DEPARTMENT OF COMMERCE

Bureau of Export Administration

15 CFR Parts 742, 743, 746, 772 and 774

[Docket No. 990625176–0029–02]

RIN 0694–AB86

Revisions and Clarifications to the Export Administration Regulations; Commerce Control List

AGENCY: Bureau of Export Administration, Commerce.

ACTION: Final rule.

SUMMARY: On July 23, 1999, the Bureau of Export Administration (BXA) published a final rule (64 FR 40106) that revised the Commerce Control List (CCL) based on Wassenaar Arrangement review. The final rule revised certain entries controlled for national security reasons in Categories 1, 2, 3, 4, 5, 6, 7, and 9 to conform with changes in the Wassenaar Arrangement’s List of Dual-Use Goods and Technologies. This rule corrects a number of inadvertent errors to the EAR that appeared in the July 23 rule. The changes are summarized as follows:

In part 742, changes are made to sections 742.8, 742.10, 746.7, and Supplement 2 to part 742 to cross-reference certain paragraph references relating to ECCN 5A001 to reflect the remumbering of these paragraph references in the July rule.

In part 743, changes are made to section 743.1 to cross-reference certain paragraph references relating to ECCN 5A001 to reflect the remumbering of these paragraph references in the July rule.

In part 772, where definition in the EAR are described, the definition for “positioning accuracy” is changed to clarify that the 1988 version of the ISO standard applies to this definition. This clarification is also made to the Notes to the Category 2B (Materials Processing—Test, Inspection, and Production Equipment) of the CCL.

ECCN 3B991 is amended by adding a paragraph which was incorrectly referenced twice.

ECCN 5A001 is amended by adding License Exception LVS eligibility to underwater communications systems.

ECCN 5A991 is amended by fixing incorrect paragraph references made in the July rule.

ECCN 5B001 is amended by revising the phrase “employing coherent transmission” to read “employing coherent optical transmission”. The word “optical” was mistakenly left out of the July rule.

ECCN 5D001 is amended by putting the word “or” in the correct place within the List of Items controlled section. This mistake was inadvertently made in the July rule.

ECCN 5E001 is amended by putting the word “production” in the correct paragraph. This mistake was inadvertently made in the July rule.

ECCN 5E991 is amended by adding descriptions for certain technologies that were removed from national security controls in the July rule. These technologies were removed from ECCN 5E001 in the July rule, and should have been moved into ECCN 5D991, as they continue to be controlled for anti-terrorism reasons.

ECCN 6A003 is amended by adding a dash to the phrase “time-delay-and-integration” to read “time-delay-and-integration”. This corrects a typographical error in the July rule.

Background

Specifically this rule makes the following revisions to parts 742, 743, 746, 772 and 774 of the Export Administration Regulations:

(1) In paragraphs 742.8(a)(2), 742.10(a)(2) (Anti-Terrorism Controls), and 746.7(a)(2)(ii) (Embargoes), the phrase “ECCN 5A991.f” is corrected to read “ECCN 5A991.g”. This corresponds to the changes agreed to and implemented by the Wassenaar Arrangement.

(2) In Supplement 2 to part 742 (Anti-Terrorism Controls; Iran, Syria and Sudan Contract Sanctity Dates and Related Topics), in paragraph (c)(29), the phrase “ECCN 5A001.c” is removed and the phrase “ECCN 5A991.c.1” is revised to read “ECCN 5A991.c”. This corresponds to the changes agreed to and implemented by the Wassenaar Arrangement.

(3) In paragraph 743.1(c)(1)(v) (Special Reporting), the phrase “5A001.b.8” is corrected to read “5A001.b.3”. This corresponds to the changes agreed to and implemented by the Wassenaar Arrangement.

(4) In part 772 (Definitions of Terms), the definition for “positioning accuracy” is amended by adding the parenthetical reference “(1988)” immediately following “ISO 230/2”. This clarifies that the 1988 version of the ISO standard applies.

(5) In Category 2B (Materials Processing—Test, Inspection, and Production Equipment) of the CCL, the Notes for Category 2B section is amended by revising note 5 to add the parenthetical reference “(1988)” immediately following “ISO 230/2”. This clarifies that the 1988 version of the ISO standard applies.

(6) Export Control Classification Number (ECCN) 3B991 is amended by removing paragraph b.2.f.5. These items are already covered in paragraph b.2.f.1 of ECCN 3B991.

(7) ECCN 5A001 is amended by adding License Exception LVS eligibility to paragraph b.1. This corrects the inadvertent removal of LVS eligibility for underwater communications systems.

(8) ECCN 5A991 is amended by revising the paragraph references for paragraphs c.10.c and c.10.d to read c.11 and c.12, respectively. ECCN 5A991 is also amended by revising the phrase “5A001” to read “5A991” in Notes 1
and 2 to paragraph b.7 and in the Note to paragraph c.9.
(9) ECCN 5SB001 is amended by revising the phrase “employing coherent transmission” to read “employing coherent optical transmission” in paragraph b.2.c. This corrects an inadvertent omission and is consistent with the changes agreed to and implemented by the Wassenaar Arrangement.
(10) ECCN 5D001 is amended by adding the word “or” at the end of paragraph d.2.a and removing the word “or” at the end of paragraph d.4.b. This corrects an inadvertent omission and error and is consistent with the changes agreed to and implemented by the Wassenaar Arrangement.
(11) ECCN 5E001 is amended by adding the word “production” in paragraph c and removing the word “production” in the notes to paragraph c.2.e and c.4.b. This corrects an inadvertent omission and error and is consistent with the changes agreed to and implemented by the Wassenaar Arrangement.
(12) ECCN 5E091 is amended by revising the entry heading by adding “and other technologies as follows” and by revising the List of Items Controlled section to include paragraphs a.1 and a.2 for ‘technology’ for the processing and application of coatings to optical fiber specially designed to make it suitable for underwater use and “technology” for the “development” of equipment employing “Synchronous Digital Hierarchy” (“SDH”) or “Synchronous Optical Network” (“SONET”) techniques. These technologies were removed from ECCN 5E001 in the July 23 rule as they are no longer controlled for national security reasons, consistent with the changes agreed to and implemented by the Wassenaar Arrangement. However, anti-terrorism controls for these technologies should have been retained under ECCN 5E091. This rule corrects this inadvertent omission.
(13) ECCN 6A003 is amended by revising the phrase “time-delay-and-integration” to read “time-delay-and-integration” in the note to paragraph b.4. This corrects a typographical error and is consistent with the changes agreed to and implemented by the Wassenaar Arrangement.

Although the Export Administration Act (EAA) expired on August 20, 1994, the President invoked the International Emergency Economic Powers Act and continued in effect, the Export Administration Regulations and, to the extent permitted by law, the provisions of the EAA in Executive Order 12924 of August 19, 1994, as extended by the President’s notices of August 15, 1995 (60 FR 42767), August 14, 1996 (61 FR 42527), August 13, 1997 (62 FR 43629), August 13, 1998 (63 FR 44121), and August 13, 1999 (64 FR 44101).

Rulemaking Requirements
1. This final rule has been determined to be not significant for purposes of E.O. 12866.
2. Notwithstanding any other provision of law, no person is required to, nor shall any person be subject to a penalty for failure to comply with a collection of information, subject to the Paperwork Reduction Act (P.R.A.), unless that collection of information displays a currently valid OMB Control Number. This rule involves collection of information approved by the Office of Management and Budget under control numbers 0964–0106 and 0964–0088. This clarifies that the July 23, 1999 rule (64 FR 40106) referenced an incorrect collection of information number, 0694–0086, and instead should have referenced collection number 0694–0106.
3. This rule does not contain policies with Federalism implications sufficient to warrant preparation of a Federalism assessment under Executive Order 13132.
4. The provisions of the Administrative Procedure Act (5 U.S.C. 553) requiring notice of proposed rulemaking, the opportunity for public participation, and a delay in effective date, are inapplicable because this regulation involves a military and foreign affairs function of the United States (5 U.S.C. 553(a)(1)). Further, no other law requires that a notice of proposed rulemaking and an opportunity for public comment be given for this rule. Because a notice of proposed rulemaking and an opportunity for public comment are not required to be given for this rule under the Administrative Procedure Act or by any other law, the analytical requirements of the Regulatory Flexibility Act (5 U.S.C. 601 et seq.) are not applicable. Accordingly, this rule is issued in final form. However, comments from the public are always welcome. Comments should be submitted to Kirsten Mortimer, Regulatory Policy Division, Office of Export Services, Bureau of Export Administration, Department of Commerce, P.O. Box 273, Washington, DC 20044.

List of Subjects
15 CFR Parts 742 and 722
Exports, Foreign trade.
PART 742—[AMENDED]

§ 742.8 [Amended]

6. § 742.8 is amended by revising “5A991.f.” in paragraph (a)(2), to read “5A991.g.”

§ 742.10 [Amended]

7. § 742.10 is amended by revising “5A991.f.” in paragraph (a)(2), to read “5A991.g.”

Supplement to 742 [Amended]

8. Supplement No. 2 to part 742 is amended by revising the phrase “ECCNs 5A001.c and 5A991.c.” in the introductory text of paragraph (c)(29) to read “ECCN 5A991.c.”

PART 743—[AMENDED]

§ 743.1 [Amended]

9. § 743.1(c)(1)(v) is amended two places by revising “SA001.b.8.”, to read “SA001.b.3.”

PART 746—[AMENDED]

§ 746.7 [Amended]

10. § 746.7 is amended by revising, “5A991.f.” in paragraph (a)(2)(ii), to read “5A991.g.”

PART 772—[AMENDED]

11. Part 772 is amended by revising the phrase “with ISO/DIS 230/2” to read “with ISO/DIS 230/2 (1988)” in the definition for “positioning accuracy”.

PART 774—[AMENDED]

Supplement No. 1 to Part 774—The Commerce Control List

12. In Supplement No. 1 to part 774 (the Commerce Control List), Category 2—Materials Processing, at the beginning of Category 2B (Test, Inspection and Production Equipment), note 5 in “Notes for Category 2B” is amended by revising the phrase “in accordance with ISO 230/2” to read “in accordance with ISO 230/2 (1988)”.

13. In Supplement No. 1 to part 774 (the Commerce Control List), Category 3—Electronics, ECCN 3B991 is amended by revising the List of Items Controlled section, as follows:

### List of Items Controlled

**Unit**: Equipment in number.

**Related Controls**: N/A.

**Related Definitions**: N/A.

**Items**:

- **a.** Equipment specially designed for the manufacture of electron tubes, optical elements and specially designed components therefor controlled by 3A001 or 3A991;
- **b.** Equipment specially designed for the manufacture of semiconductor devices, integrated circuits and “assemblies”, as follows, and systems incorporating or having the characteristics of such equipment:

**Note:** 3B991.b also controls equipment used or modified for use in the manufacture of other devices, such as imaging devices, electro-optical devices, acoustic-wave devices.

**b.1.** Equipment for the processing of materials for the manufacture of devices and components as specified in the heading of 3B991.b, as follows:

- **Note:** 3B991 does not control quartz furnace tubes, furnace liners, paddles, boats (except specially designed caged boats), bubblers, cassettes or crucibles specially designed for the processing equipment controlled by 3B991.b.

**b.1.a.** Equipment for producing polycrystalline silicon and materials controlled by 3C001;

- **b.1.b.** Equipment specially designed for purifying or processing III/V and II/VI semiconductor materials controlled by 3C001, 3C002, 3C003, or 3C004, except crystal pullers, for which see 3B991.b.1.c below:

**b.1.c.** Crystal pullers and furnaces, as follows:

- **Note:** 3B991.b.1.c. does not control diffusion and oxidation furnaces.

**b.1.c.1.** Annealing or recrystallizing equipment other than constant temperature furnaces employing high rates of energy transfer capable of processing wafers at a rate exceeding 0.005 m² per minute;

- **b.1.c.2.** “Stored program controlled” equipment pullers having any of the following characteristics:

**b.1.c.2.a.** Rechargeable without replacing the crucible container;

- **b.1.c.2.b.** Equipment capable of operation at pressures above 2.5×10^10 Pa; or **b.1.c.2.c.** Equipment capable of pulling crystals of a diameter exceeding 100 mm;

- **b.1.d.** “Stored program controlled” equipment for epitaxial growth having any of the following characteristics:

**b.1.d.1.** Capable of producing a layer thickness uniformity across the wafer of equal to or better than ±1.5%;

- **b.1.d.2.** Rotation of individual wafers during processing;

- **b.1.e.** Molecular beam epitaxial growth equipment;

- **b.1.f.** Magnetically enhanced “sputtering” equipment with specially designed integral load locks capable of transferring wafers in an isolated vacuum environment;

- **b.1.g.** Equipment specially designed for ion implantation, ion-enhanced or photo-enhanced diffusion, having any of the following characteristics:

**b.1.g.1.** Patterning capability;

- **b.1.g.2.** Beam energy (accelerating voltage) exceeding 200 keV;

- **b.1.g.3.** Optimized to operate at a beam energy (accelerating voltage) of less than 10 keV; or

- **b.1.g.4.** Capable of high energy oxygen implant into a heated “substrate”;

- **b.1.h.** “Stored program controlled” equipment for the selective removal (etching) by means of anisotropic dry methods (e.g., plasma), as follows:

**b.1.h.1.** Batch types having either of the following:

- **b.1.h.1.a.** End-point detection, other than optical emission spectroscopy types; or

- **b.1.h.1.b.** Reactor operational (etching) pressure of 26.6 Pa or less; or

- **b.1.h.2.** Single wafer types having any of the following:

**b.1.h.2.a.** End-point detection, other than optical emission spectroscopy types; or

- **b.1.h.2.b.** Reactor operational (etching) pressure of 26.6 Pa or less; or

- **b.1.h.2.c.** Cassette-to-cassette and load locks wafer handling;

**Notes:** 1. “Batch types” refers to machines not specially desired for production processing of single wafers. Such machines can process two or more wafers simultaneously with common process parameters, e.g., RF power, temperature, etch gas species, flow rates.

2. “Single wafer types” refers to machines specially designed for production processing of single wafers. These machines may use automatic wafer handling techniques to load a single wafer into the equipment for processing. The definition includes equipment that can load and process several wafers but where the etching parameters, e.g., RF power or end point, can be independently determined for each individual wafer.

- **b.1.i.** “Chemical vapor deposition” (CVD) equipment, e.g., plasma-enhanced CVD (PECVD) or photo-enhanced CVD, for semiconductor device manufacturing, having either of the following capabilities, for deposition of oxides, nitrides, metals or polysilicon:

**b.1.i.1.** “Chemical vapor deposition” equipment operating below 10^5 Pa; or

- **b.1.i.2.** PECVD equipment operating either below 60 Pa (450 millitorr) or having automatic cassette-to-cassette and load lock wafer handling;

**Note:** 3B991.b.1.i. does not control low pressure “chemical vapor deposition” (LPCVD) systems or reactive “sputtering” equipment.

- **b.1.j.** Electron beam systems specially designed or modified for mask making or semiconductor device processing having any of the following characteristics:

**b.1.j.1.** Electrostatic beam deflection;

- **b.1.j.2.** Shaped, non-Gaussian beam profile;

- **b.1.j.3.** Digital-to-analog conversion rate exceeding 3 MHz;
b.1.c.1. Finished masks, reticles and designs therefor, having any of the following characteristics:

b.1.c.1.a. A positioning accuracy less than or equal to ± 0.25 micrometer; and/or
b.1.c.1.b. A registration accuracy in the X±Y plane of finer than ±0.125 micrometer.

Note: 3B991.b.1.d does not control general purpose scanning electron microscopes except when specially designed and instrumented for automatic pattern inspection.

b.1.c.2. Electron beam or X-ray equipment for producing multiple bonds in a single operation (e.g., beam lead bonders, chip carrier bonders, tape bonders); or
b.1.c.3. Semi-automatic or automatic hot cap sealers, in which the cap is heated locally to a higher temperature than the body of the package, specially designed for ceramic microcircuit packages controlled by 3A001 and that have a throughput equal to or more than one package per minute.

Note: 3B991.b.3 does not control general purpose resistance type spot welders.

b.4. Filters for clean rooms capable of providing an air environment of 10 or less particles of 0.3 micrometer or smaller per 0.02832 m³ and filter materials therefor.

14. In Supplement No. 1 to part 774 (the Commerce Control List), Category 5—Telecommunication and Information Security, Part 1—Telecommunications is amended:

a. By revising the License Exceptions section for ECCN 5A001; and
b. By revising the List of Items Controlled section for ECCNs 5A991, 5B001, 5D001, and 5E001; and

By revising the entry heading and List of Items Controlled section for ECCN 5E991, as follows:

5A001 Telecommunications systems, equipment, and components.

* * * * *

License Exceptions

LVS: N/A for 5A001.a and b.4
$5000 for 5A001.b.1, b.2, b.3, b.5, and .d
$3000 for 5A001.c
GBS: Yes, except 5A001.a and b.4
CIV: Yes, except 5A001.a, b.3 and b.4

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5A991 Telecommunication equipment, not controlled by 5A001.

* * * * *

List of Items Controlled

Unit: $ value.

Related Controls: N/A.

Related Definitions: N/A.

Items:

a. Any type of telecommunications equipment, not controlled by 5A001.a, specially designed to operate outside the temperature range from 219 K (–45 °C) to 397 K (124 °C).

b. Telecommunication transmission equipment and systems, and specially designed components and accessories therefor, having any of the following characteristics, functions or features:

Note: Telecommunication transmission equipment:

Categorized as follows, or combinations thereof:

1. Radio equipment (e.g., transmitters, receivers and transceivers);
2. Line terminating equipment;
3. Intermediate amplifier equipment;
4. Repeat equipment;
5. Regenerator equipment;
6. Translation encoders (transcoders);
7. Multiplex equipment (statistical multiplex included);
8. Modulators/demodulators (modems);
9. Transmultiplex equipment (see CCITT Rec. G701);
10. “Stored program controlled” digital crossconnection equipment;
11. “Gateways” and bridges;
12. “Media access units”; and
b. Designed for use in single or multichannel communication via any of the following:
   1. Wire (line);
   2. Coaxial cable;
   3. Optical fiber cable;
   4. Electromagnetic radiation; or
5. Underwater acoustic wave propagation.

b.1. Employing digital techniques, including digital processing of analog signals, and designed to operate at a “digital transfer rate” at the highest multiplex level exceeding 45 Mbit/s or a “total digital transfer rate” exceeding 90 Mbit/s.

Note: 5A991.b.1 does not control equipment specially designed to be integrated and operated in any satellite system for civil use.

b.2. Modems using the “bandwidth of one voice channel” with a “data signalling rate” exceeding 9,600 bits per second;

b.3. Being “stored program controlled” digital cross connect equipment with a “digital transfer rate” exceeding 8.5 Mbit/s per port.

b.4. Being equipment containing any of the following:
   b.4.a. “Network access controllers” and their related common medium having a “digital transfer rate” exceeding 33 Mbit/s; or
   b.4.b. “Communication channel controllers” with a digital output having a “data signalling rate” exceeding 64,000 bit/s per channel;

Note: If any uncontrolled equipment contains a “network access controller”, it cannot have any type of telecommunications interface, except those described in, but not controlled by 5A991.b.4.

b.5. Employing a “laser” and having any of the following characteristics:
   b.5.a. A transmission wavelength exceeding 750 nm; or
   b.5.b. Employing analog techniques and having a bandwidth exceeding 45 MHz.

Note: 5A991.b.5.b does not control commercial TV systems.

b.5.c. Employing coherent optical transmission or coherent optical detection techniques (also called optical heterodyne or homodyne techniques);

b.5.d. Employing wavelength division multiplexing techniques; or

b.5.e. Performing “optical amplification”;

b.6. Radio equipment operating at input or output frequencies exceeding:

b.6.1. 31 GHz for satellite-earth station applications; or

b.6.2. 26.5 GHz for other applications.

Note: 5A991.b.6 does not control equipment for civil use when conforming with an International Telecommunications Union (ITU) allocated band between 26.5 GHz and 31 GHz.

b.7. Being radio equipment employing any of the following:
   b.7.a. Quadrature-amplitude-modulation (QAM) techniques above level 4 if the “total digital transfer rate” exceeds 8.5 Mbit/s;
   b.7.b. QAM techniques above level 16 if the “total digital transfer rate” is equal to or less than 8.5 Mbit/s; or
   b.7.c. Other digital modulation techniques and having a “spectral efficiency” exceeding 3 bit/sec/Hz;

Notes: 1. 5A991.b.7 does not control equipment specially designed to be integrated and operated in any satellite system for civil use.
2. 5A991.b.7 does not control radio relay equipment for operation in an ITU allocated band:
   a. Having any of the following:
      a.1. Not exceeding 960 MHz; or
      a.2. With a “total digital transfer rate” not exceeding 8.5 Mbit/s; and
   b. Having a “spectral efficiency” not exceeding 4 bit/sec/Hz.

b.8. Providing functions of digital “signal processing” as follows:
   b.8.a. Voice coding at rates less than 2,400 bit/s; or
   b.8.b. Employing circuitry that incorporates “user-accessible programmability” of digital “signal processing” circuits exceeding the limits of 4A003.b.

c. “Stored program controlled” switching equipment, having any of the following characteristics, functions or features, and specially designed components and accessories therefor:

Note: Statistical multiplexers with digital input and digital output which provide switching are treated as “stored program controlled” switches.

c.1. “Data (message) switching” equipment or systems designed for “packet-mode operation” and assemblies and components therefor, n.e.s.

c.2. Containing “Integrated Services Digital Network” (ISDN) functions and having any of the following:
   c.2.a. Switch-terminal (e.g., subscriber line) interfaces with a “digital transfer rate” at the highest multiplex level exceeding 192,000 bit/s, including the associated signalling channel (e.g., 2B+D); or
   c.2.b. The capability that a signalling message received by a switch on a related channel is related to a communication on another channel may be passed through to another switch.

Note: 5A991.c does not preclude control of traffic as a function of predictable statistical traffic conditions.

f. Phase array antennae, operating above 10.5 GHz, containing active elements and distributed components, and designed to permit electronic control of beam shaping and pointing, except for landing systems with instruments meeting International Civil Aviation Organization (ICAO) standards (microwave landing systems (MLS)).

g. Mobile communications equipment, n.e.s., and assemblies and components therefor; or

h. Radio relay communications equipment designed for use at frequencies equal to or exceeding 19.7 GHz and assemblies and components therefor, n.e.s.

5B001—Telecommunication test, inspection and production equipment, as follows (See List of Items Controlled).

List of Items Controlled

Unit: Equipment in number; parts and accessories in $ value.

Related Controls: See also 5B991.

Related Definition: N/A.

Items

a. Equipment and specially designed components or accessories therefor, specially designed for the “development”, “production” or “use” of equipment, functions or features controlled by 5A001, 5D001 or 5E001.

Note: 5B001.a. does not control optical fiber characterization equipment not using semiconductor “lasers”.

b. Equipment and specially designed components or accessories therefor, specially designed for the “development” of any of the following telecommunication transmission or “stored program controlled” switching equipment:
   b.1. Equipment employing digital techniques, including “Asynchronous Transfer Mode” (“ATM”), designed to operate at a “total digital transfer rate” exceeding 1.5 Gbit/s;
   b.2. Equipment employing a “laser” and having any of the following:
      b.2.a. A transmission wavelength exceeding 1750 nm;
      b.2.b. Performing “optical amplification”;
      b.2.c. Employing coherent optical transmission or coherent optical detection techniques (also called optical heterodyne or homodyne techniques); or
      b.2.d. Employing analogue techniques and having a bandwidth exceeding 2.5 GHz;
   Note: 5B001.b.2.d. does not include equipment specially designed for the “development” of commercial TV systems.
   b.3. Equipment employing “optical switching”;
   b.4. Radio equipment having any of the following:
      b.4.a. Quadrature-amplitude-modulation (QAM) techniques above level 128; or
      b.4.b. Operating at input or output frequencies exceeding 31 GHz; or
   Note: 5B001.b.4.b. does not include equipment specially designed for the “development” of equipment designed or modified for operation in any ITU allocated band.

b. Equipment employing “common channel signalling” operating in either the non-associated mode of operation.

5D001 “Software”, as described in the List of Items Controlled.
   * * * * *

List of Items Controlled
   Unit: $ value.
   Related Controls: See also 5E101 and 5E991.
   Related Definitions: N/A.
   Items:
   a. “Technology” according to the General Technology Note for the “development”, “production” or “use” (excluding operation) of equipment, features or software “software” controlled by 5A001, 5B001 or 5D001.
   b. Specific “technologies”, as follows:
      b.1. “Required” “technology” for the “development” or “production” of telecommunications equipment specially designed to be used on board satellites; b.2. “Technology” for the “development” or “use” of “laser” communication techniques with the capability of automatically acquiring and tracking signals and maintaining communications through exosphere or exosphere (water) media; b.3. “Technology” for the “development” of digital cellular radio systems; b.4. “Technology” for the “development” of “spread spectrum” or “frequency agility” (frequency hopping) techniques.
   c. “Technology” according to the General Technology Note for the “development” or “production” of any of the following telecommunication transmission or “stored program controlled” switching equipment, features or software:
      c.1. Equipment employing digital techniques, including “Asynchronous Transfer Mode” (“ATM”), designed to operate at a “total digital transfer rate” exceeding 1.5 Gbit/s;
      c.2. Equipment employing a “laser” and having any of the following:
         c.2.a. A transmission wavelength exceeding 1750 nm;
         c.2.b. Performing “optical amplification” using praseodymium-doped fluoride fiber amplifiers (PFFDA);
         c.2.c. Employing coherent optical transmission or coherent optical detection techniques (also called optical heterodyne or homodyne techniques);
   c.3. Equipment employing “optical switching”; or
   c.4. Radio equipment having any of the following:
      c.4.a. Quadrature-amplitude-modulation (QAM) techniques above level 128; or
      c.4.b. Operating at input or output frequencies exceeding 31 GHz; or
   Note: 5E001.c.4.b. does not include “technology” for the “development” of commercial TV systems.
   c.5. Equipment employing “common channel signalling” operating in either non-associated or quasi-associated mode of operation.

5E991 “Technology” for the “Development”, “Production” or “Use” of Equipment Controlled by 5A991 or 5B991, or “Software” Controlled by 5D991, and Other “Technologies” as Follows (see List of Items Controlled)
   * * * * *

List of Items Controlled
   Unit: $ value.
   Related Controls: N/A.
   Related Definitions: N/A.
   Items:
   a. Specific “technologies” as follows: a.1. “Technology” for the processing and application of coatings to optical fiber specially designed to make it suitable for underwater use;
   a.2. “Technology” for the “development” of equipment employing “Synchronous Digital Hierarchy” (“SDH”) or “Synchronous Optical Network” (“SONET”) techniques.

15. In Supplement No. 1 to part 774 (the Commerce Control List), Category 6—Sensors and Lasers, ECCN 6A003 is amended by revising the List of Items Controlled section, as follows:

6A003 Cameras
   * * * * *

List of Items Controlled
   Unit: Number.
   Related Controls: See also 6A203. See 8A002.d and .e for cameras specially designed or modified for underwater use.
   Related Definitions: N/A.
   Items:
   a. Instrumentation cameras, as follows: a.1. High-speed cinema recording cameras using any film format from 8 mm to 16 mm inclusive, in which the film is continuously advanced throughout the recording period,
and that are capable of recording at framing rates exceeding 13,150 frames/s.

Note: 6A003.a.1 does not control cinema recording cameras designed for civil purposes.

a.2. Mechanical high speed cameras, in which the film does not move, capable of recording at rates exceeding 1,000,000 frames/s for the full framing height of 35 mm film, or at proportionately higher rates for lesser frame heights, or at proportionately lower rates for greater frame heights;

a.3. Mechanical or electronic streak cameras having writing speeds exceeding 10 mm/\mu s; or

a.4. Electronic framing cameras having a speed exceeding 1,000,000 frames/s; or

a.5. Electronic cameras, having all of the following:

a.5.a. An electronic shutter speed (gating capability) of less than 1 \mu s per full frame; and

a.5.b. A read out time allowing a framing rate of more than 125 full frames per second.

b. Imaging cameras, as follows:

Note: 6A003.b does not control television or video cameras specially designed for television broadcasting.

b.1. Video cameras incorporating solid state sensors, having any of the following:

b.1.a. More than \(4 \times 10^6\) “active pixels” per solid state array for monochrome (black and white) cameras;

b.1.b. More than \(4 \times 10^6\) “active pixels” per solid state array for color cameras incorporating three solid state arrays; or

b.1.c. More than \(12 \times 10^6\) “active pixels” per solid state array color cameras incorporating one solid state array;

b.2. Scanning cameras and scanning camera systems, having all of the following:

b.2.a. Linear detector arrays with more than 8,192 elements per array; and

b.2.b. Mechanical scanning in one direction;

b.3. Imaging cameras incorporating image intensifier tubes having the characteristics listed in 6A002.a.2.a;

b.4. Imaging cameras incorporating “focal plane arrays” having the characteristics listed in 6A002.a.3.

Note: 6A003.b.4 does not control imaging cameras incorporating linear “focal plane arrays” with twelve elements or fewer, not employing time-delay-and-integration with the element, designed for any of the following:

a. Industrial or civilian intrusion alarm, traffic or industrial movement control or counting systems;

b. Industrial equipment used for inspection or monitoring of heat flows in buildings, equipment or industrial processes;

c. Industrial equipment used for inspection, sorting or analysis of the properties of materials;

d. Equipment specially designed for laboratory use; or

e. Medical equipment.


R. Roger Majak,
Assistant Secretary for Export Administration.

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SECURITIES AND EXCHANGE COMMISSION

17 CFR Part 232

[Release Nos. 33–7758; 34–42789; 35–27177; 39–2385; IC–24455]

RIN 3235–AG96

Adoption of Updated EDGAR Filer Manual

AGENCY: Securities and Exchange Commission.

ACTION: Final rule.

SUMMARY: The Commission is adopting revisions to the EDGAR Filer Manual and is providing for their incorporation by reference into the Code of Federal Regulations. In conjunction with the transition to the new capabilities made available in EDGAR Release 7.0, we will be redesignating the components of the Filer Manual into three parts: Volume I discusses the old (Legacy) EDGAR filing system; Volume II discusses modernized EDGAR and all its new features; and the N–SAR Supplement discusses the filing of N–SAR documents. Today, we are adopting new provisions to the Filer Manual that describe the modernized EDGAR system implemented in EDGAR Release 7.0. These new provisions are designated as Volume II of the EDGAR Manual.


FOR FURTHER INFORMATION CONTACT: In the Office of Information Technology, Richard Heroux at (202) 942–8800; for questions concerning investment company filings, Ruth Armfield Sanders, Senior Special Counsel, or Shaswat K. Das, Attorney, Division of Investment Management, at (202) 942–0978; and for questions concerning Corporation Finance company filings, Herbert Scholl, Office Chief, EDGAR and Information Analysis, Division of Corporation Finance, at (202) 942–2930.

SUPPLEMENTARY INFORMATION: Today we are adopting a new Volume II of the EDGAR Filer Manual (“Filer Manual”), which describes the technical formatting requirements for the preparation and submission of electronic filings through the Electronic Data Gathering, Analysis, and Retrieval (EDGAR) system. Volume II describes the requirements for filing using the new EDGARLink.

Previously, the EDGAR Manual was composed of two parts. With the addition of Volume II, the EDGAR Manual will consist of three parts because we will be maintaining two separate software applications for the preparation and transmission of filings until at least November 1, 2000. We are doing this to provide filers abundant time to transition to the new modernized system.

Volume II of the Manual contains all the new technical specifications for filers to submit filings using the modernized EDGAR system available in Release 7.0. The specifications include features that will be available for the first time to filers using the new EDGARLink software, such as expanded hyperlinks, graphics, and filing over the Internet. We also plan shortly to adopt revised versions of the remaining parts of the Manual. These revisions will reflect the limited changes effected by EDGAR Release 7.0 to the Legacy EDGAR systems and Form N–SAR filing. Until we do, the provisions of EDGAR Manual Release 6.75 and N–SAR Supplement for Release 6.1 will continue to apply to filers using the Legacy EDGAR system and to filers filing Form N–SAR.

Filers must comply with the applicable provisions of the Filer Manual in order to assure the timely acceptance and processing of filings made in electronic format. Filers should consult the Filer Manual in conjunction with our rules governing mandated electronic filing when preparing documents for electronic submission.


2 This is the Filer Assist software we provide filers filing on the EDGAR system.

3 See Rule 301 Regulation S–T (17 CFR 232.301).

4 See Release Nos. 33–6977 (Feb. 23, 1993) [58 FR 18628], IC–19284 (Feb. 23, 1993) [58 FR 18488], and 35–25746 (Feb. 23, 1993) [58 FR 14999], and 33–6980 (Feb. 23, 1993) [58 FR 15009] in which we comprehensively discuss the rules we adopted to govern mandated electronic filing. See also Release No. 33–7122 (Dec. 19, 1994) [59 FR 67752], in which we made the EDGAR rules final and applicable to all domestic registrants; Release No. 33–7427 (July 1, 1997) (62 FR 36450), in which we