the Congress 30 days prior to issuance of a license. (See supplement no. 2 to part 742 for more information on items controlled under sections 6(a) and 6(j) of the EAA and § 750.6 of the EAR for procedures for processing license applications for items controlled under EAA section 6(j).)

(b) *Licensing policy.* (1) Applications for export and reexport to all end-users in North Korea of the following items will generally be denied:

(i) Items controlled for chemical and biological weapons proliferation reasons to any destination. These items contain CB Column 1, CB Column 2, or CB Column 3 in the Country Chart column of the "License Requirements" section of an ECCN on the CCL.

(ii) Items controlled for missile proliferation reasons to any destination. These items have an MT Column 1 in the Country Chart column of the "License Requirements" section of an ECCN on the CCL.

(iii) Items controlled for nuclear weapons proliferation reasons to any destination. These items contain NP Column 1 or NP Column 2 in the Country Chart column of the "License Requirements" section of an ECCN on the CCL.

(iv) Items controlled for national security reasons to any destination. These items contain NS Column 1 or NS Column 2 in the Country Chart column of the "License Requirements" section of an ECCN on the CCL.

(v) Military-related items controlled for national security reasons to any destination. These items contain NS Column 1 in the Country Chart column of the "License Requirements" section in an ECCN on the CCL *and* are controlled by equipment or material entries ending in the number "18."

(vi) All aircraft (powered and unpowered), helicopters, engines, and related spare parts and components. Such items contain an NS Column 1, NS Column 2, MT Column 1, or AT Column 1 in the Country Chart column of the "License Requirements" section of an ECCN on the CCL. (Not including parts and components for safety-of-flight, which will be reviewed on a



case-by-case basis in accordance with paragraph (b)(2) of this section).

(vii) Cryptographic, cryptanalytic, and crypto-logic items controlled any destination. These are items that contain an NS Column 1, NS Column 2, AT Column 1 or AT Column 2 in the Country Chart column of the “License Requirements” section of an ECCN on the CCL.

(viii) Submersible systems controlled under ECCN 8A992.

(ix) Scuba gear and related equipment controlled under ECCN 8A992.

(x) Pressurized aircraft breathing equipment controlled under ECCN 9A991.

(xi) Explosives detection equipment controlled under ECCN 2A983.

(xii) “Software” (ECCN 2D983) specially designed or modified for the “development”, “production” or “use” of explosives detection equipment controlled by 2A983.

(xiii) “Technology” (ECCN 2E983) specially designed or modified for the “development”, “production” or “use” of explosives detection equipment controlled by 2A983.

(xiv) Commercial charges and devices controlled under ECCN 1C992.

(xv) Computer numerically controlled machine tools controlled under ECCN 2B991.

(xvi) Aircraft skin and spar milling machines controlled under ECCN 2B991.

(xvii) Semiconductor manufacturing equipment controlled under ECCN 3B991.

(xviii) Digital computers with an Adjusted Peak Performance (APP) exceeding 0.0004 Weighted TeraFLOPS (WT).

(xix) Microprocessors with a processing speed of 0.5 GFLOPS or above .

(xx) Ammonium nitrate, including certain fertilizers containing ammonium nitrate, controlled under ECCN 1C997.

(xxi) Technology for the production of Chemical Weapons Convention (CWC) Schedule 2 and 3 Chemicals controlled under ECCN 1E355.

(xxii) Concealed object detection equipment controlled under ECCN 2A984.

(xxiii) “Software” (ECCN 2D984) “required” for the “development”, “production” or “use” of concealed object

detection equipment controlled by 2A984.

(xxiv) “Technology” (ECCN 2E984) “required” for the “development”, “production” or “use” of concealed object detection equipment controlled by 2A984, or the “development” of “software” controlled by 2D984.

(2) Applications for export and reexport to North Korea of all other items described in paragraph (a) of this section, and not described by paragraph (b)(1) of this section, will generally be denied if the export or reexport is destined to a military end-user or for military end-use. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis. Applications to export or reexport humanitarian items intended for the benefit of the North Korean people; items in support of United Nations humanitarian efforts; and agricultural commodities and medical devices will generally be approved.

(3) Applications for export and reexport to North Korea of items described in paragraphs (c)(12), (c)(24), (c)(34), (c)(37), (c)(38), and (c)(45) of supplement no. 2 to part 742 will generally be denied if the export or reexport is destined to nuclear end-users or nuclear end-uses. Applications for non-nuclear end-users or for non-nuclear end-uses, excluding items described in (c)(24)(iv)(A) of supplement no. 2 to part 742, will be considered on a case-by-case basis.

(4) License applications for items reviewed under section 6(a) controls will also be reviewed to determine the applicability of section 6(j) controls to the transaction. When it is determined that an export or reexport could make a significant contribution to the military potential of North Korea, including its military logistics capability, or could enhance North Korea’s ability to support acts of international terrorism, the Secretaries of State and Commerce will notify the Congress 30 days prior to issuance of a license.

[65 FR 38151, June 19, 2000, as amended at 66 FR 36682, July 12, 2001; 68 FR 16212, Apr. 3, 2003; 70 FR 54628, Sept. 16, 2005; 71 FR 20885, Apr. 24, 2006; 72 FR 3725, Jan. 26, 2007; 72 FR 62532, Nov. 5, 2007; 75 FR 14340, Mar. 25, 2010; 85 FR 4176, Jan. 23, 2020]

SUPPLEMENT NO. 1 TO PART 742—NON-  
PROLIFERATION OF CHEMICAL AND BI-  
OLOGICAL WEAPONS

NOTE: Exports and reexports of items in performance of contracts entered into before the applicable contract sanctity date(s) will be eligible for review on a case-by-case basis or other applicable licensing policies that were in effect prior to the contract sanctity date. The contract sanctity dates set forth in this supplement are for the guidance of exporters. Contract sanctity dates are established in the course of the imposition of foreign policy controls on specific items and are the relevant dates for the purpose of licensing determinations involving such items. If you believe that a specific contract sanctity date is applicable to your transaction, you should include all relevant information with your license application.

(1) The contract sanctity date for exports to Iran or Syria of dimethyl methylphosphonate, phosphorous oxychloride, thiodiglycol, dimethylamine hydrochloride, dimethylamine, ethylene chlorohydrin (2-chloroethanol), and potassium fluoride is April 28, 1986.

(2) The contract sanctity date for exports to Iran or Syria of dimethyl phosphite (dimethyl hydrogen phosphite), methyl phosphonyldichloride, 3-quinuclidinol, N,N-diisopropylamino-ethane-2-thiol, N,N-diisopropylaminoethyl-2-chloride, 3-hydroxy-1-methylpiperidine, trimethyl phosphite, phosphorous trichloride, and thionyl chloride is July 6, 1987.

(3) The contract sanctity date for exports to Iran or Syria of items in ECCNs 1C351, 1C353 and 1C354 is February 22, 1989.

(4) The contract sanctity date for exports to Iran of dimethyl methylphosphonate, phosphorous oxychloride, and thiodiglycol is February 22, 1989.

(5) The contract sanctity date for exports to Iran or Syria of potassium hydrogen fluoride, ammonium hydrogen fluoride, sodium fluoride, sodium bifluoride, phosphorous pentasulfide, sodium cyanide, triethanolamine, diisopropylamine, sodium sulfide, and N,N-diethylethanolamine is December 12, 1989.

(6) The contract sanctity date for exports to all destinations (except Iran or Syria) of phosphorous trichloride, trimethyl phosphite, and thionyl chloride is December 12, 1989. For exports to Iran or Syria, paragraph (2) of this supplement applies.

(7) The contract sanctity date for exports to all destinations (except Iran or Syria) of 2-chloroethanol and triethanolamine is January 15, 1991. For exports of 2-chloroethanol to Iran or Syria, paragraph (1) of this Supplement applies. For exports of triethanolamine to Iran or Syria, paragraph (5) of this Supplement applies.

(8) The contract sanctity date for exports to all destinations (except Iran or Syria) of chemicals controlled by ECCN 1C350 is March 7, 1991, except for applications to export the following chemicals: 2-chloroethanol, dimethyl methylphosphonate, dimethyl phosphite (dimethyl hydrogen phosphite), phosphorous oxychloride, phosphorous trichloride, thiodiglycol, thionyl chloride triethanolamine, and trimethyl phosphite. (See also paragraphs (6) and (7) of this Supplement.) For exports to Iran or Syria, see paragraphs (1) through (6) of this Supplement.

(9) The contract sanctity date for exports and reexports of the following commodities and technical data is March 7, 1991:

(i) Equipment (for producing chemical weapon precursors and chemical warfare agents) described in ECCNs 2B350 and 2B351;

(ii) Equipment and materials (for producing biological agents) described in ECCNs 1C351, 1C353, 1C354, and 2B352; and

(iii) Technology (for the development, production, and use of equipment described in ECCNs 1C351, 1C353, 1C354, 2B350, 2B351, and 2B352) described in ECCNs 2E001, 2E002, and 2E301.

(10) The contract sanctity date for license applications subject to §742.2(b)(3) of this part is March 7, 1991.

(11) The contract sanctity date for reexports of chemicals controlled under ECCN 1C350 is March 7, 1991, except that the contract sanctity date for reexports of these chemicals to Iran or Syria is December 12, 1989.

(12) The contract sanctity date for reexports of human pathogens, zoonoses, toxins, animal pathogens, genetically modified microorganisms and plant pathogens controlled by ECCNs 1C351, 1C353 and 1C354 is March 7, 1991.

[61 FR 12786, Mar. 25, 1996, as amended at 62 FR 25459, May 9, 1997; 69 FR 42865, July 19, 2004; 71 FR 51718, Aug. 31, 2006; 80 FR 34271, June 16, 2015]

SUPPLEMENT NO. 2 TO PART 742—ANTI-  
TERRORISM CONTROLS: NORTH  
KOREA, SYRIA CONTRACT SANCTITY  
DATES AND RELATED POLICIES

NOTE: Exports and reexports of items in performance of contracts entered into before the applicable contract sanctity date(s) will be eligible for review on a case-by-case basis or other applicable licensing policies that were in effect prior to the contract sanctity date. The contract sanctity dates set forth in this Supplement are for the guidance of exporters. Contract sanctity dates are established in the course of the imposition of foreign policy controls on specific items and are the relevant dates for the purpose of licensing determinations involving such items. If you believe that a specific contract sanctity

date is applicable to your transaction, you should include all relevant information with your license application. BIS will determine any applicable contract sanctity date at the time an application with relevant supporting documents is submitted.

(a) *Terrorist-supporting countries.* The Secretary of State has designated North Korea, and Syria as countries whose governments have repeatedly provided support for acts of international terrorism under section 6(j) of the Export Administration Act (EAA).

(b) *Items controlled under EAA sections 6(j) and 6(a).* Whenever the Secretary of State determines that an export or reexport to any of these countries could make a significant contribution to the military potential of such country, including its military logistics capability, or could enhance the ability of such country to support acts of international terrorism, the item is subject to mandatory control under EAA section 6(j) and the Secretaries of Commerce and State are required to notify appropriate Committees of the Congress 30 days before a license for such an item may be issued.

(1) On December 28, 1993, the Secretary of State determined that the export to North Korea, or Syria of items described in paragraphs (c)(1) through (c)(5) of this Supplement, if destined to military, police, intelligence or other sensitive end-users, are controlled under EAA section 6(j). Therefore, the 30-day advance Congressional notification requirement applies to the export or re-export of these items to sensitive end-users in any of these countries.

(2) License applications for items controlled to designated terrorist-supporting countries under EAA section 6(a) will also be reviewed to determine whether the Congressional notification requirements of EAA section 6(j) apply.

(3) Items controlled for anti-terrorism reasons under section 6(a) to North Korea, and Syria are:

(i) Items described in paragraphs (c)(1) through (c)(5) to non-sensitive end-users, and

(ii) The following items to all end-users: for North Korea, items in paragraph (c)(6) through (c)(45) of this Supplement; and for Syria, items in paragraphs (c)(6) through (c)(8), (c)(10) through (c)(14), (c)(16) through (c)(19), and (c)(22) through (c)(44) of this Supplement.

(c) The license requirements and licensing policies for items controlled for anti-terrorism reasons to Syria and North Korea are generally described in §§742.9 and 742.19 of this part, respectively. This Supplement provides guidance on licensing policies for North Korea and Syria and related contract sanctity dates that may be available for transactions benefiting from pre-existing contracts involving Syria.

(1) *All items subject to national security controls.*

(i) [Reserved]

(ii) *Syria.* Applications for military end-users or military end-uses in Syria will generally be denied. Applications for non-military end-users or end-uses will be considered on a case-by-case basis, unless otherwise specified in paragraphs (c)(2) through (c)(42) of this Supplement. No contract sanctity date is available for items valued at \$7 million or more to military end-users or end-uses. The contract sanctity date for all other items for all end-users: December 16, 1986.

(iii) [Reserved]

(iv) *North Korea.* Applications for all end-users in North Korea of such equipment will generally be denied.

(2) *All items subject to chemical and biological weapons proliferation controls.* Applications for all end-users in North Korea and Syria of these items will generally be denied. See Supplement No. 1 to part 742 for contract sanctity dates for Syria.

(3) *All items subject to missile proliferation controls (MTCR).* Applications for all end-users in North Korea and Syria will generally be denied. Contract sanctity provisions for Syria are not available.

(4) *All items subject to nuclear weapons proliferation controls (NRL).* (i) [Reserved]

(ii) *Syria.* Applications for military end-users or end-uses to Syria will generally be denied. Applications for non-military end-users or end-uses will be considered on a case-by-case basis unless otherwise specified in paragraphs (c)(2) through (c)(42) of this Supplement. No contract sanctity date is available.

(iii) *Sudan.* Applications for military end-users or end-uses in Sudan will generally be denied. Applications for export and reexport to non-military end-users or end-uses will be considered on a case-by-case basis unless otherwise specified in paragraphs (c)(2) through (c)(42) of this Supplement. No contract sanctity date is available.

(iv) *North Korea.* Applications for all end-users in North Korea will generally be denied.

(5) *All military-related items, i.e., applications for export and reexport of items controlled by CCL entries ending with the number “18”.*

(i) [Reserved]

(ii) *Syria.* Applications for all end-users in Syria will generally be denied. Contract sanctity date: see paragraph (c)(1)(ii) of this Supplement.

(iii) *Sudan.* Applications for all end-users in Sudan will generally be denied. Contract sanctity date for Sudan: January 19, 1996, unless a prior contract sanctity date applies (e.g., items first controlled to Sudan for foreign policy reasons under EAA section 6(j) have a contract sanctity date of December 28, 1993).

(iv) *North Korea.* Applications for all end-users in North Korea will generally be denied.

(6) *All aircraft (powered and unpowered), helicopters, engines, and related spare parts and components.* (i) [Reserved]

(ii) *Syria.* Applications for all end-users in Syria will generally be denied.

(A) There is no contract sanctity for helicopters exceeding 10,000 lbs. empty weight or fixed wing aircraft valued at \$3 million or more; except that passenger aircraft, regardless of value, have a contract sanctity date of December 16, 1986, if destined for a regularly scheduled airline with assurance against military use.

(B) Contract sanctity date for helicopters with 10,000 lbs. empty weight or less: April 28, 1986.

(C) Contract sanctity date for other aircraft and gas turbine engines therefor: December 16, 1986.

(D) Contract sanctity date for helicopter or aircraft parts and components controlled by ECCN 9A991.d: August 28, 1991.

(iii) [Reserved]

(iv) *North Korea.* Applications for all end-users in North Korea will generally be denied.

(7) *Heavy duty, on-highway tractors* (i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by-case basis. Contract sanctity date: August 28, 1991.

(iii) *Sudan.* Applications for military end-users or for military end-uses in Sudan will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date: January 19, 1996.

(iv) *North Korea.* Applications for military end-users or for military end-uses in North Korea will generally be denied. Applications for non-military end-users or for non-military end-uses in North Korea will be considered on a case-by-case basis.

(8) *Off-highway wheel tractors of carriage capacity 9t (10 tons) or more.* (i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by-case basis. Contract sanctity date: August 28, 1991.

(iii) *Sudan.* Applications for military end-users or for military end-uses in Sudan will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date: January 19, 1996.

(iv) *North Korea.* Applications for military end-users or for military end-uses in North Korea will generally be denied. Applications

for non-military end-users or for non-military end-uses in North Korea will be considered on a case-by-case basis.

(9) *Large diesel engines (greater than 400 horsepower) and parts to power tank transporters.* (i) [Reserved]

(ii) *Sudan.* Applications for military end-users or for military end-uses in Sudan will generally be denied. Applications for non-military end-users or for non-military end-uses in Sudan will be considered on a case-by-case basis. Contract sanctity date: January 19, 1996.

(iii) *North Korea.* Applications for military end-users or for military end-uses in North Korea will generally be denied. Applications for non-military end-users or for non-military end-uses in North Korea will be considered on a case-by-case basis.

(10) *Cryptographic, cryptoanalytic, and cryptologic equipment.* (i) [Reserved]

(ii) *Syria.* A license is required for all national security-controlled cryptographic, cryptoanalytic, and cryptologic equipment to all end-users. Applications for all end-users in Syria will generally be denied. Contract sanctity date for cryptographic, cryptoanalytic, and cryptologic equipment that was subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(iii) [Reserved]

(iv) *North Korea.* Applications for all end-users in North Korea of any such equipment will generally be denied.

(11) *Navigation, direction finding, and radar equipment.* (i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by-case basis.

(A) Contract sanctity date for exports of navigation, direction finding, and radar equipment that was subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other navigation, direction finding, and radar equipment: August 28, 1991.

(iii) [Reserved]

(iv) *North Korea.* Applications for military end-users or for military end-uses in North Korea of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses in North Korea will be considered on a case-by-case basis.

(12) *Electronic test equipment.* (i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by-case basis.

(A) Contract sanctity date for electronic test equipment that was subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other electronic test equipment: August 28, 1991.

(iii) [Reserved]

(iv) *North Korea*. Applications for military end-users or for military end-uses, or for nuclear end-users or nuclear end-uses, in North Korea of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses, or for non-nuclear end-users or non-nuclear end-uses, in North Korea will be considered on a case-by-case basis.

(13) *Mobile communications equipment*. (i) [Reserved]

(ii) *Syria*. Applications for military end-users or for military end-uses in Syria of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by-case basis.

(A) Contract sanctity date for mobile communications equipment that was subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for exports of all other mobile communications equipment: August 28, 1991.

(iii) [Reserved]

(iv) *North Korea*. Applications for military end-users or for military end-uses in North Korea of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses in North Korea will be considered on a case-by-case basis.

(14) *Acoustic underwater detection equipment*. (i) [Reserved]

(ii) *Syria*. A license is required for acoustic underwater detection equipment that was subject to national security controls on August 28, 1991, to all end-users. Applications for military end-users or for military end-uses in Syria will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by-case basis. Contract sanctity date for acoustic underwater detection equipment that was subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(iii) [Reserved]

(iv) *North Korea*. Applications for military end-users or for military end-uses in North Korea of such equipment of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in North Korea of such equipment will be considered on a case-by-case basis.

(15) *Portable electric power generator*. (i) [Reserved]

(ii) *North Korea*. Applications for military end-users or for military end-uses in North Korea of such equipment will generally be

denied. Applications for non-military end-users or for non-military end-uses in North Korea of such equipment will be considered on a case-by-case basis.

(16) *Vessels and boats, including inflatable boats*. (i) [Reserved]

(ii) *Syria*. A license is required for national security-controlled vessels and boats. Applications for military end-users or for military end-uses in Syria of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by-case basis. Contract sanctity date for vessels and boats that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(iii) [Reserved]

(iv) *North Korea*. Applications for military end-users or for military end-uses in North Korea of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in North Korea of these items will be considered on a case-by-case basis.

(17) *Marine and submarine engines (outboard/inboard, regardless of horsepower)*. (i) [Reserved]

(ii) *Syria*. A license is required for all marine and submarine engines subject to national security controls to all end-users. Applications for military end-users or for military end-uses in Syria of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by-case basis. Contract sanctity date for marine and submarine engines that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(iii) [Reserved]

(iv) *North Korea*. Applications for military end-users or for military end-uses in North Korea of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in North Korea of these items will be considered on a case-by-case basis.

(18) *Underwater photographic equipment*. (i) [Reserved]

(ii) *Syria*. Applications for military end-users or for military end-uses in Syria of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by-case basis.

(A) Contract sanctity date for underwater photographic equipment that was subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other underwater photographic equipment: August 28, 1991.

(iii) [Reserved]

(iv) *North Korea*. Applications for all end-users in North Korea of such equipment will generally be denied.

(19) *Submersible systems.* (i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria of such systems will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by-case basis.

(A) Contract sanctity date for submersible systems that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other submersible systems: August 28, 1991.

(iii) [Reserved]

(iv) *North Korea.* Applications for all end-users in North Korea of such equipment will generally be denied.

(20) *Scuba gear and related equipment.* (i) [Reserved]

(ii) [Reserved]

(iii) *North Korea.* Applications for all end-users in North Korea of such equipment will generally be denied.

(21) *Pressurized aircraft breathing equipment.* (i) [Reserved]

(ii) [Reserved]

(iii) *North Korea.* Applications for all end-users in North Korea of such equipment will generally be denied.

(22) *Computer numerically controlled machine tools.* (i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for computer numerically controlled machine tools that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for exports of all other computer numerically controlled machine tools: August 28, 1991.

(iii) [Reserved]

(iv) *North Korea.* Applications for all end-users in North Korea of such equipment will generally be denied.

(23) *Vibration test equipment.* (i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for vibration test equipment that was subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for exports of all other vibration test equipment: August 28, 1991.

(iii) [Reserved]

(iv) *North Korea.* Applications for military end-users or for military end-uses in North Korea of these items will generally be de-

nied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(24) *Digital computers with an APP of .00001 WT or above, assemblies, related equipment, equipment for development or production of magnetic and optical storage equipment, and materials for fabrication of head/disk assemblies.*

(i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity dates for items that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other items: August 28, 1991.

(iii) [Reserved]

(iv) *North Korea.* (A) Computers with an APP exceeding 0.0004 WT: Applications for all end-users will generally be denied.

(B) Computers with an APP equal to or less than 0.0004 WT: Applications for military end-users or for military end-uses, or for nuclear end-users or nuclear end-uses, will generally be denied. Applications for non-military end-users or for non-military end-uses, or for non-nuclear end-users or non-nuclear end-uses, will be considered on a case-by-case basis.

(25) *Telecommunications equipment.* (i) A license is required for the following telecommunications equipment:

(A) Radio relay systems or equipment operating at a frequency equal to or greater than 19.7 GHz or "spectral efficiency" greater than 3 bit/s/Hz; (B) Fiber optic systems or equipment operating at a wavelength greater than 1000 nm; (C) "Telecommunications transmission systems" or equipment with a "digital transfer rate" at the highest multiplex level exceeding 45 Mb/s.

(ii) [Reserved]

(iii) *Syria.* Applications for military end-users or for military end-uses in Syria of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for exports of telecommunications equipment that was subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for exports of all other telecommunications equipment: August 28, 1991.

(iv) [Reserved]

(v) *North Korea.* Applications for military end-users or for military end-uses in North Korea of such equipment will generally be denied. Applications for non-military end-

users or for non-military end-uses will be considered on a case-by-case basis.

(26) *Microprocessors*—(i) Operating at a clock speed over 25 MHz.

(A) [Reserved]

(B) *Syria*. Applications for military end-users or for military end-uses in Syria of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(1) Contract sanctity date for microprocessors that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this supplement.

(2) Contract sanctity date for all other microprocessors: August 28, 1991.

(ii) With a processing speed of 0.5 GFLOPS or above.

(A) *North Korea*. Applications for all end-users in North Korea of these items will generally be denied.

(B) [Reserved]

(27) *Semiconductor manufacturing equipment*. For Syria, Sudan, or North Korea, a license is required for all such equipment described in ECCNs 3B001 and 3B991.

(i) [Reserved]

(ii) *Syria*. Applications for military end-users or for military end-uses in Syria of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for semiconductor manufacturing equipment that was subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other semiconductor manufacturing equipment: August 28, 1991.

(iii) [Reserved]

(iv) *North Korea*. Applications for all end-users in North Korea of such equipment will generally be denied.

(28) *Software specially designed for the computer-aided design and manufacture of integrated circuits*. (i) [Reserved]

(ii) *Syria*. Applications for military end-users or for military end-uses in Syria of such software will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for such software that was subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other such software: August 28, 1991.

(iii) [Reserved]

(iv) *North Korea*. Applications for military end-users or for military end-uses in North Korea of such software will generally be denied. Applications for non-military end-users

or for non-military end-uses will be considered on a case-by-case basis.

(29) *Packet switches. Equipment described in ECCN 5A991.c*. (i) [Reserved]

(ii) *Syria*. Applications for military end-users or for military end-uses in Syria of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for packet switches that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other packet switches: August 28, 1991.

(iii) [Reserved]

(iv) *North Korea*. Applications for military end-users or for military end-uses in North Korea of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(30) *Specially designed software for air traffic control applications that uses any digital signal processing techniques for automatic target tracking or that has a facility for electronic tracking*. (i) [Reserved]

(ii) *Syria*. Applications for military end-users or for military end-uses in Syria of such software will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for such software that was subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for exports of all other such software: August 28, 1991.

(iii) [Reserved]

(iv) *North Korea*. Applications for military end-users or for military end-uses in North Korea of such software will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(31) *Gravity meters having static accuracy of less (better) than 100 microgal, or gravity meters of the quartz element (worden) type*. (i) [Reserved]

(ii) *Syria*. Applications for military end-users or for military end-uses in Syria of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for gravity meters that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for exports of all other such gravity meters: August 28, 1991.

(iii) [Reserved]

(iv) *North Korea*. Applications for military end-users or for military end-uses in North

Korea of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(32) *Magnetometers with a sensitivity lower (better) than 1.0 nt rms per square root Hertz.* (i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for such magnetometers that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other such magnetometers: August 28, 1991.

(iii) [Reserved]

(iv) *North Korea.* Applications for military end-users or for military end-uses in North Korea of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(33) *Fluorocarbon compounds described in ECCN 1C006.d for cooling fluids for radar.* (i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria of such compounds will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for such fluorocarbon compounds that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other such fluorocarbon compounds: August 28, 1991.

(iii) [Reserved]

(iv) *North Korea.* Applications for military end-users or for military end-uses in North Korea of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(34) *High strength organic and inorganic fibers (kevlar) described in ECCN 1C210.* (i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria of such fibers will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for high strength organic and inorganic fibers (kevlar) described in ECCN 1C210 that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other high strength organic and inorganic fibers

(kevlar) described in ECCN 1C210: August 28, 1991.

(iii) [Reserved]

(iv) *North Korea.* Applications for military end-users or for military end-uses, or for nuclear end-users or nuclear end-uses, in North Korea of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses, or for non-nuclear end-users or non-nuclear end-uses, in North Korea will be considered on a case-by-case basis.

(35) *Machines described in ECCNs 2B003 and 2B993 for cutting gears up to 1.25 meters in diameter.* (i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for machines that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other machines: August 28, 1991.

(iii) [Reserved]

(iv) *North Korea.* Applications for military end-users or for military end-uses in North Korea of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(36) *Aircraft skin and spar milling machines.* (i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(A) Contract sanctity date for aircraft skin and spar milling machines that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other aircraft skin and spar milling machines: August 28, 1991.

(iii) [Reserved]

(iv) *North Korea.* Applications for all end-users in North Korea of such equipment will generally be denied.

(37) *Manual dimensional inspection machines described in ECCN 2B996.* (i) [Reserved]

(ii) *Syria.* Applications for military end-users or for military end-uses in Syria of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by-case basis.

(A) Contract sanctity date for such manual dimensional inspection machines that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.



(B) Contract sanctity date for all other such manual dimensional inspection machines: August 28, 1991.

(iii) [Reserved]

(iv) *North Korea*. Applications for military end-users or for military end-uses, or for nuclear end-users or nuclear end-uses, in North Korea of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses, or for non-nuclear end-users or non-nuclear end-uses, in North Korea will be considered on a case-by-case basis.

(38) *Robots capable of employing feedback information in real time processing to generate or modify programs*. (i) [Reserved]

(ii) *Syria*. Applications for military end-users or for military end-uses in Syria of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by case basis.

(A) Contract sanctity date for such robots that were subject to national security controls on August 28, 1991: see paragraph (c)(1)(ii) of this Supplement.

(B) Contract sanctity date for all other such robots: August 28, 1991.

(iii) [Reserved]

(iv) *North Korea*. Applications for military end-users or for military end-uses, or for nuclear end-users or nuclear end-uses, in North Korea of such equipment will generally be denied. Applications for non-military end-users or for non-military end-uses, or for non-nuclear end-users or non-nuclear end-uses, in North Korea will be considered on a case-by-case basis.

(39) *Explosives detection equipment described in ECCN 2A983*—(i) Explosives detection equipment described in ECCN 2A983, controlled prior to April 3, 2003 under ECCN 2A993.

(A) [Reserved]

(B) *Syria*. Applications for all end-users in Syria of these items will generally be denied. Contract sanctity date: January 19, 1996.

(C) [Reserved]

(D) *North Korea*. Applications for all end-users in North Korea of these items will generally be denied.

(ii) Explosives detection equipment described in ECCN 2A983, not controlled prior to April 3, 2003 under ECCN 2A993.

(A) [Reserved]

(B) *Syria*. Applications for all end-users in Syria of these items will generally be denied. Contract sanctity date: March 21, 2003.

(C) *Sudan*. Applications for all end-users in Sudan of these items will generally be denied. Contract sanctity date for reexports by non-U.S. persons: March 21, 2003.

(D) *North Korea*. Applications for all end-users in North Korea of these items will generally be denied. Contract sanctity date: March 21, 2003.

(40) “Software” described in ECCN 2D983 specially designed or modified for the “development”, “production” or “use” of explosives detection equipment. (i) [Reserved]

(ii) *Syria*. Applications for all end-users in Syria of these items will generally be denied. Contract sanctity date: March 21, 2003.

(iii) [Reserved]

(iv) *North Korea*. Applications for all end-users in North Korea of these items will generally be denied. Contract sanctity date: March 21, 2003.

(41) “Technology” described in ECCN 2E983 specially designed or modified for the “development”, “production” or “use” of explosives detection equipment. (i) [Reserved]

(ii) *Syria*. Applications for all end-users in Syria of these items will generally be denied. Contract sanctity date: March 21, 2003.

(iii) [Reserved]

(iv) *North Korea*. Applications for all end-users in North Korea of these items will generally be denied. Contract sanctity date: March 21, 2003.

(42) *Production technology controlled under ECCN 1C355 on the CCL*—

(i) [Reserved]

(ii) *Syria*. Applications for military end-users or for military end-uses in Syria of these items will generally be denied. Applications for non-military end-users or for non-military end-uses in Syria will be considered on a case-by-case basis.

(iii) [Reserved]

(iv) *North Korea*. Applications for military end-users or for military end-uses in North Korea of these items will generally be denied. Applications for non-military end-users or for non-military end-uses will be considered on a case-by-case basis.

(43) *Commercial Charges and devices controlled under ECCN 1C992 on the CCL*. (i) [Reserved]

(ii) *Syria*. Applications for all end-users in Syria of these items will generally be denied.

(iii) [Reserved]

(iv) *North Korea*. Applications for all end-users in North Korea of these items will generally be denied.

(44) *Ammonium nitrate, including certain fertilizers containing ammonium nitrate, under ECCN 1C997 on the CCL*. (i) [Reserved]

(ii) *Syria*. Applications for all end-users in Syria of these items will generally be denied. Contract sanctity date: June 15, 2001.

(iii) [Reserved]

(iv) *North Korea*. Applications for all end-users in North Korea of these items will generally be denied. Contract sanctity date: June 15, 2001.

(45) *Specific processing equipment, materials and software controlled under ECCNs 0A999, 0B999, 0D999, 1A999, 1C999, 1D999, 2A999, 2B999, 3A999, and 6A999 on the CCL*. (i) *North Korea*. Applications for military end-users or for military end-uses, or for nuclear end-users or nuclear end-uses, in North Korea of such

**Bur. of Industry and Security, Comm.**

**Pt.742, Supp. No. 4**

equipment will generally be denied. Applications for non-military end-users or for non-military end-uses, or for non-nuclear end-users or non-nuclear end-uses, in North Korea will be considered on a case-by-case basis.

(ii) [Reserved]

(46) *Concealed object detection equipment described in ECCN 2A984.* (i) *Syria.* Applications for all end-users in Syria of these commodities will generally be denied. Contract sanctity date: March 19, 2010.

(ii) [Reserved]

(iii) *North Korea.* Applications for all end-users in North Korea of these commodities will generally be denied. Contract sanctity date: March 19, 2010.

(47) *“Software” described in ECCN 2D984 “required” for the “development”, “production” or “use” of concealed object detection equipment controlled by 2A984.* (i) *Syria.* Applications for all end-users in Syria of these software will generally be denied. Contract sanctity date: March 19, 2010.

(ii) [Reserved]

(iii) *North Korea.* Applications for all end-users in North Korea of these software will generally be denied. Contract sanctity date: March 19, 2010.

(48) *“Technology” described in ECCN 2E984 “required” for the “development”, “production” or “use” of concealed object detection equipment controlled by 2A984, or the “development” of “software” controlled by 2D984.* (i) *Syria.* Applications for all end-users in Syria of these items will generally be denied. Contract sanctity date: March 19, 2010.

(ii) [Reserved]

(iii) *North Korea.* Applications for all end-users in North Korea of these items will generally be denied. Contract sanctity date: March 19, 2010.

[69 FR 23630, Apr. 29, 2004, as amended at 69 FR 46076, July 30, 2004; 70 FR 14391, Mar. 22, 2005; 71 FR 20885, Apr. 24, 2006; 71 FR 51718, Aug. 31, 2006; 72 FR 20223, Apr. 24, 2007; 72 FR 62532, Nov. 5, 2007; 74 FR 2357, Jan. 15, 2009; 75 FR 14340, Mar. 25, 2010; 80 FR 43318, July 22, 2015; 82 FR 4783, Jan. 17, 2017; 86 FR 4933, Jan. 19, 2021]

**SUPPLEMENT NO. 3 TO PART 742—HIGH-RISK DESTINATIONS FOR FIREARMS AND RELATED ITEMS**

Bahamas,  
The Bangladesh  
Belize  
Bolivia  
Burkina Faso  
Burundi  
Chad  
Colombia  
Dominican Republic  
Ecuador  
El Salvador

Guatemala  
Guyana  
Honduras  
Indonesia  
Jamaica  
Kazakhstan  
Kyrgyzstan  
Laos  
Malaysia  
Mali  
Mozambique  
Nepal  
Niger  
Nigeria  
Pakistan  
Panama  
Papua New Guinea  
Paraguay  
Peru  
Suriname  
Tajikistan  
Trinidad and Tobago  
Uganda  
Vietnam  
Yemen

[89 FR 34705, Apr. 30, 2024]

**SUPPLEMENT NO. 4 TO PART 742—COUNTRIES EXCLUDED FROM CERTAIN SEMICONDUCTOR MANUFACTURING EQUIPMENT LICENSE REQUIREMENTS**

Australia  
Austria  
Belgium  
Bulgaria  
Canada  
Croatia  
Czech Republic  
Denmark  
Estonia  
Finland  
France  
Germany  
Greece  
Hungary  
Iceland  
Ireland  
Italy  
Japan  
Latvia  
Lithuania  
Luxembourg  
Netherlands  
New Zealand  
Norway  
Poland  
Portugal  
Romania  
Slovakia  
Slovenia  
Spain  
Sweden  
Switzerland  
United Kingdom

[89 FR 96817, Dec. 5, 2024]

SUPPLEMENT NO. 5 TO PART 742  
[RESERVED]

SUPPLEMENT NO. 6 TO PART 742—TECH-  
NICAL QUESTIONNAIRE FOR  
ENCRYPTION AND OTHER “INFORMA-  
TION SECURITY” ITEMS

(a) For all items:

(1) State the name(s) of each product being submitted for classification or other consideration (as a result of a request by BIS) and provide a brief non-technical description of the type of product (e.g., routers, disk drives, cell phones, and chips) being submitted, and provide brochures, data sheets, technical specifications or other information that describes the item(s).

(2) Indicate whether there have been any prior classifications of the product(s), if they are applicable to the current submission. For products with minor changes in encryption functionality, you must include a cover sheet with complete reference to the previous review (Commodity Classification Automated Tracking System (CCATS) number, Export Control Classification Number (ECCN), authorization paragraph) along with a clear description of the changes.

(3) Describe how encryption is used in the product and the categories of encrypted data (e.g., stored data, communications, management data, and internal data).

(4) For ‘mass market’ encryption products, describe specifically to whom and how the product is being marketed and state how this method of marketing and other relevant information (e.g., cost of product and volume of sales) are described by the Cryptography Note (Note 3 to Category 5, Part 2).

(5) Is any “encryption source code” being provided (shipped or bundled) as part of this offering? If yes, is this source code publicly available source code, unchanged from the code obtained from an open source Web site, or is it proprietary “encryption source code?”

(b) For classification requests and other submissions, provide the following information

(1) Description of all the symmetric and asymmetric encryption algorithms and key lengths and how the algorithms are used, including relevant parameters, inputs and settings. Specify which encryption modes are supported (e.g., cipher feedback mode or cipher block chaining mode).

(2) Describe how encryption keys are generated or managed by your product, including algorithms and modulus sizes supported.

(3) Describe whether the products incorporate or use “non-standard cryptography” defined as incorporating or using proprietary, unpublished cryptographic functionality, including encryption algorithms or protocols that have not been

adopted or approved by a duly recognized international standards body. Provide a textual description and the source code of the algorithm.

(4) Describe the pre-processing methods (e.g., data compression or data interleaving) that are applied to the plaintext data prior to encryption.

(5) Describe the post-processing methods (e.g., packetization, encapsulation) that are applied to the cipher text data after encryption.

(6) State all communication protocols (e.g., X.25, Telnet, TCP, IEEE 802.11, IEEE 802.16, SIP . . .) and cryptographic protocols and methods (e.g., SSL, TLS, SSH, IPSEC, IKE, SRTP, ECC, MD5, SHA, X.509, PKCS standards . . .), including application programming interfaces (APIs), that are supported and describe how they are used.

(7) State how the product is written to preclude user modification of the encryption algorithms, key management and key space.

(8) Describe the cryptographic functionality that is provided by third-party hardware or software encryption components (if any). Identify the manufacturers of the hardware or software components, including specific part numbers and version information as needed to describe the product. Describe whether the encryption software components (if any) are statically or dynamically linked.

(9) Identify the version(s) and type(s) of compilers, runtime interpreters or code assemblers used, as applicable.

(10) With respect to your company’s encryption products, are any of the products (or its encryption components) manufactured outside the United States? If yes, provide manufacturing locations (city and country).

(11) See §740.17(b)(2) of the EAR. Describe whether the item meets any of the §740.17(b)(2) criteria. Provide a comparison of your item against the criteria listed in each paragraph of §740.17(b)(2). Give specific data for each of the parameters listed, as applicable (e.g., maximum aggregate encrypted throughput, maximum number of encrypted endpoints, maximum satellite or terrestrial wireless transmission rates, terrestrial wireless operating range, customized cryptography, network penetration capability, cryptanalytic capability and “non-standard cryptography”).

(12) See §740.17(b)(3) of the EAR. Describe whether the product meets any of the criteria described under each of the paragraphs in §740.17(b)(3) (e.g., chip, chipset, electronic assembly, programmable logic device, cryptographic library, cryptographic development kit, “non-standard cryptography,” digital forensics, and “cryptographic activation”).

(13) See §740.17(b)(2)(iii) of the EAR. For products which incorporate an “open cryptographic interface” as defined in part 772 of the EAR, describe the cryptographic interface.

(14) For products with IPsec capabilities:

(i) Please describe your product’s implementation of IKE vendor IDs, including vendor specific and capability IDs; and

(ii) Please specify which version of IKE you use (IKEv1 or IKEv2).

(c) For classification requests for hardware or software “encryption components” other than source code (*i.e.*, chips, toolkits, executable or linkable modules intended for use in or production of another encryption item) provide the following additional information:

(1) Reference the application for which the components are used in, if known;

(2) State if there is a general programming interface to the component;

(3) State whether the component is constrained by function; and

(4) Identify the encryption component and include the name of the manufacturer, component model number or other identifier.

(d) For classification requests for “encryption source code” provide the following information:

(1) If applicable, reference the executable (object code) product that was previously classified by BIS;

(2) Include whether the source code has been modified, and the technical details on how the source code was modified; and

(3) Upon request, include a copy of the sections of the source code that contain the encryption algorithm, key management routines and their related calls.

[75 FR 36497, June 25, 2010, as amended at 81 FR 64674, Sept. 20, 2016]

#### SUPPLEMENT NO. 7 TO PART 742—DESCRIPTION OF MAJOR WEAPONS SYSTEMS

(1) Battle Tanks: Tracked or wheeled self-propelled armored fighting vehicles with high cross-country mobility and a high-level of self protection, weighing at least 16.5 metric tons unladen weight, with a high muzzle velocity direct fire main gun of at least 75 millimeters caliber.

(2) Armored Combat Vehicles: Tracked, semi-tracked, or wheeled self-propelled vehicles, with armored protection and cross-country capability, either designed and equipped to transport a squad of four or more infantrymen, or armed with an integral or organic weapon of a least 12.5 millimeters caliber or a missile launcher.

(3) Large-Caliber Artillery Systems: Guns, howitzers, artillery pieces combining the characteristics of a gun or a howitzer, mortars or multiple-launch rocket systems, ca-

pable of engaging surface targets by delivering primarily indirect fire, with a caliber of 75 millimeters and above.

(4) Combat Aircraft: Fixed-wing or variable-geometry wing aircraft designed, equipped, or modified to engage targets by employing guided missiles, unguided rockets, bombs, guns, cannons, or other weapons of destruction, including versions of these aircraft which perform specialized electronic warfare, suppression of air defense or reconnaissance missions. The term “combat aircraft” does not include primary trainer aircraft, unless designed, equipped, or modified as described above.

(5) Attack Helicopters: Rotary-wing aircraft designed, equipped or modified to engage targets by employing guided or unguided anti-armor, air-to-surface, air-to-subsurface, or air-to-air weapons and equipped with an integrated fire control and aiming system for these weapons, including versions of these aircraft that perform specialized reconnaissance or electronic warfare missions.

(6) Warships: Vessels or submarines armed and equipped for military use with a standard displacement of 750 metric tons or above, and those with a standard displacement of less than 750 metric tons that are equipped for launching missiles with a range of at least 25 kilometers or torpedoes with a similar range.

(7) Missiles and Missile Launchers:

(a) Guided or unguided rockets, or ballistic, or cruise missiles capable of delivering a warhead or weapon of destruction to a range of at least 25 kilometers, and those items that are designed or modified specifically for launching such missiles or rockets, if not covered by systems identified in paragraphs (1) through (6) of this Supplement. For purposes of this rule, systems in this paragraph include remotely piloted vehicles with the characteristics for missiles as defined in this paragraph but do not include ground-to-air missiles;

(b) Man-Portable Air-Defense Systems (MANPADS); or

(c) Unmanned Aerial Vehicles (UAVs) of any type, including sensors for guidance and control of these systems, except model airplanes.

(8) Offensive Space Weapons: Systems or capabilities that can deny freedom of action in space for the United States and its allies or hinder the United States and its allies from denying an adversary the ability to take action in space. This includes systems such as anti-satellite missiles, or other systems designed to defeat or destroy assets in space.

(9) Command, Control, Communications, Computer, Intelligence, Surveillance, and Reconnaissance (C4ISR): Systems that support military commanders in the exercise of authority and direction over assigned forces

across the range of military operations; collect, process, integrate, analyze, evaluate, or interpret information concerning foreign countries or areas; systematically observe aerospace, surface or subsurface areas, places, persons, or things by visual, aural, electronic, photographic, or other means; and obtain, by visual observation or other detection methods, information about the activities and resources of an enemy or potential enemy, or secure data concerning the meteorological, hydrographic, or geographic characteristics of a particular area, including Undersea communications. Also includes sensor technologies.

(10) Precision Guided Munitions (PGMs), including “smart bombs”: Weapons used in precision bombing missions such as specially designed weapons, or bombs fitted with kits to allow them to be guided to their target.

(11) Night vision equipment: Any electro-optical device that is used to detect visible and infrared energy and to provide an image. This includes night vision goggles, forward-looking infrared systems, thermal sights, and low-light level systems that are night vision devices, as well as infrared focal plane array detectors and cameras specifically designed, developed, modified, or configured for military use; image intensification and other night sighting equipment or systems specifically designed, modified or configured for military use; second generation and above military image intensification tubes specifically designed, developed, modified, or configured for military use, and infrared, visible and ultraviolet devices specifically designed, developed, modified, or configured for military application.

[72 FR 33656, June 19, 2007, as amended at 73 FR 58037, Oct. 6, 2008]

#### SUPPLEMENT NO. 8 TO PART 742—SELF-CLASSIFICATION REPORT FOR ENCRYPTION ITEMS

This supplement provides certain instructions and requirements for self-classification reporting to BIS and the ENC Encryption Request Coordinator (Ft. Meade, MD) of encryption commodities, software and components exported or reexported pursuant to § 740.17(b)(1) of the EAR. See § 740.17(e)(3) of the EAR for additional instructions and requirements pertaining to this supplement, including when to report and how to report.

(a) *Information to report.* The following information is required in the file format as described in paragraph (b) of this supplement, for each encryption item subject to the requirements of this supplement and §§ 740.17(b)(1) and 740.17(e)(3) of the EAR:

- (1) Name of product (50 characters or less).
- (2) Model/series/part number (50 characters or less.) If necessary, enter ‘NONE’ or ‘N/A’.

(3) Primary manufacturer (50 characters or less). Enter ‘SELF’ if you are the primary manufacturer of the item. If there are multiple manufacturers for the item but none is clearly primary, either enter the name of one of the manufacturers or else enter ‘MULTIPLE’. If necessary, enter ‘NONE’ or ‘N/A’.

(4) Export Control Classification Number (ECCN), selected from *one* of the following:

- (i) 5A002
- (ii) 5B002
- (iii) 5D002
- (iv) 5A992
- (v) 5D992

(5) Encryption authorization type identifier, selected from *one* of the following, which denote eligibility under License Exception ENC § 740.17(b)(1):

- (i) ENC
- (ii) MMKT

(6) Item type descriptor, selected from *one* of the following:

- (i) Access point;
- (ii) Cellular;
- (iii) Computer or computing platforms;
- (iv) Computer forensics;
- (v) Cryptographic accelerator;
- (vi) Data backup and recovery;
- (vii) Database;
- (viii) Disk/drive encryption;
- (ix) Distributed computing;
- (x) Email communications;
- (xi) Fax communications;
- (xii) File encryption;
- (xiii) Firewall;
- (xiv) Gateway;
- (xv) Intrusion detection;
- (xvi) Identity management;
- (xvii) Key exchange;
- (xviii) Key management;
- (xix) Key storage;
- (xx) Link encryption;
- (xxi) Local area networking (LAN);
- (xxii) Metropolitan area networking (MAN);
- (xxiii) Mobility and mobile applications n.e.s.;
- (xxiv) Modem;
- (xxv) Multimedia n.e.s.;
- (xxvi) Network convergence or infrastructure n.e.s.;
- (xxvii) Network forensics;
- (xxviii) Network intelligence;
- (xxix) Network or systems management (OAM/OAM&P);
- (xxx) Network security monitoring;
- (xxxi) Network vulnerability and penetration testing;
- (xxxii) Operating system;
- (xxxiii) Optical networking;
- (xxxiv) Radio communications;
- (xxxv) Router;
- (xxxvi) Satellite communications;
- (xxxvii) Short range wireless n.e.s.;
- (xxxviii) Storage Area Networking (SAN);
- (xxxix) 3G/4G/5G/LTE/WiMAX;
- (xl) Trusted computing;