Council Regulation (EC) No 423/2007 of 19 April 2007 concerning restrictive measures against Iran (repealed)

COUNCIL REGULATION (EC) No 423/2007

of 19 April 2007

concerning restrictive measures against Iran (repealed)

THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty establishing the European Community, and in particular Articles 60 and 301 thereof,

Having regard to Council Common Position 2007/140/CFSP of 27 February 2007 concerning restrictive measures against Iran⁽¹⁾,

Having regard to the proposal from the Commission,

Whereas:

- (1) On 23 December 2006, the United Nations Security Council adopted Resolution 1737 (2006) (UNSCR 1737 (2006)) deciding that Iran should without further delay suspend all enrichment-related and reprocessing activities, as well as work on all heavy water-related projects, and take certain steps required by the International Atomic Energy Agency (IAEA) Board of Governors, which the United Nations Security Council deems essential to build confidence in the exclusively peaceful purpose of Iran's nuclear programme. In order to persuade Iran to comply with this mandatory decision, the United Nations Security Council decided that all Member States of the United Nations should apply a number of restrictive measures.
- (2) In line with UNSCR 1737 (2006), Common Position 2007/140/CFSP provides for certain restrictive measures against Iran. These measures include restrictions on exports and imports of goods and technology which could contribute to Iran's enrichment-related, reprocessing, or heavy water-related activities, or to the development of nuclear weapon delivery systems, a ban on the provision of related services, a ban on investment related to such goods and technology, a ban on procurement of relevant goods and technology from Iran, as well as the freezing of funds and economic resources of persons, entities and bodies engaged in, directly associated with or providing support for such activities or development.
- (3) These measures fall within the scope of the Treaty establishing the European Community and, therefore, notably with a view to ensuring their uniform application by economic operators in all Member States, Community legislation is necessary in order to implement them as far as the Community is concerned.
- (4) This Regulation derogates from existing Community legislation that provides for general rules on exports to, and imports from, third countries, and in particular from Council Regulation (EC) No 1334/2000 of 22 June 2000 setting up a Community regime

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

- for the control of exports of dual-use items and technology⁽²⁾, in so far as this Regulation covers the same goods and technology.
- (5) For reasons of expediency, the Commission should be empowered to publish the list of banned goods and technology and any amendments to it that will be adopted by the Sanctions Committee or the United Nations Security Council, and to amend the lists of persons, entities and bodies whose funds and economic resources should be frozen on the basis of decisions reached by the United Nations Security Council or by the Sanctions Committee.
- (6) As regards the procedure for establishing and amending the list referred to in Article 7(2) of this Regulation, the Council should exercise the corresponding implementing powers itself in view of the objectives of UNSCR 1737 (2006), notably to constrain Iran's development of sensitive technologies in support of its nuclear and missile programmes, and the proliferation-sensitive nature of the activities undertaken by the persons and entities supporting these programmes.
- (7) Member States should determine the penalties applicable to infringements of the provisions of this Regulation. The penalties provided for should be proportionate, effective and dissuasive.
- (8) In order to ensure that the measures provided for in this Regulation are effective, the latter should enter into force on the day of its publication,

HAS ADOPTED THIS REGULATION:

Article 1 U.K.

For the purposes of this Regulation only, the following definitions shall apply:

- (a) 'Sanctions Committee' means the Committee of the United Nations Security Council which was established pursuant to paragraph 18 of UNSCR 1737 (2006);
- (b) 'technical assistance' means any technical support related to repairs, development, manufacture, assembly, testing, maintenance, or any other technical service, and may take forms such as instruction, advice, training, transmission of working knowledge or skills or consulting services; including verbal forms of assistance;
- (c) the term 'goods' includes items, materials and equipment;
- (d) the term 'technology' includes software;
- (e) 'investment' means acquisition or extension of a participation in enterprises, including the acquisition in full of such enterprises and the acquisition of shares and securities of a participating nature;
- (f) 'brokering services' means activities of persons, entities and partnerships acting as intermediaries by buying, selling or arranging the transfer of goods and technology, or negotiating or arranging transactions that involve the transfer of goods or technology;
- (g) 'funds' means financial assets and benefits of every kind, including but not limited to:
 - (i) cash, cheques, claims on money, drafts, money orders and other payment instruments;

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

- (ii) deposits with financial institutions or other entities, balances on accounts, debts and debt obligations;
- (iii) publicly- and privately-traded securities and debt instruments, including stocks and shares, certificates representing securities, bonds, notes, warrants, debentures and derivatives contracts;
- (iv) interest, dividends or other income on or value accruing from or generated by assets;
- (v) credit, right of set-off, guarantees, performance bonds or other financial commitments;
- (vi) letters of credit, bills of lading, bills of sale; and
- (vii) documents showing evidence of an interest in funds or financial resources;
- (h) 'freezing of funds' means preventing any moving, transfer, alteration, use of, access to, or dealing with funds in any way that would result in any change in their volume, amount, location, ownership, possession, character, destination or other change that would enable the funds to be used, including portfolio management;
- (i) 'economic resources' means assets of every kind, whether tangible or intangible, movable or immovable, which are not funds but which may be used to obtain funds, goods or services;
- (j) 'freezing of economic resources' means preventing the use of economic resources to obtain funds, goods or services in any way, including, but not limited to, by selling, hiring or mortgaging them;
- (k) 'territory of the Community' means the territories of the Member States to which the Treaty is applicable, under the conditions laid down in the Treaty, including their airspace.

Article 2 U.K.

[F11.] It shall be prohibited:

- a to sell, supply, transfer or export, directly or indirectly, the following goods and technology, whether or not originating in the Community, to any natural or legal person, entity or body in, or for use in, Iran:
 - (i) all goods and technology contained in the Nuclear Suppliers Group and Missile Technology Control Regime lists. These goods and technology are listed in Annex I;
 - (ii) other goods and technology determined by the Sanctions Committee or the United Nations Security Council as goods and technology which could contribute to Iran's enrichment-related, reprocessing, or heavy water-related activities, or to the development of nuclear weapon delivery systems. These goods and technology are also listed in Annex I;
- b to participate, knowingly and intentionally, in activities the object or effect of which is to circumvent the prohibition referred to in point (a).
- [F12 Annex I shall not include goods and technology included in the Common Military List of the European Union⁽³⁾.]

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

Textual Amendments

F1 Inserted by Council Regulation (EC) No 618/2007 of 5 June 2007 amending Regulation (EC) No 423/2007 concerning restrictive measures against Iran.

Article 3 U.K.

- A prior authorisation shall be required for the sale, supply, transfer or export, directly or indirectly, of the goods and technology listed in Annex II, whether or not originating in the Community, to any natural or legal person, entity or body in, or for use in, Iran.
- Annex II shall include any goods and technology other than those included in Annex I, which could contribute to enrichment-related, reprocessing or heavy water-related activities, to the development of nuclear weapon delivery systems, or to the pursuit of activities related to other topics about which the International Atomic Energy Agency (IAEA) has expressed concerns or identified as outstanding.
- 3 Exporters shall supply the competent authorities with all relevant information required for their application for an export authorisation.
- The competent authorities of the Member States, as indicated in the websites listed in Annex III, shall not grant any authorisation for any sale, supply, transfer or export of the goods or technology included in Annex II, if they determine that the sale, supply, transfer or export thereof would contribute to one of the following activities:
 - a Iran's enrichment-related, reprocessing or heavy water-related activities;
 - b the development of nuclear weapon delivery systems by Iran; or
 - the pursuit by Iran of activities related to other topics about which the IAEA has expressed concerns or identified as outstanding.
- Under the conditions set out in paragraph 4, the competent authorities of the Member States, as indicated in the websites listed in Annex III, may annul, suspend, modify or revoke an export authorisation which they have already granted.
- Where they refuse to grant an authorisation, or annul, suspend, substantially limit or revoke an authorisation in accordance with paragraph 4, the Member States shall notify the other Member States and the Commission thereof and share the relevant information with them, while complying with the provisions concerning the confidentiality of such information of Council Regulation (EC) No 515/97 of 13 March 1997 on mutual assistance between the administrative authorities of the Member States and cooperation between the latter and the Commission to ensure the correct application of the law on customs and agricultural matters⁽⁴⁾.
- Before a Member State grants an export authorisation which has been denied by another Member State or States, in accordance with paragraph 4, for an essentially identical transaction and for which the denial is still valid, it will first consult the Member State or States which issued the denial as provided for in paragraphs 5 and 6. If, following such consultations, the Member State concerned decides to grant an authorisation, it shall inform the other Member States and the Commission thereof, providing all relevant information to explain the decision.

Article 4 U.K.

It shall be prohibited to purchase, import or transport the goods and technology listed in Annex I, from Iran, whether the item concerned originates in Iran or not.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

Article 5 U.K.

[F2] It shall be prohibited:

- a to provide, directly or indirectly, technical assistance related to the goods and technology listed in the Common Military List of the European Union, or related to the provision, manufacture, maintenance and use of goods included in that list, to any natural or legal person, entity or body in, or for use in, Iran;
- b to provide, directly or indirectly, technical assistance or brokering services related to the goods and technology listed in Annex I, or related to the provision, manufacture, maintenance and use of goods listed in Annex I, to any natural or legal person, entity or body in, or for use in, Iran;
- to provide investment to enterprises in Iran engaged in the manufacture of goods and technology listed in the Common Military List of the European Union or in Annex I;
- d to provide, directly or indirectly, financing or financial assistance related to the goods and technology listed in the Common Military List of the European Union or in Annex I, including in particular grants, loans and export credit insurance, for any sale, supply, transfer or export of such items, or for any provision of related technical assistance to any natural or legal person, entity or body in, or for use in, Iran;
- e to participate, knowingly and intentionally, in activities, the object or effect of which is to circumvent the prohibitions referred to in points (a) to (d).

The prohibitions set out in this paragraph shall not apply to non-combat vehicles which have been manufactured or fitted with materials to provide ballistic protection, intended solely for protective use of personnel of the EU and its Member States in Iran.]

2 The provision of:

- a technical assistance, or brokering services related to, goods and technology listed in Annex II and to the provision, manufacture, maintenance and use of these items, directly or indirectly to any person, entity or body in, or for use in Iran;
- b investment to enterprises in Iran engaged in the manufacture of goods and technology as listed in Annex II;
- c financing or financial assistance related to goods and technologies referred to in Annex II, including in particular grants, loans and export credit insurance, for any sale, supply, transfer or export of these items, or for any provision of related technical assistance, directly or indirectly, to any person, entity or body in, or for use in Iran;

shall be subject to an authorisation of the competent authority of the Member State concerned.

- The competent authorities of the Member States, as indicated in the websites listed in Annex III, shall not grant any authorisation for the transactions referred to in paragraph 2, if they determine that the action were to contribute to one of the following activities:
 - a Iran's enrichment-related, reprocessing or heavy water-related activities;
 - b the development of nuclear weapon delivery systems by Iran; or
 - the pursuit by Iran of activities related to other topics about which the IAEA has expressed concerns or identified as outstanding.

Textual Amendments

F2 Substituted by Council Regulation (EC) No 618/2007 of 5 June 2007 amending Regulation (EC) No 423/2007 concerning restrictive measures against Iran.

Status: Point in time view as at 10/02/2008. Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

Article 6 U.K.

The competent authorities of the Member States, as indicated in the websites listed in Annex III, may grant, under such terms and conditions as they deem appropriate, an authorisation for a transaction in relation to goods and technology, assistance, investment or brokering services referred to in Articles 2 or 5(1), where the Sanctions Committee has determined in advance and on a case-by-case basis that the transaction would clearly contribute neither to the development of technologies in support of Iran's proliferation sensitive nuclear activities, nor to the development of nuclear weapon development delivery systems, including where such goods and technology, assistance, investment or brokering services are for food, agricultural, medical or other humanitarian purposes, provided that:

- the contract for delivery of the goods or technology, or for the provision of assistance, (a) includes appropriate end-user guarantees, and
- (b) Iran has undertaken not to use the goods or technology concerned, or if applicable, the assistance concerned, in proliferation sensitive nuclear activities or for development of nuclear weapon delivery systems.

Article 7 U.K.

- All funds and economic resources belonging to, owned, held or controlled by the persons, entities and bodies listed in Annex IV shall be frozen. Annex IV shall include the persons, entities and bodies designated by the United Nations Security Council or by the Sanctions Committee in accordance with paragraph 12 of UNSCR 1737 (2006).
- All funds and economic resources belonging to, owned, held or controlled by the persons, entities and bodies listed in Annex V shall be frozen. Annex V shall include natural and legal persons, entities and bodies, not covered by Annex IV, who, in accordance with Article 5(1)(b) of Common Position 2007/140/CFSP, have been identified as:
 - being engaged in, directly associated with, or providing support for, Iran's proliferationsensitive nuclear activities, or
 - being engaged in, directly associated with, or providing support for, Iran's development of nuclear weapon delivery systems, or
 - acting on behalf of or at the direction of a person, entity or body referred to under (a) or (b), or
 - being a legal person, entity or body owned or controlled by a person, entity or body referred to under (a) or (b), including through illicit means.
- No funds or economic resources shall be made available, directly or indirectly, to or for the benefit of the natural or legal persons, entities or bodies listed in Annexes IV and V.
- The participation, knowingly and intentionally, in activities the object or effect of which is, directly or indirectly, to circumvent the measures referred to in paragraphs 1, 2 and 3 shall be prohibited.

Article 8 U.K.

By way of derogation from Article 7, the competent authorities of the Member States, as indicated in the websites listed in Annex III, may authorise the release of certain frozen funds or economic resources, if the following conditions are met:

[F2 the funds or economic resources are the subject of a judicial, administrative or (a) arbitral lien established before the date on which the person, entity or body referred to in Article 7 has been designated by the Sanctions Committee, the Security Council

Status: Point in time view as at 10/02/2008. Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

- or by the Council or of a judicial, administrative or arbitral judgment rendered prior to that date;]
- the funds or economic resources will be used exclusively to satisfy claims secured by (b) such a lien or recognised as valid in such a judgment, within the limits set by applicable laws and regulations governing the rights of persons having such claims;
- the lien or judgment is not for the benefit of a person, entity or body listed in Annex (c) IV or V;
- recognising that the lien or judgment is not contrary to public policy in the Member (d) State concerned; and
- if Article 7(1) applies, the Sanctions Committee has been notified by the Member State (e) of the lien or judgment.

Textual Amendments

Substituted by Council Regulation (EC) No 618/2007 of 5 June 2007 amending Regulation (EC) No 423/2007 concerning restrictive measures against Iran.

Article 9 U.K.

By way of derogation from Article 7 and provided payment by a person, entity or body listed in Annex IV or V is due under a contract, agreement or obligation that was concluded by, or arose for the person, entity or body concerned, before the date on which that person, entity or body has been designated by the Sanctions Committee, the Security Council or by the Council, the competent authorities of the Member States, as indicated in the websites listed in Annex III, may authorise, under such conditions as they deem appropriate, the release of certain frozen funds or economic resources, if the following conditions are met:

- (a) the competent authority concerned has determined that:
 - (i) the funds or economic resources shall be used for a payment by a person, entity or body listed in Annex IV or V;
 - the contract, agreement or obligation will not contribute to the manufacture, (ii) sale, purchase, transfer, export, import, transport or use of goods and technology listed in Annexes I and II; and
 - (iii) the payment is not in breach of Article 7(3):
- if Article 7(1) applies, the Member State concerned has notified the Sanctions (b) Committee of that determination and its intention to grant an authorisation, and the Sanctions Committee has not objected to that course of action within ten working days of notification; and
- if Article 7(2) applies, the Member State concerned has notified that determination of (c) its competent authority and its intention to grant an authorisation to the other Member States and to the Commission at least two weeks prior to the authorisation.

Article 10 U.K.

By way of derogation from Article 7, the competent authorities of the Member States, as indicated in the websites listed in Annex III, may authorise, under such conditions as they

Status: Point in time view as at 10/02/2008. Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

deem appropriate, the release of certain frozen funds or economic resources, or the making available of certain funds or economic resources, if the following conditions are met:

- the competent authority concerned has determined that the funds or economic resources are:
 - (i) necessary to satisfy the basic needs of persons listed in Annex IV or V, and their dependent family members, including payments for foodstuffs, rent or mortgage, medicines and medical treatment, taxes, insurance premiums, and public utility charges;
 - intended exclusively for payment of reasonable professional fees and (ii) reimbursement of incurred expenses associated with the provision of legal services; or
 - (iii) intended exclusively for payment of fees or service charges for routine holding or maintenance of frozen funds or economic resources; and
- if the authorisation concerns a person, entity or body listed in Annex IV, the Member State concerned has notified the Sanctions Committee of that determination and its intention to grant an authorisation, and the Sanctions Committee has not objected to that course of action within five working days of notification.
- By way of derogation from Article 7, the competent authorities of the Member States, as indicated in the websites listed in Annex III, may authorise the release of certain frozen funds or economic resources or the making available of certain funds or economic resources, after having determined that the funds or economic resources are necessary for extraordinary expenses, provided that
 - if the authorisation concerns a person, entity or body listed in Annex IV, the Sanctions Committee has been notified of this determination by the Member State concerned and that the determination has been approved by that Committee, and
 - if the authorisation concerns a person, entity or body listed in Annex V, the competent authority has notified the grounds on which it considers that a specific authorisation should be granted to the other competent authorities of the Member States and to the Commission at least two weeks before the authorisation.
- The relevant Member State shall inform the other Member States and the Commission of any authorisation granted under paragraphs 1 and 2.

Article 11 U.K.

- Article 7(3) shall not prevent financial or credit institutions in the Community from crediting frozen accounts where they receive funds transferred by third parties to the account of a listed natural or legal person, entity or body, provided that any additions to such accounts will also be frozen. The financial or credit institution shall inform the competent authorities about such transactions without delay.
- 2 Article 7(3) shall not apply to the addition to frozen accounts of:
 - interest or other earnings on those accounts; or
 - payments due under contracts, agreements or obligations that were concluded or arose before the date on which the person, entity or body referred to in Article 7 has been designated by the Sanctions Committee, the Security Council or by the Council;]

provided that any such interest, other earnings and payments are frozen in accordance with Article 7(1) or 7(2).

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

Textual Amendments

F2 Substituted by Council Regulation (EC) No 618/2007 of 5 June 2007 amending Regulation (EC) No 423/2007 concerning restrictive measures against Iran.

Article 12 U.K.

- The freezing of funds and economic resources or the refusal to make funds or economic resources available, carried out in good faith on the basis that such action is in accordance with this Regulation, shall not give rise to liability of any kind on the part of the natural or legal person or entity or body implementing it, or its directors or employees, unless it is proved that the funds and economic resources were frozen or withheld as a result of negligence.
- The prohibitions set out in Articles 5(1)(c) and 7(3) shall not give rise to liability of any kind on the part of the natural or legal persons or entities concerned, if they did not know, and had no reasonable cause to suspect, that their actions would infringe these prohibitions.

Article 13 U.K.

- 1 Without prejudice to the applicable rules concerning reporting, confidentiality and professional secrecy, natural and legal persons, entities and bodies shall:
 - a supply immediately any information which would facilitate compliance with this Regulation, such as accounts and amounts frozen in accordance with Article 7, to the competent authorities of the Member States, as indicated in the websites listed in Annex III, where they are resident or located, and shall transmit such information, directly or through the Member States, to the Commission;
 - b cooperate with the competent authorities, as indicated in the websites listed in Annex III, in any verification of this information.
- 2 Any additional information directly received by the Commission shall be made available to the Member State concerned.
- 3 Any information provided or received in accordance with this Article shall be used only for the purposes for which it was provided or received.

Article 14 U.K.

The Commission and Member States shall immediately inform each other of the measures taken under this Regulation and shall supply each other with any other relevant information at their disposal in connection with this Regulation, in particular information in respect of violations and enforcement problems and judgments handed down by national courts.

Article 15 U.K.

- 1 The Commission shall:
 - a amend Annex I on the basis of determinations made by either the United Nations Security Council or the Sanctions Committee;
 - b amend Annex III on the basis of information supplied by Member States;
 - c amend Annex IV on the basis of determinations made by either the United Nations Security Council or the Sanctions Committee.
- 2 The Council, acting by qualified majority, shall establish, review and amend the list of persons, entities and bodies referred to in Article 7(2) and in full accordance with the

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

determinations made by the Council in respect of Annex II to Common Position 2007/140/ CFSP. The list in Annex V shall be reviewed in regular intervals and at least every 12 months.

3 The Council shall state individual and specific reasons for decisions taken pursuant to paragraph 2 and make them known to the persons, entities and bodies concerned.

Article 16 U.K.

- 1 Member States shall lay down the rules on penalties applicable to infringements of this Regulation and shall take all measures necessary to ensure that they are implemented. The penalties provided for shall be effective, proportionate and dissuasive.
- 2 Member States shall notify the Commission of those rules without delay after the entry into force of this Regulation and shall notify it of any subsequent amendment.

- 1 Member States shall designate the competent authorities referred to in this Regulation and identify them in or through the websites as listed in Annex III.
- 2 Member States shall notify the Commission of their competent authorities without delay after the entry into force of this Regulation and shall notify it of any subsequent amendment.

This Regulation shall apply:

- (a) within the territory of the Community;
- (b) on board any aircraft or any vessel under the jurisdiction of a Member State;
- (c) to any person inside or outside the territory of the Community who is a national of a Member State;
- (d) to any legal person, entity or body which is incorporated or constituted under the law of a Member State;
- (e) to any legal person, entity or body in respect of any business done in whole or in part within the Community.

This Regulation shall enter into force on the day of its publication in the *Official Journal* of the European Union.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

[F3ANNEX I U.K.

Goods and technology referred to in Articles 2, 4 and 5(1)

Textual Amendments

F3 Substituted by Commission Regulation (EC) No 116/2008 of 28 January 2008 amending Council Regulation (EC) No 423/2007 concerning restrictive measures against Iran.

INTRODUCTORY NOTES

Where possible, the items in this Annex are defined by reference to the list of dual-use items set out in Annex I to Council Regulation (EC) No 1334/2000, as amended by Council Regulation (EC) No 1183/2007⁽⁵⁾.

The descriptions of the items in this Annex are often, but not always, identical or similar to descriptions of the items set out in the list of dual-use items. Each description is based as much as possible on that of the first dual-use item referred to. Where there are differences between the two descriptions, the description of the goods or technology found in this Annex shall be decisive. For the sake of clarity, an asterisk indicates that a description is based on the description of the dual-use item referred to, but contains different values for the technical parameters used or omits or adds specific elements.

If only part of the scope of the dual-use item referred to is covered by an entry in this Annex, the reference number taken from the list of dual-use items is preceded by 'ex'.

For the definitions of terms between 'double quotation marks' please refer to Regulation (EC) No 1183/2007.

This Annex does not include goods and technology (including software) included in the Common Military List of the European Union⁽⁶⁾. In accordance with Article 1(1)(c) of Common Position 2007/140/CFSP⁽⁷⁾, the Member States of the European Union will prohibit the direct or indirect supply, sale or transfer of such goods and technology to Iran. General Notes

- 1. For control or prohibition of goods which are designed or modified for military use, see the relevant list(s) of controls or prohibitions on military goods maintained by individual Member States. References in this Annex that state 'See also Military Goods Controls' refer to the same lists.
- 2. The object of the prohibitions contained in this Annex should not be defeated by the export of any non-prohibited goods (including plant) containing one or more prohibited components when the prohibited component or components are the principal element of the goods and can feasibly be removed or used for other purposes. U.K.

N.B.: In judging whether the prohibited component or components are to be considered the principal element, it is necessary to weigh the factors of quantity, value and technological knowhow involved and other special circumstances which might establish the prohibited component or components as the principal element of the goods being procured.

3. Goods specified in this Annex include both new and used goods. Nuclear Technology Note (NTN)

(To be read in conjunction with Section I.0.B.)

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

The sale, supply, transfer or export of 'technology' directly associated with any goods whose sale, supply, transfer or export is prohibited in Section I.O.A is prohibited according to the provisions of Category I.O.

'Technology' for the 'development', 'production' or 'use' of goods under prohibition remains under prohibition even when applicable to non-prohibited goods.

The approval of goods for export granted in accordance with Article 6 of Regulation (EC) No 423/2007, also authorizes the export to the same end-user of the minimum 'technology' required for the installation, operation, maintenance and repair of the goods.

Prohibitions on 'technology' transfer do not apply to information 'in the public domain' or to 'basic scientific research'.

General Technology Note (GTN)

(To be read in conjunction with Sections I.1B, I.2B, I.3B, I.4B, I.5B, I.6B, I.7B and I.9B.)

The sale, supply, transfer or export of 'technology' which is 'required' for the 'development', 'production' or 'use' of goods whose sale, supply, transfer or export is prohibited in Categories I.1 to I.9, is prohibited according to the provisions of Categories I.1 to I.9.

'Technology' required' for the 'development', 'production' or 'use' of goods under prohibition remains under prohibition even when applicable to non-prohibited goods.

Prohibitions do not apply to that 'technology' which is the minimum necessary for the installation, operation, maintenance (checking) and repair of those goods which are not prohibited or whose export has been authorised in accordance with Regulation (EC) No 423/2007.

Prohibitions on 'technology' transfer do not apply to information 'in the public domain', to 'basic scientific research' or to the minimum necessary information for patent applications. General Software Note (GSN)

(This note overrides any prohibition within sections I.0B, I.1B, I.2B, I.3B, I.4B, I.5B, I.6B, I.7B and I.9B.)

Categories I.0 to I.9 of this list do not prohibit 'software' which is either:

- a. Generally available to the public by being:
 - 1. Sold from stock at retail selling points, without restriction, by means of:
 - a. Over-the-counter transactions;
 - b. Mail order transactions;
 - c. Electronic transactions; or
 - d. Telephone order transactions; and
 - 2. Designed for installation by the user without further substantial support by the supplier; or
- b. 'In the public domain'.
- I.0 NUCLEAR MATERIAL, FACILITIES AND EQUIPMENT U.K.

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

I.0A

GOODS

No	Relevant item(s) from Annex to Regulation (EC) No 1183/2007	'Nuclear reactors' and specially designed or prepared equipment and components therefor, as follows:		
I.0A.001	0A001			
		a. 'Nuclear reactors' capable of operations of as to maintain a controlled self-sustaining fission chain reaction;		
		b. Metal vessels, or major shop-fabricated parts therefor, specially designed or prepared to contain the core of a 'nuclear reactor', including the reactor vessel head for a reactor pressure vessel;		
		c. Manipulative equipment specially designed or prepared for inserting or removing fuel in a 'nuclear reactor';		
		d. Control rods specially designed or prepared for the control of the fission process in a 'nuclear reactor', support or suspension structures therefor, rod drive mechanisms and rod guide tubes;		
		e. Pressure tubes specially designed or prepared to		

	contain fuel
	elements and the
	primary coolant in
	a 'nuclear reactor'
	at an operating
	pressure in excess
	e f f 1 MD-
	of 5,1 MPa;
f.	Zirconium metal
	and alloys in the
	form of tubes or
	assemblies of
	tubes in which the
	ratio of hafnium
	to zirconium is
	less than 1:500
	parts by weight,
	parts by weight,
	specially designed
	or prepared for
	use in a 'nuclear
	reactor';
g.	Coolant pumps
	specially designed
	or prepared for
	circulating the
	primary coolant of
	'nuclear reactors';
h.	
11.	'Nuclear reactor
	internals' specially
	designed or
	prepared for use in
	a 'nuclear reactor',
	including support
	columns for the
	core, fuel channels,
	thermal shields,
	baffles, core grid
	plates, and diffuser
	· .
	plates;
	Note: In I.0A.001.h.
	'nuclear reactor
	internals' means
	any major structure
	within a reactor
	vessel which
	has one or more
	functions such as
	supporting the core
	maintaining fuel
	alignment, directing
	primary coolant
	flow, providing
	radiation shields fo
	the reactor vessel,

Status: Point in time view as at 10/02/2008.

		i.	instrume Heat exc (steam g specially or prepa use in th coolant o 'nuclear Neutron and mea instrume specially or prepa determin	changers enerators) designed red for e primary circuit of a reactor'; detection suring ents designed red for ing neutron els within
I.0A.002	ex 0B001* (0B001.a, 0B001.b.1-13, 0B001.c, 0B001.d 0B001.e 0B001.f 0B001.g 0B001.h	isotopes 'depleted 'special	the separ of 'natura l uranium fissile ma	al uranium', a' and terials',
	0B001.i and 0B001.j)	and specially designed or prepared equipment and components therefor, as follows:		
			Plant spedesigned separatir	
			of 'natur	
			uranium	', and
		'special fissile materials', as		
			follows:	Gas
			1.	centrifuge
				separation plant;
			2.	Gaseous diffusion
				separation plant;
			3.	Aerodynamic separation
			4.	plant; Chemical exchange
				separation plant;
			5.	Ion- exchange

6.	separation plant; Atomic
	vapour
	'laser'
	isotope
	separation (AVLIS)
	plant;
7.	Molecular
	'laser'
	isotope
	separation (MLIS)
	plant;
8.	Plasma
	separation
	plant;
9.	Electro
	magnetic
	separation
Gas cen	plant;
and asse	
	ponents,
	y designed
or prepa	
gas cent	
	on process,
as follow	ws: : I.0A.002.b.
'high sti	
to-densi	
	l' means
any of th	
followin	
a.	Maraging
	steel capable
	of an
	ultimate
	tensile
	strength
	of 2 050
	MPa or
h	more;
b.	Aluminiun alloys
	capable
	of an
	ultimate
	tensile
	strength o

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

	460 MPa
	or more;
	or more,
c.	Fibrous
	or
	filamentary
	materials ,
	with a
	'specific
	modulus'
	of more
	than 3,18
	\times 10 ⁶
	m and a
	'specific
	tensile
	strength'
	greater
	than 76,2
	\times 10 ³ m;
1.	Gas
	centrifuges;
2.	Complete
	rotor
2	assemblies;
3.	Rotor tube
	cylinders
	with a wall
	41 * 1
	of 12 mm
	or less, a
	diameter
	of
	between
	75 mm
	and 400
	mm, made
	from 'high
	strength-
	to-density
	ratio
4	materials';
4.	Rings or
	bellows with
	with a wall
	thickness
	of 3 mm
	or less and
	a diameter
	a diameter

of

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

between 75 mm and 400 mm and designed to give local support to a rotor tube or to join a number together, made from 'high strengthto-density ratio materials'; 5. Baffles of between 75 mm and 400 mm diameter for mounting inside a rotor tube, made from 'high strengthto-density ratio materials'; 6. Top or bottom caps of between 75 mm and 400 mm diameter to fit the ends of a rotor tube, made from 'high strengthto-density ratio materials';

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

7. Magnetic suspension bearings consisting of an annular magnet suspended within a housing made of or protected bу 'materials resistant to corrosion by UF₆' containing a damping medium and having the magnet coupling with a pole piece or second magnet fitted to the top cap of the rotor; 8. Specially prepared bearings comprising a pivotcup assembly mounted on a damper; 9. Molecular pumps comprised of cylinders having internally machined or extruded helical

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

grooves and internally machined bores; 10. Ringshaped motor stators for multiphase AChysteresis (or reluctance) motors for synchronous operation within a vacuum in the frequency range of 600 to 2 000 Hz and a power range of 50 to 1 000 Volt-Amps; 11. Centrifuge housing/ recipients to contain the rotor tube assembly of a gas centrifuge, consisting of a rigid cylinder of wall thickness up to 30 mm with precision machined ends and made of or protected by 'materials

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

resistant to corrosion by UF₆'; 12. Scoops consisting of tubes of up to 12 mm internal diameter for the extraction of UF₆ gas from within a centrifuge rotor tube by a Pitot tube action, made of or protected by 'materials resistant to corrosion by UF₆'; 13. Frequency changers (converters or inverters) specially designed or prepared to supply motor stators for gas centrifuge enrichment, having all of the following characteristics, and specially designed components therefor: Multiphase a. output

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

of 600 to 2 000 Hz; b. Frequency control better than 0,1 %; Harmonic c. distortion of less than 2 %; and d. An efficiency greater than 80 %;

Equipment and components, specially designed or prepared for gaseous diffusion separation process, as follows:

1. Gaseous diffusion barriers made of porous metallic, polymer or ceramic 'materials resistant to corrosion by UF₆' with a pore size of 10 to 100 nm, a thickness of 5 mm or less, and, for

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Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

tubular forms, a diameter of 25 mm or less: 2. Gaseous diffuser housings made of or protected by 'materials resistant to corrosion by UF₆'; 3. Compressors (positive displacement, centrifugal and axial flow types) or gas blowers with a suction volume capacity of 1 m^3 min or more of UF₆, and discharge pressure up to 666,7 kPa, made of or protected by 'materials resistant to corrosion by UF₆'; 4. Rotary shaft seals for compressors or blowers specified in I.0A.002.c.3. and

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

designed for a buffer gas in-leakage rate of less than 1 000 cm³/min.; 5. Heat exchangers made of aluminium, copper, nickel, or alloys containing more than 60 per cent nickel, or combinations of these metals as clad tubes, designed to operate at subatmospheric pressure with a leak rate that limits the pressure rise to less than 10 Pa per hour under a pressure differential of 100 kPa; 6. Bellow valves made of or protected bу 'materials resistant to corrosion by UF₆', with a diameter

of 40 mm

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

to 1 500 mm;
Equipment and components, specially designed or prepared for aerodynamic separation process, as follows:

- Separation 1. nozzles consisting of slitshaped, curved channels having a radius of curvature less than 1 mm, resistant to corrosion by UF₆, and having a knife-edge contained within the nozzle which separates the gas flowing through the nozzle into two streams;
- 2. **Tangential** inlet flowdriven cylindrical or conical tubes, (vortex tubes), made of or protected by 'materials resistant to corrosion by UF₆'

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

with a diameter of between 0,5 cm and 4 cm and a length to diameter ratio of 20:1 or less and with one or more tangential inlets;

3. Compressors (positive displacement, centrifugal and axial flow types) or gas blowers with a suction volume capacity of 2 m^3 min or more, made of or protected by 'materials resistant to corrosion by UF₆', and rotary shaft seals

therefor;
4. Heat
exchangers
made of or
protected
by
'materials
resistant to
corrosion
by UF₆';

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

5. Aerodynamic separation element housings, made of or protected by 'materials resistant to corrosion by UF₆' to contain vortex tubes or separation nozzles; 6. Bellows valves made of or protected by 'materials resistant to corrosion by UF₆', with a diameter of 40 to 1 500 mm; 7. **Process** systems for separating UF₆ from carrier gas (hydrogen or helium) to 1 ppm UF₆ content or less, including: Cryogenic a. heat exchangers and cryoseparators capable of temperatures of

153

b.	K (- 120 °C) or less; Cryogenic refrigeration units capable of temperatures of
c.	153 K (- 120 °C) or less; Separation nozzle or vortex tube units
d.	for the separation of UF ₆ from carrier gas; UF ₆ cold traps capable
Equipment and components, specially designed or prepared for	of temperatures of 253 K (- 20 °C) or less;

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

separation process, as follows:

1. Fastexchange liquidliquid pulse columns with stage residence time of 30 seconds or less and resistant to concentrated hydrochloric acid (e.g. made of or protected by suitable plastic materials such as fluorocarbon polymers or glass);

> exchange liquidliquid centrifugal contactors with stage residence time of 30 seconds or less and resistant to concentrated hydrochloric acid (e.g. made of or protected by suitable plastic materials such as

Fast-

2.

3. Electrochemical reduction cells

fluorocarbon polymers or glass);

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

resistant to concentrated hydrochloric acid solutions, for reduction of uranium from one valence state to another;

4. Electrochemical

reduction cells feed equipment to take U^{+4} from the organic stream and, for those parts in contact with the process stream, made of or protected by suitable materials (e.g. glass, fluorocarbon polymers, polyphenyl sulphate, polyether sulfone and resinimpregnated graphite);

5. Feed preparation systems for producing high purity uranium chloride solution consisting

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

of dissolution, solvent extraction and/or ion exchange equipment for purification and electrolytic cells for reducing the uranium U^{+6} or U^{+4} to U^{+3} ; Uranium 6. oxidation systems for oxidation of U⁺³ to U^{+4} : Equipment and components, specially designed or prepared for ionexchange separation process, as follows: 1. Fast reacting ionexchange resins, pellicular or porous macroreticulated resins in which the active chemical exchange groups are limited to a coating on the surface of an inactive porous support

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

structure, and other composite structures in any suitable form, including particles or fibres, with diameters of 0,2 mm or less, resistant to concentrated hydrochloric acid and designed to have an exchange rate half time of less than 10 seconds and capable of operating temperatures in the range of 373 K (100 °C) to 473 K (200 °C); ionexchange columns (cylindrical) with a diameter greater than 1 000 mm, made of or protected by

materials resistant to concentrated hydrochloric

2.

acid (e.g.

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Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

titanium or fluorocarbon plastics) and capable of operating at temperatures in the range of 373 K (100 °C) to 473 K (200 °C) and pressures above 0,7 MPa; 3. ionexchange reflux systems (chemical electrochemical oxidation reduction systems) for regeneration of the chemical reducing or oxidizing agents used in ionexchange enrichment cascades; Equipment and components, specially designed or prepared for atomic vapour 'laser' isotope separation process (AVLIS), as follows:

- 1. High power strip or scanning electron beam guns with a delivered power of more than 2,5 kW/cm for use in uranium vaporization
- systems; 2. Liquid uranium metal handling systems for molten uranium or uranium alloys, consisting of crucibles, made of or protected by suitable corrosion and heat resistant materials (e.g. tantalum, yttriacoated graphite, graphite coated with other rare earth oxides or mixtures thereof), and cooling equipment for the crucibles;

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

N.B.: See also I.2A.002.

- 3. Product and tails collector systems made of or lined with materials resistant to the heat and corrosion of uranium metal vapour or liquid, such as yttriacoated graphite or tantalum;
- 4. Separator module housings (cylindrical rectangular vessels) for containing the uranium metal vapour source, the electron beam gun and the product and tails collectors;
- 5. 'Lasers' or 'laser' systems for the separation of uranium isotopes with a spectrum

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

frequency stabiliser for operation over extended periods of time; N.B.: See also I.6A.001 and I.6A.008. Equipment and components, specially designed or prepared for molecular 'laser' isotope separation process (MLIS) or chemical reaction by isotope selective laser activation (CRISLA), as follows: 1. Supersonic expansion nozzles for cooling mixtures of UF₆ and carrier gas to 150 K (- 123 °C) or less and made from 'materials resistant to corrosion by UF₆'; 2. Uranium pentafluoride (UF_5) product collectors consisting of filter, impact, or cyclone type collectors

combinations

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

thereof, and made of 'materials resistant to corrosion by UF₅/ UF₆'; 3. Compressors made of or protected by 'materials resistant to corrosion by UF₆', and rotary shaft seals therefor; 4. Equipment for fluorinating UF_5 (solid) to UF_6 (gas); 5. Process systems for separating UF₆ from carrier gas (e.g. nitrogen or argon) including: Cryogenic a. heat exchangers and cryoseparators capable of temperatures of 153 K (-120 °C) or less;

	b.	Cryogenic
		refrigeration
		units
		capable
		of
		temperatures
		of 153
		K
		(-
		120
		°C)
		or
		less;
	c.	UF ₆
		cold
		traps
		capable
		of
		temperatures
		of
		253 K
		(–
		20
		°C)
		or
		less;
6.	'Lasers'	
	or 'laser'	
	systems	
	for the	
	separatio	n
	of	
	uranium isotopes	
	with a	
	spectrum	1
	frequenc	
	stabiliser	
	for	
	operation	1
	over	
	extended	
	periods of time;	01
N.B.: See		
I.6A.001		
I.6A.008		
Equipme		
compone	ents,	
specially	designed	
or prepar	ed for	

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

plasma separation process, as follows: Microwave power sources and antennae for producing or accelerating ions, with an output frequency greater than 30 GHz and mean power output greater than 50 kW; 2. radiofrequency ion excitation coils for frequencies of more than 100 kHz and capable of handling more than 40 kW mean power; 3. Uranium plasma generation systems; 4. Liquid metal handling systems for molten uranium or uranium alloys, consisting of

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

crucibles, made of or protected by suitable corrosion and heat resistant materials (e.g. tantalum, yttriacoated graphite, graphite coated with other rare earth oxides or mixtures thereof), and cooling equipment for the crucibles; N.B.: See also

5. Product and tails collectors made of or protected by materials resistant to the heat and corrosion of uranium vapour such as

I.2A.002.

graphite or tantalum;
6. Separator module housings (cylindrical) for containing

the

yttriacoated

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

uranium plasma source, radiofrequency drive coil and the product and tails collectors and made of a suitable nonmagnetic material (e.g. stainless steel); Equipment and

Equipment and components, specially designed or prepared for electromagnetic separation process, as follows:

Ion 1. sources, single or multiple, consisting of a vapour source, ioniser, and beam accelerator made of suitable nonmagnetic materials (e.g. graphite, stainless steel, or copper) and capable of providing a total ion beam

current of

2.	50 mA or greater; Ion collector plates for collection of enriched or depleted uranium ion beams, consisting of two or more slits and pockets
3.	and made of suitable non- magnetic materials (e.g. graphite or stainless steel); Vacuum housings for uranium electromagnetic separators made of non- magnetic materials (e.g. stainless
4.	stainless steel) and designed to operate at pressures of 0,1 Pa or lower; Magnet pole pieces with a diameter greater than 2 m;

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

5.	High voltage power supplies for ion sources, having all of the followin characte	g
	a.	Capable
	u.	of
	b.	continuous operation; Output voltage of 20 000
		V
	c.	or greater; Output
		current of 1
		A or greater; and
	d.	Voltage regulation of
		better
		than
		0,01
		% over
		over a
		period
		of
		8
		hours;
N.B.: Se		
I.3A.006 6.	Magnet	
0.	power	
	supplies	
	(high	
	power,	
	direct	

current) having

		all of the following characteristics: a. Capable of continuous operation with a current output of 500 A or greater at a a voltage of 100 V or greater; and b. Current or voltage regulation better than 0,01 % over a period of 8 hours. N.B.: See also 1.3A.005.
I.0A.003	0B002	Specially designed or prepared auxiliary systems, equipment and components, as follows, for isotope separation plant specified in I.0A.002, made of or protected by 'materials resistant to corrosion by UF ₆ ': a. Feed autoclaves, ovens or systems

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

used for passing UF₆ to the enrichment process; Desublimers b. or cold traps, used to remove UF₆ from the enrichment process for subsequent transfer upon heating; Product and c. tails stations for transferring UF₆ into containers; d. Liquefaction or solidification stations used to remove UF₆ from the enrichment process by compressing, cooling and converting UF₆ to a liquid or solid form; Piping systems and e. header systems specially designed for handling UF₆ within gaseous diffusion, centrifuge or aerodynamic cascades; f. Vacuum 1. manifolds or vacuum headers having a suction capacity of 5 m^3 / minute or more; or 2. Vacuum pumps specially designed for use in UF₆ bearing atmospheres;

		g.	sources s designed prepared on-line s feed, pro tails fron streams a	eters/ion pecially or for taking amples of duct or the UF ₆ gas and having following
I.0A.004	0B003	of uraniu specially	Systems conversion uranium concentrate UO ₃ ; Systems conversion to UF ₆ ; Systems	uipment or as follows: for the on of ore ates to for the on of UO ₃

Status: Point in time view as at 10/02/2008.

		d.e.f.g.h.i.	to UF ₄ ; Systems conversion to UF ₆ ; Systems conversion to UO ₂ ; Systems conversion to UF ₄ ; Systems	for the on of UF ₄ for the on of UF ₄ for the on of UF ₄ m metal; for the on of UF ₆ for the on of UF ₆
			to UCl ₄ .	on of UO ₂
I.0A.005	0B004	concentra deuteriur compoun designed equipmen	n and deunds and sport or preparent and cortast and cortast follow Plant for	eavy water, terium recially red mponents s: the on of heavy reterium rium rium rium rium rium rium rium

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

> steel (e.g. **ASTM** A516) with diameters of 6 m to 9 m, capable of operating at pressures greater than or equal to 2 MPa and with a corrosion allowance of 6 mm or greater; Single stage, low head (i.e. 0,2 MPa) centrifugal blowers or compressors for hydrogen sulphide gas circulation (i.e. gas containing more than 70 % H₂S) with a throughput capacity greater than or equal to 56 m^{3} second when operating at pressures greater than or equal to 1,8 MPa

> > suction

2.

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

and having seals designed for wet H_2S service; 3. Ammoniahydrogen exchange towers greater than or equal to 35 m in height with diameters of 1,5 m to 2,5 m capable of operating at pressures greater than 15 MPa; 4. Tower internals, including stage contactors, and stage pumps, including those which are submersible, for heavy water production utilizing the ammoniahydrogen exchange process; 5. Ammonia crackers with operating pressures greater

6.	than or equal to 3 MPa for heavy water production utilizing the ammonia-hydrogen exchange process; Infrared absorption analysers capable of on-line hydrogen/deuterium ratio analysis
7.	where deuterium concentrations are equal to or greater than 90 %; Catalytic burners for the conversion of enriched deuterium gas into
8.	heavy water utilizing the ammonia- hydrogen exchange process; Complete heavy water upgrade systems, or columns therefor, for the

Status: Point in time view as at 10/02/2008.

		upgrade of heavy water to reactor- grade deuterium concentration.
I.0A.006	0B005	Plant specially designed for the fabrication of 'nuclear reactor' fuel elements and specially designed or prepared equipment therefor. Note: A plant for the fabrication of 'nuclear reactor' fuel elements includes equipment which: a. Normally comes into direct contact with or directly processes or controls the production flow of nuclear materials; b. Seals the nuclear materials within the cladding; c. Checks the integrity of the cladding or the seal; or d. Checks the finish treatment of the sealed fuel.
I.0A.007	0B006	Plant for the reprocessing of irradiated 'nuclear reactor' fuel elements, and specially designed or prepared equipment and components therefor: Note: I.OA.007 includes: a. Plant for the reprocessing of irradiated 'nuclear reactor' fuel elements including equipment and components which normally come into direct contact with and directly control the irradiated fuel and the major nuclear material

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

and fission product processing streams; Fuel element b. chopping or shredding machines, i.e. remotely operated equipment to cut, chop, shred or shear irradiated 'nuclear reactor' fuel assemblies, bundles or rods; c. Dissolvers, critically safe tanks (e.g. small diameter, annular or slab tanks) specially designed or prepared for the dissolution of irradiated 'nuclear reactor' fuel, which are capable of withstanding hot, highly corrosive liquids, and which can be remotely loaded and maintained: d. Counter-current solvent extractors and ion-exchange processing equipment specially designed or prepared for use in a plant for the reprocessing of irradiated 'natural uranium', 'depleted uranium' or 'special fissile materials': e. Holding or storage vessels specially designed to be critically safe and resistant to the corrosive effects of nitric acid; Note: Holding or storage vessels may

Status: Point in time view as at 10/02/2008.

			have the following features:	
			1.	Walls or internal
				structures with a
				boron equivalent
				(calculated
				for all
				constituent elements
				as defined
				in the
				note to I.0A.012)
				of at least
				two per
			2.	cent;
			۷.	A maximum
				diameter
				of 175
				mm for cylindrical
				vessels; or
			3.	A
				maximum
				width of 75 mm for
				either a
				slab or
				annular
		f.	Process of	vessel.
		1.	instrume	
				designed
			or prepar	
			monitori	
			controlling reprocess	ng the sing of
			irradiate	d 'natural
				', 'depleted ·
			uranium 'special j	
			materials	
I.0A.008	0B007		the conve	
			n and equ designed	
			therefor,	as follows:
		a.	Systems	for the
			conversion	on of

		plutonium nitrate to oxide; b. Systems for plutonium metal production.
I.0A.009	OC001	'Natural uranium' or 'depleted uranium' or thorium in the form of metal, alloy, chemical compound or concentrate and any other material containing one or more of the foregoing. Note: I.OA.009 does not prohibit the following: a. Four grammes or less of 'natural uranium' or 'depleted uranium' when contained in a sensing component in instruments; b. 'Depleted uranium' specially fabricated for the following civil non-nuclear applications: 1. Shielding; 2. Packaging; 3. Ballasts having a mass not greater than 100 kg; 4. Counter- weights having a mass not greater than 100 kg;
		c. Alloys containing less than 5 % thorium;
		d. Ceramic products containing thorium, which have been manufactured for non-nuclear use.
I.0A.010	0C002	'Special fissile materials'. Note: I.0A.010 does not prohibit four 'effective

Status: Point in time view as at 10/02/2008.

		grammes' or less when contained in a sensing component in instruments.
I.0A.011	0C003	Deuterium, heavy water (deuterium oxide) and other compounds of deuterium, and mixtures and solutions containing deuterium, in which the isotopic ratio of deuterium to hydrogen exceeds 1:5 000.
I.0A.012	OC004	Graphite, nuclear grade, having a purity level of less than 5 parts per million 'boron equivalent' and with a density greater than 1,5 g/cm³. N.B.: See also I.1A.028. Note 1: I.0A.012 does not prohibit the following: a. Manufactures of graphite having a mass less than 1 kg, other than those specially designed or prepared for use in a nuclear reactor; b. Graphite powder. Note 2: In I.0A.012, 'boron equivalent' (BE) is defined as the sum of BE₂ for impurities (excluding BE _{carbon} since carbon is not considered an impurity) including boron, where: BE₂ (ppm) = CF × concentration of element Z in ppm; where CF is the conversion factor = **A** **The conversion of the

ANNEX I
Document Generated: 2024-06-24

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

		occurring boron and element Z respectively.
I.0A.013	0C005	Specially prepared compounds or powders for the manufacture of gaseous diffusion barriers, resistant to corrosion by UF ₆ (e.g. nickel or alloy containing 60 weight per cent or more nickel, aluminium oxide and fully fluorinated hydrocarbon polymers), having a purity of 99,9 weight per cent or more and a mean particle size of less than 10 micrometres measured by American Society for Testing and Materials (ASTM) B330 standard and a high degree of particle size uniformity.

I.0B TECHNOLOGY, INCLUDING SOFTWARE

No	Relevant item(s) from Annex to Regulation (EC) No 1183/2007	Description
I.0B.001	0D001	'Software' specially designed or modified for the 'development', 'production' or 'use' of goods specified in Section I.0A.
I.0B.002	0E001	'Technology' according to the Nuclear Technology Note for the 'development', 'production' or 'use' of goods specified in Section I.0A.

I.1 MATERIALS, CHEMICALS, 'MICROORGANISMS' AND 'TOXINS' U.K.

I.1A

GOODS

No	Relevant item(s) from Annex to Regulation (EC) No 1183/2007	Description
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Status: Point in time view as at 10/02/2008.

I.1A.001	1A102	Resaturated pyrolized carbon-carbon components designed for space launch vehicles specified in I.9A.001 or sounding rockets specified in I.9A.005. N.B.: See also Military Goods Controls for components for rockets and missiles.
I.1A.002	1A202	Composite structures in the form of tubes and having both of the following characteristics: N.B.: See also I.9A.011. a. An inside diameter of between 75 mm and 400 mm; and b. Made with any of the 'fibrous or filamentary materials' specified in I.1A.024 or I.1A.034.a. or with carbon prepreg materials specified in I.1A.034.c.
I.1A.003	1A225	Platinized catalysts specially designed or prepared for promoting the hydrogen isotope exchange reaction between hydrogen and water for the recovery of tritium from heavy water or for the production of heavy water.
I.1A.004	1A226	Specialized packings which may be used in separating heavy water from ordinary water, having both of the following characteristics: a. Made of phosphor bronze mesh chemically treated to improve wettability; and b. Designed to be used in vacuum distillation towers.
I.1A.005	1A227	High-density (lead glass or other) radiation shielding

		windows, having all of the following characteristics, and specially designed frames therefor: a. A 'cold area' greater than 0,09 m²; b. A density greater than 3 g/cm³; and c. A thickness of 100 mm or greater. Technical Notes: In I.1A.005 the term 'cold area' means the viewing area of the window exposed to the lowest level of radiation in the design application.
I.1A.006	ex 1B001* (1B001.a, ex 1B001.b and 1B001.c)	Equipment for the production of fibres, prepregs, preforms or 'composites' specified in I.1A.024, as follows, and specially designed components and accessories therefor: N.B.: See also I.1A.007 and I.1A.014. Filament winding machines of which the motions for positioning, wrapping and winding fibres are coordinated and programmed in three or more axes, specially designed for the manufacture of 'composite' structures or laminates from 'fibrous or filamentary materials'; Tape-laying machines of which the motions for positioning and laying tape or sheets are coordinated and programmed in two or more axes, specially designed

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for the manufacture of 'composite' airframe or 'missile' structures: Note: In I.1A.006.b., 'missile' means complete rocket systems and unmanned aerial vehicle systems. Multidirectional. multidimensional weaving machines or interlacing machines, including adapters and modification kits, for weaving, interlacing or braiding fibres to manufacture 'composite' structures; Technical Notes: *For the purposes* of I.1A.006.c. the technique of interlacing includes knitting. Note: I.1A.006.c. does not prohibit textile machinery not modified for the above end-uses.

I.1A.007

1B101 and ex 1B001.d

Equipment, other than that specified in I.1A.006, for the 'production' of structural composites as follows; and specially designed components and accessories therefor:

Note: Components and accessories specified in I.1A.007 include moulds, mandrels, dies, fixtures and tooling for the preform pressing, curing, casting, sintering or bonding of composite structures,

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laminates and manufactures thereof.

- Filament winding a. machines of which the motions for positioning, wrapping and winding fibres can be coordinated and programmed in three or more axes, designed to fabricate composite structures or laminates from fibrous or filamentary materials, and coordinating and programming controls;
- b. Tape-laying machines of which the motions for positioning and laying tape and sheets can be coordinated and programmed in two or more axes, designed for the manufacture of composite airframe and 'missile' structures;
- c. Equipment designed or modified for the 'production' of 'fibrous or filamentary materials' as follows:
 - 1. Equipment for converting polymeric fibres (such as polyacrylonitrile, rayon or polycarbosilane) including special

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			2.	provision to strain the fibre during heating; Equipment for the vapour deposition of elements or
			3.	compounds on heated filament substrates; Equipment for the wet- spinning of refractory ceramics (such as
			or modif special fi treatmen producin and prefe specified I.9A.026 Note: I.1 includes tension s coating e	ibre surface t or for g prepregs orms in entry . A.007.d. rollers, tretchers, equipment, quipment
I.1A.008	1B102	as follows N.B.: See a.	at' and co s: e also I.14 Metal po 'producti equipme	A.009.b. wwder ion nt' usable production', rolled nent, cal

		materials specified in I.1A.025.a., I.1A.025.b., I.1A.029.a.1., I.1A.029.a.2. or in the Military Goods Controls. b. Specially designed components for 'production equipment' specified in I.1A.008.a. Note: I.1A.008 includes: a. Plasma generators (high frequency arc-jet) usable for obtaining sputtered or spherical metallic powders with organization of the process in an argon-water environment; b. Electroburst equipment usable for obtaining sputtered or spherical metallic powders with organization of the process in an argon-water environment; c. Equipment usable for the 'production' of spherical aluminium powders by powdering a melt in an inert medium
		(e.g. nitrogen).
I.1A.009	1B115	Equipment, other than that specified in I.1A.008, for the production of propellant and propellant constituents, as follows, and specially designed components therefor: a. 'Production equipment' for the 'production', handling or

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		derived materials formed on a mould, mandrel or other substrate from precursor gases which decompose in the 1 573 K (1 300 °C) to 3 173 K (2 900 °C) temperature range at pressures of 130 Pa to 20 kPa.
I.1A.011	1B117	Batch mixers with provision for mixing under vacuum in the range of zero to 13,326 kPa and with temperature control capability of the mixing chamber and having all of the following, and specially designed components therefor: a. A total volumetric capacity of 110 litres or more; and b. At least one mixing/kneading shaft mounted off centre.
I.1A.012	1B118	Continuous mixers with provision for mixing under vacuum in the range of zero to 13,326 kPa and with a temperature control capability of the mixing chamber having any of the following, and specially designed components therefor: a. Two or more mixing/kneading shafts; or b. A single rotating shaft which oscillates and having kneading teeth/pins on the shaft as well as inside the casing of the mixing chamber.
I.1A.013	1B119	Fluid energy mills usable for grinding or milling substances specified in I.1A.025.a., I.1A.025.b., I.1A.029 or in the Military Goods Controls, and

Status: Point in time view as at 10/02/2008.

		specially d		
I.1A.014	1B201	Filament vother than in I.1A.00c and related follows: a. Final action in I.1A.00c and related follows: a. Final action in I.1A.00c and related follows: a. In the second in I.1A.00c and related follows: a. In the second in I.1A.00c and related follows: a. In the second in I.1A.00c and related follows: a. In the second in I.1A.00c and related follows: a. In the second in I.1A.00c and related follows: a. In the second in I.1A.00c and related follows: a. In the second in I.1A.00c and related follows: a. In the second in I.1A.00c and related follows: a. In the second in I.1A.00c and related follows: a. In the second in I.1A.00c and related follows: a. In the second in I.1A.00c and related follows: a. In the second in I.1A.00c and related follows: b. In the second in I.1A.00c and related follows: a. In the second in I.1A.00c and related follows: a. In the second in I.1A.00c and related follows: b. In the second in I.1A.00c and related follows: a. In the second in I.1A.00c and related follows: b. In the second in I.1A.00c and related follows: a. In the second in I.1A.00c and related follows: b. In the second in I.1A.00c and related follows: a. In the second in I.1A.00c and related follows: b. In the second in I.1A.00c and related follows: b. In the second in I.1A.00c and related follows: b. In the second in I.1A.00c and related follows: b. In the second in I.1A.00c and related follows: b. In the second in I.1A.00c and related follows: b. In the second in I.1A.00c and related follows: b. In the second in I.1A.00c and related follows: b. In the second in I.1A.00c and related follows: b. In the second in I.1A.00c and related follows: b. In the second in I.1A.00c and related follows: b. In the second in I.1A.00c and related follows: b. In the second in I.1A.00c and related follows: b. In the second in I.1A.00c and related follows: b. In the second in I.1A.00c and related follows: b. In the second in I.1A.00c and related follows: b. In the second in I.1A.00c and related follows: b. I	ents therefore. It winding machines, an those specified 006 or I.1A.007, ted equipment, as	
		p	laminates from 'fibrous or filamentary materials'; and	

		filament winding machines specified in I.1A.014.a.; c. Precision mandrels for the filament winding machines specified in I.1A.014.a.
I.1A.015	1B225	Electrolytic cells for fluorine production with an output capacity greater than 250 g of fluorine per hour.
I.1A.016	1B226	Electromagnetic isotope separators designed for, or equipped with, single or multiple ion sources capable of providing a total ion beam current of 50 mA or greater. Note: I.1A.016 includes separators: a. Capable of enriching stable isotopes; b. With the ion sources and collectors both in the magnetic field and those configurations in which they are external to the field.
I.1A.017	1B227	Ammonia synthesis converters or ammonia synthesis units, in which the synthesis gas (nitrogen and hydrogen) is withdrawn from an ammonia/hydrogen high-pressure exchange column and the synthesized ammonia is returned to said column
I.1A.018	1B228	Hydrogen-cryogenic distillation columns having all of the following characteristics: a. Designed for operation with internal temperatures of 35 K (– 238 °C) or less; b. Designed for operation at an

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		c.	internal p 0,5 to 5 l Construction either: 1.	Stainless steel of the 300 series with low sulphur content and with an austenitic ASTM (or equivalent standard) grain size number of 5 or greater; or Equivalent
		d.	With into diameter	materials which are both cryogenic and H ₂ - compatible; and ernal er of 1 m or and effective
I.1A.019	1B229	exchange internal follows: <i>N.B.: Fo are speciprepared</i>	water see Water-hy	umns and rs', as s which gned or roduction e 1.04.005. ydrogen exchange umns, ll of wing

I.1A.020	1B230	Pumps cap solutions or dilute p catalyst in (KNH ₂ /NI	m or greater design to facilitate countered contacting are constaction of 0,03%. These materials, valuable of concert contassium in liquid at H ₃), havi	ater, med ate ate arrent ag and ructed of steels with content or less. ay be sieve ave trays, ap trays circulating amide amide ammonia
		b	for the waydrogenexchange columns in I.1A.0 Technica contactor the column segmente which ha	a sulphide e tray specified 19.a. 1 Notes: rs' of nns are ed trays ve an assembled

Status: Point in time view as at 10/02/2008.

		a. b. c.		ally ty greater m ³ /h; and the
			2.	or For dilute potassium amide solutions (less than 1 %), an operating pressure of 20 to 60 MPa.
I.1A.021	1B231		for the precovery concentration handling Equipment tritium for the precovery concentration and	refor, as s or plants roduction, , extraction, ation, or of tritium;

		removal capacity greater than 150 W; 2. Hydrogen isotope storage or purification systems using metal hydrides as the storage or purification medium.
I.1A.022	1B232	Turboexpanders or turboexpander-compressor sets having both of the following characteristics: a. Designed for operation with an outlet temperature of 35 K (- 238 °C) or less; and b. Designed for a throughput of hydrogen gas of 1 000 kg/h or greater.
I.1A.023	1B233	Lithium isotope separation facilities or plants, and equipment therefor, as follows: a. Facilities or plants for the separation of lithium isotopes; b. Equipment for the separation of lithium isotopes, as follows: 1. Packed liquid-liquid exchange columns specially designed for lithium amalgams; 2. Mercury or lithium

	I	I	1
		3. 4.	amalgam pumps; Lithium amalgam electrolysis cells; Evaporators
			for concentrated lithium hydroxide solution.
I.1A.024	1C010.b	'matrix''com structures or follows: N.B.: See als I.9A.026. b. Car or f mat all c 1. 2. Not doe fabi from or f mat repe airc or l whit indie doe cm	nich may be nic 'matrix', trix' or carbon uposite'

		Properties for materials described in I.1A.024.b. should be determined using SACMA recommended methods SRM 12 to 17, or national equivalent tow tests, such as Japanese Industrial Standard JIS- R-7601, Paragraph 6.6.2., and based on lot average.
I.1A.025	1C011.a and 1C011.b	Metals and compounds, as follows: N.B.: See also Military Goods Controls and I.1A.029. a. Metals in particle sizes of less than 60 µm whether spherical, atomised, spheroidal, flaked or ground, manufactured from material consisting of 99 % or more of zirconium, magnesium and alloys of these; Technical Notes: The natural content of hafnium in the zirconium (typically 2 % to 7 %) is counted with the zirconium. Note: The metals or alloys listed in I.1A.025.a. are prohibited whether or not the metals or alloys are encapsulated in aluminium, magnesium, zirconium or beryllium.

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		b. Boron or boron carbide of 85 % purity or higher and a particle size of 60 µm or less; Note: The metals or alloys listed in I.1A.025.b. are prohibited whether or not the metals or alloys are encapsulated in aluminium, magnesium, zirconium or beryllium.
I.1A.026	1C101	Materials and devices for reduced observables such as radar reflectivity, ultraviolet/infrared signatures and acoustic signatures, usable in 'missiles', 'missile' subsystems or unmanned aerial vehicles specified in I.9A.003. Note 1: I.1A.026 includes: a. Structural materials and coatings specially designed for reduced radar reflectivity; b. Coatings, including paints, specially designed for reduced or tailored reflectivity or emissivity in the microwave, infrared or ultra violet regions of the electromagnetic spectrum. Note 2: I.1A.026 does not include coatings when specially used for the thermal control of satellites. Technical Notes: In I.1A.026 'missile' means complete rocket systems and unmanned aerial vehicle systems capable of a range exceeding 300 km.
I.1A.027	1C102	Resaturated pyrolized carbon-carbon materials designed for space launch vehicles specified in I.9A.001

		or sounding rockets specified in I.9A.005. N.B.: See also Military Goods Controls for materials for rockets and missiles.
I.1A.028	ex 1C107* (1C107.a, ex 1C107.b, ex 1C107.c and ex 1C107.d)	Graphite and ceramic materials as follows: Fine grain graphites with a bulk density of 1,72 g/cm³ or greater, measured at 288 K (15 °C), and having a grain size of 100 µm or less, usable for rocket nozzles and reentry vehicle nose tips, which can be machined to any of the following products: 1. Cylinders having a diameter of 120 mm or greater and a length of 50 mm or greater; 2. Tubes having an inner diameter of 65 mm or greater and a wall thickness of 25 mm or greater and a length of 50 mm or greater; 3. Blocks having a size of 120 mm × 120 mm × 120 mm × 50 mm or greater;

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N.B.: See also I.0A.012. Pyrolytic or fibrous reinforced graphites, usable for rocket nozzles and reentry vehicle nose tips usable in 'missiles'; N.B.: See also I.0A.012. Ceramic composite materials (dielectric constant less than 6 at any frequency from 100 MHz to 100 GHz) for use in radomes usable in 'missiles': Bulk machinable silicon-carbide reinforced unfired ceramic, usable for nose tips usable for 'missiles'. I.1A.029 Propellants and constituent ex 1C111* (1C111.a.1-3, 1C111.a.4, chemicals for propellants, 1C111.b.1-4 and 1C111.c) other than those specified in I.1A.025, as follows: Propulsive substances: 1. Spherical aluminium powder, other than that specified in the Military Goods Controls, with particles of uniform diameter of less than 200 um and an aluminium content of 97 % by weight or

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

more, if at least 10 % of the total weight is made up of particles of less than 63 μm, according to ISO 2591:1988 or national equivalents; Technical Notes: A particle size of 63 μm (ISO R-565) corresponds to 250 mesh (Tyler) or 230 mesh (ASTM standard E-11). Metal fuels, other than that specified in the Military Goods Controls, in particle sizes of less than 60 μm, whether spherical, atomized, spheroidal, flaked or ground, consisting 97 % by weight or

more of

2.

	any of th	10
	followin	-
	a.	Zirconium;
	b.	Beryllium;
	c.	Magnesium
		or
	d.	Alloys
		of
		the
		metals
		specified
		by
		(a)
		to
		(c)
		above;
	Technica	
	Notes:	~~
	The	
	natural	
	content of	αf
	hafnium	2)
	in the	
	zirconiui	111
	(typicall	
	2 % to	y
	7 %) is	
	counted	
	with the	
2	zirconiui	
3.	Oxidiser	
	substanc	es
	usable	
	in liquid	
	propella	nt
	rocket	
	engines	as
	follows:	
	a.	Dinitrogen
		trioxide;
	b.	Nitrogen
		dioxide/
		dinitrogen
		tetroxide;
	c.	Dinitrogen
		pentoxide;
	d.	Mixed
		Oxides
		of
		Nitrogen
		(MON);
	Technica	
	Notes:	·
	1,000.	

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

Mixed Oxides of Nitrogen (MON) are solutions of Nitric Oxide (NO) in Dinitrogen Tetroxide/ Nitrogen Dioxide $(N_2O_4/$ NO_2) that can be used in missile systems. There are a range of compositions that can be denoted as MONi or MONij, where i and j are integers representing the percentage of Nitric Oxide in the mixture (e.g., MON3 contains 3 % Nitric Oxide, MON25 25 % Nitric Oxide. An upper limit is MON40, *40* % *by* weight). *N.B.: See Military* Goods

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

Controls for Inhibited Red Fuming Nitric Acid (IRFNA); N.B.: See Military Goods **Controls** and I.1A.049 for Compounds composed of fluorine and one or more of other halogens, oxygen or nitrogen; Hydrazine derivatives as follows: trimethylhydrazine; a. tetramethylhydrazine; b. N, c. N diallylhydrazine; d. allylhydrazine; ethylene e. dihydrazine; f. monomethylhydrazine dinitrate; unsymmetrical g. dimethylhydrazine nitrate; h. hydrazinium azide; i. dimethylhydrazinium azide; N.B.: See Military Goods Controls for Hydrazinium

nitrate;

4.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

uctuits)		
	k.	diimido
		oxalic
		acid
		dihydrazine;
	1.	2-
		hydroxyethylhydrazine
		nitrate
		(HEHN);
		N.B.:
		See
		Military
		Goods
		Controls
		for
		Hydrazinium
		perchlorate;
	n.	hydrazinium
		diperchlorate;
	0.	methylhydrazine
		nitrate
		(MHN);
	p.	diethylhydrazine
		nitrate
		(DEHN);
	q.	1,4-
		dihydrazine
		nitrate
		(DHTN);
Polymer		
substanc		
1.	Carboxy	7-
	terminat	
	polybuta	
	(CTPB);	· •
2.	Hydroxy	/-
	terminat	
	polybuta	
	(HTPB)	,
	other	
	than that	
	specified	d
	in the	
	Military	
	Goods	

3.

4.

Goods Controls;

acrylic acid (PBAA); Polybutadiene-

acrylic acid-

Polybutadiene-

Status: Point in time view as at 10/02/2008.

	acryloni	
(PBAN);		
	ropellant	
additive	s and	
agents:		
	ee Military	y
Goods C	Controls	
for carb	oranes,	
decabor	anes,	
pentabo	ranes and	
derivativ	ves thereo	f;
2.	Triethyl	ene
	glycol	
	dinitrate	;
	(TEGDI	
3.	2-	73
		henylamine
	(CAS	incity faithful
	119-75-	5).
4.		ylolethane
\lnot.	trinitrate	
	(TMET)	
	(CAS	.N)
		1).
5.	3032-55	
3.	Diethyle	ile
	glycol	
	dinitrate	
_	(DEGDI	
6.	Ferrocei	
	derivativ	
	as follov	
	N.B.: Se	
	Military	
	Goods	
	Controls	3
	for	
	catocene	e;
	b.	Ethyl
		ferrocene;
	c.	Propyl
		ferrocene
		(CAS
		1273-89-8);
		N.B.:
		See
		Military
		Goods
		Controls
		for
		n- butyl
		ferrocene;

Pentyl

e.

Status: Point in time view as at 10/02/2008.

е.	Pentyr
	ferrocene
	(CAS
	1274-00-6);
f.	Dicyclopentyl
1.	
	ferrocene;
g.	Dicyclohexyl
	ferrocene;
h.	Diethyl
	ferrocene;
i.	Dipropyl
1.	
_	ferrocene;
j.	Dibutyl
	ferrocene;
k.	Dihexyl
и.	ferrocene;
1	
l.	Acetyl
	ferrocenes;
	N.B.:
	See
	Military
	Goods
	Controls
	for
	ferrocene
	Carboxylic
	acids;
	N.B.:
	See
	Military
	Goods
	Controls
	for
	butacene;
0.	Other
0.	ferrocene
	derivatives
	usable
	as
	rocket
	propellant
	burning
	rate
	modifiers,
	other
	than
	those
	specified
	in
	the
	Military
	Goods
	Controls.

Status: Point in time view as at 10/02/2008.

		Note: For propellants and constituent chemicals for propellants not specified in I.1A.029, see the Military Goods Controls.
I.1A.030	1C116	Maraging steels (steels generally characterised by high nickel, very low carbon content and the use of substitutional elements or precipitates to produce agehardening) having an ultimate tensile strength of 1 500 MPa or greater, measured at 293 K (20 °C), in the form of sheet, plate or tubing with a wall or plate thickness equal to or less than 5 mm. N.B.: See also I.1A.035.
I.1A.031	ex 1C117*	Tungsten, molybdenum and alloys of these metals in the form of uniform spherical or atomized particles of 500 micrometre diameter or less with a purity of 97 % or greater for fabrication of motor components, usable in 'missiles' (i.e., heat shields, nozzle substrates, nozzle throats and thrust vector control surfaces).
I.1A.032	1C118	Titanium-stabilised duplex stainless steel (Ti-DSS) having all of the following: a. Having all of the following characteristics: 1. Containing 17,0-23,0 weight percent chromium and 4,5-7,0 weight percent nickel; 2. Having a titanium content of greater

1			than 0.10
			than 0,10 weight
			percent;
			and
		3.	A ferritic-
		J.	austenitic
			microstructure
			(also
			referred
			to as a
			two-phase
			microstructure)
			of which
			at least 10
			percent is
			austenite
			by volume
			(according
			to ASTM
			E-1181-87
			or national
			equivalents);
	•	** .	and
	b.	Having a	
		following	
		1.	Ingots
			or bars
			having a size of
			100 mm
			or more
			in each
			dimension;
		2.	Sheets
			having a
			width of
			600 mm
			or more
			and a
			thickness
			of 3 mm
		2	or less; or
		3.	Tubes
			having an outer
			diameter
			of 600
			mm or
			more and
			a wall
			thickness
			of 3 mm
			or less.

Status: Point in time view as at 10/02/2008.

I.1A.033	1C202	Alloys as follows:	
		a. Aluminium alloy having both of the following characteristics: 1. 'Capab of' an ultimat tensile strengtl 460 MI or more 293 K (le e h of Pa e at
		°C); an 2. In the form of tubes o cylindr solid forms (includ forging with an outside diamete of more than 75	f r ical ing (s)
		b. Titanium alloys having both of the following characteristics: 1. 'Capab of' an ultimat tensile strengtl 900 MI or more 293 K (e h of Pa e at (20
		°C); an 2. In the form of tubes o cylindr solid forms (includ forging with an outside diamete of more	f r ical ing (ss)

		than 75 mm. Technical Notes: The phrase alloys 'capable of' encompasses alloys before or after heat treatment.
I.1A.034	1C210 and ex 1C010.a	'Fibrous or filamentary materials' or prepregs, other than those specified in I.1A.024, as follows: a. Carbon or aramid 'fibrous or filamentary materials' having either of the following characteristics: 1. A 'specific modulus' of 12,7 × 10 ⁶ m or greater; or 2. A 'specific tensile strength' of 235 × 10 ³ m or greater; Note: I.1A.034.a. does not prohibit aramid 'fibrous or filamentary materials' having 0,25 percent or more by weight of an ester based fibre surface modifier; b. Glass 'fibrous or filamentary materials' having both of the following characteristics: 1. A 'specific modulus' of 3,18 × 10 ⁶ m or greater; and

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		2. A 'specific tensile strength' of 76,2 × 10³ m or greater; c. Thermoset resin impregnated continuous 'yarns', 'rovings', 'tows' or 'tapes' with a width of 15 mm or less (prepregs), made from carbon or glass 'fibrous or filamentary materials' specified in I.1A.024 or I.1A.034.a or .b. Technical Notes: The resin forms the matrix of the composite. Note: In I.1A.034, 'fibrous or filamentary materials' is restricted to continuous 'monofilaments', 'yarns', 'rovings', 'tows' or 'tapes'.
I.1A.035	1C216	Maraging steel, other than that specified in I.1A.030, 'capable of' an ultimate tensile strength of 2 050 MPa or more, at 293 K (20 °C). Note: I.1A.035 does not prohibit forms in which all linear dimensions are 75 mm or less. Technical Notes: The phrase maraging steel 'capable of' encompasses maraging steel before or after heat treatment.
I.1A.036	1C225	Boron enriched in the boron-10 (¹⁰ B) isotope to greater than its natural isotopic abundance, as follows: elemental boron, compounds, mixtures containing boron, manufactures thereof,

		waste or scrap of any of the foregoing. Note: In I.1A.036 mixtures containing boron include boron loaded materials. Technical Notes: The natural isotopic abundance of boron-10 is approximately 18,5 weight per cent (20 atom per cent).
I.1A.037	1C226	Tungsten, tungsten carbide, and alloys containing more than 90 % tungsten by weight, having both of the following characteristics: a. In forms with a hollow cylindrical symmetry (including cylinder segments) with an inside diameter between 100 mm and 300 mm; and b. A mass greater than 20 kg. Note: I.1A.037 does not prohibit manufactures specially designed as weights or gamma-ray collimators
I.1A.038	1C227	Calcium having both of the following characteristics: a. Containing less than 1 000 parts per million by weight of metallic impurities other than magnesium; and b. Containing less than 10 parts per million by weight of boron.
I.1A.039	1C228	Magnesium having both of the following characteristics: a. Containing less than 200 parts per million by weight of metallic impurities other than calcium; and

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		b. Containing less than 10 parts per million by weight of boron.
I.1A.040	1C229	Bismuth having both of the following characteristics: a. A purity of 99,99 % or greater by weight; and b. Containing less than 10 parts per million by weight of silver.
I.1A.041	1C230	Beryllium metal, alloys containing more than 50 % beryllium by weight, beryllium compounds, manufactures thereof, and waste or scrap of any of the foregoing. Note: I.1A.041 does not prohibit the following: a. Metal windows for X-ray machines, or for bore-hole logging devices; b. Oxide shapes in fabricated or semifabricated forms specially designed for electronic component parts or as substrates for electronic circuits; c. Beryl (silicate of beryllium and aluminium) in the form of emeralds or aquamarines.
I.1A.042	1C231	Hafnium metal, alloys containing more than 60 % hafnium by weight, hafnium compounds containing more than 60 % hafnium by weight, manufactures thereof, and waste or scrap of any of the foregoing.
I.1A.043	1C232	Helium-3 (³ He), mixtures containing helium-3, and products or devices containing any of the foregoing.

		Note: I.1A.043 does not prohibit a product or device containing less than 1 g of helium-3.
I.1A.044	1C233	Lithium enriched in the lithium-6 (⁶ Li) isotope to greater than its natural isotopic abundance, and products or devices containing enriched lithium, as follows: elemental lithium, alloys, compounds, mixtures containing lithium, manufactures thereof, waste or scrap of any of the foregoing. Note: I.1A.044 does not prohibit thermoluminescent dosimeters. Technical Notes: The natural isotopic abundance of lithium-6 is approximately 6,5 weight per cent (7,5 atom per cent).
I.1A.045	1C234	Zirconium with a hafnium content of less than 1 part hafnium to 500 parts zirconium by weight, as follows: metal, alloys containing more than 50 % zirconium by weight, compounds, manufactures thereof, waste or scrap of any of the foregoing. Note: I.1A.045 does not prohibit zirconium in the form of foil having a thickness of 0,10 mm or less.
I.1A.046	1C235	Tritium, tritium compounds, mixtures containing tritium in which the ratio of tritium to hydrogen atoms exceeds 1 part in 1 000, and products or devices containing any of the foregoing. Note: I.1A.046 does not prohibit a product or device containing less than 1,48 × 10 ³ GBq (40 Ci) of tritium.

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I.1A.047 I.1A.048	1C236 1C237	Alpha-emitting radionuclides having an alpha half-life of 10 days or greater but less than 200 years, in the following forms: a. Elemental; b. Compounds having a total alpha activity of 37 GBq/kg (1 Ci/kg) or greater; c. Mixtures having a total alpha activity of 37 GBq/kg (1 Ci/kg) or greater; d. Products or devices containing any of the foregoing. Note: I.1A.047 does not prohibit a product or device containing less than 3,7 GBq (100 millicuries) of alpha activity. Radium-226 (226Ra), radium-226 alloys, radium-226 compounds, mixtures containing radium-226, manufactures therof, and products or devices containing any of the foregoing. Note: I.1A.048 does not prohibit the following: a. Medical applicators; b. A product or device containing less than 0,37 GBq (10 millicuries) of radium-226.
I.1A.049	1C238	Chlorine trifluoride (ClF ₃).
I.1A.050	1C239	high-explosives, other than those specified in the Military Goods Controls, or substances or mixtures containing more than 2 % by weight thereof, with a crystal density greater than 1,8 g/cm³ and having a detonation velocity greater than 8 000 m/s.

I.1A.051	1C240	Nickel powder and porous
		nickel metal, other than those specified in I.0A.013, as follows:
		a. Nickel powder having both of the following
		characteristics:
		1. A nickel
		purity content of
		99,0 % or greater by
		weight;
		2. A mean
		particle
		size
		of less
		than 10
		micrometres
		measured
		by American
		Society
		for Testing
		and
		Materials
		(ASTM) B330
		standard;
		b. Porous nickel metal
		produced from
		materials specified in I.1A.051.a.
		Note: I.1A.051 does not
		prohibit the following:
		a. Filamentary nickel powders;
		b. Single porous nickel sheets with an area
		of 1 000 cm ² per sheet or less.
		Technical Notes:
		I.1A.051.b. refers to porous
		metal formed by compacting
		and sintering the materials in
		I.1A.051.a. to form a metal
		material with fine pores
		interconnected throughout
		the structure.

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I.1B TECHNOLOGY, INCLUDING SOFTWARE

No	Relevant item(s) from Annex to Regulation (EC) No 1183/2007	Description
I.1B.001	ex 1D001	'Software' specially designed or modified for the 'development', 'production' or 'use' of equipment specified in I.1A.006.
I.1B.002	1D101	'Software' specially designed or modified for the 'use' of goods specified in I.1A.007 to I.1A.009, or I.1A.011 to I.1A.013.
I.1B.003	1D103	'Software' specially designed for analysis of reduced observables such as radar reflectivity, ultraviolet/ infrared signatures and acoustic signatures.
I.1B.004	1D201	'Software' specially designed for the 'use' of goods specified in I.1A.014.
I.1B.005	1E001	'Technology' according to the General Technology Note for the 'development' or 'production' of equipment or materials specified in I.1A.006 to I.1A.051.
I.1B.006	1E101	'Technology' according to the General Technology Note for the 'use' of goods specified in I.1A.001, I.1A.006 to I.1A.013, I.1A.026, I.1A.028, I.1A.029 to I.1A.032, I.1B.002 or I.1B.003.
I.1B.007	ex 1E102	'Technology' according to the General Technology Note for the 'development' of 'software' specified in I.1B.001 to I.1B.003.
I.1B.008	1E103	'Technology' for the regulation of temperature, pressure or atmosphere in autoclaves or hydroclaves,

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		when used for the 'production' of 'composites' or partially processed 'composites'.
I.1B.009	1E104	'Technology' relating to the 'production' of pyrolytically derived materials formed on a mould, mandrel or other substrate from precursor gases which decompose in the 1 573 K (1 300 °C) to 3 173 K (2 900 °C) temperature range at pressures of 130 Pa to 20 kPa. Note: I.1B.009 includes 'technology' for the composition of precursor gases, flow-rates and process control schedules and parameters.
I.1B.010	ex 1E201	'Technology' according to the General Technology Note for the 'use' of goods specified in I.1A.002 to I.1A.005, I.1A.014 to I.1A.023, I.1A.024.b., I.1A.033 to I.1A.051, or I.1B.004.
I.1B.011	1E202	'Technology' according to the General Technology Note for the 'development' or 'production' of goods specified in I.1A.002 to I.1A.005.
I.1B.012	1E203	'Technology' according to the General Technology Note for the 'development' of 'software' specified in I.1B.004.

MATERIALS PROCESSING U.K. I.2



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I.2A

GOODS

No	Relevant item(s) from Annex to Regulation (EC) No 1183/2007	Description		
I.2A.001	ex 2A001*	Anti-friction bearings and bearing systems, as follows, and components therefor: Note: I.2A.001 does not prohibit balls with tolerances specified by the manufacturer in accordance with ISO 3290 as grade 5 or worse. Radial ball bearings having all tolerances specified by the manufacturer in accordance with ISO 492 Tolerance Class 2 (or ANSI/ABMA Std 20 Tolerance Class ABEC-9 or RBEC-9, or other national equivalents), or better and having all of the following characteristics: a. An inner ring bore diameter between 12 and 50 mm; b. An outer ring outside diameter between 25 and 100 mm; and c. A width between 10 and 20 mm.		
I.2A.002	2A225	Crucibles made of materials resistant to liquid actinide metals, as follows: a. Crucibles having both of the following characteristics: 1. A volume of between 150 cm³ and 8 000 cm³; and 2. Made of or coated		

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	of t foll mat hav pur 98 9	h any he owing terials, ing a ity of % or ater by ght:
	a.	Calcium fluoride (CaF ₂);
	b.	Calcium zirconate (metazirconate) (CaZrO ₃);
	c.	Cerium sulphide (Ce_2S_3) ;
	d.	Erbium oxide (erbia) (Er ₂ O ₃);
	e.	Hafnium oxide (hafnia) (HfO ₂);
	f.	Magnesium oxide (MgO);
	g.	Nitrided niobium- titanium- tungsten alloy (approximately 50 % Nb, 30 % Ti, 20 % W);
	h.	Yttrium oxide (yttria) (Y ₂ O ₃);
oning accuracy in accordance with ISO 230/2 (1997) should consult the compet	or ent

a Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (1997) should consult the competent authorities of the Member State in which they are established.

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		i.	Zirconium oxide (zirconia) (ZrO ₂);
	b.	Crucibles having both of the following characteristic	
		of betw 50 c and	olume veen cm ³ 2 000 ; and
		2. Mac of o line tant hav puri	de or d with alum, ing a ity of 0 % or ater by
	c.	Crucibles have all of the follocharacteristic 1. A vof between 50 cm.	ving owing s: olume veen em ³ 2 000
		2. Mac of o line tant hav puri	de or d with alum, ing a ity of or oter by ght;
		3. Coa with tant carb nitr bori or a	ated alum pide, ide, ide, ny
Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (authorities of the Member State in which they are established.	199/) should	consult the compete	ent

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		combination thereof
I.2A.003	2A226	Valves having all of the following characteristics: a. A 'nominal size' of 5 mm or greater; b. Having a bellows seal; and c. Wholly made of or lined with aluminium, aluminium alloy, nickel, or nickel alloy containing more than 60 % nickel by weight. Technical Notes: For valves with different inlet and outlet diameters, the 'nominal size' in I.2A.003 refers to the smallest diameter
I.2A.004	ex 2B001.a*, 2B001.d	Machine tools and any combination thereof, for removing (or cutting) metals, ceramics or 'composites', which, according to the manufacturer's technical specification, can be equipped with electronic devices for 'numerical control', and specially designed components as follows: N.B.: See also I.2A.016. Note 1: I.2A.004 does not prohibit special purpose machine tools limited to the manufacture of gears. Note 2: I.2A.004 does not prohibit special purpose machine tools limited to the manufacture of any of the following parts: a. Crankshafts or camshafts; b. Tools or cutters; c. Extruder worms; Note 3: A machine tool having at least two of the

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three turning, milling or grinding capabilities (e.g., a turning machine with milling capability), must be evaluated against each applicable entry I.2A.004.a and I.2A.016.

Machine tools for turning, for machines capable of machining diameters greater than 35 mm, having all of the following characteristics:

- Positioning 1. accuracy with 'all compensations available' equal to or less (better) than 6 µm according to ISO 230/2 $(1988)^{a}$ or national equivalents along any linear axis; and
- 2. Two or more axes which can be coordinated simultaneously for 'contouring control';

Note 1: I.2A.004.a. does not prohibit turning machines specially designed for the production of contact lenses, having all of the following characteristics:

a Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (1997) should consult the competent authorities of the Member State in which they are established.

		1. Machine controller limited to using ophthalmic based software for part programming data input; and 2. No vacuum chucking. Note 2: I.2A.004.a does not prohibit bar machines (Swissturn), limited to machining only bar feed thru, if maximum bar diameter is equal to or less than 42 mm and there is no capability of mounting chucks. Machines may have drilling and/or milling capabilities for machining parts with diameters less than 42 mm. Electrical discharge machines (EDM) of the non-wire type which have two or more rotary axes which can be coordinated simultaneously for 'contouring control';
I.2A.005	ex 2B006.b*	Dimensional inspection or measuring systems, equipment and 'electronic assemblies', as follows: Linear and angular displacement measuring ISO 230/2 (1997) should consult the competent

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instruments, as follows: Linear displacement measuring instruments having any of the following: Technical Notes: For the purpose of I.2A.005.b.1. 'linear displacement' means the change of distance between the measuring probe and the measured object. Nona. contact type measuring systems with 'resolution' equal to or less (better) than 0,2 μm within measuring range up to 0,2 mm;

a Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (1997) should consult the competent authorities of the Member State in which they are established.

	b.	2.	gistics: 'Linearity' equal to or less (better) than 0,1 % within a measuring range up to 5 mm; and Drift equal to or less (better) than 0,1 % per day at a standard ambient test room
			standard ambient test

a Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (1997) should consult the competent authorities of the Member State in which they are established.

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

c.	Measurii	ng
	systems	
	having	
	all	
	of	
	the	
	followin	g:
	1.	Containing
		a
		'laser';
		and
	2.	Maintaining,
		for
		at
		least
		12
		hours,
		over
		a
		temperature
		range
		of
		±
		1
		K
		around
		a
		standard
		temperature
		and
		at
		a
		standard
		pressure,
		all
		of
		the
		following:
		a. A
		'res
		ove
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		full
		scal

A 'res ove the full sca of 0,1 μm or less (be and

Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (1997) should consult the competent authorities of the Member State in which they are established.

ANNEX I
Document Generated: 2024-06-24

Status: Point in time view as at 10/02/2008.

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b.

A 'me und equato or less (be than (0,2)

L/2 000 µm (L is the mea leng in

Note: I.2A.005.b.1. does not prohibit measuring interferomete systems, without closedoropen loop feedback, containing a laser measure slide movement errors of

machine tools,

or

dimensional inspection machines,

a Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (1997) should consult the competent authorities of the Member State in which they are established.

similar equipment.

Document Generated: 2024-06-24

Status: Point in time view as at 10/02/2008.

		Angular displacement measuring instruments having an 'angular position deviation' equal to or less (better) than 0,00025°; Note: 1.2A.005.b.2. does not prohibit optical instruments, such as autocollimators, using collimated light (e.g. laser light) to detect angular displacement of a mirror
I.2A.006	2B007.c	'Robots' having the following characteristics and specially designed controllers and 'end-effectors' therefor: N.B.: See also I.2A.019. c. Specially designed or rated as radiation-hardened to withstand a total radiation dose greater than 5 × 10 ³ Gy (silicon) without operational degradation. Technical Notes: The term Gy(silicon) refers

		to the energy in Joules per kilogram absorbed by an unshielded silicon sample when exposed to ionising radiation.		
I.2A.007	2B104	'Isostatic presses' having all of the following: N.B.: See also I.2A.017. a. Maximum working pressure of 69 MPa or greater; b. Designed to achieve and maintain a controlled thermal environment of 873 K (600 °C) or greater; and c. Possessing a chamber cavity with an inside diameter of 254 mm or greater.		
I.2A.008	2B105	Chemical vapour deposition (CVD) furnaces designed or modified for the densification of carbon-carbon composites.		
I.2A.009	2B109	Flow-forming machines and specially designed components as follows: N.B.: See also I.2A.020. a. Flow-forming machines having all of the following: 1. According to the manufacturer's technical specification, can be equipped with 'numerical control' units or a computer control, even		

a Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (1997) should consult the competent authorities of the Member State in which they are established.

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		when not equipped with such units; and 2. With more than two axes which can be coordinated simultaneously for 'contouring control'. b. Specially designed components for flow-forming machines specified in I.2A.009.a. Note: I.2A.009 does not prohibit machines that are not usable in the production of propulsion components and equipment (e.g. motor cases) for 'missiles'. Technical Notes: Machines combining the function of spin-forming and flow-forming are for the purpose of I.2A.009 regarded as flow-forming machines
I.2A.010 a Manufacturers calculating	2B116	Vibration test systems, equipment and components therefor, as follows: a. Vibration test systems employing feedback or closed loop techniques and incorporating a digital controller, capable of vibrating a system at an acceleration equal to or greater than 10 g rms between 20 Hz and 2 kHz and imparting forces equal to or greater than 50 kN, ith ISO 230/2 (1997) should consult the competent

a Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (1997) should consult the competen authorities of the Member State in which they are established.

		b. c.	measured 'bare table'; Digital controllers, combined with specially designed vibration test software, with a 'real-time bandwidth' greater than 5 kHz designed for use with vibration test systems specified in I.2A.010.a.; Vibration thrusters (shaker units), with or without associated amplifiers, capable of imparting a force equal to or greater than 50 kN, measured 'bare table', and usable in vibration test systems specified in I.2A.010.a.;
I.2A.011	2B117	means a with no f	Test piece support structures and electronic units designed to combine multiple shaker units in a system capable of providing an effective combined force equal to or greater than 50 kN, measured 'bare table', and usable in vibration systems specified in I.2A.010.a. al Notes: 010, 'bare table' flat table, or surface, fixture or fittings
- M. G. (1.1.1)	1 22 200 200 2	specified	d in I.2A.007 or
a Manufacturers calculating positionin authorities of the Member State in w	ng accuracy in accordance with ISO 230/2 (which they are established.	199/) should	consult the competent

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		I.2A.008, designed or modified for densification and pyrolysis of structural composite rocket nozzles and reentry vehicle nose tips.		
I.2A.012	2B119	Balancing machines and related equipment, as follows: N.B.: See also I.2A.021. a. Balancing machines having all the following characteristics: 1. Not capable of balancing rotors/ assemblies having a mass greater than 3 kg; 2. Capable of balancing rotors/ assemblies at speeds greater than 12 500 rpm; 3. Capable of correcting unbalance in two planes or more; and 4. Capable of balancing to a residual specific unbalance of 0,2 g mm per kg of rotor mass; Note: I.2A.012.a. does not prohibit		
Manufacturers calculating positioning		balancing machines designed or		

a Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (1997) should consult the competent authorities of the Member State in which they are established.

		b.	or other equipme Indicator designed modified with man specified I.2A.012 Technica Indicator are some	nt. r heads l or l for use chines l in 2.a. l Notes: r heads etimes s balancia	
I.2A.013	2B120	tables ha	imulators ving all c g characte Two axe	s or rate of the eristics: s or more s capable mitting l power ignal ion; and any of wing	kis

a Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (1997) should consult the competent authorities of the Member State in which they are established.

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I.2A.014	2B121	2. Note: I.2A.013 do prohibit rotary tal designed or modif machine tools or f equipment. Positioning tables	Having a worst-case rate stability equal to or better (less) that plus or minus 0,05 % averaged over 10 degrees o more; or A positionin accuracy equal to or better than 5 arc second. es not bles fied for for medical	r ng
Manufacturers calculating positioning		capable of precise positioning in any other than those sp	rotary axes), pecified	

a Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (1997) should consult the competent authorities of the Member State in which they are established.

		in I.2A.013, having all the following characteristics: a. Two axes or more; and b. A positioning accuracy equal to or better than 5 arc second. Note: I.2A.014 does not prohibit rotary tables designed or modified for machine tools or for medical equipment.
I.2A.015	2B122	Centrifuges capable of imparting accelerations above 100 g and having slip rings capable of transmitting electrical power and signal information.
I.2A.016	2B201, 2B001.b.2 and 2B001.c.2	Machine tools and any combination thereof, as follows, for removing or cutting metals, ceramics or 'composites', which, according to the manufacturer's technical specification, can be equipped with electronic devices for simultaneous 'contouring control' in two or more axes: Note: For 'numerical control' units prohibited because of their associated 'software' see I.2B.002. a. Machine tools for milling, having any of the following characteristics: 1. Positioning accuracies with 'all compensations available' equal to or less (better) than 6 µm according to ISO

a Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (1997) should consult the competent authorities of the Member State in which they are established.

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230/2 $(1988)^a$ or national equivalents along any linear axis; 2. Two or more contouring rotary axes; or 3. Five or more axes which can be coordinated simultaneously for 'contouring control'. Note: I.2A.016.a. does not prohibit milling machines having the following characteristics: X-axis travel greater than 2 m; and b. Overall positioning accuracy on the xaxis more (worse) than 30 μm . Machine tools for grinding, having any of the following characteristics: Positioning 1. accuracies with 'all compensations available' equal to or less

b.

Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (1997) should consult the competent authorities of the Member State in which they are established.

```
(better)
         than 4 µm
         according
         to ISO
         230/2
         (1988)^{a} or
         national
         equivalents
         along any
         linear
         axis;
2.
         Two or
         more
         contouring
         rotary
         axes; or
3.
         Five or
         more axes
         which
         can be
         coordinated
         simultaneously
         for
         'contouring
         control'.
Note: I.2A.016.b.
does not prohibit
the following
grinding machines:
         Cylindrical
         external,
         internal,
         and
         external-
         internal
         grinding
         machines
         having
         all of the
         following
         characteristics:
                  Limited
                  to
                   maximum
                   workpiece
                   capacity
                   of
                   Ĭ50
                   mm
                  outside
```

a Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (1997) should consult the competent authorities of the Member State in which they are established.

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

diameter or length; and 2. Axes limited to x, Z and c; b. Jig grinders that do not have a z-axis or a waxis with an overall positioning accuracy less (better) than 4 µm according to ISO 230/2 $(1988)^a$ or national equivalents. *Note 1: I.2A.016 does not* prohibit special purpose machine tools limited to the manufacture of any of the following parts: a. Gears; Crankshafts or b. camshafts; Tools or cutters; c. Extruder worms. d. Note 2: A machine tool having at least two of the three turning, milling or grinding capabilities (e.g., a turning machine with milling capability), must be evaluated against each applicable entry I.2A.004.a. or I.2A.016.a. or b.

a Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (1997) should consult the competent authorities of the Member State in which they are established.

ANNEX I Document Generated: 2024-06-24

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I.2A.017	2B204	'Isostatic presses', other than those specified in I.2A.007, and related equipment, as follows: a. 'Isostatic presses' having both of the following characteristics: 1. Capable of achieving a		
		maximum working pressure of 69 MPa or greater; and 2. A chamber		
		chamber cavity with an inside diameter in excess of 152 mm;		
		b. Dies, moulds and controls, specially designed for 'isostatic presses' specified in I.2A.017.a.		
		Technical Notes: In 1.2A.017 the inside chamber dimension is that of the chamber in which both the working temperature		
		and the working pressure are achieved and does not include fixtures. That dimension will be the smaller of either the inside diameter of the pressure chamber or the inside diameter of the insulated furnace chamber, depending on which of the		
I.2A.018	2B206	two chambers is located inside the other. Dimensional inspection machines, instruments or		

a Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (1997) should consult the competent authorities of the Member State in which they are established.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

systems, other than those specified in I.2A.005, as follows: Computer controlled or numerically controlled dimensional inspection machines having both of the following characteristics: Two or 1. more axes; and 2. A onedimensional length 'measurement uncertainty' equal to or less (better) than (1,25 +L/1000) μm tested with a probe of an 'accuracy' of less (better) than 0,2 μm (L

b. Systems for simultaneous linear-angular inspection of hemishells, having both of the following characteristics:

1. 'Measurement uncertainty'

is the measured length in millimetres) (Ref.: VDI/VDE 2617 Parts

a Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (1997) should consult the competent authorities of the Member State in which they are established.

		can be us machine if they m criteria s machine measurin Note 2: 1 in 1.24.0 it exceed	
		1.	in determining the measurement uncertainty of a dimensional inspection system shall be described in VDI/VDE 2617 parts 2, 3 and 4.
		2.	All parameters of measurement values in I.2A.018 represent plus/minus i.e., not total band.
I.2A.019	2B207	and cont those spe as follow a.	'Robots' or 'end- effectors' specially designed to comply
a Manufacturers calculating positionir authorities of the Member State in w	g accuracy in accordance with ISO 230/2 (hich they are established.	1997) should	consult the competent

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		b.	standard to handle explosive example electrical ratings for explosive Control specially for any of 'robots'	n, meeting I code for high- es); units or designed of the or 'end- s' specified
I.2A.020	2B209	forming of flow f other tha I.2A.009 follows: a.	machines forming functions of those spans and man Machine having by the follo charactes 1. Rotor-formandrels to form of rotors of diameter.	anctions, pecified in adrels, as set ooth of wing ristics: Three or more rollers (active or guiding); and Which, according to the manufacturer's technical specification, can be equipped with 'numerical control' units or a computer control; orming sedesigned cylindrical inside to between

a Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (1997) should consult the competent authorities of the Member State in which they are established.

		75 mm and 400 mm. Note: I.2A.020.a. includes machines which have only a single roller designed to deform metal plus two auxiliary rollers which support the mandrel, but do not participate directly in the deformation process.
I.2A.021	2B219	Centrifugal multiplane balancing machines, fixed or portable, horizontal or vertical, as follows: a. Centrifugal balancing machines designed for balancing flexible rotors having a length of 600 mm or more and having all of the following characteristics: 1. Swing or journal diameter greater than 75 mm; 2. Mass capability of from 0,9 to 23 kg; and 3. Capable of balancing speed of revolution greater than 5 000 r.p.m.;
		b. Centrifugal balancing machines designed for balancing hollow cylindrical rotor components and having all of the following characteristics:

a Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (1997) should consult the competent authorities of the Member State in which they are established.

I.2A.022 2B225 Remote manipulators that can be used to provide remote actions in radiochemical separation operation); or b. A capability of penetrating 0,6 m or more of hot cell wall (withough-the-wall operation); or b. A capability of bridging over the top of a hot cell wall (withough-the-wall operation). Technical Notes: Remote manipulators that can be used to provide remote actions in radiochemical separation operations or hot cells, having either of the following characteristics: a. A capability of penetrating 0,6 m or more of hot cell wall (through-the-wall operation); or b. A capability of bridging over the top of a hot cell wall with a thickness of 0,6 m or more (over-the-wall operation). Technical Notes: Remote manipulators provide translation of human operator actions to a remote operating arm and terminal fixture. They may be of master/slave' type or operated by joystick or			2.	Journal diameter greater than 75 mm; Mass
residual imbalance equal to or less than 0,01 kg × mm/kg per pane; and 4. Belt drive type. 1.2A.022 2B225 Remote manipulators that can be used to provide remote actions in radiochemical separation operations or hot cells, having either of the following characteristics: a. A capability of penetrating 0,6 m or more of hot cell wall (through-the-wall operation); or b. A capability of bridging over the top of a hot cell wall with a thickness of 0,6 m or more (over-the-wall operation). Technical Notes: Remote manipulators provide translation of human operator actions to a remote operating arm and terminal fixture. They may be of 'master/slave' type			3.	of from 0,9 to 23 kg; Capable of balancing
Remote manipulators that can be used to provide remote actions in radiochemical separation operations or hot cells, having either of the following characteristics: a. A capability of penetrating 0,6 m or more of hot cell wall (through-the-wall operation); or b. A capability of bridging over the top of a hot cell wall with a thickness of 0,6 m or more (over-the-wall operation). Technical Notes: Remote manipulators provide translation of human operator actions to a remote operating arm and terminal fixture. They may be of 'master/slave' type			4.	residual imbalance equal to or less than 0,01 kg × mm/kg per plane; and Belt drive
keypad.	I.2A.022	2B225	be used to provide actions in radioch separation operation operation cells, having either following charact a. A capable penetrate or more wall (the wall operation operation operation operation operation operation of the top of the	tors that can be remote tors that can be remote to remote to remote to remote to remote to remote the tors of the tors of the tors of hot cell tough-the-tough-the-tough to remote the tors of a hot level with a tors of 0,6 m (over-the-tough tors to remote the remo

a Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (1997) should consult the competent authorities of the Member State in which they are established.

I.2A.023	2B226	Controlled atmosphere (vacuum or inert gas) induction furnaces, and power supplies therefor, as follows: a. Furnaces having all of the following characteristics: 1. Capable of operation above 1 123 K (850 °C); 2. Induction coils 600 mm or less in diameter; and 3. Designed for power inputs of 5 kW or
		b. Power supplies, with a specified power output of 5 kW or more, specially designed for furnaces specified in 1.2A.023.a. Note: I.2A.023.a. does not prohibit furnaces designed for the processing of semiconductor wafers.
I.2A.024	2B227	Vacuum or other controlled atmosphere metallurgical melting and casting furnaces and related equipment as follows: a. Arc remelt and casting furnaces having both of the following characteristics: 1. Consumable electrode capacities between

a Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (1997) should consult the competent authorities of the Member State in which they are established.

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			1 000 cm ³ and 20 000 cm ³ , and 2. Capable of operating with melting
		b.	temperatures above 1 973 K (1 700 °C); Electron beam melting furnaces and plasma atomization and melting furnaces,
			having both of the following characteristics: 1. A power of 50 kW or greater; and 2. Capable of operating with melting temperatures above 1 473 K (1
		c.	200 °C); Computer control and monitoring systems specially configured for any of the furnaces specified in I.2A.024.a. or b.
I.2A.025	2B228	assemb straigh bellow	Pabrication or soly equipment, rotor tening equipment, s-forming mandrels es, as follows: Rotor assembly equipment for assembly of gas centrifuge rotor tube sections,
	positioning accuracy in accordance w State in which they are established.	rith ISO 230/2 (1997) shou	ld consult the competent

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

baffles, and end caps; *Note: I.2A.025.a.* includes precision mandrels, clamps, and shrink fit machines. Rotor straightening b. equipment for alignment of gas centrifuge rotor tube sections to a common axis; Technical Notes: In I.2A.025.b. such equipment normally consists of precision measuring probes linked to a computer that subsequently controls the action of, for example, pneumatic rams used for aligning the rotor tube sections. Bellows-forming c. mandrels and dies for producing single-convolution bellows. Technical Notes: In I.2A.025.c. the bellows have all of the following characteristics: 1. Inside diameter between 75 mm and 400 mm; 2. Length equal to or greater than 12,7 mm; 3. Single convolution

depth

a Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (1997) should consult the competent authorities of the Member State in which they are established.

Status: Point in time view as at 10/02/2008.

			4.	greater than 2 mm; and Made of high- strength aluminium alloys, maraging steel or high strength 'fibrous or filamentary materials'.
I.2A.026	2B230	capable of absolute point in kPa and	e transductof measure pressures the range having bore g characted. Pressure elements of or proby aluminical on alloy with than 60° weight; a Having of the forcharacted 1.	ing at any 0 to 13 oth of the eristics: sensing s made otected inium, im alloy, inickel th more % nickel by and either llowing
				of better

a Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (1997) should consult the competent authorities of the Member State in which they are established.

		than + 130 Pa. Technical Notes: For the purposes of I.2A.026, 'accuracy' includes non- linearity, hysteresis and repeatability at ambient temperature.	
I.2A.027	2B231	Vacuum pumps having all of the following characteristics: a. Input throat size equal to or greater than 380 mm; b. Pumping speed equal to or greater than 15 m³/s; and c. Capable of producing an ultimate vacuum better than 13 mPa. Technical Notes: I. The pumping speed is determined at the measurement point with nitrogen gas on	
		air. 2. The ultimate vacuum is determined at the input of the pump with the input of the pump blocked off	
I.2A.028	2B232	Multistage light gas guns or other high- velocity gun systems (coil, electromagnetic, and electrothermal types, and other advanced systems) capable of accelerating projectiles to 2 km/s or greater	

Manufacturers calculating positioning accuracy in accordance with ISO 230/2 (1997) should consult the competent authorities of the Member State in which they are established.

Status: Point in time view as at 10/02/2008.

I.2B TECHNOLOGY, INCLUDING SOFTWARE

No	Relevant item(s) from Annex to Regulation (EC) No 1183/2007	Description
I.2B.001	ex 2D001	'Software', other than that specified in I.2B.002, specially designed or modified for the 'development', 'production' or 'use' of equipment specified in I.2A.004 to I.2A.006.
I.2B.002	2D002	'Software' for electronic devices, even when residing in an electronic device or system, enabling such devices or systems to function as a 'numerical control' unit, capable of coordinating simultaneously more than four axes for 'contouring control'. Note 1: I.2B.002 does not prohibit 'software' specially designed or modified for the operation of machine tools not specified in Category I.2.
I.2B.003	2D101	'Software' specially designed or modified for the 'use' of equipment specified in I.2A.007 to I.2A.015.
I.2B.004	2D201	'Software' specially designed for the 'use' of equipment specified in I.2A.017 to I.2A.024. Note: 'Software' specially designed for equipment specified in I.2A.018 includes 'software' for simultaneous measurements of wall thickness and contour
I.2B.005	2D202	'Software' specially designed or modified for the 'development', 'production' or 'use' of equipment specified in I.2A.016.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

I.2B.006	ex 2E001	'Technology' according to the General Technology Note for the 'development' of equipment or 'software' specified in I.2A.002 to I.2A.004, I.2A.006.b., I.2A.006.c, I.2A.007 to I.2A.028, I.2B.001, I.2B.003 or I.2B.004.
I.2B.007	ex 2E002	'Technology' according to the General Technology Note for the 'production' of equipment specified in I.2A.002 to I.2A.004, I.2A.006.b., I.2A.006.c, I.2A.007 to I.2A.028.
I.2B.008	2E101	'Technology' according to the General Technology Note for the 'use' of equipment or 'software' specified in I.2A.007, I.2A.009, I.2A.010, I.2A.012 to I.2A.015 or I.2B.003.
I.2B.009	ex 2E201	'Technology' according to the General Technology Note for the 'use' of equipment or 'software' specified in I.2A.002 to I.2A.005, I.2A.006.b., I.2A.006.c., I.2A.016 to I.2A.020, I.2A.022 to I.2A.028, I.2B.004 or I.2B.005.

I.3 ELECTRONICS U.K.

I.3A

GOODS

No	Relevant item(s) from Annex to Regulation (EC) No 1183/2007	Description
I.3A.001	ex 3A001.a*	Electronic components, as follows: a. General purpose integrated circuits, as follows: Note 1: The prohibition status of wafers (finished

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

or unfinished), in which the function has been determined, is to be evaluated against the parameters of *I.3Ā.001.a.* Note 2: Integrated circuits include the following types: 'Monolithic integrated circuits'; 'Hybrid integrated circuits'; 'Multichip integrated circuits'; 'Film type integrated circuits', including silicon-onsapphire integrated circuits; 'Optical integrated circuits'. Integrated circuits having all of the following characteristics: Designed a. or rated as radiation hardened withstand total irradiation dose of 5 10^{3} Gy

		b.	(silicon) or higher; and Usable in protecting rocket systems and 'unmanned aerial vehicles' against nuclear effects (e.g., Electromagnetic Pulse (EMP), X- rays, combined blast and thermal effects), and usable for 'missiles'.
I.3A.002	3A101	Electronic equipment, devices and components, as follows: a. Analogue-to- digital converters, usable in 'missiles' designed to meet military specifications for ruggedized equipment; b. Accelerators capable of delivering electromagnetic radiation produced by bremsstrahlung from accelerated electrons of 2 MeV or greater, and	

Status: Point in time view as at 10/02/2008.

		systems containing those accelerators. Note: I.3A.002.b. above does not specify equipment specially designed for medical purposes.
I.3A.003	3A201	Electronic components as follows; a. Capacitors having either of the following sets of characteristics: 1. a. Voltage rating greater than 1,4
		kV; b. Energy storage greater than 10
		J; Capacitance greater than 0,5 μF; and
		d. Series inductance less than 50 nH;
		2. a. Voltage rating greater than 750 V;
		b. Capacitance greater than 0,25 μF; and

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

c. Series inductance less than 10 nH;

- b. Superconducting solenoidal electromagnets having all of the following characteristics:
 - 1. Capable of creating magnetic fields greater than 2 T;
 - 2. A ratio of length to inner diameter greater than 2;
 - 3. Inner diameter greater than 300 mm; and
 - 4. Magnetic field uniform to better than 1 % over the central 50 % of the inner volume;

Note: I.3A.003.b. does not prohibit magnets specially designed for and exported 'as parts of' medical nuclear magnetic resonance (NMR) imaging systems. The phrase 'as part of' does not necessarily mean physical part in the same shipment; separate shipments from

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

c.	allowed, the relat documer specify t shipmen dispatch of' the in systems. Flash X- generato pulsed e accelera either of followin characte	ts are led 'as pa maging ray ors or lectron tors havir the leg sets of ristics:	rt
	1.	a.	An
			accelerator peak electron energy of 500 keV or greater but less than 25 MeV; and
		b.	With
			a 'figure of merit' (K) of 0,25 or greater;
	2.	a.	or An accelerator peak electron energy of 25 MeV

or

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

greater; and
b. A
'peak
power'
greater
than
50
MW.

Note: I.3A.003.c. does not prohibit accelerators that are component parts of devices designed for purposes other than electron beam or X-ray radiation (electron microscopy, for example) nor those designed for medical purposes: Technical Notes:

1. The 'figure of merit' K is defined as:

 $K = 1.7 \times$ $10^3 V^{2,.65} O$ V is the peak electron energy in million electron volts. *If the accelerator* beam pulse duration is less than or equal to 1 μs, then Q is the total accelerated charge in Coulombs. If the accelerator beam pulse duration is greater than I μ s, then Q is the maximum accelerated charge in $1 \mu s$. Q equals the integral of i with

respect to t, over

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

the lesser of l μs or the time duration of the beam pulse $(Q = \int idt)$, where i is beam current in amperes and t is time in seconds.

- 2. 'Peak power' = (peak potential in volts) × (peak beam current in amperes).
- 3. In machines based on microwave accelerating cavities, the time duration of the beam pulse is the lesser of 1 µs or the duration of the bunched beam packet resulting from one microwave modulator pulse.
- 4. In machines based on microwave accelerating cavities, the peak beam current is the average

		current in the time duration of a bunched beam packet
I.3A.004	3A225	Frequency changers or generators, other than those specified in I.0A.002.b.13., having all of the following characteristics: a. Multiphase output capable of providing a power of 40 W or greater; b. Capable of operating in the frequency range between 600 and 2
		000 Hz; c. Total harmonic distortion better (less) than 10 %; and d. Frequency control better (less) than 0,1 %. Technical Notes: Frequency changers in I.3A.004 are also known as converters or inverters.
I.3A.005	3A226	High-power direct current power supplies, other than those specified in I.0A.002.j.6., having both of the following characteristics: a. Capable of continuously producing, over a time period of 8 hours, 100 V or greater with current output of 500 A or greater; and b. Current or voltage
I.3A.006	3A227	stability better than 0,1 % over a time period of 8 hours High-voltage direct current power supplies, other

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		I.0A.002	se specified in 2.j.5., having both of wing characteristics: Capable of continuously producing, over a time period of 8 hours, 20 kV or greater with current output of 1 A or greater; and Current or voltage stability better than 0,1 % over a time period of 8 hours.
I.3A.007	3A228	Switchir follows:	ng devices, as
		a.	Cold-cathode tubes, whether gas filled or not, operating similarly to a spark gap, having all of the following characteristics: 1. Containing three or more electrodes; 2. Anode peak voltage rating of 2,5 kV or more; 3. Anode peak current rating of 100 A or more; and
			4. Anode delay time of 10 µs or less; Note: I.3A.007 includes gas krytron
			tubes and vacuum sprytron tubes.
		b.	Triggered spark- gaps having both of the following characteristics:

			1.	An anode delay time of 15 µs or less; and Rated for a peak current of 500 A or more;
		c.	Modules assembl a fast sw function of the fo characte 1.	s or ies with vitching having all illowing
			 3. 	than 2 kV; Anode peak current rating of 500 A or more; and Turn on time of 1 µs or less.
I.3A.008	3A229	high-cur as follov	vs: e also Mi Controls. Explosiv firing se to drive controlle detonate in I.3A.0 Modular pulse ge (pulsers)	e generators litary ve detonator ts designed multiple ed ors specified 011; electrical nerators) having e following

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

2.	Enclosed
	in a dust-
	tight
	enclosure;
3.	Capable of
	delivering
	their
	energy in
	less than
	15 μs;
4.	Having
	an output
	greater
	than 100
	A;
5.	Having
٥.	a 'rise
	time' of
	less than
	10 µs into
	loads of
	less than
	40 ohms;
6.	No
0.	dimension
	greater than 254
7	mm;
7.	Weight less than
8.	25 kg; and
8.	Specified
	for use
	over an
	extended
	temperature
	range 223
	K (-50
	°C) to 373
	K (100
	°C) or
	specified
	as suitable
	for
	aerospace
37 . 7	applications.
	3A.008.b.
	xenon flash
lamp dri	
	al Notes:
In I.3A.0	
'wigo tim	o' ic

'rise time' is defined as the time

		interval from 10 % to 90 % current amplitude when driving a resistive load
I.3A.009	3A230	High-speed pulse generators having both of the following characteristics: a. Output voltage greater than 6 V into a resistive load of less than 55 ohms, and b. 'Pulse transition time' less than 500 ps. Technical Note: In I.3A.009, 'pulse transition time' is defined as the time interval between 10 % and 90 % voltage amplitude
I.3A.010	3A231	Neutron generator systems, including tubes, having both of the following characteristics: a. Designed for operation without an external vacuum system; and b. Utilizing electrostatic acceleration to induce a tritium-deuterium nuclear reaction
I.3A.011	3A232	Detonators and multipoint initiation systems, as follows: N.B.: See also Military Goods Controls. a. Electrically driven explosive detonators, as follows: 1. Exploding bridge (EB); 2. Exploding bridge wire (EBW); 3. Slapper;

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Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

- 4. Exploding foil initiators (EFI);
- b. Arrangements
 using single or
 multiple detonators
 designed to nearly
 simultaneously
 initiate an explosive
 surface over greater
 than 5 000 mm²
 from a single firing
 signal with an
 initiation timing
 spread over the
 surface of less than
 2,5 µs.

Note: I.3A.011 does not prohibit detonators using only primary explosives, such as lead azide.

Technical Note: *In I.3A.011 the detonators* of concern all utilise a small electrical conductor (bridge, bridge wire or foil) that explosively vapourises when a fast, high-current electrical pulse is passed through it. *In nonslapper-types, the* exploding conductor starts a chemical detonation in a contacting high-explosive material such as PETN (Pentaerythritoltetranitrate). *In slapper detonators, the* explosive vapourisation of the electrical conductor drives a flyer or slapper across a gap and the impact of the slapper on an explosive starts a chemical detonation. The slapper in some designs is driven by a magnetic force. The term exploding foil detonator may refer to either an EB or a slapper-type detonator. Also, the word initiator is sometimes used in place of the word detonator

I.3A.012	3A233	Magag	nectrometers other
1.3A.012	3A233		spectrometers, other lose specified in
			02.g., capable of
			ring ions of 230
			mass units or greater
			ving a resolution of
			than 2 parts in 230,
			ows, and ion sources
		therefo	
		a.	Inductively coupled
			plasma mass
			spectrometers (ICP/
			MS);
		b.	Glow discharge
			mass spectrometers
			(GDMS);
		c.	Thermal ionization
			mass spectrometers
			(TIMS);
		d.	Electron
			bombardment
			mass spectrometers
			which have a
			source chamber
			constructed from,
			lined with or plated
			with materials
			resistant to UF ₆ ;
		e.	Molecular beam
			mass spectrometers
			having either of
			the following
			characteristics:
			1. A source chamber
			cnamber
			from,
			lined with
			or plated
			with
			stainless
			steel or
			molybdenum
			and
			equipped
			with a
			cold trap
			capable of
			cooling to
			193 K (–
			80 °C) or
			less; or
	I	I	,

Status: Point in time view as at 10/02/2008.

		f.	equipped microflu- ion source for actini	orination ce designed
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I.3B TECHNOLOGY, INCLUDING SOFTWARE

No	Relevant item(s) from Annex to Regulation (EC) No 1183/2007	Description	
I.3B.001	3D101	'Software' specially designed or modified for the 'use' of equipment specified in I.3A.002.b	
I.3B.002	ex 3E001	'Technology' according to the General Technology Note for the 'development' or 'production' of equipment or materials specified in I.3A.001 to I.3A.003, or in I.3A.007 to I.3A.012.	
I.3B.003	ex 3E101	'Technology' according to the General Technology Note for the 'use' of equipment or 'software' specified in I.3A.001, I.3A.002 or I.3B.001.	
I.3B.004	3E102	'Technology' according to the General Technology Note for the 'development' of 'software' specified in I.3B.001.	
I.3B.005	ex 3E201	'Technology' according to the General Technology Note for the 'use' of equipment	

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

specified in I.3A.003 to I.3A.012.

I.4 COMPUTERS U.K.

I.4A

GOODS

No	Relevant item(s) from Annex to Regulation (EC) No 1183/2007	Description
I.4A.001	4A001.a.1 *	Electronic computers and related equipment, as follows: N.B.: See also I.4A.002. a. Specially designed to have the following characteristics: Rated for continuous operation at temperatures below 228 K (-45 °C) or above 328 K (55 °C); Note: I.4A.001 does not apply to computers specially designed for civil automobile or railway train applications.
I.4A.002	4A101*	Analogue computers, 'digital computers' or digital differential analysers having all of the following characteristics: N.B.: See also Military Goods Controls for computers for use in rockets or missiles.

Status: Point in time view as at 10/02/2008.

		b.	Designed or modified for use in space launch vehicles specified in I.9A.001 or sounding rockets specified in I.9A.005; and Designed as ruggedised or radiation hardened to withstand radiation levels of 5 × 10 ³ Gy (silicon) or higher.
I.4A.003	4A102	designed simulation integration vehicles or sound in I.9A.(I.) N.B.: See Goods C missiles Note: The applies v is suppli	ce also Military Controls for rockets or related computers. This prohibition only when the equipment fed with 'software' It in 1.7B.003 or

I.4B TECHNOLOGY, INCLUDING SOFTWARE

No	Relevant item(s) from Annex to Regulation (EC) No 1183/2007	Description
I.4B.001	ex 4E001.a	'Technology' according to the General Technology Note, for the 'development', 'production' or 'use' of equipment or 'software' specified in I.4A.001, I.4A.002 or I.4A.003.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

I.5A

GOODS

Relevant item(s) from Annex to Regulation (EC) No 1183/2007	Description
5A101	Telemetering and telecontrol equipment, including ground equipment, designed or modified for 'missiles'. Technical Notes: In 1.5A.001 'missile' means complete rocket systems and unmanned aerial vehicle systems capable of a range exceeding 300 km. Note:1.5A.001 does not prohibit: a. Equipment designed or modified for manned aircraft or satellites; b. Ground based equipment designed or modified for terrestrial or marine applications; c. Equipment designed for commercial, civil or 'Safety of Life' (e.g. data integrity, flight safety) GNSS services;
	Annex to Regulation (EC) No 1183/2007

I.5B

TECHNOLOGY, INCLUDING SOFTWARE

No	Relevant item(s) from Annex to Regulation (EC) No 1183/2007	Description
I.5B.001	5D101	'Software' specially designed or modified for the 'use' of equipment specified in I.5A.001.
I.5B.002	5E101	'Technology' according to the General Technology Note for the 'development',

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

'production' or 'use' of equipment specified in I.5A.001 or software specified in I.5B.001.

I.6 SENSORS AND LASERS U.K.

I.6A

GOODS

No	Relevant item(s) from Annex to Regulation (EC) No 1183/2007	Description
I.6A.001	ex 6A005.b*, ex 6A005.c* and ex 6A005.d* a.: ex 6A005.d.4 b.: ex 6A005.b.2-4 c.: ex 6A005.c.2	'Lasers', other than those specified in I.0A.002.g.5. or I.0A.002.h.6., components and optical equipment, as follows: ^a a. Pulsed excimer (XeF, XeCl, KrF) 'lasers' having all of the following characteristics: 1. Operating
		1. Operating at wavelengths between 240 nm and 360 nm;
		repetition rate greater than 250 Hz; and 3. An
		average output power exceeding 500 W.
		b. Copper (Cu) vapour 'lasers' having both of the following characteristics: 1. Operating at wavelengths

a The texts of points a, b and c in this entry do not correspond with those of points a, b and c of 6A005.

		between 500 nm and 600 nm; and 2. An average output power exceeding 40 W.
		c. Solid state 'tunable' alexandrite (CR: BeAl ₂ O ₄) 'lasers' having all of the following characteristics: 1. Operating at wavelengths between 720 nm
		and 800 nm; 2. A bandwidth of 0,005 nm or less;
		3. A repetition rate greater than 125 Hz; and
		4. An average output power exceeding 30 W.
I.6A.002	6A007.c	Gravity gradiometers.
I.6A.003	6A102	Radiation hardened 'detectors' specially designed or modified for protecting against nuclear effects (e.g. electromagnetic pulse (EMP), X-rays, combined blast and thermal effects) and usable for 'missiles', designed or rated to withstand radiation
a The texts of points a, b and c in this entry do not correspond with those of points a, b and c of 6A005.		

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		levels which meet or exceed a total irradiation dose of 5 × 10 ⁵ rads (silicon). Technical Notes: In 1.6A.003, a 'detector' is defined as a mechanical, electrical, optical or chemical device that automatically identifies and records, or registers a stimulus such as an environmental change in pressure or temperature, an electrical or electromagnetic signal or radiation from a radioactive material. This includes devices that sense by one time operation or failure.
I.6A.004	6A107	Gravity meters (gravimeters) and components for gravity meters and gravity gradiometers, as follows: a. Gravity meters, designed or modified for airborne or marine use, and having a static or operational accuracy of 7 × 10 ⁻⁶ m/s² (0,7 milligal) or less (better), and having a timeto-steady-state registration of two minutes or less; b. Specially designed components for gravity meters specified in I.6A.004.a. and gravity gradiometers specified in I.6A.002.
I.6A.005	6A108	Radar systems and tracking systems as follows: a. Radar and laser radar systems designed or modified for use
a The texts of points a, b and c in this entry do not correspond with those of points a, b and c of 6A005.		

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

in space launch vehicles specified in I.9A.001 or sounding rockets specified in I.9A.005; N.B.: See also Military Goods Controls for radar and laser systems for rockets or missiles. Note: I.6A.005.a. includes the following: Terrain a. contour mapping equipment; b. **Imaging** sensor equipment; Scene c. mapping and correlation (both digital and analogue) equipment; d. Doppler navigation radar equipment. Precision tracking systems, usable for 'missiles', as follows: Tracking 1. systems which use a code translator conjunction with either surface or airborne references

navigation

b.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

> satellite systems to provide real-time measurements of in-flight position and velocity; Range instrumentation radars including associated optical/ infrared trackers with all of the following capabilities: Angular resolution better than 3 milliradians; b. Range of 30 km or greater with a range resolution better than 10 m rms; Velocity c. resolution better than 3 m/ Technical Notes: In I.6A.005.b.

'missile' means

2.

The texts of points a, b and c in this entry do not correspond with those of points a, b and c of 6A005.

I.6A.006			complete rocket systems and unmanned aerial vehicle systems capable of a range exceeding 300 km.
follows: a. Mechanical rotating mirror cameras, as follows, and specially designed components therefor: 1. Framing cameras with recording rates greater than 225 000 frames per second; 2. Streak cameras with writing speeds greater than 0,5 mm per microsecond; Note: In I. 64.007.a. components of such cameras include their synchronizing electronics units and rotor	I.6A.006	6A202	having both of the following characteristics: a. Photocathode area of greater than 20 cm²; and b. Anode pulse rise time of less than 1
consisting of	I.6A.007	6A203	follows: a. Mechanical rotating mirror cameras, as follows, and specially designed components therefor: 1. Framing cameras with recording rates greater than 225 000 frames per second; 2. Streak cameras with writing speeds greater than 0,5 mm per microsecond; Note: In 1.6A.007.a. components of such cameras include their synchronizing electronics units and rotor assemblies

The texts of points a, b and c in this entry do not correspond with those of points a, b and c of 6A005.

turbines, mirrors	
and bearings.	
b. Electronic streak	
cameras, electronic	
framing cameras,	
tubes and devices,	
as follows:	
1. Electronic	
streak	
cameras	
capable of	
50 ns or	
less time	
resolution;	
2. Streak	
tubes for	
cameras	
specified	
in I.6A.007.b.1.;	
3. Electronic	
(or	
electronically	
shuttered)	
framing	
cameras	
capable of	
50 ns or	
less frame	
exposure	
time;	
4. Framing	
tubes and	
solid-state	
imaging	
devices	
for use with	
cameras	
specified	
in	
I.6A.007.b.3.,	
as follows:	
	imity
focu	
imag	
	isifier
tube	S
havi	ng
the	
	ocathode
depo	sited

a The texts of points a, b and c in this entry do not correspond with those of points a, b and c of 6A005.

1		
	b	on a transparent conductive coating to decrease photocathode sheet resistance; Gate silicon
		intensifier target (SIT) videcon tubes, where a fast system allows gating the photoelectrons
		from the photocathode before they impinge on the SIT
	C.	or Pockels cell electro- optical shuttering;
	d.	Other framing tubes and solid-state imaging devices having a

a The texts of points a, b and c in this entry do not correspond with those of points a, b and c of 6A005.

Status: Point in time view as at 10/02/2008.

		fast- image gating time of less than 50 ns specially designed for cameras specified in I.6A.007.b.3.; c. Radiation-hardened TV cameras, or lenses therefor, specially designed or rated as radiation hardened to withstand a total radiation dose greater than 50 × 10³ Gy(silicon) (5 × 10⁴ rad (silicon)) without operational degradation. Technical Notes: The term Gy(silicon) refers to the energy in Joules per kilogram absorbed by an unshielded silicon sample when exposed to ionising radiation
I.6A.008	6A205	'Lasers', 'laser' amplifiers and oscillators, other than those specified in I.0A.002.g.5., I.0A.002.h.6. and I.6A.001; as follows: a. Argon ion 'lasers' having both of the following characteristics: 1. Operating at wavelengths

between 400 nm and 515 nm; and 2. An average output power greater than 40 W; b. Tunable pulsed single-mode dye laser oscillators having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800 nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800 nm;			
400 nm and 515 nm; and 2. An average output power greater than 40 W; b. Tunable pulsed single-mode dye laser oscillators having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800 nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			between
and 515 nm; and 2. An average output power greater than 40 W; b. Tunable pulsed single-mode dye laser oscillators having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800 nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			
nm; and 2. An average output power greater than 40 W; b. Tunable pulsed single-mode dye laser oscillators having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800 nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			
2. An average output power greater than 40 W; b. Tunable pulsed single-mode dye laser oscillators having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800 nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			
average output power greater than 40 W; b. Tunable pulsed single-mode dye laser oscillators having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800 nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800		2	
output power greater than 40 W; b. Tunable pulsed single-mode dye laser oscillators having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800 nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800		4.	
power greater than 40 W; b. Tunable pulsed single-mode dye laser oscillators having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800 nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			-
greater than 40 W; b. Tunable pulsed single-mode dye laser oscillators having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800 nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800 nm and 800			•
than 40 W; b. Tunable pulsed single-mode dye laser oscillators having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800 nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800 nm and 800			-
W; b. Tunable pulsed single-mode dye laser oscillators having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800 nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800 nm and 800			
b. Tunable pulsed single-mode dye laser oscillators having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800 nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800 nm and 800			
single-mode dye laser oscillators having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800 nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800		m 11	,
laser oscillators having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800 nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800	b.		
having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800 nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			
the following characteristics: 1. Operating at wavelengths between 300 nm and 800 nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			
characteristics: 1. Operating at wavelengths between 300 nm and 800 nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			
1. Operating at wavelengths between 300 nm and 800 nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			
at wavelengths between 300 nm and 800 nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800		character	ristics:
at wavelengths between 300 nm and 800 nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800		1.	Operating
between 300 nm and 800 nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			
between 300 nm and 800 nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			wavelengths
300 nm and 800 nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			_
and 800 nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			
nm; 2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			
2. An average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			
average output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800		2	
output power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800		4 ,	
power greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			-
greater than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			
than 1 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			
3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			
repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800		2	
rate greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800		3.	
greater than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			-
than 1 kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			
kHz; and 4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			· .
4. Pulse width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			
width less than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			
than 100 ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800		4.	
ns; c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			width less
c. Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			than 100
laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			ns;
laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800	c.	Tunable	pulsed dye
oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			
all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800			
characteristics: 1. Operating at wavelengths between 300 nm and 800			
1. Operating at wavelengths between 300 nm and 800			•
at wavelengths between 300 nm and 800			
wavelengths between 300 nm and 800		1.	
between 300 nm and 800			
300 nm and 800			
and 800			
nm;			
			nm;

a The texts of points a, b and c in this entry do not correspond with those of points a, b and c of 6A005.

I	2.	An
	2.	
		average
		output
		power
		greater
		than 30
		W;
	3.	A
		repetition
		rate
		greater
		than 1
		kHz; and
	4.	Pulse
		width less
		than 100
		ns;
	Note:	-
	I.6A.008	.c. does
	not proh	ibit single
	mode os	
d.	Pulsed ca	
	dioxide '	
	having a	
	the follo	
	characte	
	1.	Operating
		at
		wavelengths
		between
		9 000 nm
		and 11
		000 nm;
	2.	A
	2.	repetition
		rate
		greater
		than 250
		Hz;
	3.	An
	3.	
		average
		output
		power
		greater
		than 500
	4	W; and
	4.	Pulse
		width of
		less than
	D 1	200 ns;
e.	Para-hyc	
	Raman s	hifters

a The texts of points a, b and c in this entry do not correspond with those of points a, b and c of 6A005.

	f.	at 16 mic output w and at a rate grea 250 Hz; Neodym (other th 'lasers', output w exceeding but not e	avelength repetition	g: A single- transverse mode output having an average output power exceeding 40 W; or A multiple- transverse mode output
				mode
1 :1 1 6 :		251007		exceeding

a The texts of points a, b and c in this entry do not correspond with those of points a, b and c of 6A005.

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		50 W; or 2. Incorporating frequency doubling to give an output wavelength of 500 nm or more but not exceeding 550 nm and having an average output power exceeding 40 W.
I.6A.009	6A225	Velocity interferometers for measuring velocities exceeding 1 km/s during time intervals of less than 10 microseconds. Note: I.6A.009 includes velocity interferometers such as VISARs (Velocity interferometer systems for any reflector) and DLIs (Doppler laser interferometers).
I.6A.010	6A226	Pressure sensors, as follows: a. Manganin gauges for pressures greater than 10 GPa; b. Quartz pressure transducers for pressures greater than 10 GPa
I.6A.011 a The texts of points a, b	ex 6B108*	Systems specially designed for radar cross section measurement usable for 'missiles' and their subsystems.

I.6B TECHNOLOGY, INCLUDING SOFTWARE

No	Relevant item(s) from Annex to Regulation (EC) No 1183/2007	Description
I.6B.001	6D102	'Software' specially designed or modified for the 'use' of goods specified in I.6A.005.
I.6B.002	6D103	'Software' which processes post-flight, recorded data, enabling determination of vehicle position throughout its flight path, specially designed or modified for 'missiles'. Technical Notes: In I.6B.002 'missile' means complete rocket systems and unmanned aerial vehicle systems capable of a range exceeding 300 km.
I.6B.003	ex 6E001	'Technology' according to the General Technology Note for the 'development' of equipment, materials or 'software' specified in I.6A.001, I.6A.002.c, I.6A.003, I.6A.004 to I.6A.010, I.6B.001 or I.6B.002.
I.6B.004	ex 6E002	'Technology' according to the General Technology Note for the 'production' of equipment or materials specified in I.6A.001, I.6A.002.c or I.6A.003 to I.6A.010.
I.6B.005	ex 6E101	'Technology' according to the General Technology Note for the 'use' of equipment or 'software' specified in I.6A.002 to I.6A.005, I.6A.011, I.6B.001 or I.6B.002.
I.6B.006	ex 6E201	'Technology' according to the General Technology Note for the 'use' of equipment

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Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

specified in I.6A.001 or I.6A.006 to I.6A.010.

NAVIGATION AND AVIONICS U.K. I.7

I.7A

GOODS

No	Relevant item(s) from Annex to Regulation (EC) No 1183/2007	Description
I.7A.001	ex 7A002* (ex 7A002.a and ex 7A002.d)	Gyros having any of the following characteristics, and specially designed components therefor: N.B.: See also I.7A.003. a. A 'drift rate' 'stability', when measured in a 1 g environment over a period of one month and with respect to a fixed calibration value, of less (better) than 0,5 degree per hour when specified to function at linear acceleration levels up to and including 100 g; or b. Specified to function at linear acceleration levels exceeding 100 g.
I.7A.002	7A101, ex 7A001.a.3	Accelerometers as follows, and specially designed components therefor: a. Linear accelerometers, designed for use in inertial navigation systems or in guidance systems of all types, usable in 'missiles', having all the following characteristics, and specially designed

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

```
components
therefor;
1.
         'bias' 'repeatability'
         of less
         (better)
         than 1 250
         micro g;
         and
2.
         A 'scale
         factor' repeatability'
         of less
         (better)
         than 1 250
         ppm;
Note: I.7A.002.a.
does not specify
accelerometers
which are specially
designed and
developed as MWD
(Measurement
While Drilling)
Sensors for use
in downhole well
service operations.
Technical Notes:
1.
         In
         I.7A.002.a.
         'missile'
         means
         complete
         rocket
         systems
         and
         unmanned
         aerial
         vehicle
         systems
         capable
         of a range
         exceeding
         300 km;
```

2.

In

the

I.7A.002.a.

measurement of 'bias' and 'scale factor' refers to a

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		one sigma standard deviation with respect to a fixed calibration over a period of one year; b. Continuous output accelerometers specified to function at acceleration levels exceeding 100 g.
I.7A.003	7A102*	All types of gyros, other than those specified in I.7A.001, usable in 'missiles', with a rated 'drift rate' 'stability' of less than 0,5° (1 sigma or rms) per hour in a 1 g environment and specially designed components therefor. Technical Note: In I.7A.003 'missile' means complete rocket systems and unmanned aerial vehicle systems capable of a range exceeding 300 km.
I.7A.004	ex 7A103 (7A103.a, ex 7A103.b and 7A103.c)	Instrumentation, navigation equipment and systems, as follows; and specially designed components therefor: Inertial or other equipment using accelerometers specified in I.7A.002 or gyros specified in I.7A.001 or I.7A.003 and systems incorporating such equipment; Integrated flight instrument systems, which include gyrostabilisers or automatic

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

pilots, designed or modified for use in 'missiles'; 'Integrated navigation systems', designed or modified for 'missiles' and capable of providing a navigational accuracy of 200 m Circle of Equal Probability (CEP) or less. Technical Notes:

a. An inertial measurement device (e.g., an attitude and heading reference system, inertial reference unit. or inertial navigation system);

b. One or
more
external
sensors
used to
update the
position
and/or
velocity,
either
periodically
or

Status: Point in time view as at 10/02/2008.

		continuously throughout the flight (e.g., satellite navigation receiver, radar altimeter, and/or Doppler radar); and c. Integration hardware and software; 2. In I.7A.004.c. 'missile' means complete rocket systems and unmanned aerial vehicle systems capable of a range exceeding 300 km.
I.7A.005	7A104	Gyro-astro compasses and other devices, which derive position or orientation by means of automatically tracking celestial bodies or satellites and specially designed components therefor.
I.7A.006	7A105	Receiving equipment for Global Navigation Satellite Systems (GNSS; e.g. GPS, GLONASS, or Galileo), having any of the following characteristics, and specially designed components therefor: a. Designed or modified for use in space launch

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

vehicles specified in I.9A.001, unmanned aerial vehicles specified in I.9A.003 or sounding rockets specified in I.9A.005; or N.B.: See also Military Goods Controls for receiving equipment for rockets or missiles. Designed or modified

- b. Designed or modified for airborne applications and having any of the following:
 - 1. Capable of providing navigation information at speeds in excess of 600 m/

2. Employing decryption, designed or modified for military or

for military or governmental services, to gain access to GNSS

secured signal/data; or

3. Being specially designed to employ anti-jam features (e.g. null steering antenna or

electronically

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		steerable antenna) to function in an environment of active or passive countermeasures. Note: 1.7A.006.b.2. and 1.7A.006.b.3. do not prohibit equipment designed for commercial, civil or 'Safety of Life' (e.g., data integrity, flight safety) GNSS services
I.7A.007	7A106	Altimeters of radar or laser radar type, designed or modified for use in space launch vehicles specified in I.9A.001 or sounding rockets specified in I.9A.005. N.B.: See also Military Goods Controls for altimeters for rockets or missiles.
I.7A.008	7A115	Passive sensors for determining bearing to specific electromagnetic source (direction finding equipment) or terrain characteristics, designed or modified for use in space launch vehicles specified in I.9A.001 or sounding rockets specified in I.9A.005. N.B.: See also Military Goods Controls for passive sensors for rockets or missiles. Note: I.7A.008 includes sensors for the following equipment: a. Terrain contour mapping equipment; b. Imaging sensor equipment (both active and passive);

		c. Passive interferometer equipment.
I.7A.009	7A116	Flight control systems and servo valves, as follows; designed or modified for use in space launch vehicles specified in I.9A.001 or sounding rockets specified in I.9A.005. N.B.: See also Military Goods Controls for flight control systems and servo valves for rockets or missiles. a. Hydraulic, mechanical, electro-optical, or electro-mechanical flight control systems (including fly-by-wire types); b. Attitude control equipment; c. Flight control servo valves designed or modified for the systems specified in I.7A.009.a. or I.7A.009.b., and designed or modified to operate in a vibration environment greater than 10 g rms between 20 Hz and 2 kHz.
I.7A.010	7A117	'Guidance sets', usable in 'missiles' capable of achieving system accuracy of 3,33 % or less of the range (e.g., a 'CEP' of 10 km or less at a range of 300 km).
I.7A.011	7B001	Test, calibration or alignment equipment specially designed for equipment specified in I.7A.001 to I.7A.010.
I.7A.012	7B002	Equipment, as follows, specially designed to characterize mirrors for ring 'laser' gyros: N.B.: See also I.7A.014.

Status: Point in time view as at 10/02/2008.

		b.	Scatterometers having a measurement accuracy of 10 ppm or less (better); Profilometers having a measurement accuracy of 0,5 nm (5 angstrom) or less (better).
I.7A.013	7B003*	for the 'pi equipmen I.7A.001 Note: I.7A a. b. c. d. e. f. g. h. i.	nt specially designed roduction' of at specified in to I.7A.010. 4.013 includes: Gyro tuning test stations; Gyro dynamic balance stations; Gyro run-in/motor test stations; Gyro evacuation and fill stations; Centrifuge fixtures for gyro bearings; Accelerometer axis align stations; (reserved) Accelerometer test stations; Inertial measurement unit (IMU) module testers; Inertial measurement unit (IMU) platform testers; Inertial measurement unit (IMU) stable element handling fixtures; Inertial measurement unit (IMU) platform testers; Inertial measurement unit (IMU) stable element handling fixtures; Inertial measurement unit (IMU) platform balance fixture.
I.7A.014	7B102	Reflecton designed mirrors, f	neters specially to characterise for 'laser' gyros, measurement

		accuracy of 50 ppm or less (better).
I.7A.015	7B103	'Production facilities' and 'production equipment' as follows: a. 'Production
		facilities' specially designed for equipment specified in I.7A.010;
		b. 'Production equipment', and other test, calibration and alignment equipment, other than that specified in I.7A.011 to I.7A.013, designed or modified to be used with equipment specified in I.7A.001 to I.7A.001.

I.7B TECHNOLOGY, INCLUDING SOFTWARE

No	Relevant item(s) from Annex to Regulation (EC) No 1183/2007	Description
I.7B.001	ex 7D101	'Software' specially designed or modified for the 'use' of equipment specified in I.7A.001 to I.7A.008, I.7A.009.a., I.7A.009.b. or I.7A.011 to I.7A.015
I.7B.002	7D102	Integration 'software' as follows: a. Integration 'software' for the equipment specified in I.7A.004.b.; b. Integration 'software' specially designed for the equipment specified in I.7A.004.a.;
		c. Integration 'software' designed

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		or modified for the equipment specified in I.7A.004.c. Note: A common form of integration 'software' employs Kalman filtering.
I.7B.003	7D103	'Software' specially designed for modelling or simulation of the 'guidance sets' specified in I.7A.010 or for their design integration with the space launch vehicles specified in I.9A.001 or sounding rockets specified in I.9A.005. Note: 'Software' specified in I.7B.003 remains prohibited when combined with specially designed hardware specified in I.4A.003.
I.7B.004	ex 7E001	'Technology' according to the General Technology Note for the 'development' of equipment or 'software' specified in I.7A.001 to I.7A.015, or in I.7B.001 to I.7B.003.
I.7B.005	ex 7E002	'Technology' according to the General Technology Note for the 'production' of equipment specified in I.7A.001 to I.7A.015.
I.7B.006	7E101	'Technology' according to the General Technology Note for the 'use' of equipment specified in I.7A.001 to I.7A.015 or I.7B.001 to I.7B.003.
I.7B.007	7E102	'Technology' for protection of avionics and electrical subsystems against electromagnetic pulse (EMP) and electromagnetic interference (EMI) hazards, from external sources, as follows: a. Design 'technology' for shielding systems;

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		b. c.	Design 'technology' for the configuration of hardened electrical circuits and subsystems; Design 'technology' for the determination of hardening criteria of I.7B.007.a. and I.7B.007.b.
I.7B.008	7E104	integratic control, propulsic manager	logy' for the on of the flight guidance, and on data into a flight ment system for tion of rocket system y.

I.9 AEROSPACE AND PROPULSION U.K.

I.9A

GOODS

No	Relevant item(s) from Annex to Regulation (EC) No 1183/2007	Description
I.9A.001	ex 9A004	Space launch vehicles N.B.: See also I.9A.005. For rockets and missiles see Military Goods Controls. Note: I.9A.001 does not prohibit payloads.
I.9A.002	9A011	Ramjet, scramjet or combined cycle engines and specially designed components therefor. N.B.: See also I.9A.012 and I.9A.016.
I.9A.003	ex 9A012.a	'Unmanned aerial vehicles' ('UAVs'), associated systems, equipment and components as follows:

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a. Having any of the	
	wing: An
1.	An autonomous flight control and navigation capability (e.g., an autopilot with an Inertial Navigation
	System);
2.	or Capability
b. Havi	of controlled- flight out of the direct vision range involving a human operator (e.g., televisual remote control); and
any	~~ o
of the	
follo	wing:
1.	Incorporating an aerosol dispensing

system/ mechanism

with a

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

greater than 20 litres; or Designed or modified to incorporate an aerosol dispensing system/ mechanism with capacity greater than 20 litres;

or

capacity

li o o m to ir aa d sy m w a c g th

2.

Capable of delivering a payload to a range of at least 300 km.

Technical Notes:

1. An aerosol consists of particulate or liquids other than fuel components, byproducts or additives, as part of the payload to be dispersedin the atmosphere. Examples of aerosols include

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		pesticides for crop dusting and dry chemicals for cloud seeding.
		2. An aerosol dispensing system/ mechanism contains all those devices (mechanica electrical, hydraulic, etc.), which are necessary for storage and dispersion of an aerosol into the atmosphere. This includes the possibility of aerosol injection into the combustion exhaust vapour and into the propeller slip stream
I.9A.004	9A101	Turbojet and turbofan engines (including turbocompound engines), as follows: a. Engines having both of the following
		characteristics: 1. Maximum thrust

		value greater than 400 N (achieved uninstalled) excluding civil certified engines with a maximum thrust value greater than 8 890 N (achieved uninstalled), and 2. Specific fuel consumption of 0,15 kg/N/hr or less (at maximum continuous power at sea level static and standard conditions); b. Engines designed or modified for use in 'missiles'.
I.9A.005	9A104	Sounding rockets, capable of a range of at least 300 km. N.B.: See also I.9A.001. For rockets and missiles see Military Goods Controls.
I.9A.006	9A105	Liquid propellant rocket engines, as follows: N.B.: See also I.9A.017. a. Liquid propellant rocket engines usable in 'missiles', having a total impulse capacity

		b.	than 1,12 Liquid procket en usable in rocket sy unmanne vehicles, of a rang km, other those spe I.9A.006 a total im	ropellant agines, complete estems or ed aerial capable e of 300 r than ecified in .a., having apulse equal to or
I.9A.007	9A106	usable in follows,	or components of missiles specially of rocket proceed for thrust combustic chambers Rocket in Thrust vecontrol si systems; Technica Example, methods achieving vector conspecified I.9A.007.1. 2. 3.	', as designed ropulsion liners t or ion s; ozzles; ector ub- l Note: s of of g thrust ontrol in

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

5. Thrust tabs.

Liquid and d. slurry propellant (including oxidisers) control systems, and specially designed components therefor, designed or modified to operate in vibration environments greater than 10 g rms between 20 Hz and 2 kHz. *Note: The only* servo valves and pumps specified in I.9A.007.d., are the following:

> a. Servo valves designed for flow rates equal to or greater than 24 litres per minute, at an absolute pressure equal to or greater than 7 MPa, that have an actuator response time of less than 100 ms;

b. Pumps,
for liquid
propellants,
with shaft
speeds
equal to
or greater
than 8
000 r.p.m.

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		or with discharge pressures equal to or greater than 7 MPa.
I.9A.008	9A107 and ex 9A007.a	Solid propellant rocket engines, usable in complete rocket systems or unmanned aerial vehicles, capable of a range of 300 km, having total impulse capacity equal to or greater than 0,841 MNs. N.B.: See also I.9A.017.
I.9A.009	9A108	Components usable in 'missiles', as follows, specially designed for solid rocket propulsion systems: a. Rocket motor cases and 'insulation' components therefor; b. Rocket nozzles; c. Thrust vector control subsystems. Technical Note: Examples of methods of achieving thrust vector control specified in 1.9A.009.c. are: 1. Flexible nozzle; 2. Fluid or secondary gas injection; 3. Movable engine or nozzle; 4. Deflection of exhaust gas stream (jet vanes or probes); or

		5. Thrust tabs.
I.9A.010	9A109	Hybrid rocket motors, usable in 'missiles', and specially designed components therefor. N.B.: See also I.9A.017. Technical Note: In I.9A.010 'missile' means complete rocket systems and unmanned aerial vehicle systems capable of a range exceeding 300 km.
I.9A.011	9A110	Composite structures, laminates and manufactures thereof, specially designed for use in space launch vehicles specified in I.9A.001 or sounding rockets specified in I.9A.005 or the subsystems specified in I.9A.006.a., I.9A.007 to I.9A.009, I.9A.014 or I.9A.017. N.B.: See also Military Goods Controls for composite structures, laminates and manufactures thereof, for rockets and missiles.
I.9A.012	ex 9A111*	Pulse jet engines, usable in 'missiles', and specially designed components therefor. N.B.: See also I.9A.002 and I.9A.016.
I.9A.013	9A115	Launch support equipment as follows: N.B.: See also Military Goods Controls for launch support equipment for rockets and missiles. a. Apparatus and devices for handling, control, activation or launching, designed or modified for space launch vehicles specified in I.9A.001, unmanned aerial

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		vehicles specified in I.9A.003 or sounding rockets specified in I.9A.005; b. Vehicles for transport, handling, control, activation or launching, designed or modified for space launch vehicles specified in I.9A.001 or sounding rockets specified in I.9A.005.
I.9A.014	9A116	Reentry vehicles, usable in 'missiles', and equipment designed or modified therefor, as follows: a. Reentry vehicles; b. Heat shields and components therefor fabricated of ceramic or ablative materials; c. Heat sinks and components therefor fabricated of light-weight, high heat capacity materials; d. Electronic equipment specially designed for reentry vehicles.
I.9A.015	9A117	Staging mechanisms, separation mechanisms, and interstages, usable in 'missiles'.
I.9A.016	ex 9A118*	Devices to regulate combustion usable in engines, which are usable in 'missiles', specified in I.9A.002 or I.9A.012.
I.9A.017	9A119	Individual rocket stages, usable in complete rocket systems or unmanned aerial vehicles, capable of a range of 300 km, other than those

		specified in I.9A.006, I.9A.008 and I.9A.010.
I.9A.018	9A120	Liquid propellant tanks specially designed for propellants specified in I.1A.029 or 'other liquid propellants', used in rocket systems capable of delivering at least a 500 kg payload to a range of at least 300 km. Note: In I.9A.018 'other liquid propellants' includes, but is not limited to, propellants specified in the Military Goods Controls
I.9A.019		(reserved)
I.9A.020	ex 9B105*	Wind tunnels for speeds of Mach 0,9 or more, usable for 'missiles' and their subsystems.
I.9A.021	9B106	Environmental chambers and anechoic chambers, as follows: a. Environmental chambers capable of simulating the following flight conditions: 1. Vibration environments equal to or greater than 10 g rms, measured 'bare table', between 20 Hz and 2 kHz imparting forces equal to or greater than 5 kN; and 2. Altitude equal to or greater than 15 km; or

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3. Temperature range of at least 223 K(-50)°C) to 398 K (+ 125 °C); Technical Notes: I.9A.021.a. 1. describes systems that are capable of generating vibration environment with a single wave (e.g., a sine wave) and systems capable of generating a broad band random vibration (i.e., power spectrum); 2. In I.9A.021.a.1. 'bare table' means a flat table, or surface with no fixture or fittings.y Environmental chambers capable of simulating the following flight conditions: Acoustic 1.

environments

at an overall

b.

		2.	sound pressure level of 140 dB or greater (referenced to $20 \mu Pa$) or with a total rated acoustic power output of 4 kW or greater; and Altitude equal to or greater than 15 km; or Temperature range of at least 223 K (-50 °C) to 398 K ($+125$ °C).
I.9A.022	ex 9B115	Specially designed 'production equips the systems, sub-s and components s I.9A.002, I.9A.004 to I.9A.010, I.9A.014 to I.9A.014 to I.9A.0	ment' for ystems pecified in 4, I.9A.006 012,
I.9A.023	ex 9B116	Specially designed 'production facilit the space launch v specified in I.9A.0 systems, sub-systems, sub-syste	ies' for ehicles 001, or ems, and fied in 4, I.9A.005 012, or 117. litary or ies' for
I.9A.024	ex 9B117*	Test benches and t for solid or liquid rockets or rocket r	propellant

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		having either of the following characteristics: The capacity to handle more than 90 kN of thrust; or Capable of simultaneously measuring the three axial thrust components.
I.9A.025	9C108	'Insulation' material in bulk form and 'interior lining', for rocket motor cases usable in 'missiles' or specially designed for 'missiles'. Technical Note: In 1.9A.025 'missile' means complete rocket systems and unmanned aerial vehicle systems capable of a range exceeding 300 km.
I.9A.026	9C110	Resin impregnated fibre prepregs and metal coated fibre preforms therefor, for composite structures, laminates and manufactures specified in I.9A.011, made either with organic matrix or metal matrix utilising fibrous or filamentary reinforcements having a 'specific tensile strength' greater than 7,62 × 10 ⁴ m and a 'specific modulus' greater than 3,18 × 10 ⁶ m. N.B.: See also I.1A.024 and I.1A.034. Note: The only resin impregnated fibre prepregs specified in entry I.9A.026 are those using resins with a glass transition temperature (T _g), after cure, exceeding 418 K (145 °C) as determined by ASTM D4065 or equivalent.

I.9B
TECHNOLOGY, INCLUDING SOFTWARE

No	Relevant item(s) from Annex to Regulation (EC) No 1183/2007	Description
I.9B.001	ex 9D001	'Software' specially designed or modified for the 'development' of equipment or 'technology' specified in I.9A.002, I.9A.009, I.9A.012, I.9A.015 or I.9A.016.
I.9B.002	9D101	'Software' specially designed or modified for the 'use' of goods specified in I.9A.020, I.9A.021, I.9A.023 or I.9A.024.
I.9B.003	9D103	'Software' specially designed for modelling, simulation or design integration of the space launch vehicles specified in I.9A.001 or sounding rockets specified in I.9A.005, or the subsystems specified in I.9A.006.a., I.9A.007, I.9A.009, I.9A.014 or I.9A.017. Note: 'Software' specified in I.9B.003 remains prohibited when combined with specially designed hardware specified in I.4A.003.
I.9B.004	ex 9D104	'Software' specially designed or modified for the 'use' of goods specified in 9A005, I.9A.002, I.9A.004, I.9A.006, I.9A.007.c., I.9A.007.d., I.9A.008, I.9A.009.c., I.9A.010, I.9A.012, I.9A.013.a., I.9A.014.d., I.9A.015 or I.9A.016.
I.9B.005	9D105	'Software' which coordinates the function of more than one subsystem, specially designed or modified for 'use' in space launch vehicles specified in I.9A.001 or sounding rockets specified in I.9A.005.

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

I.9B.006	ex 9E001	'Technology' according to the General Technology Note for the 'development' of equipment or 'software' specified in I.9A.001, I.9A.003, I.9A.021 to I.9A.024, or I.9B.002 to I.9B.005.
I.9B.007	ex 9E002	'Technology' according to the General Technology Note for the 'production' of equipment specified in I.9A.001, I.9A.003 or I.9A.021 to I.9A.024.
I.9B.008	9E101	'Technology' according to the General Technology Note for the 'development' or 'production' of goods specified in I.9A.004 to I.9A.017.
I.9B.009	ex 9E102	'Technology' according to the General Technology Note for the 'use' of space launch vehicles specified in I.9A.001, or goods specified in I.9A.002, I.9A.004 to I.9A.017, I.9A.020 to I.9A.024, I.9B.002 or I.9B.003.]

ANNEX II U.K.

Goods and technology referred to in Article 3

Notes:

- 1. Unless otherwise stated, reference numbers used in the column below entitled 'Description' refer to the descriptions of dual-use items and technology set out in Annex I to Regulation (EC) No 1334/2000.
- 2. A reference number in the column below entitled 'Related item from Annex I to Regulation (EC) No 394/2006' means that the characteristics of the item described in the column 'Description' lie outside the parameters set out in the description of the dual-use entry referred to.
- 3. Definitions of terms between 'single quotation marks' are given in a technical note to the relevant item.
- 4. Definitions of terms between 'double quotation marks' can be found in Annex I to Regulation (EC) No 394/2006.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

II.A. GOODS U.K.

A0 NUCLEAR MATERIALS, FACILITIES, AND EQUIPMENT

No	Description	Related item from Annex I to Regulation (EC) No 394/2006
II.A0.001	Hollow cathode lamps as follows: a. Iodine hollow cathode lamps with windows in pure silicon or quartz b. Uranium hollow cathode lamps	_
II.A0.002	Faraday isolators in the wavelength range 500–650 nm	_
II.A0.003	Optical gratings in the wavelength range 500–650 nm	_
II.A0.004	Optical fibres in the wavelength range 500–650 nm coated with antireflecting layers in the wavelength range 500–650 nm and having core diameter greater than 0,4 mm but not exceeding 2 mm	
II.A0.005	Nuclear reactor vessel components and testing equipment, other than those specified in 0A001, as follows: 1. Seals 2. Internal components 3. Sealing, testing and measurement equipment	0A001
II.A0.006	Nuclear detection systems for detection, identification or quantification of radioactive materials and radiation of nuclear origin and specially designed components therefor, other than those	0A001.j 1A004.c

Status: Point in time view as at 10/02/2008.

	specified in 0A001.j or 1A004c	
II.A0.007	Bellows-sealed valves made of aluminium alloy or stainless steel type 304 or 316 L. Note: This item does not control bellow valves defined in 0B001.c.6 and 2A226	0B001.c.6 2A226
II.A0.008	Plane, convex and concave mirrors, coated with high- reflecting or controlled multi- layers in the wavelength range 500 nm-650 nm	0B001.g.5
II.A0.009	Lenses, polarisers, half-wave retarder plates (λ /2 plates), quarter-wave retarder plates (λ /4 plates), laser windows in silicon or quartz and rotators, coated with anti-reflecting layers in the wavelength range 500–650 nm	0B001.g
II.A0.010	Pipes, piping, flanges, fittings made of, or lined with nickel or nickel alloy containing more than 40 % nickel by weight, other than those specified in 2B350.h.1.	2B350
II.A0.011	Vacuum pumps other than those specified in 0B002.f.2. or 2B231, as follows: — Turbomolecular pumps having a flowrate equal to or greater than 400 l/s — Roots-type vacuum roughing pumps having a volumetric aspiration flowrate greater than 200 m ³ /h	0B002.f.2 2B231
	Bellows-sealed, scroll, dry compressor, and bellows sealed, scroll, dry vacuum pumps	
II.A0.012	Shielded enclosures for the manipulation, storage and handling of radioactive substances (hot cells).	0B006

II.A0.013	'Natural uranium' or 'depleted uranium' or thorium in the form of metal, alloy, chemical compound or concentrate and any other material containing one or more of the foregoing, other than those specified in 0C001.	0C001

A1

MATERIALS, CHEMICALS, 'MICRO-ORGANISMS' AND 'TOXINS'

No	Description	Related item from Annex I to Regulation (EC) No 394/2006
II.A1.001	Bis(2-ethylhexyl) phosphoric acid (HDEHP or D2HPA) CAS 298-07-7 solvent in any quantity, with a purity greater than 90 %	
II.A1.002	Fluorine gas (Chemical Abstract Number (CAS) 7782-41-4), with a purity greater than 95 %	
II.A1.003	Seals and gaskets made of any of the following materials a. Copolymers of vinylidene fluoride having 75 % or more beta crystalline structure without stretching; b. Fluorinated polyimides containing 10 % by weight or more of combined fluorine; c. Fluorinated phosphazene elastomers containing 30 % by weight or more of combined fluorine; d. Polychlorotrifluoro (PCTFE, e.g. Kel-F ®); e. Viton fluoro- elastomers;	

Status: Point in time view as at 10/02/2008.

	f. Polytetrafluoroethyle (PTFE).	ne
II.A1.004	Personal equipment for detecting radiation of nuclear origin, including personal dosimeters Note: This item does not control nuclear detection systems defined in item 1A004.c	1A004.c
II.A1.005	Electrolytic cells for fluorine production with an output capacity greater than 100 g of fluorine per hour. Note: This item does not control electrolytic cells defined in item 1B225	1B225
II.A1.006	Platinised catalysts, other than those specified in 1A225, specially designed or prepared for promoting the hydrogen isotope exchange reaction between hydrogen and water for the recovery of tritium from heavy water or for the production of heavy water and substitutes therefor.	1B231, 1A225
II.A1.007	Aluminium and its alloys, other than those specified in 1C002.b.4 or 1C202.a, in crude or semi-fabricated form having either of the following characteristics: a. Capable of an ultimate tensile strength of 460 MPa or more at 293 K (20 °C); or b. Having a tensile strength of 415 MPa or more at 298 K (25 °C).	1C002.b.4 1C202.a
II.A1.008	Magnetic metals, of all types and of whatever form, having an initial relative permeability of 120 000 or more and a thickness between 0,05 and 0,1 mm	1C003.a

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

II.A1.009

'Fibrous or filamentary materials' or prepregs, as follows:

- a. Carbon or aramid 'fibrous or filamentary materials' having either of the following characteristics:
 - 1. 'specific modulus' exceeding 10×10^{6}
 - m; or
 - 2. Α 'specific tensile strength' exceeding 17×10^4

m;

- b. Glass 'fibrous or filamentary materials' having either of the following characteristics:
 - 1. 'specific modulus' exceeding

 3.18×10^{6}

m; or

2. A 'specific tensile strength' exceeding $76,2 \times 10^3$ m;

Thermoset resin c. impregnated continuous 'yarns', 'rovings', 'tows' or 'tapes' with a width of 15 mm or less (prepregs), made from carbon or glass 'fibrous or filamentary

1C010.a, 1C010.b, 1C210.a, 1C210.b

Status: Point in time view as at 10/02/2008.

	materials' other than those specified in II.A1.010.a. or b. Note: This item does not control fibrous or filamentary materials defined in items 1C010.a, 1C010.b, 1C210.a and 1C210.b	
II.A1.010	Resin-impregnated or pitch-impregnated fibres (prepregs), metal or carboncoated fibres (preforms) or 'carbon fibre preforms', as follows: a. made from 'fibrous or filamentary materials' specified in II.A1.009 above; b. Epoxy resin 'matrix' impregnated carbon 'fibrous or filamentary materials' (prepregs) specified in 1C010.a., 1C010.b. or 1C010.c., for the repair of aircraft structures or laminates, in which the size of individual sheets of prepreg does not exceed 50 cm × 90	1C010.e, 1C210
	c. Prepregs specified in 1C010.a., 1C010.b. or 1C010.c., when impregnated with phenolic or epoxy resins having a glass transition temperature (Tg) less than 433 K (160 °C) and a cure temperature lower than the glass transition temperature. Note: This item does not control fibrous or filamentary	

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

	materials defined in item 1C010.e	
II.A1.011	Reinforced silicon carbide ceramic composites usable for nose tips, re-entry vehicles, nozzle flaps, usable in 'missiles', other than specified in 1C107.	1C107
II.A1.012	Maraging steels, other than those specified in 1C116 or 1C216, 'capable of' an ultimate tensile strength of 2 050 MPa or more, at 293 K (20 °C). Technical Note: The phrase maraging steel 'capable of' encompasses maraging steel before or after heat treatment.	1C216
II.A1.013	Tungsten, tantalum, tungsten carbide, tantalum carbide and alloys, having both of the following characteristics: a. In forms having a hollow cylindrical or spherical symmetry (including cylinder segments) with an inside diameter between 50 mm and 300 mm; and b. A mass greater than 5 kg. Note: This item does not control tungsten, tungsten carbide and alloys defined in item 1C226	1C226

A2

MATERIALS PROCESSING

No	Description	Related item from Annex I to Regulation (EC) No 394/2006
II.A2.001	Vibration test systems, equipment and components therefor, other than those specified in 2B116:	2B116

Status: Point in time view as at 10/02/2008.

- Vibration test a. systems employing feedback or closed loop techniques and incorporating a digital controller, capable of vibrating a system at an acceleration equal to or greater than 0,1g rms between 0,1 Hz and 2 kHz and imparting forces equal to or greater than 50 kN, measured 'bare table';
- b. Digital controllers, combined with specially designed vibration test software, with a 'real-time bandwidth' greater than 5 kHz designed for use with vibration test systems specified in a.;
- c. Vibration thrusters (shaker units), with or without associated amplifiers, capable of imparting a force equal to or greater than 50 kN, measured 'bare table', and usable in vibration test systems specified in a.;
- d. Test piece support structures and electronic units designed to combine multiple shaker units in a system capable of providing an effective combined force equal to or greater than 50 kN,

	measured 'bare table', and usable in vibration systems specified in a. Technical note: 'bare table' means a flat table, or surface, with no fixture or fittings.	
II.A2.002	Machine tools for grinding having positioning accuracies with 'all compensations available' equal to or less (better) than 15 µm according to ISO 230/2 (1988) (1) or national equivalents along any linear axis. Note: This item does not control machine tools for grinding defined in items 2B201.b and 2B001.c	2B201.b, 2B001.c
II.A2.002a	Components and numerical controls, specially designed for machine tools specified in 2B001, 2B201, or in II.A2.002 above.	
II.A2.003	Balancing machines and related equipment as follows: a. Balancing machines, designed or modified for dental or other medical equipment, having all the following characteristics: 1. Not capable of balancing rotors/ assemblies having a mass greater than 3 kg; 2. Capable of balancing rotors/ assemblies at speeds greater	2B119

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

> than 12 500 rpm; Capable of 3. correcting unbalance in two planes or more; and Capable of 4. balancing to a residual specific unbalance of 0,2 g mm per kg of rotor mass; b. Indicator heads designed or modified for use with machines specified in a. above. Technical note: Indicator heads are sometimes known as balancing instrumentation. Remote manipulators that can 2B225 be used to provide remote actions in radiochemical separation operations or

II.A2.004

hot cells, other than those specified in 2B225, having either of the following characteristics:

a. A capability of penetrating 0,3 m or more of hot cell wall (through the wall operation); or

b. A capability of bridging over the top of a hot cell wall with a thickness of 0,3 m or more (over the wall operation).

Technical note:

Remote manipulators provide translation of human operator actions to a remote operating

II.A2.005	arm and terminal fixture. They may be of 'master/ slave' type or operated by joystick or keypad. Controlled atmosphere heat treatment furnaces, as follows:	2B226, 2B227
	Furnaces capable of operation at temperatures above 400 °C.	
II.A2.006	Oxidation furnaces capable of operation at temperatures above 400 °C	2B226, 2B227
II.A2.007	'Pressure transducers', other than those defined in 2B230, capable of measuring absolute pressures at any point in the range 0 to 200 kPa and having both of the following characteristics: a. Pressure sensing elements made of or protected by 'Materials resistant to corrosion by UF6', and b. Having either of the following characteristics: 1. A full scale of less than 200 kPa and an 'accuracy' of better than ± 1 % of full scale; or 2. A full scale of 200 kPa or greater and an 'accuracy' of better than ± 1 % of full scale of 200 kPa or greater and an 'accuracy' of better than 2 kPa. Technical note: For the purposes of 2B30, 'accuracy' includes non-	2B230

Status: Point in time view as at 10/02/2008.

2B350.e
2B350.e
2B350.d

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

30 m²; and tubes, plates, coils or blocks (cores) designed for such heat exchangers or condensers, where all surfaces that come in direct contact with the fluid(s) are made from any of the following materials:

- 1. Alloys with more than 25 % nickel and 20 % chromium by weight;
- 2. Fluoropolymers;
- 3. Glass (including vitrified or enamelled coatings or glass lining);
- 4. Graphite or 'carbon graphite';
- 5. Nickel or alloys with more than 40 % nickel by weight;
- 6. Tantalum or tantalum alloys;
- 7. Titanium or titanium alloys;
- 8. Zirconium or zirconium alloys;
- 9. Silicon carbide;
- 10. Titanium carbide; or
- 11. Stainless steel. Note: This item does not control vehicle radiators.

II.A2.010

Multiple-seal, and seal-less pumps, other than those specified in 2B350i, suitable for corrosive fluids, with manufacturer's specified maximum flow-rate greater than 0,6 m³/hour, or vacuum pumps with manufacturer's specified maximum flowrate greater than 5 m³/hour (measured under standard temperature (273 K (0 °C)) and pressure (101,3 kPa) conditions); and casings (pump bodies), preformed casing liners, impellers, rotors or jet pump nozzles designed for such pumps, in which all surfaces that come

2B350.i

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

	in direct contact with the chemical(s) being processed are made from any of the following materials: 1. Stainless steel, 2. Aluminium alloy.	
II.A2.011	Centrifugal separators, capable of continuous separation without the propagation of aerosols and manufactured from: 1. Alloys with more than 25 % nickel and 20 % chromium by weight; 2. Fluoropolymers; 3. Glass (including vitrified or enamelled coating or glass lining); 4. Nickel or alloys with more than 40 % nickel by weight; 5. Tantalum or tantalum alloys; 6. Titanium or titanium alloys; or 7. Zirconium or zirconium alloys. Note: This item does not control centrifugal separators defined in item 2B352.c.	2B352.c
II.A2.012	Sintered metal filters made of nickel or nickel alloy with a nickel content of 40 % or more by weight. Note: This item does not control filters defined in item 2B352.d.	2B352.d

A3

ELECTRONICS

No	Description	Related item from Annex I to Regulation (EC) No 394/2006
II.A3.001	High voltage direct current power supplies having both of the following characteristics:	3A227

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

a.	Capable of continuously producing, over a time period of eight hours, 10 kV or greater, with output power of 5 kW
	or greater with or
	without sweeping;
	and
b.	Current or voltage

b. Current or voltage stability better than 0,1 % over a time period of four hours.

Note: This item does not control power supplies defined in items 0B001.j.5 and 3A227.

II.A3.002

Mass spectrometers, other than those specified in 3A233 or 0B002g, capable of measuring ions of 200 atomic mass units or greater and having a resolution of better than 2 parts in 200, as follows, and ion sources therefor:

- a. Inductively coupled plasma mass spectrometers (ICP/MS);
- b. Glow discharge mass spectrometers (GDMS);
- c. Thermal ionisation mass spectrometers (TIMS);
- d. Electron
 bombardment
 mass spectrometers
 which have a
 source chamber
 constructed
 from, lined with
 or plated with
 'Materials resistant
 to corrosion by
 UF₆';
- e. Molecular beam mass spectrometers having either of

3A233

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

	the following characteristics: 1. A source chamber constructed from, lined with or plated with stainless steel or molybdenum and equipped with a cold trap capable of cooling to 193 K (–80 °C) or less; or 2. A source chamber constructed from, lined with or plated with 'Materials resistant to corrosion by LIE.':
f.	by UF ₆ '; Mass spectrometers equipped with a microfluorination ion source designed for actinides or actinide fluorides.

A6

SENSORS AND LASERS

No	Description	Related item from Annex I to Regulation (EC) No 394/2006
II.A6.001	Yttrium aluminium garnet (YAG) rods	
II.A6.002	Infrared optics in the wavelength range 9–17 µm and components therefor,	6A003

	including cadmium telluride (CdTe) components. Note: This item does not control cameras and components defined in item 6A003	
II.A6.003	Wave front corrector systems for use with a laser beam having a diameter exceeding 4 mm, and specially designed components therefor, including control systems, phase front sensors and 'deformable mirrors' including bimorph mirrors. Note: This item does not control mirrors defined in 6A004.a, 6A005.e and 6A005.f	6A004.a, 6A005.e, 6A005.f
II.A6.004	Argon ion 'lasers' having an average output power equal to or greater than 5 W Note: This item does not control argon ion 'lasers' defined in items 0B001.g.5., 6A005 and 6A205.a	6A005.a.6, 6A205.a
II.A6.005	Semiconductor 'lasers' and components therefor, as follows: a. Individual semiconductor 'lasers' with an output power greater than 200 mW each, in quantities larger than 100; b. Semiconductor 'laser' arrays having an output power greater than 20 W. Notes: 1. Semiconductor 'lasers' are commonly called 'laser' diodes. 2. This item does not control 'lasers' defined in items	6A005.b

Status: Point in time view as at 10/02/2008.

	0B001.g.5, 0B001.h.6 and 6A005b. 3. This item does not control 'laser' diodes with a wavelength in the range 1 200–2 000 nm.	
II.A6.006	Tunable semiconductor 'lasers' and tunable semiconductor 'laser' arrays, of a wavelength between 9 µm and 17 µm, as well as array stacks of semiconductor 'lasers' containing at least one tunable semiconductor 'laser array' of such wavelength. Notes: 1. Semiconductor 'lasers' are commonly called 'laser' diodes. 2. This item does not control semiconductor 'lasers' defined in items 0B001.h.6 and 6A005.b.	6A005.b
II.A6.007	Solid state 'tunable' 'lasers' as follows, and specially designed components therefor: a. Titanium-sapphire lasers; b. Alexandrite lasers. Note: This item does not control titanium-sapphire and alexandrite lasers defined in items 0B001.g.5, 0B001.h.6 and 6A005.c.1	6A005.c.1
II.A6.008	Neodymium-doped (other than glass) 'lasers', having an output wavelength exceeding 1 000 nm but not exceeding 1 100 nm and output energy exceeding 10 J per pulse.	6A005.c.2

	Note: This item does not control neodymium-doped (other than glass) 'lasers' defined in item 6A005.c.2.b	
II.A6.009	Components of acousto- optics, as follows: a. Framing tubes and solid-state imaging devices having a recurrence frequency equal to or exceeding 1kHz; b. Recurrence frequency supplies; c. Pockels cells.	6A203.b.4.c
II.A6.010	Radiation-hardened cameras, or lenses therefor, other than those specified in 6A203c, specially designed or rated as radiation hardened to withstand a total radiation dose greater than 50×10^3 Gy(silicon) (5×10^6 rad (silicon)) without operational degradation. Technical note: The term Gy(silicon) refers to the energy in Joules per kilogram absorbed by an unshielded silicon sample when exposed to ionising radiation.	6A203.c
II.A6.011	Tunable pulsed dye laser amplifiers and oscillators, having all of the following characteristics: 1. Operating at wavelengths between 300 nm and 800 nm; 2. An average output power greater than 10 W but not exceeding 30 W; 3. A repetition rate greater than 1 kHz; and 4. Pulse width less than 100 ns. Notes:	6A205.c

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

	1. This item does not control single mode oscillators.	
	2. This item does not control tunable pulsed dye laser amplifiers and oscillators defined in item 6A205.c, 0B001.g.5 and 6A005	
II.A6.012	Pulsed carbon dioxide 'lasers' having all of the following characteristics: 1. Operating at	6A205.d

A7

NAVIGATION AND AVIONICS

No	Description	Related item from Annex I to Regulation (EC) No 394/2006
II.A7.001	Inertial systems and specially designed components, as follows: I. Inertial navigation systems which are certified for use on 'civil aircraft' by civil authorities of a State participating	7A003, 7A103

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

in the Wassenaar Arrangement, and specially designed components, as follows:

a. Inertial navigation systems (INS) (gimballed strapdown) and inertial equipment designed for 'aircraft', land vehicle, vessels (surface or underwater or

for attitude, guidance or control, having any of the following characteristics, and specially designed

'spacecraft'

components therefor:

1. Navigation error (free inertial) subsequent to normal alignment of 0,8 nautical mile per hour

(nm/

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

hr)

```
'Circular
                  Error
                  Probable' (CEP)
                  or
                  less
                  (better);
                  or
         2.
                  Specified
                  to
                  function
                  at
                  linear
                  acceleration
                  levels
                  exceeding
                  10
                  g;
b.
         Hybrid
         inertial
         navigation
         systems
         embedded
         with
         Global
         Navigation
         Satellite
         Systems(s)
         (GNSS)
         or with
         'Data-
         Based
         Referenced
         Navigation ('DBRN')
         System(s)
         for
         attitude,
         guidance
         or control,
         subsequent
         to normal
         alignment,
         having
         an INS
         navigation
         position
         accuracy,
         after
         loss of
         GNSS or
         'DBRN'
         for a
         period of
```

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

```
up to four
         minutes,
         of less
         (better)
         than 10
         metres
         'Circular
         Error
         Probable' (CEP);
         Inertial
c.
         Equipment
         for
         Azimuth,
         Heading,
         or North
         Pointing
         having
         any of the
         following
         characteristics,
         and
         specially
         designed
         components
         therefor:
         1.
                  Designed
                  to
                  have
                  an
                  Azimuth,
                  Heading,
                  or
                  North
                  Pointing
                  accuracy
                  equal
                  to,
                  or
                  less
                  (better)
                  than
                  6
                  arc
                  minutes
                  RMS
                  at
                  45
                  degrees
                  latitude;
                  or
         2.
                  Designed
                  to
```

have

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

a

```
non-
                   operating
                   shock
                   level
                   of
                   900
                   g
                   or
                  greater
                   at
                   a
                   duration
                   of
                   1
                   msec,
                   or
                   greater.
Note: The
parameters of
I.a. and I.b. are
applicable with any
of the following
environmental
conditions:
1.
         Input
         random
         vibration
         with an
         overall
         magnitude
         of 7,7 g
         rms in the
         first half
         hour and
         a total test
         duration
         of one and
         one half
         hour per
         axis in
         each of
         the three
         perpendicular
         axes,
         when the
         random
         vibration
         meets the
         following:
         a.
                   constant
                  power
```

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

```
spectral
         density
         (PSD)
         value
         of
         0,04
         Hz
         over
         a
         frequency
         interval
         of
         15
         to
         1
         000
         Hz;
         and
b.
         The
         P$D
         attenuates
         with
         frequency
         from
         0,04
         Hz
         to
         0,01
         Hz
         over
         frequency
         interval
         from
         1
         000
         to
         2
         000
         Hz;
A roll
and yaw
rate of
equal to or
more than
+2,62
radian/s
(150 \text{ deg/}
s); or
```

2.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

3. According to national standards equivalent to 1. or 2. above.

Technical notes:

1. I.b. refers to systems in which an INS and other independent navigation aids are built into a single unit (embedded) in order to achieve improved performance.

2. 'Circular

Error

Probable' (CEP) —

In a circular normal distribution the radius of the

circle containing

50 % of the

individual measurements

or the radius of the circle within which

being made,

there is a 50 % probability of being located.

II. Theodolite systems incorporating

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

inertial equipment specially designed for civil surveying purposes and designed to have an Azimuth, Heading, or North Pointing accuracy equal to, or less (better) than 6 arc minutes RMS at 45 degrees latitude, and specially designed components therefor. III. Inertial or other equipment using accelerometers specified in 7A001 or 7A101, where such accelerometers are specially designed and developed as MWD (Measurement While Drilling) sensors for use in downhole well services operations.

II.B. TECHNOLOGY U.K.

No	Description	Related item from Annex I to Regulation (EC) No 394/2006
II.B.001	Technology required for the development, production or use of the items in Part A (Goods) above.	

[F3ANNEX III] U.K.

Websites for information on the competent authorities referred to in Articles 3(4), 3(5), 5(3), 6, 8, 9, 10(1), 10(2), 13(1) and 17, and address for notifications to the European Commission BELGIUM

http://www.diplomatie.be/eusanctions BULGARIA

http://www.mfa.government.bg

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

CZECH REPUBLIC

http://www.mfcr.cz/mezinarodnisankce

DENMARK

http://www.um.dk/da/menu/Udenrigspolitik/FredSikkerhedOgInternationalRetsorden/Sanktioner/

GERMANY

http://www.bmwi.de/BMWi/Navigation/Aussenwirtschaft/Aussenwirtschaftsrecht/embargos.html

ESTONIA

http://www.vm.ee/est/kat 622/

GREECE

http://www.ypex.gov.gr/www.mfa.gr/en-US/Policy/Multilateral+Diplomacy/International+Sanctions/

SPAIN

www.mae.es/es/Menuppal/Asuntos/Sanciones+Internacionales

FRANCE

http://www.diplomatie.gouv.fr/autorites-sanctions/

IRELAND

http://www.dfa.ie/un_eu_restrictive_measures_ireland/competent_authorities ITALY

http://www.esteri.it/UE/deroghe.html

CÝPRUS

http://www.mfa.gov.cy/sanctions

LATVIA

http://www.mfa.gov.lv/en/security/4539

LITHUANIA

http://www.urm.lt LUXEMBOURG

http://www.mae.lu/sanctions

HÜNGARY

http://www.kulugyminiszterium.hu/kum/hu/bal/Kulpolitikank/nemzetkozi_szankciok/MALTA

http://www.doi.gov.mt/EN/bodies/boards/sanctions_monitoring.asp NETHERLANDS

http://www.minbuza.nl/sancties

AÚSTRIA

http://www.bmeia.gv.at/view.php3?f_id=12750&LNG=en&version=POLAND

http://www.msz.gov.pl

PORTUGAL

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

http://www.min-nestrangeiros.pt

ROMANIA

http://www.mae.ro/index.php?unde=doc&id=32311&idlnk=1&cat=3 SLOVENIA

http://www.mzz.gov.si/si/zunanja_politika/mednarodna_varnost/omejevalni_ukrepi/SLOVAKIA

http://www.foreign.gov.sk

FINLAND

http://formin.finland.fi/kvyhteistyo/pakotteet

SWEDEN

http://www.ud.se/sanktioner

UNITED KINGDOM

http://www.fco.gov.uk/competentauthorities

Address for notifications to the European Commission:

European Commission

DG External Relations

Directorate A Crisis Platform — Policy Coordination in Common Foreign and Security Policy

Unit A2 Crisis Response and Peace Building

CHAR 12/106

B-1049 Bruxelles/Brussel (Belgium)

E-mail: relex-sanctions@ec.europa.eu

Tel. (32-2) 295 55 85

Fax: (32-2) 299 08 73]

[F4ANNEX IV U.K.

Textual Amendments

F4 Substituted by Commission Regulation (EC) No 441/2007 of 20 April 2007 amending Council Regulation (EC) No 423/2007 concerning restrictive measures against Iran.

A.Natural persons

- (1) Fereidoun **Abbasi-Davani**. Other information: Senior Ministry of Defence and Armed Forces Logistics (MODAFL) scientist with links to the Institute of Applied Physics. Working closely with Mohsen Fakhrizadeh-Mahabadi.
- (2) Dawood **Agha-Jani**. Function: Head of the PFEP Natanz. Other information: Person involved in Iran's nuclear programme.

- (3) Ali Akbar **Ahmadian**. Title: Vice Admiral. Function: Chief of Iranian Revolutionary Guard Corps (IRGC) Joint Staff.
- (4) Behman **Asgarpour**. Function: Operational Manager (Arak). Other information: Person involved in Iran's nuclear programme.
- (5) Bahmanyar Morteza **Bahmanyar**. Function: Head of Finance & Budget Dept, Aerospace Industries Organisation (AIO). Other information: Person involved in Iran's ballistic missile programme.
- (6) Ahmad Vahid **Dastjerdi**. Function: Head of the Aerospace Industries Organisation (AIO). Other information: Person involved in Iran's ballistic missile programme.
- (7) Ahmad **Derakhshandeh**. Function: Chairman and Managing Director of Bank Sepah.
- (8) Reza-Gholi **Esmaeli**. Function: Head of Trade & International Affairs Dept, Aerospace Industries Organisation (AIO). Other information: Person involved in Iran's ballistic missile programme.
- (9) Mohsen **Fakhrizadeh-Mahabadi**. Other information: Senior MODAFL scientist and former head of the Physics Research Centre (PHRC).
- (10) Mohammad **Hejazi**. Title: Brigadier General. Function: Commander of Bassij resistance force.
- (11) Mohsen **Hojati**. Function: Head of Fajr Industrial Group.
- (12) Mehrdada Akhlaghi **Ketabachi**. Function: Head of Shahid Bagheri Industrial Group (SBIG).
- (13) Ali Hajinia **Leilabadi**. Function: Director General of Mesbah Energy Company. Other information: Person involved in Iran's nuclear programme.
- (14) Naser **Maleki**. Function: Head of Shahid Hemmat Industrial Group (SHIG). Other information: Naser Maleki is also a MODAFL official overseeing work on the Shahab-3 ballistic missile programme. The Shahab-3 is Iran's long range ballistic missile currently in service.
- (15) Jafar **Mohammadi**. Function: Technical Adviser to the Atomic Energy Organisation of Iran (AEOI) (in charge of managing the production of valves for centrifuges). Other information: Person involved in Iran's nuclear programme.
- (16) Ehsan **Monajemi**. Function: Construction Project Manager, Natanz. Other information: Person involved in Iran's nuclear programme.
- (17) Mohammad Mehdi Nejad **Nouri**. Title: Lt Gen. Function: Rector of Malek Ashtar University of Defence Technology. Other information: The chemistry department of Ashtar University of Defence Technology is affiliated to MODAFL and has conducted experiments on beryllium. Person involved in Iran's nuclear programme.
- (18) Mohammad **Qannadi**. Function: AEOI Vice President for Research & Development. Other information: Person involved in Iran's nuclear programme.
- (19) Amir **Rahimi**. Function: Head of Esfahan Nuclear Fuel Research and Production Center. Other information: Esfahan Nuclear Fuel Research and Production Center is part of the AEOI's Nuclear Fuel Production and Procurement Company, which is involved in enrichment-related activities.

- (20) Morteza **Rezaie**. Title: Brigadier General. Function: Deputy Commander of IRGC.
- (21) Morteza **Safari**. Title: Rear Admiral. Function: Commander of IRGC Navy.
- (22) Yahya Rahim **Safavi**. Title: Maj Gen. Function: Commander, IRGC (Pasdaran). Other information: Person involved in both Iran's nuclear and ballistic missile programmes.
- (23) Seyed Jaber **Safdari**. Other information: Manager of the Natanz Enrichment Facilities.
- (24) Hosein **Salimi**. Title: General. Function: Commander of the Air Force, IRGC (Pasdaran). Other information: Person involved in Iran's ballistic missile programme.
- (25) Qasem **Soleimani**. Title: Brigadier General. Function: Commander of Qods force.
- (26) Mohammad Reza **Zahedi**. Title: Brigadier General. Function: Commander of IRGC Ground Forces.
- (27) General **Zolqadr**. Function: Deputy Interior Minister for Security Affairs, IRGC officer.
- B. Entities U.K.
- (1) Ammunition and Metallurgy Industries Group (*alias* (a) AMIG, (b) Ammunition Industries Group). Other information: (a) AMIG controls 7th of Tir, (b) AMIG is owned and controlled by the Defence Industries Organisation (DIO).
- (2) Atomic Energy Organisation of Iran (AEOI). Other information: Involved in Iran's nuclear programme.
- (3) Bank Sepah and Bank Sepah International. Other information: Bank Sepah provides support for the Aerospace Industries Organisation (AIO) and subordinates, including Shahid Hemmat Industrial Group (SHIG) and Shahid Bagheri Industrial Group (SBIG).
- (4) Cruise Missile Industry Group (*alias* Naval Defence Missile Industry Group).
- (5) Defence Industries Organisation (DIO). Other information: (a) Overarching MODAFL-controlled entity, some of whose subordinates have been involved in the centrifuge programme making components, and in the missile programme, (b) Involved in Iran's nuclear programme.
- (6) Esfahan Nuclear Fuel Research and Production Centre (NFRPC) and Esfahan Nuclear Technology Centre (ENTC). Other information: They are parts of the Atomic Energy Organisation of Iran's (AEOI) Nuclear Fuel Production and Procurement Company.
- (7) Fajr Industrial Group. Other information: (a) Formerly Instrumentation Factory Plant, (b) Subordinate entity of AIO, (c) Involved in Iran's ballistic missile programme.
- (8) Farayand Technique. Other information: (a) Involved in Iran's nuclear programme (centrifuge programme), (b) Identified in IAEA reports.
- (9) Kala-Electric (*alias* Kalaye Electric). Other information: (a) Provider for PFEP Natanz, (b) Involved in Iran's nuclear programme.
- (10) Karaj Nuclear Research Centre. Other information: Part of AEOI's research division.
- (11) Kavoshyar Company. Other information: Subsidiary company of AEOI.

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

- (12) Mesbah Energy Company. Other information: (a) Provider for A40 research reactor Arak, (b) Involved in Iran's nuclear programme.
- (13) Novin Energy Company (*alias* Pars Novin). Other information: It operates within AEOI.
- (14) Parchin Chemical Industries. Other information: Branch of DIO.
- (15) Pars Aviation Services Company. Other information: maintains aircraft.
- Pars Trash Company. Other information: (a) Involved in Iran's nuclear programme (centrifuge programme), (b) Identified in IAEA reports.
- Qods Aeronautics Industries. Other information: It produces unmanned aerial vehicles (UAVs), parachutes, para-gliders, para-motors, etc.
- (18) Sanam Industrial Group. Other information: subordinate to AIO.
- (19) 7th of Tir. Other information: (a) Subordinate of DIO, widely recognized as being directly involved in Iran's nuclear programme, (b) Involved in Iran's nuclear programme.
- (20) Shahid Bagheri Industrial Group (SBIG). Other information: (a) Subordinate entity of AIO, (b) Involved in Iran's ballistic missile programme.
- (21) Shahid Hemmat Industrial Group (SHIG). Other information: (a) subordinate entity of AIO, (b) Involved in Iran's ballistic missile programme.
- (22) Sho'a' Aviation. Other information: It produces micro-lights.
- (23) Ya Mahdi Industries Group. Other information: subordinate to AIO.]

ANNEX V U.K.

List of persons, entities and bodies referred to in Article 7(2)

[F5A. Legal persons, entities and bodies U.K.

	Name	Identifying information	Reasons
1.	Aerospace Industries Organisation (AIO)	AIO, 28 Shian 5, Lavizan, Tehran	The AIO oversees Iran's production of missiles, including the Shahid Hemmat Industrial Group, the Shahid Bagheri Industrial Group and the Fajr Industrial Group and the Fajr Industrial Group, which were all designated under UNSCR 1737 (2006). The head of the AIO and two other senior officials were also

Status: Point in time view as at 10/02/2008. Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

			designated under UNSCR 1737 (2006).
2.	Armament Industries	Pasdaran Av., PO Box 19585/777, Tehran	A subsidiary of the DIO (Defence Industries Organisation).
3.	Defence Technology and Science Research Centre (DTSRC) — also known as the Educational Research Institute/ Moassese Amozeh Va Tahgiaghati (ERI/ MAVT Co.)	Pasdaran Av., PO Box 19585/777, Tehran	Responsible for R&D. A subsidiary of the DIO. The DTSRC handles much of the procurement for the DIO.
4.	Jaber Ibn Hayan	AEOI JIHRD, PO Box 11365-8486, Tehran; 84, 20th Av., Entehaye Karegar Shomali Street, Tehran	Jaber Ibn Hayan is an AEOI (Atomic Energy Organisation of Iran) laboratory involved in fuel cycle activities. Located within the Tehran Nuclear Research Centre (TNRC), it was not declared by Iran under its safeguards agreement prior to 2003, although conversion work was being carried out there.
5.	Marine Industries	Pasdaran Av., PO Box 19585/777, Tehran	A subsidiary of the DIO.
6.	Nuclear Fuel Production and Procurement Company (NFPC)	AEOI-NFPD, PO Box 11365-8486, Tehran, Iran	The Nuclear Fuel Production Division (NFPD) of the AEOI is involved in research and development in the field of the nuclear fuel cycle, including uranium exploration, mining, milling and conversion and nuclear waste management. The NFPC is the successor to the

Status: Point in time view as at 10/02/2008.

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

			NFPD, the subsidiary company under the AEOI that runs research and development in the nuclear fuel cycle, including conversion and enrichment.
7.	Special Industries Group	Pasdaran Av., PO Box 19585/777, Tehran	A subsidiary of the DIO.
8.	TAMAS Company		TAMAS is involved in enrichment-related activities, which Iran is required by the IAEA Board and the Security Council to suspend. TAMAS is the overarching body, under which four subsidiaries have been established, including one doing uranium extraction to concentration and another in charge of uranium processing, enrichment and waste.

Textual Amendments

Inserted by Council Decision of 23 April 2007 implementing Article 7(2) of Regulation (EC) No 423/2007 concerning restrictive measures against Iran (2007/242/EC).

B. Natural persons U.K.

	Name	Identifying information	Reasons
1.	Reza AGHAZADEH	Date of birth: 15.3.1949. Passport number: S4409483, valid 26.4.200027.4.2010. Issued: Tehran. Place of birth: Khoy.	Head of the Atomic Energy Organisation of Iran (AEOI). The AEOI oversees Iran's nuclear programme and is designated under UNSCR 1737 (2006).
2.	Amir Moayyed ALAI		Involved in managing the assembly and engineering of

Status: Point in time view as at 10/02/2008.

		centrifuges. Iran is required by the IAEA Board and the Security Council to suspend all enrichment-related activities. This includes all centrifuge-related work. On 27 August 2006 Alai received a special award from President Ahmadinejad for his role in managing the assembly and engineering of centrifuges.
3.	Mohammed Fedai ASHIANI	Involved in the production of ammonium uranyl carbonate (AUC) and the management of the Natanz enrichment complex. Iran is required to suspend all enrichment-related activities. On 27 August 2006 Ashiani received a special award from President Ahmadinejad for his role in the AUC production process and for his role in the management of and engineering design for the enrichment complex at the Natanz (Kashan) site.
4.	Haleh BAKHTIAR	Involved in the production of magnesium at a concentration of 99,9 %. On 27 August 2006 Bakhtiar received a special award from President Ahmadinejad for her role in producing magnesium at a

Status: Point in time view as at 10/02/2008.

			concentration of 99,9 %. Magnesium of this purity is used to produce uranium metal, which can be cast into material for a nuclear weapon. Iran has refused to provide the IAEA with access to a document on the production of uranium metal hemispheres, only applicable for nuclear weapons use.
5.	Morteza BEHZAD		Involved in making centrifuge components. Iran is required to suspend all enrichment-related activities. This includes all centrifuge-related work. On 27 August 2006 Behzad received a special award from President Ahmadinejad for his role in making complex and sensitive centrifuge components.
6.	Dr Hoseyn (Hossein) FAQIHIAN	Address of the NFPC: AEOI-NFPD, PO Box 11365-8486, Tehran, Iran.	Deputy and Director General of the Nuclear Fuel Production and Procurement Company (NFPC), part of the AEOI. The AEOI oversees Iran's nuclear programme and is designated under UNSCR 1737 (2006). The NFPC is involved in enrichment-related activities, which Iran is required by the IAEA Board and the

Storage Facility, where containers used to store depleted uranium targets used in those experiments are located. The AEOI oversees Iran's

Status: Point in time view as at 10/02/2008. Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

			Security Council to suspend.
7.	Seyyed Hussein (Hossein) HUSSEINI (HOSSEIN	NI)	An AEOI official involved in the heavy water research reactor (IR40) project at Arak. UNSCR 1737 (2006) required Iran to suspend all work on heavy water related projects.
8.	Javad KARIMI SABET		Head of the Novin Energy Company. In August 2006 Karimi Sabet received an award from President Ahmadinejad for his role in designing, producing, installing and using nuclear equipment at the Natanz site.
9.	Said Esmail KHALILIPOUR		Deputy Head of the AEOI. The AEOI oversees Iran's nuclear programme and is designated under UNSCR 1737 (2006).
10.	Ali Reza KHANCHI	Address of the NRC: AEOI-NRC, PO Box 11365-8486, Tehran, Iran; Fax (+9821) 8021412.	Head of the AEOI's Tehran Nuclear Research Centre. The IAEA is continuing to seek clarification from Iran about plutonium separation experiments carried out at the TNRC, including about the presence of HEU particles in environmental samples taken at the Karaj Waste

Status: Point in time view as at 10/02/2008.

		nuclear programme and is designated under UNSCR 1737 (2006).
11.	Hamid-Reza MOHAJERANI	Involved in production management at the Uranium Conversion Facility (UCF) at Esfahan. On 27 August 2006 Mohajerani received a special award from President Ahmadinejad for his role in production management at the UCF and in planning, building and installing the UF6 unit (UF6 is the feed material for enrichment).
12.	Houshang NOBARI	Involved in the management of the Natanz enrichment complex. Iran is required by the IAEA Board and the Security Council to suspend all enrichment-related activities. These include activities at the enrichment complex at Natanz (Kashan). On 27 August 2006 Nobari received a special award from President Ahmadinejad for his role in the successful management and execution of the Natanz (Kashan) site plan.
13.	Dr Javad RAHIQI	Head of the AEOI's Esfahan Nuclear Technology Centre. This oversees the uranium conversion

		plant at Esfahan. Iran is required by the IAEA Board and the Security Council to suspend all enrichment- related activities. This includes all uranium conversion work. The AEOI oversees Iran's nuclear programme and is designated under UNSCR 1737 (2006).
14.	Abbas RASHIDI	Involved in enrichment work at Natanz. Iran is required by the IAEA Board and the Security Council to suspend all enrichment-related activities. On 27 August 2006 Rashidi received a special award from President Ahmadinejad for his management and notable role in the successful operation of the 164-centrifuge enrichment cascade at Natanz.
15.	Abdollah SOLAT SANA	Managing Director of the Uranium Conversion Facility (UCF) in Esfahan. This is the facility that produces the feed material (UF6) for the enrichment facilities at Natanz. On 27 August 2006 Solat Sana received a special award from President Ahmadinejad for his role.]

Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed). (See end of Document for details)

- (1) OJ L 61, 28.2.2007, p. 49.
- (2) OJ L 159, 30.6.2000, p. 1. Regulation as last amended by Regulation (EC) No 394/2006 (OJ L 74, 13.3.2006, p. 1).
- (**3**) [F1OJ L 88, 29.3.2007, p. 58.]
- (4) OJ L 82, 22.3.1997, p. 1. Regulation as last amended by Regulation (EC) No 807/2003 (OJ L 122, 16.5.2003, p. 36).
- (5) [F3OJ L 278, 22.10.2007, p. 1.
- (6) OJ L 88, 29.3.2007, p. 58.
- (7) OJ L 61, 28.2.2007, p. 49. Common Position as last amended by Common Position 2007/246/CFSP (OJ L 106, 24.4.2007, p. 67).]

Textual Amendments

- **F1** Inserted by Council Regulation (EC) No 618/2007 of 5 June 2007 amending Regulation (EC) No 423/2007 concerning restrictive measures against Iran.
- F3 Substituted by Commission Regulation (EC) No 116/2008 of 28 January 2008 amending Council Regulation (EC) No 423/2007 concerning restrictive measures against Iran.

Status:

Point in time view as at 10/02/2008.

Changes to legislation:

There are currently no known outstanding effects for the Council Regulation (EC) No 423/2007 (repealed).