STATUTORY INSTRUMENTS

1961 No. 1604

CUSTOMS AND EXCISE

The Export of Goods (Control) Order, 1960, (Amendment No. 3) Order, 1961

Made - - - - 18*th August*, 1961
Coming into Operation 12*th September*, 1961

The Board of Trade, in exercise of the powers conferred upon them by section 1 of the Import, Export and Customs Powers (Defence) Act, 1939(a), hereby order as follows:—

1. The Export of Goods (Control) Order, 1960(b), as amended (c), shall have effect as if the First Schedule were amended in the manner specified in the Schedule hereto.

2.—(1) The Interpretation Act, 1889(d), shall apply to the interpretation of this Order as it applies to the interpretation of an Act of Parliament.

(2) This Order may be cited as the Export of Goods (Control) Order, 1960, (Amendment No. 3) Order, 1961, and shall come into operation on the 12th day of September, 1961.

Dated this 18th day of August, 1961.

G. Bowen,
An Under Secretary
of the Board of Trade.

SCHEDULE

Amendments to the First Schedule

In Group 2:—

delete the entry relating to centrifuges and centrifuge bowls, and substitute:—

"Centrifuges, gas, capable of the enrichment or separation of isotopes A":

delete the entry relating to dosimeters, and substitute:—

"Dosimeters, personal radiation monitoring, capable of measuring (*a*) in one exposure a dosage between 25 and 800 roentgens, or (*b*) dose rates of between 1 and 80 roentgens per hour ... ... A
other than—
(1) film dosimeters;
(2) dosimeters designed specially for use with medical radiation equipment.":

delete the entry relating to electrolytic cells, and substitute:—

"Electrolytic cells for the production of fluorine, with a production capacity greater than 100 grammes of fluorine per hour ... ... A":

(a) 2 & 3 Geo. 6. c. 69. (b) S.I. 1960/1296 (1960 I, p. 1137).
(c) S.I. 1960/2045, 1961/1034 (1960 I, p. 1168; 1961 II, p. 2024).
(d) 52 & 53 Vict. c. 63.

delete the entry relating to furnaces, vacuum induction:

delete the entry relating to heat exchangers, and substitute:—

"Heat exchangers, designed for use in gaseous diffusion plants, designed to operate at sub-atmospheric pressure, with a leak rate of less than 10^{-4} atmospheres per hour under a pressure differential of 1 atmosphere, the following:—

(1) Types wholly made of aluminium, copper or nickel or alloys containing more than 60 per cent. of nickel, separately or together A

(2) Types incorporating tubing clad with aluminium, copper or nickel or alloys containing more than 60 per cent. of nickel separately or together and in which the other parts are made wholly of the foregoing metals, separately or together ... ... A":

delete the entry relating to nuclear reactors, and substitute:—

"Nuclear reactors capable of operation so as to maintain a controlled self-sustaining fission chain reaction; and sub-assemblies, components and parts specially designed for use therefor ... ... A":

delete the entry relating to refractory goods:

after the entry relating to thorium, insert:—

"Tritium and compounds containing tritium in which the ratio by number of tritium atoms to hydrogen atoms exceeds 1 to 1,000 ... ... A":

In Group 3:—

in the entry relating to communication, navigation, direction finding and radar equipment, under the sub-head relating to airborne navigation equipment and direction finding equipment, delete

"(*d*) Equipment, direction finding, operating at frequencies greater than 5 megacycles per second.", and substitute:—

"(*d*) Equipment, direction finding, operating at frequencies greater than 5 megacycles per second, other than equipment designed for search and rescue purposes provided that the receiver operates on a crystal controlled fixed frequency of 121·5 megacycles per second and that the determination of the direction finding bearing is not independent of the heading of the aircraft and provided that the direction finding antenna array is designed for operation at a fixed frequency of 121·5 megacycles per second.":

delete the entry relating to computers, electronic, and substitute:—

"Computers, electronic, (other than office calculating machines), and specialised components, parts, sub-assemblies and accessories therefor.":

delete the entry relating to control equipment, and substitute:—

"Control equipment, the following:—

(1) Synchros and resolvers possessing any of the following characteristics:—

(*a*) a rated electrical error of 10 minutes or less or of 0·5 per cent. or less of maximum output voltage;

(*b*) a rated dynamic accuracy for receiver types of 1° or less, except that for units of size 30 (3 inches in diameter) or larger a rated dynamic accuracy of less than 1°;

(*c*) multi-speed from single-shaft types;

(*d*) of size 11 (1·1 inches in diameter) and smaller;

(*e*) types employing solid state Hall effect;

(*f*) types designed for gimbal mounting;

(*g*) types designed to operate below −55° Centigrade or above 125° Centigrade;

and special instruments (including microsyns, synchro-tels and inductosyns) rated to have any of the characteristics specified in (*a*), (*b*) and (*g*) of this sub-head.

(2) Amplifiers, electronic or magnetic, specially designed for use with resolvers, the following:—

(*a*) Isolation types having a variation of gain constant (linearity of gain) of 0·5 per cent. or better ; or

(*b*) Summing types having a variation of gain constant (linearity of gain) or an accuracy of summation of 0·5 per cent. or better ; or

(*c*) Types employing solid state Hall effect ; or

(*d*) Types designed to operate below −55° Centigrade or above 125° Centigrade.

(3) Induction potentiometers (including function generators and linear synchros), linear and non-linear, possessing any of the following characteristics :—

(*a*) a rated conformity of 0·5 per cent. or less, or of 18 minutes or less ;

(*b*) of size 11 (1·1 inches in diameter) or smaller ;

(*c*) types employing solid state Hall effect ;

(*d*) types designed for gimbal mounting ;

(*e*) types designed to operate below −55° Centigrade or above 125° Centigrade.

(4) Induction rate (tachometer) generators, synchronous and asynchronous, the following :—

(*a*) Types with a rated linearity of 0·5 per cent. or less ;

(*b*) All temperature-compensated or temperature-corrected types ;

(*c*) Types of size 11 (1·1 inches in diameter) and smaller ;

(*d*) Types employing solid state Hall effect ;

(*e*) Types designed to operate below −55° Centigrade or above 125° Centigrade.

(5) Servo-motors (gear-head or plain), the following :—

(*a*) Types designed to operate from power sources of more than 300 cycles per second (other than those designed to operate from power sources of over 300 cycles per second up to but not exceeding 400 cycles per second with a temperature range of from −10° Centigrade to 55° Centigrade) ; or

(*b*) Types designed to have a torque-to-inertia ratio of 10,000 radians per second per second or greater ; or

(*c*) Types incorporating special features to secure internal damping ; or

(*d*) Types of size 11 (1·1 inches in diameter) and smaller ; or

(*e*) Types employing solid state Hall effect ; or

(*f*) Types designed to operate below −55° Centigrade or above 125° Centigrade.

(6) Potentiometers, other than potentiometers using only switched elements, the following :—

(*a*) Linear potentiometers having a constant resolution and a rated linearity of 0·1 per cent. or less ;

(*b*) Non-linear potentiometers having a variable resolution and a rated conformity of :—

(i) 1 per cent. or less when the resolution is inferior to that obtained with a linear potentiometer of the same type and of the same track length ; or

(ii) 0·5 per cent. or less when the resolution is better than or equal to that obtained with a linear potentiometer of the same type and of the same track length ;

(*c*) Types designed for gimbal mounting ;

(*d*) Types designed to operate below −55° Centigrade or above 125° Centigrade ;

and special instruments (including Vernistats) rated to have any of the characteristics specified in (*a*), (*b*) or (*d*) of this sub-head.

(7) Direct current and alternating current torquers, (torque motors specially designed for gyros and stabilised platforms).

(8) Electrical-optical devices designed to monitor relative rotation of remote surfaces.

(9) Synchronous motors, the following :—

(*a*) Types having synchronous speeds in excess of 3,000 revolutions per minute ; or

(*b*) Types designed to operate from power sources of more than 400 cycles per second ; or

(*c*) Types designed to operate below −10° Centigrade or above 55° Centigrade ; or

(*d*) Types of size 11 (1·1 inches in diameter) or smaller.

(10) Ball-and-disc or cylinder-and-ball mechanical integrators, and mechanical ball resolvers.

(11) Analogue-to-digital and digital-to-analogue converters, the following :—

(*a*) Electrical-input types possessing :—

(i) a peak conversion rate capability in excess of 50,000 complete conversions per second ; or

(ii) an accuracy in excess of 1 part in more than 10,000 of full scale ; or

(iii) a figure of merit of 5×10^6 (derived from the number of complete conversions per second divided by the accuracy) ;

(*b*) Mechanical input types, including shaft position encoders and linear displacement encoders, but excluding Complex servo-follower systems, the following :—

(i) rotary types having an accuracy of maximum incremental accuracy better than ±1 part in 10,000 of full scale, or of size 11 (1·1 inches in diameter) and smaller ;

(ii) linear displacement types having an accuracy better than ±5 microns ; or

(*c*) Types employing solid state Hall effect ; or

(*d*) Types designed to operate below −55° Centigrade or above 125° Centigrade.

(12) Specially designed components, parts, sub-assemblies and test equipment (including adaptors and couplers) for the equipment specified in sub-heads (1), (2), (3), (4), (5), (6), (7), (8), (9), (10) and (11).":

in the entry relating to electronic and precision instruments and apparatus, delete the sub-head (1) relating to electronic measuring, testing or calibrating instruments, and substitute:—

"(1) Electronic measuring, testing or calibrating instruments having one or more of the following characteristics:—

(*a*) designed for use at frequencies in excess of 500 megacycles per second,

other than—

(i) the radio spectrum analysers specified elsewhere in this Group;

(ii) signal generators or mixers using self excited oscillators, with an overall frequency accuracy figure greater than 1·0 per cent., operating at less than 1,000 megacycles per second, and not having more than 2 rated output reference levels;

(*b*) testing instruments rated to maintain their specified operating data when operating over a range of ambient temperatures extending from below −25° Centigrade to above 55° Centigrade.":

under the sub-head (2) relating to cathode-ray oscilloscopes, after item (*b*) relating to amplifiers and pre-amplifiers, insert:—

"(*c*) Electronic devices (sampling devices) for stroboscopic analysis of a signal, whether sub-assemblies or separate units, designed to be used in conjunction with cathode-ray oscilloscopes to permit the analysis of recurring phenomena, which increase the capabilities of a cathode-ray oscilloscope to permit measurements within the limits of the apparatus mentioned under item (2) (*a*) (i) of this entry, or to achieve its operation within the limits of item (2) (*a*) (ii) of this entry.":

delete the entry relating to electronic cathode-ray tubes, vacuum tubes or valves, and substitute:—

"Electronic cathode-ray tubes, vacuum tubes or valves, the following:—

(1) Cathode-ray tubes—

(*a*) with a resolving power of 500 lines or more per inch, using the shrinking raster method of measurement;

(*b*) specially designed for apparatus of the kinds described in the entry in this Group relating to apparatus designed to jam or otherwise interfere with radio reception;

(*c*) with writing speeds of more than 3,000 kilometres per second;

(*d*) with three or more electron guns, other than 3-gun colour television tubes designed for entertainment use;

(*e*) alpha-numeric and similar data or information display tubes (display being obtained by scanning or other means), other than those tubes in which the displayed position of each character is fixed.

(2) Image converter tubes, image intensifier tubes and electronic storage tubes including memory transformers of radar pictures and ruggedised vidicon-type tubes but excluding other television camera tubes and X-ray intensifier tubes.

(3) Thyratron and modulator gas-discharge tubes, rated for continuous operation with peak current and peak voltage exceeding 100 amperes and 9,000 volts at a pulse repetition frequency of 200 or more pulses per second.

(4) Hydrogen thyratron tubes of any rating.

(5) Valves, constructed with a ceramic envelope and designed for frequencies in excess of 60 megacycles per second, and specialised parts therefor.

(6) Valves designed for operation in ambient temperatures exceeding 100° Centigrade, and specialised parts therefor.

(7) Valves designed to withstand—

(*a*) sinusoidal vibration at peak accelerations greater than 5*g* for a total period in excess of 100 hours at any one frequency between 25 and 170 cycles per second; or

(*b*) swept frequency sinusoidal vibrations between 60 and 1,000 cycles per second, with a minimum swept frequency of 5 to 1, at a peak acceleration greater than 4*g* for a total period in excess of 200 hours; or

(*c*) acceleration of short duration (shock) greater than 1,000*g*;

and specialised parts therefor.

(8) Valves indirectly heated, of a kind that can be passed through a circular hole 7·2 millimetres in diameter, and specialised parts therefor.

(9) Valves, the following:—

(*a*) Klystrons, magnetrons and travelling wave tubes;

(*b*) All other valves of the kind in which the velocity of the electrons is utilised as one of the functional parameters other than diodes, diode-triodes, heptodes, hexodes, pentodes, tetrodes, triodes and triode-pentodes;

and specialised parts therefor.

(10) Valves—

(*a*) rated for CW operation over the frequency range of 300 to 600 megacycles per second and for which (at any part of this frequency range and under any condition of cooling) the product of frequency of operation in megacycles per second squared and the power output in watts from the anode or anodes of a single envelope at this frequency exceeds 10^7 when the valve is operating in Class C telegraphy key down conditions, or in Class C FM telephony conditions, or, if performance under those conditions is not known, the product of declared maximum frequency of full ratings in megacycles per second squared and the maximum rated anode dissipation per valve in watts exceeds 5×10^6;

(*b*) rated for operation above 600 megacycles per second;

(*c*) rated for pulse operation above 300 megacycles per second;

(*d*) having external anode or anodes rated for operation above 300 megacycles per second;

and specialised parts therefor.

(11) X-ray tubes, flash discharge types.":

delete the entry relating to magnetic recorders or reproducers:

delete the entry relating to photo-electric cells, and substitute:—

"Photo-electric cells (other than germanium photo cells with a peak response less than 17,500 ångströms), the following:—

Photo-electric cells, photo-conductive cells (including photo-transistors and similar cells) with a peak sensitivity at a wave-length longer than 12,000 ångströms.

Photo-transistors (photo-conductive cells including photo-diodes) with a response time constant of one millisecond or less measured at the operating temperature of the cell for which the time constant reaches a minimum.":

in the entry relating to radio transmitters and components, under the sub-head (1) relating to transmitters or transmitter amplifiers, delete item (*a*), and substitute:—

"(*a*) at output carrier frequencies between 108 megacycles per second and 156 megacycles per second, other than equipment designed for search and rescue purposes where such equipment comprises an omni-directional beacon and operates on a single crystal-controlled fixed frequency of 121·5 megacycles per second; or":

after the entry relating to radio transmitters and components, insert:—

"Recording or reproducing equipment, the following:—

(1) Equipment using magnetic techniques (other than equipment specially designed for voice or music including such equipment containing one control channel).

(2) Equipment using electrothermal or electrostatic recording techniques employing electron beams operating in a vacuum or employing other means to provide a charge pattern directly on the recording surface (other than document copying equipment which employs electrothermal or electrostatic techniques to reproduce, on specially sensitised media, documents with which the media are in physical contact at the time of reproduction).

(3) Specialised equipment for the read-out of material recorded by the equipment specified in (2).

(4) Specialised recording media (tapes, drums, discs and matrices) for use with the equipment specified in (1), (2) and (3).

(5) Specialised components and parts for the equipment specified in (1), (2), (3) and (4).":

In Group 4:—

delete "*mono*Chlorodifluoromethane.":

after the entry relating to guanidine nitrate, insert:—

"Hafnium compounds ... ... A":

delete the entry "Zirconium compounds" and the entry relating to zirconium oxide, and substitute:—

"Zirconium compounds, other than zirconium oxide thermally stabilised with calcium oxide or magnesium oxide or both ... ... A":

In Group 5:—

in the entry relating to beryllium, add a third item:—,

"Manufactures wholly or mainly by weight of beryllium, other than windows for medical X-ray machines ... ... A":

after the entry relating to boron, insert:—

"Calcium containing less than 100 parts per million by weight of impurities other than magnesium and less than 10 parts per million by weight of boron ... ... A":

after the entry relating to germanium, insert:—

"Hafnium and alloys containing more than 15 per cent. of hafnium, in form I, II or III ... ... A":

in the entry relating to nickel, delete sub-head (4) and substitute:—

"(4) Nickel powder with a particle size less than 200 microns, whether compacted or not ... ... A":

In Group 6:—

delete the entry relating to bearings, ball and roller, and substitute:—

"Bearings, ball and roller (and plummer blocks, brackets, hangers and pedestals incorporating such bearings), the following:—

Ball bearings.

Cylindrical roller bearings, but not including needle roller bearings or thrust roller bearings.

Inner rings, outer rings, retainers and sub-assemblies for the foregoing.

Balls and cylindrical rollers, other than needle rollers.":

in the entry relating to furnaces, electric, after the entry relating to electron beam vacuum furnaces, insert:—

"Cold crucible vacuum induction furnaces, designed to operate at pressures lower than 0·1 millimetre of mercury and at temperatures higher, 1,100° Centigrade, and specialised parts therefor.".

EXPLANATORY NOTE

(This Note is not part of the Order, but is intended to indicate its general purport.)

This Order further amends the Export of Goods (Control) Order, 1960. The main changes are as follows:—

1. Export control is removed from the following goods irrespective of the destination for which they are intended:—Refractory goods, *mono*Chlorodifluoromethane, and specified zirconium oxide.

2. Export control is removed from specified vacuum induction furnaces if they are destined for the Commonwealth, the Irish Republic or the United States of America.

3. Control is imposed on the export of tritium and certain tritium compounds, specified manufactures of beryllium, specified calcium, hafnium metal and alloys and compounds to all destinations, and on the export of specified components of electronic computers and on specialised parts of specified vacuum induction furnaces to countries other than Commonwealth countries, the Irish Republic and the United States of America. Control on the export of specified zirconium compounds is extended to exports to the Commonwealth, the Irish Republic and the United States of America.

4. The descriptions of goods to which export control applies have been amended in the case of centrifuges, dosimeters, electrolytic cells, heat exchangers, nuclear reactors, specified direction finding equipment, control equipment, electronic and precision instruments and apparatus, cathode-ray oscilloscopes, electronic cathode-ray tubes, vacuum tubes and valves, photoelectric cells, radio transmitters and transmitter amplifiers, recording and reproducing equipment, nickel powder and ball and roller bearings.