# Council Regulation (EC) No 423/2007 of 19 April 2007 concerning restrictive measures against Iran (repealed)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concerning restrictive measures against Iran (repealed)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<sup>(1)</sup>,

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<sup>(2)</sup>, 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

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[F1;]
- (l) [F2'contract or transaction' means any transaction of whatever form and whatever the applicable law, whether comprising one or more contracts or similar obligations made between the same or different parties; for this purpose 'contract' includes a bond, guarantee or indemnity, particularly a financial guarantee or financial indemnity, and credit, whether legally independent or not, as well as any related provision arising under, or in connection with, the transaction;
- (m) 'claim' means any claim for indemnity or any other claim of this type, such as a claim for compensation or a claim under a guarantee, notably any claim for extension or payment of a bond, guarantee or indemnity, particularly a financial guarantee or financial indemnity, of whatever form;
- (n) 'person, entity or body in Iran' means:
  - (i) the State of Iran or any public authority thereof;
  - (ii) any natural person in, or resident in, Iran;
  - (iii) any legal person, entity or body having its registered office in Iran;
  - (iv) any legal person, entity or body controlled directly or indirectly by one or more of the above mentioned persons or bodies.]

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 Substituted by Council Regulation (EC) No 1110/2008 of 10 November 2008 amending Regulation (EC) No 423/2007 concerning restrictive measures against Iran.
- **F2** Inserted by Council Regulation (EC) No 1110/2008 of 10 November 2008 amending Regulation (EC) No 423/2007 concerning restrictive measures against Iran.

#### Article 2

# [F31.] 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;
  - (iii) [F<sup>2</sup>certain other goods and technology that 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 IAEA has expressed concerns or identified as outstanding. These goods and technology are listed in Annex IA;]
- b to participate, knowingly and intentionally, in activities the object or effect of which is to circumvent the prohibition referred to in point (a).
- [F32 Annex I shall not include goods and technology included in the Common Military List of the European Union<sup>(3)</sup>.]

## **Textual Amendments**

- F2 Inserted by Council Regulation (EC) No 1110/2008 of 10 November 2008 amending Regulation (EC) No 423/2007 concerning restrictive measures against Iran.
- **F3** 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

- 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.
- [<sup>F4</sup>1a For all exports for which an authorisation is required under this Regulation, such authorisation shall be granted by the competent authorities of the Member State where the exporter is established and shall be in accordance with the detailed rules laid down in Article 11 of Regulation (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control

Status: Point in time view as at 19/06/2010.

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 exports, transfer, brokering and transit of dual-use items<sup>(4)</sup>. The authorisation shall be valid throughout the Union.]

- 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.
- 5 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<sup>(5)</sup>.
- 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.

#### **Textual Amendments**

**F4** Substituted by Council Regulation (EU) No 1228/2009 of 15 December 2009 amending Regulation (EC) No 423/2007 concerning restrictive measures against Iran.

#### Article 4

[F1 It shall be prohibited to purchase, import or transport the goods and technology listed in Annexes I and IA 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)

#### **Textual Amendments**

F1 Substituted by Council Regulation (EC) No 1110/2008 of 10 November 2008 amending Regulation (EC) No 423/2007 concerning restrictive measures against Iran.

# **I**<sup>F2</sup>Article 4a

In order to prevent the transfer of goods and technology that are listed in Annexes I and IA, cargo aircraft and merchant vessels owned or operated by Iran Air Cargo and Islamic Republic of Iran Shipping Line shall be required to submit pre-arrival or pre-departure information, for all goods brought into or out of the Community, to the competent customs authorities of the Member State concerned.

The rules governing the obligation to provide pre-arrival and pre-departure information, in particular time limits to be respected and data to be required, shall be as laid down in the applicable provisions concerning entry and exit summary declarations as well as customs declarations in Regulation (EC) No 648/2005 of the European Parliament and of the Council of 13 April 2005 amending Council Regulation (EEC) No 2913/92 establishing the Community Customs Code<sup>(6)</sup> and in Commission Regulation (EC) No 1875/2006 of 18 December 2006 amending Regulation (EEC) No 2454/93 laying down provisions for the implementation of Regulation (EEC) No 2913/92<sup>(7)</sup>.

In addition, Iran Air Cargo and Islamic Republic of Iran Shipping Line and or their representatives shall declare whether the goods are covered by Regulation (EC) No 1334/2000 or by this Regulation and, if their export is subject to authorisation, specify the particulars of the export licence granted.

[F5Until 31 December 2010, the entry and exit summary declarations and the required additional elements referred to in this Article may be submitted in written form using commercial, port or transport information, provided that they contain the necessary particulars.

As from 1 January 2011, the required additional elements referred to in this Article shall be submitted either in written form or using the entry and exit summary declarations as appropriate.]]

#### **Textual Amendments**

- **F2** Inserted by Council Regulation (EC) No 1110/2008 of 10 November 2008 amending Regulation (EC) No 423/2007 concerning restrictive measures against Iran.
- F5 Substituted by Council Regulation (EC) No 680/2009 of 27 July 2009 amending Regulation (EC) No 423/2007 concerning restrictive measures against Iran.

## Article 5

# [F1] 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 Annexed I and IA, or related to the provision,

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)

- manufacture, maintenance and use of goods listed in Annexes I and IA, 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 Annexes I and IA;
- 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 Annexes I and IA, 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).]
- 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
  - c the pursuit by Iran of activities related to other topics about which the IAEA has expressed concerns or identified as outstanding.

## **Textual Amendments**

F1 Substituted by Council Regulation (EC) No 1110/2008 of 10 November 2008 amending Regulation (EC) No 423/2007 concerning restrictive measures against Iran.

#### Article 6

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:

Status: Point in time view as at 19/06/2010. 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 contract for delivery of the goods or technology, or for the provision of assistance, (a) includes appropriate end-user guarantees, and
- Iran has undertaken not to use the goods or technology concerned, or if applicable, the (b) assistance concerned, in proliferation sensitive nuclear activities or for development of nuclear weapon delivery systems.

## Article 7

- $I^{F1}1$ 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 United Nations Security Council Resolution 1737 (2006) and paragraph 7 of United Nations Security Council Resolution 1803 (2008).1
- 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.

#### **Textual Amendments**

Substituted by Council Regulation (EC) No 1110/2008 of 10 November 2008 amending Regulation (EC) No 423/2007 concerning restrictive measures against Iran.

## Article 8

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:

I<sup>F6</sup>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 or by the Council or of a judicial, administrative or arbitral judgment rendered prior to that date:

Status: Point in time view as at 19/06/2010.

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)

- (b) the funds or economic resources will be used exclusively to satisfy claims secured by 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;
- (c) the lien or judgment is not for the benefit of a person, entity or body listed in Annex IV or V;
- (d) recognising that the lien or judgment is not contrary to public policy in the Member State concerned; and
- (e) if Article 7(1) applies, the Sanctions Committee has been notified by the Member State of the lien or judgment.

#### **Textual Amendments**

**F6** 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

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;
  - (ii) the contract, agreement or obligation will not contribute to the manufacture, 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);
- (b) if Article 7(1) applies, 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 ten working days of notification; and
- (c) if Article 7(2) applies, the Member State concerned has notified that determination of 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

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 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:

Status: Point in time view as at 19/06/2010. 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 competent authority concerned has determined that the funds or economic resources
  - (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;
  - (ii) intended exclusively for payment of reasonable professional fees and 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
  - a 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

- 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
  - I<sup>F6</sup>b 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**

**F6** Substituted by Council Regulation (EC) No 618/2007 of 5 June 2007 amending Regulation (EC) No 423/2007 concerning restrictive measures against Iran.

## I<sup>F2</sup>Article 11a

- 1 Credit and financial institutions which come within the scope of Article 18 shall, in their activities with credit and financial institutions referred to in paragraph 2, and in order to prevent such activities contributing to proliferation-sensitive nuclear activities or to the development of nuclear weapon delivery systems:
  - a exercise continuous vigilance over account activity, particularly through their programmes on customer due diligence and under their obligations relating to money laundering and financing of terrorism;
  - b require that in payment instructions all information fields which relate to the originator and beneficiary of the transaction in question be completed and if that information is not supplied, refuse the transaction;
  - c maintain all records of transactions for a period of five years and make them available to national authorities on request;
  - d if they suspect or have reasonable grounds to suspect that funds are related to proliferation financing, promptly report their suspicions to the financial intelligence unit (FIU) or to another competent authority designated by the Member State concerned, as indicated on the websites listed in Annex III, without prejudice to Articles 5 and 7. The FIU or such other competent authority will serve as a national centre for receiving and analysing suspicious transaction reports regarding potential proliferation financing. The FIU or such other competent authority shall have access, directly or indirectly, on a timely basis to the financial, administrative and law enforcement information that it requires to properly undertake this function, including the analysis of suspicious transaction reports.
- 2 The measures set out in paragraph 1 shall apply to credit and financial institutions in their activities with:
  - a credit and financial institutions domiciled in Iran, in particular with Bank Saderat;
  - b branches and subsidiaries, where they come within the scope of Article 18, of credit and financial institutions domiciled in Iran, as listed in Annex VI;
  - branches and subsidiaries, where they do not come within the scope of Article 18, of credit and financial institutions domiciled in Iran, as listed in Annex VI;
  - d credit and financial institutions that are neither domiciled in Iran nor come within the scope of Article 18 but are controlled by persons and entities domiciled in Iran, as listed in Annex VI.

## **Textual Amendments**

F2 Inserted by Council Regulation (EC) No 1110/2008 of 10 November 2008 amending Regulation (EC) No 423/2007 concerning restrictive measures against Iran.

#### Article 11b

Bank Saderat branches and subsidiaries that come within the scope of Article 18 shall notify the competent authority of the Member State where they are established, as indicated on the websites listed in Annex III, of all transfers of funds carried out or received by them,

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 names of the parties, the amount and the date of the transaction, within five working days after carrying out or receiving the transfer of funds concerned. If the information is available, the notification must specify the nature of the transaction and, where appropriate, the nature of the goods covered by the transaction and must, in particular, state whether the goods are covered by Regulation (EC) No 1334/2000 or by this Regulation and, if their export is subject to authorisation, indicate the number of the licence granted.

Subject to, and in accordance with, the information-sharing arrangements, the other notified competent authorities shall without delay transmit these data, as necessary, in order to prevent any transaction that could contribute to proliferation-sensitive nuclear activities or to the development of nuclear weapons delivery systems, to the competent authorities of other Member States where the counterparts to such transactions are established.]

#### **Textual Amendments**

**F2** Inserted by Council Regulation (EC) No 1110/2008 of 10 November 2008 amending Regulation (EC) No 423/2007 concerning restrictive measures against Iran.

#### Article 12

- 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 Article 5(1)(d) and Article 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.
- [F23] The disclosure in good faith, as provided for in Articles 11a and 11b, by an institution or by a person covered by this Regulation or an employee or director of such an institution, of the information referred to in Articles 11a and 11b shall not involve the institution or person or its directors or employees in liability of any kind.]

#### **Textual Amendments**

- F1 Substituted by Council Regulation (EC) No 1110/2008 of 10 November 2008 amending Regulation (EC) No 423/2007 concerning restrictive measures against Iran.
- **F2** Inserted by Council Regulation (EC) No 1110/2008 of 10 November 2008 amending Regulation (EC) No 423/2007 concerning restrictive measures against Iran.

## I<sup>F2</sup>Article 12a

- 1 No claim for indemnity or any other claim of this type, such as a claim for compensation or a claim under a guarantee, notably a claim for extension or payment of a bond, guarantee or indemnity, particularly a financial guarantee or financial indemnity, of whatever form, made by:
  - a designated persons, entities or bodies listed in Annexes IV, V and VI;
  - b any other person, entity or body in Iran, including the Iranian government;
  - c any person, entity or body acting through or on behalf of one of these persons or entities

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 connection with any contract or transaction the performance of which would have been affected, directly or indirectly, wholly or in part, by the measures imposed by this Regulation shall be satisfied.

- 2 The performance of a contract or transaction shall be regarded as having been affected by the measures imposed by this Regulation where the existence or content of the claim results directly or indirectly from those measures.
- In any proceedings for the enforcement of a claim, the onus of proving that satisfying the claim is not prohibited by paragraph 1 shall be on the person seeking the enforcement of that claim.]

#### **Textual Amendments**

F2 Inserted by Council Regulation (EC) No 1110/2008 of 10 November 2008 amending Regulation (EC) No 423/2007 concerning restrictive measures against Iran.

#### Article 13

- 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.
- 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

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

- [F41 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 IA and Annex II on the basis of information supplied by Member States;
  - c amend Annex III on the basis of information supplied by Member States;
  - d amend Annex IV on the basis of determinations made by either the United Nations Security Council or the Sanctions Committee;
  - e amend Annex VI on the basis of decisions taken in respect of Annexes III and IV to Council Common Position 2007/140/CFSP.]

Status: Point in time view as at 19/06/2010. 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 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 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.
- 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.

#### **Textual Amendments**

Substituted by Council Regulation (EU) No 1228/2009 of 15 December 2009 amending Regulation (EC) No 423/2007 concerning restrictive measures against Iran.

#### Article 16

- 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.
- 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.

#### Article 17

- 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.
- 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.

## Article 18

This Regulation shall apply:

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

## Article 19

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 19/06/2010.

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)

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)

# IF7ANNEX I

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

#### **Textual Amendments**

F7 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<sup>(8)</sup>.

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<sup>(9)</sup>. In accordance with Article 1(1)(c) of Common Position 2007/140/CFSP<sup>(10)</sup>, 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.
- 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.)

Status: Point in time view as at 19/06/2010.

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

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	Descript	tion
I.0A.001	0A001	specially prepared	reactors' and designed or equipment and nts therefor, as
			'Nuclear reactors' capable of operation so as to maintain a controlled self-sustaining fission chain reaction;
			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';
			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;
			Pressure tubes specially designed or prepared to

Status: Point in time view as at 19/06/2010.

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)

contain fuel elements and the primary coolant in a 'nuclear reactor' at an operating pressure in excess 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, specially designed or prepared for use in a 'nuclear reactor'; Coolant pumps g. specially designed or prepared for circulating the primary coolant of 'nuclear reactors'; h. '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 for the reactor vessel,

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.	instrume Heat exc (steam g specially or prepar use in th coolant of 'nuclear Neutron and mea instrume specially or prepar determin flux leve the core	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 0B001.i and 0B001.j)	isotopes 'depleted 'special t and spec prepared	I uranium fissile ma ially designed equipme ents theref Plant sped designed separatir of 'natur	al uranium', a' and terials', gned or nt and for, as ecially I for ng isotopes al a', 'depleted and fissile

separation

Status: Point in time view as at 19/06/2010.

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)

plant; 6. Atomic vapour 'laser' isotope separation (AVLIS) plant; 7. Molecular 'laser' isotope separation (MLIS) plant; 8. Plasma separation plant; 9. Electro magnetic separation plant; Gas centrifuges and assemblies and components, specially designed or prepared for gas centrifuge separation process, as follows: Note: In I.0A.002.b. 'high strengthto-density ratio material' means any of the following: Maraging a. steel capable of an ultimate tensile strength of 2 050 MPa or more; b. Aluminium alloys capable of an ultimate tensile strength 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)

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

of

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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)

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';

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 UF<sub>6</sub>' 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

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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)

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

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 UF<sub>6</sub>'; 12. Scoops consisting of tubes of up to 12 mm internal diameter for the extraction of UF<sub>6</sub> gas from within a centrifuge rotor tube by a Pitot tube action, made of or protected by 'materials resistant to corrosion by UF<sub>6</sub>'; 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

Status: Point in time view as at 19/06/2010.

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

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 UF<sub>6</sub>' with a pore size of 10 to 100 nm, a thickness of 5 mm or less, and, for

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 UF<sub>6</sub>'; 3. Compressors (positive displacement, centrifugal and axial flow types) or gas blowers with a suction volume capacity of  $1 \text{ m}^3$ min or more of UF<sub>6</sub>, and discharge pressure up to 666,7 kPa, made of or protected by 'materials resistant to corrosion by UF<sub>6</sub>'; 4. Rotary shaft seals for compressors or blowers specified in I.0A.002.c.3. and

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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)

designed for a buffer gas in-leakage rate of less than 1 000 cm<sup>3</sup>/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 UF<sub>6</sub>', with a diameter

of 40 mm

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:

- 1. Separation nozzles consisting of slitshaped, curved channels having a radius of curvature less than 1 mm, resistant to corrosion by UF<sub>6</sub>, 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 UF<sub>6</sub>'

Status: Point in time view as at 19/06/2010.

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  $2 \text{ m}^3$ min or more, made of or protected by 'materials resistant to corrosion by UF<sub>6</sub>', and rotary shaft seals therefor; 4. Heat exchangers made of or protected by 'materials resistant to corrosion by UF<sub>6</sub>';

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 UF <sub>6</sub> ' to contain vortex tubes or
6.	tubes or separation nozzles; Bellows valves made of or protected by 'materials resistant to corrosion by UF <sub>6</sub> ', with a diameter
7.	of 40 to 1 500 mm; Process systems for separating UF <sub>6</sub> from carrier gas (hydrogen or helium) to 1 ppm UF <sub>6</sub> content or less, including: a. Cryogenic heat exchangers and cryoseparators capable of temperatures of 153

Status: Point in time view as at 19/06/2010.

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)

		K
		(– 120
		°C) or
		less;
	b.	Cryogenic
		refrigeration units
		capable
		of tomporatures
		temperatures of
		153
		K (-
		120
		°C)
		or less;
	c.	Separation
		nozzle or
		vortex
		tube
		units for
		the
		separation of
		UF <sub>6</sub>
		from
		carrier gas;
	d.	UF <sub>6</sub>
		cold
		traps capable
		of
		temperatures
		of 253
		K
		(– 20
		°C)
		or loss:
	Equipment and	less;
	components,	
	specially designed or prepared for	
	chemical exchange	;
'	_	

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);

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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)

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

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<sup>+3</sup> 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.

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)

acid (e.g. 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:

Status: Point in time view as at 19/06/2010.

- 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:
- 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

Status: Point in time view as at 19/06/2010.

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 UF<sub>6</sub> and carrier gas to 150 K (- 123 °C) or less and made from 'materials resistant to corrosion by UF<sub>6</sub>'; 2. Uranium pentafluoride  $(UF_5)$ product collectors consisting of filter, impact, or cyclone type

collectors

combinations

	thereof, and made of
	'materials
	resistant to
	corrosion
	by UF <sub>5</sub> /
	UF <sub>6</sub> ';
3.	Compressors
	made of or
	protected
	by
	'materials
	resistant to
	corrosion
	by UF <sub>6</sub> ',
	and rotary
	shaft seals
4.	therefor;
4.	Equipment for
	fluorinating
	UF <sub>5</sub>
	(solid) to
	$UF_6$ (gas);
5.	Process
	systems
	for
	separating
	UF <sub>6</sub> from
	carrier
	gas (e.g.
	nitrogen
	or argon)
	including:
	a. Cryogenic
	heat
	exchangers and
	cryoseparators
	capable
	of
	temperatures
	of
	153
	K
	(-
	120
	°C)
	or
	less;

Status: Point in time view as at 19/06/2010.

	b. c.	Cryogenic refrigeration units capable of temperatures of 153 K (- 120 °C) or less; UF <sub>6</sub> cold traps capable of temperatures of 253 K (- 20 °C) or less;
6.	'Lasers' or 'laser'	
	systems	
	for the	n
	separatio of	11
	uranium	
	isotopes	
	with a	
	spectrum	
	frequenc	
	stabiliser for	•
	operation	1
	over	•
	extended	
	periods o	of
NID C	time;	
N.B.: See		
I.6A.001 I.6A.008		
Equipme		
compone		
	designed	
or prepar		

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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)

> 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 I.2A.002.

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

6. Separator module housings (cylindrical) for containing 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)

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 and made
3.	of suitable non- magnetic materials (e.g. graphite or stainless steel); Vacuum housings for uranium electromagnetic separators made of non- magnetic materials (e.g.
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;

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	
	a.	Capable
	b.	of continuous operation; Output voltage of 20 000 V
	c.	or greater; Output current of 1
	d.	A or greater; and Voltage regulation of
		better than 0,01 % over a period of 8
N.B.: Set I.3A.006 6.		hours;

current) having

		b. Contact the con	Capable of continuous operation with a current output of 5000 A or greater at a color or greater; and Current or coltage egulation oetter han 0,01 % over a ceriod of
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 <sub>6</sub> ':  a. Feed autoclaves, ovens or systems	_

	used for	passing
	UF <sub>6</sub> to th	
	enrichme	ent process;
b.	Desublin	
	or cold tr	aps,
	used to re	
	UF <sub>6</sub> from	
		ent process
	for subse	
	transfer u	ıpon
	heating; Product a	لمسا
c.	tails stati	
	transferri	
	into conta	-
d	Liquefac	,
u.	solidifica	
	stations u	
	remove U	
	the enrich	
	process b	
	compress	
	cooling a	•
		ig UF <sub>6</sub> to a
	liquid or	solid form;
e.		stems and
	header sy	stems
		designed
	for handl	
	within ga	
		, centrifuge
	or aerody	
c	cascades;	
f.	1.	Vacuum
		manifolds
		or vacuum headers
		having a
		suction
		capacity
		of 5 $\text{m}^3$ /
		minute or
		more; or
	2.	Vacuum
		pumps
		specially
		designed
		for use
		in UF <sub>6</sub>
		bearing
		atmospheres;

Status: Point in time view as at 19/06/2010.

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

		d. e. f. g. h.	to UF <sub>4</sub> ; Systems conversi to UF <sub>6</sub> ; Systems conversi to UO <sub>2</sub> ; Systems conversi to UF <sub>4</sub> ; Systems	for the on of UF <sub>4</sub> for the on of UF <sub>4</sub> m metal; for the on of UF <sub>6</sub> for the on of UF <sub>6</sub>
I.0A.005	0B004	concentr deuterium compour designed equipme	m and deunds and sploor preparent and con as follow Plant for	eavy water, atterium becially red mponents res: the on of heavy euterium rium ands, as Water-hydrogen sulphide exchange plants; Ammoniahydrogen exchange plants; ent and

Status: Point in time view as at 19/06/2010.

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 % H<sub>2</sub>S) with a throughput capacity greater than or equal to  $56 \text{ m}^{3}$ second when operating at pressures greater than or equal to 1,8 MPa suction

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)

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

Status: Point in time view as at 19/06/2010.

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

		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;  b. Seals the integrity of the cladding;  c. Checks the integrity of 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

Status: Point in time view as at 19/06/2010.

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; b. Fuel element 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

			have the features:	following
			jeuures. 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; A maximum diameter of 175 mm for cylindrical
			3.	vessels; or A maximum width of 75 mm for either a slab or annular vessel.
		f.	or prepa monitori controlli reproces irradiate	control entation o designed red for ng or ng the sing of ed 'natural ', 'depleted ' or fissile
I.0A.008	0B007	plutonius specially	the conversion the conversion therefor, Systems conversion the conversion the conversion the conversion the conversion the conversion the conversion that c	lipment or as follows: for the

Status: Point in time view as at 19/06/2010.

		plutonium nitrate to oxide; b. Systems for plutonium metal production.
I.0A.009	0C001	'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

		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 BE <sub>z</sub> for impurities (excluding BE <sub>carbon</sub> since carbon is not considered an impurity) including boron, where:  BE <sub>z</sub> (ppm) = CF × concentration of element Z in ppm; where CF is the conversion factor =  and \( \sigma_B \) and \( \sigma_Z \) are the thermal neutron capture cross sections (in barns) for naturally occurring boron and element Z respectively; and \( A_B \) and \( A_Z \) are the atomic masses of naturally

Status: Point in time view as at 19/06/2010.

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 <sub>6</sub> (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'

## I.1A

# **GOODS**

No	Relevant item(s) from Annex to Regulation (EC) No 1183/2007	Description
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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

Status: Point in time view as at 19/06/2010.

		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

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 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,

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)

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

		provision to strain the fibre during heating; 2. Equipment for the vapour deposition of elements or compounds on heated filament substrates; 3. Equipment for the wet- spinning of refractory ceramics (such as aluminium oxide);
		d. Equipment designed or modified for special fibre surface treatment or for producing prepregs and preforms specified in entry I.9A.026.  Note: I.1A.007.d. includes rollers, tension stretchers, coating equipment, cutting equipment and clicker dies.
I.1A.008	1B102	Metal powder 'production equipment' and components as follows:  N.B.: See also I.1A.009.b.  a. Metal powder 'production equipment' usable for the 'production', in a controlled environment, of spherical or atomised

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		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
I.1A.009	1B115	(e.g. nitrogen).  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

I.1A.010	1B116	acceptance testing of liquid propellants or propellant constituents specified in I.1A.025.a., I.1A.025.b., I.1A.029 or in the Military Goods Controls; b. 'Production equipment' for the 'production', handling, mixing, curing, casting, pressing, machining, extruding or acceptance testing of solid propellants or propellant constituents specified in I.1A.025.a., I.1A.025.b., I.1A.029 or in the Military Goods Controls.  Note: I.1A.009.b. does not prohibit batch mixers, continuous mixers or fluid energy mills. For the prohibition of batch mixers, continuous mixers and fluid energy mills see I.1A.011, I.1A.012 and I.1A.013.  Note 1: For equipment specially designed for the production of military goods, see the Military Goods Controls.  Note 2: I.1A.009 does not prohibit equipment for the 'production', handling and acceptance testing of boron carbide  Specially designed nozzles
1.1A.UIU	10110	for producing pyrolitically

Status: Point in time view as at 19/06/2010.

		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

		specially designed components therefore.
I.1A.014	1B201	Filament winding machines, other than those specified in I.1A.006 or I.1A.007, and related equipment, as follows:  a. Filament winding machines having all of the following characteristics:  1. Having motions for positioning, wrapping, and winding fibres coordinated and programmed in two or more axes;  2. Specially designed to fabricate composite structures or laminates from 'fibrous or filamentary materials'; and
		3. Capable of winding cylindrical rotors of diameter between 75 and 400 mm and lengths of 600 mm or greater; b. Coordinating and programming controls for the

Status: Point in time view as at 19/06/2010.

		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 highpressure 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

		c.	internal pressure of 0,5 to 5 MPa; Constructed of 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  2. Equivalent materials which are both cryogenic and H <sub>2</sub> -compatible; and With internal diameters of 1 m or greater and effective lengths of 5 m or greater.
I.1A.019	1B229	exchang 'internal follows: <i>N.B.: Fo are spec prepared</i>	ydrogen sulphide e tray columns and contactors', as  or columns which ially designed or d for the production water see I.OA.005. Water-hydrogen sulphide exchange tray columns, having all of the following characteristics:  1. Can operate at pressures

Status: Point in time view as at 19/06/2010.

		for hy ex co in Te 'Ir' co the seg wh eff dia m are to co co are sta a co of Th tra bu	of 2 MPa or greater; Constructed of carbon steel having an austenitic ASTM (or equivalent standard) grain size number of 5 or greater; and With a diameter of 1,8 m or greater; and ternal contactors' or the water drogen sulphide change tray lumns specified I.1A.019.a. chnical Notes: atternal ntactors' of the columns are gmented trays which have an fective assembled ameter of 1,8 or greater; the designed facilitate untercurrent and the constructed of the constructed
I.1A.020	1B230	solutions of or dilute pot catalyst in li (KNH <sub>2</sub> /NH <sub>3</sub>	ble of circulating concentrated tassium amide iquid ammonia b), having all of ag characteristics:

		a.	Airtight	(i e
		u.	hermetic	
		b.	sealed);	ty greater
		0.		m <sup>3</sup> /h; and
		c.	Either of	
			following	
			character	
			1.	For concentrated
				potassium
				amide
				solutions (1 % or
				greater),
				an
				operating
				pressure of 1,5 to
				60 MPa;
			2	or
			2.	For dilute potassium
				amide
				solutions
				(less than 1 %), an
				operating
				pressure
				of 20 to 60
				MPa.
I.1A.021	1B231		acilities o	
		follows:	pment the	icioi, as
		a.		or plants
				roduction,
			concentr	, extraction,
				of tritium;
		b.	Equipme	
				acilities or s follows:
			1.	Hydrogen
				or helium
				refrigeration
				units capable of
				cooling to
				23 K (-
				250 °C)
				or less, with heat
	I	I		

Status: Point in time view as at 19/06/2010.

		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

		3. 4.	amalgam pumps; Lithium amalgam electrolysis cells; Evaporators for concentrated lithium hydroxide solution.
I.1A.024	1C010.b	all of the 1.  Note: I.I. does not fabric m from 'fib or filame material repair oj aircraft' or lamin which th individue	may be natrix', or carbon re' nates, as  A.034 and  fibrous entary s', having following: A 'specific modulus' exceeding 12,7 × 10 <sup>6</sup> m; and A 'specific tensile strength' exceeding 23,5 × 10 <sup>4</sup> m; A.024.b. prohibit ade brous entary s' for the f' civil structures ates, in e size of al sheets exceed 100 0 cm.

Status: Point in time view as at 19/06/2010.

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)

**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.

		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.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

Status: Point in time view as at 19/06/2010.

		or greater and a wall thickness of 25 mm or greater and a length of 50 mm or greater; or 3. Blocks having a size of 120 mm × 120 mm × 50 mm or greater; N.B.: See also 1.0A.012. Pyrolytic or fibrous reinforced graphites, usable for rocket nozzles and reentry vehicle nose tips usable in 'missiles'; N.B.: See also 1.0A.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	ex 1C111* (1C111.a.1-3, 1C111.a.4, 1C111.b.1-4 and 1C111.c)	Propellants and constituent chemicals for propellants, other than those specified in I.1A.025, as follows:  Propulsive substances:  1. Spherical aluminium powder, other than that

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 the Military Goods Controls, with particles of uniform diameter of less than 200 μm and an aluminium content of 97 % by weight or 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 (İSO R-565) corresponds to 250 mesh (Tyler) or 230 mesh (ASTM standard E-11). Metal fuels. other than that specified in the

Military Goods

2.

Status: Point in time view as at 19/06/2010.

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, in particle sizes of less than 60 μm, whether spherical, atomized, spheroidal, flaked or ground, consisting 97 % by weight or more of any of the following: Zirconium; a. b. Beryllium; Magnesium; c. d. Alloys of the metals specified by (a) to (c) above; Technical Notes: The natural content of hafnium in the zirconium (typically 2 % to 7 %) is counted with the zirconium. Oxidiser substances usable in liquid propellant rocket engines as

3.

follows:

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.	Dinitrogen
	trioxide.

- b. Nitrogen dioxide/ dinitrogen tetroxide;
- c. Dinitrogen pentoxide;
- d. Mixed
  Oxides
  of
  Nitrogen
  (MON);

Technical
Notes:
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

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contains 3 % Nitric Oxide, MON25 25 % Nitric Oxide. An upper limit is MON40, 40 % by weight). N.B.: See Military Goods 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.

4.

b.

c.

d.

e.

f.

N,

N

ethylene

dinitrate;

dihydrazine;

tetramethylhydrazine;

monomethylhydrazine

diallylhydrazine; allylhydrazine;

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g.	unsymmetrical
Č	dimethylhydrazine
	nitrate;
h.	hydrazinium
	azide;
i.	dimethylhydrazinium
	azide;
	N.B.:
	See
	Military
	Goods
	Controls
	for
	Hydrazinium
	nitrate;
k.	diimido
	oxalic
	acid
	dihydrazine;
1.	2-
	hydroxyethylhydrazine
	nitrate
	(HEHN);
	N.B.:
	See
	Military
	Goods
	Controls
	for
	Hydrazinium
	perchlorate;
n.	hydrazinium
11,	diperchlorate;
0	methylhydrazine
0.	nitrate
n	(MHN); diethylhydrazine
p.	nitrate
	(DEHN);
a	
q.	1,4- dihydrazine
	nitrate
Dalymania	(DHTN);
Polymeric	
substances:	

Carboxy-

terminated polybutadiene (CTPB); Hydroxy-

terminated polybutadiene (HTPB),

1.

2.

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	other	
	than that	
	specified	
	in the	
	Military	
	Goods	
	Controls;	
3.	Polybuta	
J.	acrylic	diciic-
	acid	
1	(PBAA);	diana
4.	Polybuta	uiene-
	acrylic	
	acid-	
	acrylonit	riie
0.1	(PBAN);	
Other pro		
additives	and	
agents:	2 5111	
	e Military	
Goods C		
for carbo	,	
decabora	nes,	
pentabora	anes and	
derivativ	es thereof	·
2.	Triethyle	ne
	glycol	
	dinitrate	
	(TEGDN	);
3.	<b>2</b> -	,,
	Nitrodipl	nenylamine
	(CAS	J
	119-75-5	):
4.		lolethane
••	trinitrate	Totolium
	(TMETN	Ŋ
	(CAS	)
	3032-55-	1).
5.	Diethyler	
J.	glycol	ic
	dinitrate	
	(DEGDN	1).
6.		
0.	Ferrocen	
	derivativ	
	as follow	
	N.B.: See	
	Military	
	Goods	
	Controls	
	for	
	catocene	
	b.	Ethyl
		ferrocene;

C	·.	Propyl ferrocene (CAS 1273-89-8); N.B.:
		See Military Goods Controls for
		n-
		butyl
		ferrocene;
$\epsilon$	<b>).</b>	Pentyl
		ferrocene
		(CAS
f		1274-00-6); Dicyclopentyl
1	•	ferrocene;
٤	г	Dicyclohexyl
٤	··	ferrocene;
ŀ	١.	Diethyl
		ferrocene;
i		Dipropyl
		ferrocene;
j		Dibutyl
k		ferrocene;
K		Dihexyl ferrocene;
1		Acetyl
1	•	ferrocenes;
		N.B.:
		See
		Military
		Goods
		Controls for
		ferrocene
		Carboxylic
		acids;
		N.B.:
		See
		Military
		Goods Controls
		for
		butacene;
C	).	Other
		ferrocene
		derivatives
		usable
		as rocket
		TOCKEL

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		Note: For propellants and constituent chemicals for propellants not specified in I.1A.029, see the Military Goods Controls.	propellant burning rate modifiers, other than those specified in 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 o precipitates to produce agehardening) having an ultimatensile strength of 1 500 MI or greater, measured at 293 (20 °C), in the form of shee plate or tubing with a wall or plate thickness equal to cless than 5 mm.  N.B.: See also I.1A.035.	ate Pa K t,
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 i 'missiles' (i.e., heat shields, nozzle substrates, nozzle throats and thrust vector control surfaces).	n
I.1A.032	1C118	Titanium-stabilised duplex stainless steel (Ti-DSS) having all of the following: a. Having all of the following characteristics:	

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1.	Containing
1.	17,0-23,0
	weight
	percent
	chromium
	and
	4,5-7,0
	weight
	percent
	nickel;
2.	Having a
	titanium
	content
	of greater
	than 0,10
	weight
	percent;
	and
3.	A ferritic-
	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
Having	any of the
	ng forms:
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

b.

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			3.	thickness of 3 mm or less; or Tubes having an outer diameter of 600 mm or more and a wall thickness of 3 mm or less.
I.1A.033	1C202	Alloys as a.	having be the follow character 1.	um alloys oth of wing ristics:
		b.	Titanium having be the follow character 1.	alloys oth of wing

		or more at 293 K (20 °C); and 2. In the form of tubes or cylindrical solid forms (including forgings) with an outside diameter of more 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 <sup>6</sup> m or greater; or  2. A 'specific tensile strength' of 235 × 10 <sup>3</sup> 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

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		b.		entary s' both of owing ristics: A 'specific modulus' of 3,18 × 10 <sup>6</sup> m or greater;
			2.	and A 'specific tensile strength' of 76,2 × 10 <sup>3</sup> m or
I 1A 035	1C216	or filame is restric 'monofil 'rovings	rovings or 'tapes width of or less (made from glass or filam material in I.1A.034 Technical The resist the material that the material entary material to confidents', 'tows' of the state of the material entary material to confidents', 'tows' of the material entary material to confidents', 'tows' of the state of the s	ated bus 'yarns', ', 'tows' s' with a 15 mm prepregs), but carbon 'fibrous entary s' specified 024 or 4.a or .b. al Notes: In forms ix of the ite. 'fibrous eterials' intinuous 'yarns', but 'tapes'.
I.1A.035	1C216	that spec 'capable tensile st or more, Note: I.I	at 293 K A.035 do	1A.030, timate 2 050 MPa (20 °C).

		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 ( <sup>10</sup> 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

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		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  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 ( <sup>3</sup> 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 ( <sup>6</sup> 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

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		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 <sup>3</sup> GBq (40 Ci) of tritium.
I.1A.047	1C236	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.
I.1A.048	1C237	Radium-226 ( <sup>226</sup> Ra), radium-226 alloys, radium-226 compounds, mixtures containing radium-226, manufactures therof, and products or devices containing any of the foregoing.  Note: I.IA.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 <sub>3</sub> ).
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; and  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 does not prohibit the following:

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a. Filamentary nickel powders;
b. Single porous nickel sheets with an area of 1 000 cm <sup>2</sup> 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.

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, 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.

Status: Point in time view as at 19/06/2010.

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I.1B.012	1E203	'Technology' according to
		the General Technology
		Note for the 'development'
		of 'software' specified in
		I.1B.004.

# I.2 MATERIALS PROCESSING

# 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:

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	1.	A volum of between	e
		150 cm <sup>3</sup> and 8 00	0
		cm <sup>3</sup> ; and	
	2.	Made of or coated	
		with any	
		of the following	g
		materials having a	5,
		purity of	
		98 % or greater b	V
		weight:	
		a.	Calcium fluoride (CaF <sub>2</sub> );
		b.	Calcium
			zirconate (metazirconate)
		c.	(CaZrO <sub>3</sub> ); Cerium
		<b>C.</b>	sulphide
		d.	(Ce <sub>2</sub> S <sub>3</sub> ); Erbium
			oxide
			(erbia) (Er <sub>2</sub> O <sub>3</sub> );
		e.	Hafnium oxide
			(hafnia)
		f.	(HfO <sub>2</sub> ); Magnesium
		1.	oxide
		g.	(MgO); Nitrided
			niobium- titanium-
			tungsten
			alloy (approximately
			50 %
			Nb,
			30 %
			Ti,

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			h.	20 % W); Yttrium oxide (yttria) (Y <sub>2</sub> O <sub>3</sub> ); or Zirconium oxide (zirconia) (ZrO <sub>2</sub> );
	b.	Crucible having b the following the following that the following the following that the following th	oth of wing	e 0 h
	c.	Crucible all of the character 1.	s having following	e 0 h

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.

		3. Coated with tantalum carbide, nitride, boride, or any 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 machine tools limited to the machine tools limited to the

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 19/06/2010.

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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 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
  Two or
  more axes
  which
  can be
  coordinated
  simultaneously
  for
  'contouring
  control';

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)

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:

- 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

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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		for 'contouring control';
I.2A.005	ex 2B006.b*	
		(better) than 0,2

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.	μm within a measuri range up to 0,2 mm; Linear voltage differen transfor systems having all of the followin characte 1.	ng eristics:  'Linearity' equal to or less (better) than 0,1 % within a measuring range up to 5 mm; and Drift equal to or less (better)
			less (better) than 0,1 % per day at a

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.

A 'res ove the

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standard ambient test room temperature 1 K; or Measuring c. systems having all of the following: 1. Containing 'laser'; and 2. Maintaining, for at least 12 hours, over temperature range of  $\pm$ 1 K around standard temperature and at a standard pressure, all of the following:

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b.

full sca of 0,1 µm or less (be and

A 'me unce 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 closed oropen loop feedback, containing a laser to

measure slide movement

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.

errors
of
machine
tools,
dimensional
inspection
machines,

or similar equipment.

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		Angular displacement measuring instruments having an 'angular position deviation' equal to or less (better) than 0,00025°; Note: 1.24.005.b.2. does not prohibit optical instruments, such as autocollimators, using collimated light (e.g. laser
		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 × 10³ 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

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 19/06/2010.

		equipped with 'numerical control' units or a computer control, even 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 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 positioning	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
authorities of the Member State in w	which they are established.	

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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, measured 'bare table'; Digital controllers

- 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 I.2A.010.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 I.2A.010.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 I.2A.010.a.

Technical Notes:

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 19/06/2010.

controls, othe specified in I. I.2A.008, des modified for and pyrolysis composite roor reentry vehicl  I.2A.012  2B119  Balancing marelated equipment follows:  N.B.: See also a. Balancing marelated and marelated mare	In I.2A.010, 'bare to means a flat table, o with no fixture or fi	or surface,
related equipr follows: N.B.: See also a. Bala mac all ti char 1.	Equipment and procontrols, other than specified in I.2A.00 I.2A.008, designed modified for densifiand pyrolysis of structure composite rocket no reentry vehicle nose	those 07 or or ication uctural ozzles and
<ul><li>3.</li><li>4.</li></ul>	related equipment, follows: N.B.: See also I.2A a. Balancing machines all the foll characteri 1.  2.	as 021. g having lowing

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.

		kg of rotor mass;  Note: I.2A.012.a. does not prohibit balancing machines designed or modified for dental or other medical equipment. b. Indicator heads designed or modified for use with machines specified in I.2A.012.a. Technical Notes: Indicator heads are sometimes known as balancing instrumentation
I.2A.013	2B120	Motion simulators or rate tables having all of the following characteristics:  a. Two axes or more;  b. Slip rings capable of transmitting electrical power and/or signal information; and  c. Having any of the following characteristics:  1. For any single axis having all of the following:  a. Capable of rates of 400 degrees/  s or more, or 30 degrees/ s

**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		
			or
			less;
			and
		b.	A
			rate
			resolution
			equal
			to
			or
			less
			than
			6
			degrees/
			S
			and
			an
			accuracy
			equal
			to
			or
			less
			than
			0,6
			degrees/
			s;
	2.	Having	5,
	2.	a worst-	
		case rate	
		stability	
		equal to	
		or better	
		(less) tha	n
		plus or	
		minus	
		0,05 %	
		averaged	
		over 10	
		degrees of	or
		more; or	
	3.	A	
		positioni	ng
		accuracy	
		equal to	
		or better	
		than 5 are	c
		second.	-
	Note: I.2A.013 doe		
	prohibit rotary tab		
	designed or modifi		
			1
	machine tools or fo	or meatca	ι
	equipment.		
220/2 (	1007) should consult the ac	mnotont	

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.014	2B121	Positioning tables (equipment capable of precise rotary positioning in any axes), other than those specified 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

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or less (better) than 6 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 '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

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.

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with 'all
         compensations
         available'
         equal to
         or less
         (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
         '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:
         1.
                  Limited
                   to
                   a
                  maximum
                  workpiece
```

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 19/06/2010.

		capacity
		of
		150
		mm
		outside
		diameter
		or
		length;
		and
	2.	Axes
		limited
		to
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		and
		<i>c</i> ;
b.	Jig	Ο,
0.	grinders	
	that do	
	not have	
	a z-axis	
	or a w-	
	axis with	
	an overa	11
	positioni	
	accuracy	_
	less	
	(better)	
	than 4 μn	ท
	accordin	
	to ISO	5
	230/2	
	$(1988)^a$ o	174
	national	''
	equivaler	atc
Note 1: I.2A.016 d		us.
prohibit special pu		
machine tools limi		
manufacture of any		
following parts:	v oj inc	
a. Gears;		
b. Cranksha	afts or	
camshaft		
c. Tools or a		
d. Extruder		
Note 2: A machine		
having at least two		
three turning, milli		
grinding capabiliti		
a turning machine		
milling capability)	, must	

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.

		applicab	ated agaii le entry I. 16.a. or l	2A.004.a.
I.2A.017	2B204	'Isostatic presses', other than those specified in I.2A.007, and related equipment, as follows:		
		a.	'Isostatic having b the follo character 1.	wing
				or greater;
			2.	A chamber cavity with an inside diameter
				in excess of 152
		b.	for 'isost	rols, designed tatic specified in
		chamber the cham the work	l Notes: 17 the ins dimension ber in whi ing tempe	side on is that of nich both erature
		are achie not inclu dimensio of either		does s. That the smaller e diameter
Manufacturers calculating positioning	no accuracy in accordance with ISO 230/2 (	the inside insulated depending	e diamete l furnace ig on whic	r of the chamber, ch of the

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 19/06/2010.

		two chan		ocated
I.2A.018	2B206	Dimension machines	onal inspose, instrum other that in I.2A.0 Compute controlle numeric controlle dimension	ection lents or in those loos, as  er ed or ally ed onal on machines oth of wing ristics:  Two or more axes; and A one- dimensional length 'measurement uncertainty' equal to or less (better) than (1,25 + L/1 000) µm tested with a probe of an 'accuracy' of less (better) than 0,2 µm (L is the
				measured length in millimetres) (Ref.: VDI/VDE
		b.		eous linear- inspection

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. 'Measurement uncertainty' along any linear axis equal to or less (better) than 3,5 µm per 5 mm; and 2. 'Angular position deviation' equal to or less than 0,02°.  Note 1: Machine tools that can be used as measuring machines are prohibited if they meet or exceed the criteria specified for the machine tool function or the measuring machine function.  Note 2: A machine specified in I.2A.018 is prohibited if it exceeds the prohibition threshold anywhere within its operating range.  Technical Notes:  1. The probe used 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	'Robots', 'end-effectors' and control units, other than

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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		those specified in I.2A.006, as follows:  a. 'Robots' or 'end- effectors' specially designed to comply with national safety standards applicable to handling high- explosives (for example, meeting electrical code ratings for high- explosives); b. Control units specially designed for any of the 'robots' or 'end- effectors' specified in I.2A.019.a.
I.2A.020	2B209	Flow forming machines, spin forming machines capable of flow forming functions, other than those specified in I.2A.009, and mandrels, as follows:  a. Machines     having both of the following characteristics:     1. Three     or more rollers     (active or guiding); and     2. Which, according to the manufacturer's technical specification, can be equipped with 'numerical control' units or a computer control;

		machine a single to defort auxiliar support not part	to form rotors o diamete 75 mm smm. 2A.020.a. es which he roller des metal py rollers verbe mand	Is designed cylindrical finside r between and 400 includes have only signed which leel, but do rectly in the
I.2A.021	2B219	balancin or portal	designed balancir rotors hall length of or more all of the characters.	nes, fixed ontal or vs:  ngal ng machines of for ng flexible aving a of 600 mm and having e following eristics:  Swing or journal diameter greater than 75 mm;  Mass capability of from 0,9 to 23 kg; and
		b.	3. Centrifi	Capable of balancing speed of revolution greater than 5 000 r.p.m.;
Manufacturers calculating position	ning accuracy in accordance with ISO 230/2		balancir designe balancir	ng machines d for ng hollow

**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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			owing
		<ol> <li>3.</li> <li>4.</li> </ol>	Capable of balancing to a residual imbalance equal to or less than 0,01 kg × mm/kg per plane; and Belt drive type.
I.2A.022	2B225	or more wall (th wall ope b. A capab bridging the top o cell wal thickness	e remote semical sions or hot er of the seristics: bility of sing 0,6 m of hot cell rough-the-eration); or bility of gover of a hot l with a ss of 0,6 m (over-the-eration).

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.

		be of 'm	åster/sla	They may ve' type vystick or
I.2A.023	2B226	Controlled atmosphere (vacuum or inert gas) induction furnaces, and power supplies therefor, as follows: a. Furnaces having all of the followin		gas) es, and herefor, as
			charact 1.	eristics: 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 more;
		b.	with a s power of 5 kW o	ly designed naces ed in
		not proh	2A.023.a hibit furned for the paductor w	aces processing of
I.2A.024	2B227	atmosph melting and rela follows:	nere meta and casti ted equip	ing furnaces oment as
Manufacturary relation (2)	ing accuracy in accordance with ISO 230/2	a.	casting having the foll charact	owing eristics:

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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			<ol> <li>2.</li> </ol>	Consumable electrode capacities between 1 000 cm <sup>3</sup> and 20 000 cm <sup>3</sup> , and Capable of operating with melting temperatures above 1 973 K (1 700 °C);
		b.	Electron melting f and plasmatomizati melting f having be the follow character 1.	beam furnaces ma ion and furnaces, oth of wing ristics: A power of 50 kW or greater; and Capable of operating with melting
		c.	and mon systems	specially ed for any rnaces
I.2A.025	2B228	Rotor fab assembly straighter bellows-1 and dies, a.	orication or equipmening equip forming n	or ent, rotor pment, nandrels vs: sembly
a Manufacturers calculating positionin authorities of the Member State in w	g accuracy in accordance with ISO 230/2 (hich they are established.	1997) should	consult the co	ompetent

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assembly of gas centrifuge rotor tube sections, 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: Inside diameter between 75 mm and 400 mm; 2. Length equal to or greater than 12,7

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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		3. Single convolution depth greater than 2 mm; and 4. Made of high- strength aluminium alloys, maraging steel or high strength 'fibrous or filamentary materials'.
I.2A.026	2B230	'Pressure transducers' capable of measuring absolute pressures at any point in the range 0 to 13 kPa and having both of the following characteristics: a. Pressure sensing elements made of or protected by aluminium, aluminium alloy, nickel or nickel alloy with more than 60 % nickel by weight; and b. Having either of the following characteristics: 1. A full scale of less than 13 kPa and an 'accuracy' of better than + 1 % of full scale; or 2. A full
a Manufacturers calculatin	g positioning accuracy in accordance w	scale of 13 kPa or greater  with ISO 230/2 (1997) should consult the competent

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.

		and an 'accuracy' of better 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:
		<ol> <li>The pumping speed is determined at the measurement point with nitrogen gas or air.</li> <li>The ultimate</li> </ol>
		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

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.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: 1.2B.002 does not prohibit 'software' specially designed or modified for the operation of machine tools not specified in Category 1.2.
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

# 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)

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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)

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

			(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	

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		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;  c. Capacitance greater than 0,5 µF; and d. Series inductance less than 50 nH; or
		$\begin{array}{cccccccccccccccccccccccccccccccccccc$

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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)

different sources are allowed, provided the related export documents clearly specify that the shipments are dispatched 'as part of' the imaging systems. Flash X-ray c. generators or pulsed electron accelerators having either of the following sets of characteristics: 1. An a. accelerator peak electron energy of 500 keV or greater but less than 25 MeV; and b. With 'figure of merit' (K) of 0,25 or greater; or 2. An a. accelerator peak electron energy of 25 MeV

or

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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  $\mu$ s, then Q is the maximum accelerated charge in  $1 \mu s$ . Q equals the integral of i with respect to t, over

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the lesser of l  $\mu s$  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.OA.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 stability better than 0,1 % over a time period of 8 hours
I.3A.006	3A227	High-voltage direct current power supplies, other

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		than those specified in I.0A.002.j.5., having both of the following characteristics a. Capable of continuously producing, over a time period of 8 hours, 20 kV or greater with currer output of 1 A or greater; and b. Current or voltage stability better than 0,1 % over a time period of 8 hours.	nt
I.3A.007	3A228	Switching devices, as	
1.5A.007		follows:  a. Cold-cathode tube whether gas filled or not, operating similarly to a sparl gap, having all of the following characteristics:  1. Containing three or more electrode  2. Anode peak voltage rating of 2,5 kV or more;  3. Anode peak current rating of 100 A or more; an	k ng es;
		4. Anode delay tim of 10 µs of 10 µs of 10 ps of	or
		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
		c.	Modules assemble a fast sw function of the fo characte 1.	more; s or ies with vitching having all illowing
			<ol> <li>3.</li> </ol>	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 follow N.B.: Se	g sets and equivalent current pulse generators	

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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			
	a 'rise			
	time' of			
	less than			
	10 μs into			
	loads of			
	less than			
	40 ohms;			
6.	No			
	dimension			
	greater			
	than 254			
	mm;			
7.	Weight			
	less than			
	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			
	applications.			
	3A.008.b.			
	xenon flash			
lamp drivers.				
Technical Notes:				
In I.3A.(				
'wigo tim	a' is			

'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;

Status: Point in time view as at 19/06/2010.

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):
- Arrangements h using single or multiple detonators designed to nearly simultaneously initiate an explosive surface over greater than 5 000 mm<sup>2</sup> from a single firing signal with an initiation timing spread over the surface of less than  $2,5 \mu s$ .

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	Mass spatroma	ters other
1.3A.U12	3A233	Mass spectrome than those speci	
		I.0A.002.g., cap	
		measuring ions	
		atomic mass uni	
		and having a res	
		better than 2 par	
		as follows, and i	
		therefor:	on sources
			vely coupled
		plasma	
			ometers (ICP/
		MS);	
			lischarge
			pectrometers
		(GDM	
			al ionization
		mass s	pectrometers
		(TIMS	);
		d. Electro	n
		bomba	rdment
			pectrometers
		which	
			chamber
			icted from,
			vith or plated
			aterials
			nt to $UF_6$ ;
			ılar beam
			pectrometers
			either of
		the fol	
		enaraci	teristics:
		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
	I	I	, 0.

Status: Point in time view as at 19/06/2010.

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)

		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**

# 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 19/06/2010.

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)

		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 <sup>3</sup> 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' I 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.

I.5

Status: Point in time view as at 19/06/2010.

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**

No	Relevant item(s) from Annex to Regulation (EC) No 1183/2007	Description
I.5A.001	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;

# 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 19/06/2010.

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

#### 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: <sup>a</sup> a. Pulsed excimer (XeF, XeCl, KrF) 'lasers' having all of the following characteristics:  1. Operating at wavelengths between 240 nm and 360
		nm; 2. A repetition rate greater than 250
		Hz; and 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.

		2	2.	between 500 nm and 600 nm; and An average output power exceeding 40 W.
		a F h t	alexandri	te 'tunable' ite (CR: ) 'lasers' ll of wing
		1	1.	Operating
				at wavelengths between 720 nm and 800
		2	2.	nm; A bandwidth of 0,005
		3	3.	nm or less; A repetition rate greater than 125
		4	1.	Hz; and An average output power exceeding 30 W.
I.6A.002	6A007.c	Gravity gr	adiomet	ers.
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 point	s a, b and c of 6	5A005.	

Status: Point in time view as at 19/06/2010.

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)

		levels which meet or exceed a total irradiation dose of 5 × 10 <sup>5</sup> rads (silicon). Technical Notes: In I.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 <sup>-6</sup> 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

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; 2. 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

**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)

I.6A.006	6A202	systems and unmanned aerial vehicle systems capable of a range exceeding 300 km.  Photomultiplier tubes having both of the following characteristics: a. Photocathode area of greater than 20 cm²; and b. Anode pulse rise time of less than 1 ns.
I.6A.007	6A203	Cameras and components, as 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 consisting of

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 bear		
b.	Electron		
	cameras,	electronic	c
	framing	cameras,	
		d devices,	
	as follow		
	1.	Electroni	ic
		streak	
		cameras	
		capable o	of
		50 ns or	
		less time	
		resolutio	n;
	2.	Streak	
		tubes for	
		cameras	
		specified	
		in	
	2	I.6A.007	
	3.	Electroni	ıc
		(or	001144
		electroni	
		shuttered framing	1)
		cameras	
		capable of	of
		50 ns or	<i>)</i> 1
		less fram	e
		exposure	
		time;	
	4.	Framing	
		tubes and	i
		solid-stat	te
		imaging	
		devices	
		for use	
		with	
		cameras	
		specified	
		in	
		I.6A.007	
		as follow	
		a.	Proximity
			focused
			image
			intensifier
			tubes
			having the
			photocathode
			deposited
			<u>ucpositeu</u>

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.

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

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 19/06/2010.

I.6A.008  6A205  Casers', '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  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.			des for can spe in	age ing ee
wavelengths	I.6A.008	6A205	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	
	a The texts of points a, b and c in this	entry do not correspond with those of point	wavelengths	

1			hatryaan
			between
			400 nm
			and 515
			nm; and
		2.	An
			average
			output
			power
			greater
			than 40
			W;
	b.	Tunable j	pulsed
		single-m	
		laser osci	
		having al	
		the follow	•
		character	
		1.	Operating
			at
			wavelengths
			between
			300 nm
			and 800
			nm;
		2.	An
			average
			output
			power
			greater
		2	than 1 W;
		3.	A
			repetition
			rate
			greater
			than 1
			kHz; and
		4	
		4.	Pulse
			width less
			than 100
			ns;
	c.	Tunable 1	pulsed dye
			olifiers and
			rs, having
			following
			_
		character	
		1.	Operating
			at
			wavelengths
			between
			300 nm
			and 800
			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.

	2.	An
	۷.	average
		output
		power
		greater than 30
		W;
	3.	w, A
	3.	
		repetition rate
		greater than 1
		kHz; and
	4.	Pulse
	ч.	width less
		than 100
		ns;
	Note:	110,
		08.c. does
		ohibit single
		oscillators;
d.		d carbon
	dioxid	le 'lasers'
	having	g all of
		llowing
		eteristics:
	1.	Operating
		at
		wavelengths
		between
		9 000 nm
		and 11
	2	000 nm;
	2.	A
		repetition
		rate
		greater than 250
		Hz;
	3.	An
	٥.	average
		output
		power
		greater
		than 500
		W; and
	4.	Pulse
		width of
		less than
		200 ns;
e.		nydrogen
		n shifters

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	d m 1 s:
			40 W;
		b.	or A multiple-transverse mode output having an average power exceeding
 	0.61.00.5		

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 19/06/2010.

		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 a	ex 6B108*  nd c in this entry do not correspond with	Systems specially designed for radar cross section measurement usable for 'missiles' and their subsystems.

Status: Point in time view as at 19/06/2010.

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

Status: Point in time view as at 19/06/2010.

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.

### I.7 NAVIGATION AND AVIONICS

# 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
         I.7A.002.a.
         the
         measurement
```

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

Status: Point in time view as at 19/06/2010.

		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:

following components:

a. An inertial measurement

device
(e.g., an
attitude
and
heading
reference
system,
inertial
reference
unit, or

inertial
navigation
system);

periodically

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

or

Status: Point in time view as at 19/06/2010.

		c. 2.	continuously throughout the flight (e.g., satellite navigation receiver, radar altimeter, and/or Doppler radar); and Integration hardware and software; In 1.7A.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 compa other devices, wh position or orients means of automat tracking celestial or satellites and si designed compon therefor.	ich derive ation by tically bodies pecially
I.7A.006	7A105	Receiving equipm Global Navigation Systems (GNSS; GLONASS, or Grand the characteristics, and designed component therefor:  a. Designed modified in space	n Satellite e.g. GPS, alileo), following nd specially ents ed or d for use

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.

- 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

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

Status: Point in time view as at 19/06/2010.

		steerable antenna) to function in an environment of active or passive countermeasures. Note: I.7A.006.b.2. and I.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.

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		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;

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)

		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

# 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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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.	Having any of the	γ.
	following 1.	An autonomous flight control and navigation capability (e.g., an autopilot with an Inertial Navigation System); or
	2.	Capability of controlled- flight out of the direct vision range involving a human operator (e.g., televisual remote control); and
b.	Having any of the following	y.
	1.	Incorporating an aerosol

dispensing system/ mechanismwith 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

2.

capacity

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

pesticides

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		for crop dusting and dry chemicals for cloud seeding.
		2. An aerosol dispensing system/ mechanism contains all those devices (mechanical, 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 un- installed) excluding civil certified engines with a maximum thrust value greater than 8 890 N (achieved un- installed), 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 1,11 Liquid procket en usable in rocket sy unmanne vehicles, of a rang km, other those spe 1.9A.006 a total im	ropellant orgines, complete estems or ed aerial capable e of 300 or than ecified in .a., having inpulse 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 vector thrust vector consists achieving vector conspecified I.9A.007.	', as designed ropulsion  liners tor on 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 <i>ex</i> 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

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. 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

at an overall

environments

b.

1.

		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.014	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 1.94.025 '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 <sup>4</sup> m and a 'specific modulus' greater than 3,18 × 10 <sup>6</sup> 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 <sub>g</sub> ), 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 [XI goods specified in 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.

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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)

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.]

## **Editorial Information**

X1 Substituted by Corrigendum to Commission Regulation (EC) No 116/2008 of 28 January 2008 amending Council Regulation (EC) No 423/2007 concerning restrictive measures against Iran (Official Journal of the European Union L 35 of 9 February 2008).

# [F2ANNEX IA

'Goods and technology referred to in Article 2(1) point (a)(iii)' INTRODUCTORY NOTES

- 1. Unless otherwise stated, reference numbers used in the column 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 entitled 'Related item from Annex I to Regulation (EC) No 1183/2007' means that the characteristics of the item described in the column

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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)

- '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 1183/2007.

## General Notes

- 1. 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.
- 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 know-how involved and other special circumstances which might establish the prohibited component or components as the principal element of the goods being procured.
- 2. Goods specified in this Annex include both new and used goods. General Technology Note (GTN)(To be read in conjunction with Section IA.B.)
- 1. The sale, supply, transfer or export of 'technology' which is 'required' for the 'development', 'production' or 'use' of goods the sale, supply, transfer or export of which is prohibited in Part A (Goods) below, is prohibited in accordance with the provisions of Section IA.B.
- 2. The 'technology' 'required' for the 'development', 'production' or 'use' of prohibited goods remains under prohibition even when applicable to non-prohibited goods.
- 3. 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 the export of which has been authorised in accordance with Regulation (EC) No 423/2007.
- 4. 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.

## IA.A. GOODS

A0. NUCLEAR MATERIALS, FACILITIES, AND EQUIPMENT

No	Description	Related item from Annex I to Regulation (EC) No 1183/2007
IA.A0.001	Hollow cathode lamps as follows:  a. Iodine hollow cathode lamps with windows in pure silicon or quartz	_

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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)

	b. Uranium hollow cathode lamps	
IA.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
IA.A0.006	Nuclear detection systems for detection, identification or quantification of radioactive materials and radiation of nuclear origin and specially designed components thereof other than those specified in 0A001.j. or 1A004.c.	0A001.j 1A004.c
IA.A0.007	Bellows-sealed valves made of aluminium alloy or stainless steel type 304, 304L or 316L.  Note: This item does not cover bellow valves defined in 0B001.c.6 and 2A226.	0B001.c.6 2A226
IA.A0.012	Shielded enclosures for the manipulation, storage and handling of radioactive substances (Hot cells).	0B006
IA.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, 'MICROORGANISMS' AND 'TOXINS'

No	Description	Related item from Annex
	_	I to Regulation (EC) No
		1183/2007

IA.A1.001	Bis(2-ethylhexyl) phosphoric acid (HDEHP or D2HPA) CAS 298-07-7 solvent in any quantity, with a purity greater than 90 %.	_
IA.A1.002	Fluorine gas (Chemical Abstract Number (CAS): 7782-41-4), with a purity of at least 95 %.	_
IA.A1.005	Electrolytic cells for fluorine production with an output capacity greater than 100 g of fluorine per hour. Note: This item does not cover electrolytic cells defined in item 1B225.	1B225
IA.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
IA.A1.009	F4'Fibrous or filamentary materials' or prepregs, as follows:   a.   Carbon or   aramid 'fibrous   or filamentary   materials'   having either of   the following   characteristics:   1.   A   'specific   modulus'   exceeding   10 × 10 <sup>6</sup>   m; or   2.   A   'specific   tensile   strength'   exceeding   17 × 10 <sup>4</sup>   m;   b.   Glass 'fibrous   or filamentary   materials'   having either of	1C010.a 1C010.b 1C210.a 1C210.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 following characteristics:

- 1. A 'specific modulus' exceeding 3,18 × 10<sup>6</sup>
  - 5,18 ^ 10 m; or
- 2. A 'specific tensile strength' exceeding 76,2 × 10<sup>3</sup>
- c. Thermoset resinimpregnated continuous 'yarns', 'rovings', 'tows' or 'tapes' with a width of 15 mm or less (once prepregs), made from carbon or glass 'fibrous or filamentary materials' other than those specified in IA.A1.010.a. or b.

Note: This item does not cover 'fibrous or filamentary materials' defined in items 1C010.a, 1C010.b, 1C210.a and 1C210.b.]

IA.A1.010

[F4Resin-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 IA.A1.009 above;
- b. Epoxy resin
  'matrix'
  impregnated
  carbon 'fibrous
  or filamentary
  materials'
  (prepregs),

1C010.e. 1C210

	specified in 1C010.a, 1C010.b or 1C010.c, for the repair of aircraft structures or laminates, of which the size of individual sheets does not exceed 50 cm × 90 cm; 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 cover 'fibrous or filamentary materials' defined in item 1C010.e.]	
IA.A1.011	Reinforced silicon carbide ceramic composites usable for nose tips, re-entry vehicles, nozzle flaps, usable in 'missiles', other than those specified in 1C107.	1C107
IA.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
IA.A1.013	Tungsten, tantalum, tungsten carbide, tantalum carbide and alloys, having both of the following characteristics:  a. In forms having a hollow cylindrical	1C226

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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)

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 cover tungsten, tungsten carbide and alloys defined in item 1C226.

## A2.

# MATERIALS PROCESSING

No	Description	Related item from Annex I to Regulation (EC) No 1183/2007
IA.A2.001	Vibration test systems, equipment and components thereof, other than those specified in 2B116:  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 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	2B116

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 specified in a.; Vibration thrusters c. (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.

IA.A2.004

Remote manipulators that can 2B225 be used to provide remote actions in radiochemical separation operations or hot cells, other than those specified in 2B225, having either of the following characteristics:

- A capability of penetrating a hot cell wall of 0,3 m or more (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

Status: Point in time view as at 19/06/2010.

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 more (over the wall operation). Technical note: 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 keypad.	
IA.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 cover centrifugal separators defined in item 2B352.c.	2B352.c
IA.A2.012	Sintered metal filters made of nickel or nickel alloy with more than 40 % nickel by weight.  Note: This item does not cover filters defined in item 2B352.d.	2B352.d

# A3.

# **ELECTRONICS**

No	Description	Related item from Annex
		I to Regulation (EC) No
		1183/2007

IA.A3.001	High voltage direct current power supplies having 3A227	
	both of the following	
	characteristics:	
	a. Capable of	
	continuously	
	producing, over	
	a time period of	
	eight hours, 10	
	kV or more, with	
	output power of 5	
	kW or more with or	
	without sweeping;	
	and	
	b. Current or voltage	
	stability better	
	than 0,1 % over a	
	time period of four	
	hours.	
	Note: This item does not	
	cover power supplies defined	
	in items 0B001.j.5 and	
	3A227.	
IA.A3.002	Mass spectrometers, other 3A233	
	than those specified in	
	3A233 or 0B002.g, capable	
	of measuring ions of 200	
	atomic mass units or more	
	and having a resolution of	
	better than 2 parts in 200,	
	as follows, and ion sources	
	thereof:	
	a. Inductively coupled	
	plasma mass	
	spectrometers (ICP/	
	MS);	
	b. Glow discharge	
	mass spectrometers	
	(GDMS);	
	c. Thermal ionisation	
	mass spectrometers	
	(TIMS);	
	d. (TIMS);	
	(TIMS);	
	d. (TIMS);	
	d. (TIMS); bombardment	
	d. Electron bombardment mass spectrometers	
	d. Electron bombardment mass spectrometers which have a	
	d. Electron bombardment mass spectrometers which have a source chamber constructed	
	d. Electron bombardment mass spectrometers which have a source chamber constructed from, lined with	
	d. Electron bombardment mass spectrometers which have a source chamber constructed	

Status: Point in time view as at 19/06/2010.

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)

by uranium hexafluoride UF<sub>6</sub>'; Molecular beam e. mass spectrometers having either of 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 uranium hexafluoride  $(UF_6)$ '; f. Mass spectrometers equipped with a microfluorination ion source designed for actinides or

actinide fluorides.

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)

# A6. SENSORS AND LASERS

No	Description	Related item from Annex I to Regulation (EC) No 1183/2007
IA.A6.001	Yttrium aluminium garnet (YAG) rods	_
IA.A6.003	Wave front corrector systems for use with a laser beam having a diameter exceeding 4 mm, and specially designed components thereof, including control systems, phase front sensors and 'deformable mirrors' including bimorph mirrors. Note: This item does not cover mirrors defined in 6A004.a, 6A005.e and 6A005.f.	6A003
IA.A6.004	Argon ion 'lasers' having an average output power equal to or greater than 5 W.  Note: This item does not cover argon ion 'lasers' defined in items 0B001.g.5, 6A005 and 6A205.a.	6A005.a.6 6A205.a
IA.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 cover semiconductor 'lasers' defined in	6A005.b

Status: Point in time view as at 19/06/2010.

	items 0B001.h.6 and 6A005.b	
IA.A6.008	Neodymium-doped (other than glass) 'lasers', having an output wavelength greater than 1 000 nm but not exceeding 1 100 nm and output energy exceeding 10 J per pulse.  Note: This item does not cover neodymium-doped (other than glass) 'lasers' defined in item 6A005.c.2.b.	6A005.c.2
IA.A6.010	Radiation-hardened cameras, or lenses thereof, other than those specified in 6A203.c., specially designed, or rated as radiation-hardened, to withstand a total radiation dose greater than $50 \times 10^3$ Gy(silicon) ( $5 \times 10^6$ 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
IA.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:  1. This item does not cover single mode oscillators.	6A205.c

**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. This item does not cover tunable pulsed dye laser amplifiers and oscillators defined in item 6A205.c, 0B001.g.5 and 6A005.	
IA.A6.012	Pulsed carbon dioxide 'lasers' having all of the following characteristics:  1. Operating at wavelengths between 9 000 nm and 11 000 nm;  2. A repetition rate greater than 250 Hz;  3. An average output power greater than 100 W but not exceeding 500 W; and  4. Pulse width less than 200 ns. Note: This item does not cover pulsed carbon dioxide laser amplifiers and oscillators defined in item 6A205.d., 0B001.h.6. and 6A005.d.	6A205.d

# IA.B. TECHNOLOGY

No	Description	Related item from Annex I to Regulation (EC) No 1183/2007
IA.B.001	Technology required for the development, production, or use of the items in Part IA.A. (Goods) above.	-]

# [F4ANNEX II

Goods and technology referred to in Article 3

INTRODUCTORY NOTES

Status: Point in time view as at 19/06/2010.

gislation: There are currently no known outstanding effects for 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)

- 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 428/2009.
- 2. A reference number in the column below entitled 'Related item from Annex I to Regulation (EC) No 428/2009' means that the characteristics of the item described in the 'Description' column 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 428/2009.

#### **GENERAL NOTES**

1. The object of the controls contained in this Annex should not be defeated by the export of any non-controlled goods (including plant) containing one or more controlled components when the controlled component or components is/are the principal element of the goods and can feasibly be removed or used for other purposes.

N.B.: In judging whether the controlled component or components is/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 controlled component or components as the principal element of the goods being procured.

2. Goods specified in this Annex include both new and used goods. **GENERAL TECHNOLOGY NOTE (GTN)**(To be read in conjunction with Section II.B)

- 1. The sale, supply, transfer or export of 'technology' which is 'required' for the 'development', 'production' or 'use' of goods the sale, supply, transfer or export of which is controlled in Part A (Goods) below, is controlled in accordance with the provisions of Section II.B.
- 2. The 'technology' required' for the 'development', 'production' or 'use' of goods under control remains under control even when it is applicable to non-controlled goods.
- 3. Controls 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 controlled or the export of which has been authorised in accordance with Regulation (EC) No 423/2007.
- 4. Controls 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.

#### II.A. GOODS

A0.

#### NUCLEAR MATERIALS, FACILITIES, AND EQUIPMENT

No	Description	Related item from Annex
	_	I to Regulation (EC) No
		428/2009

# Status: Point in time view as at 19/06/2010. 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.A0.002	Faraday isolators in the wavelength range 500 nm – 650 nm	_
II.A0.003	Optical gratings in the wavelength range 500 nm – 650 nm	_
П.А0.004	Optical fibres in the wavelength range 500 nm – 650 nm coated with antireflecting layers in the wavelength range 500 nm – 650 nm and having a core diameter greater than 0,4 mm but not exceeding 2 mm	
П.А0.008	Laser mirrors, other than those specified in 6A005.e, consisting of substrates having a thermal expansion coefficient of 10 <sup>-6</sup> K <sup>-1</sup> or less at 20°C (e.g. fused silica or sapphire).  Note: This item does not cover optical systems specially designed for astronomical applications, except if the mirrors contain fused silica.	0B001.g.5, 6A005.e
II.A0.009	Laser lenses, other than those specified in 6A005.e.2, consisting of substrates having a thermal expansion coefficient of 10- <sup>6</sup> K- <sup>1</sup> or less at 20°C (e.g. fused silica).	0B001.g, 6A005.e.2
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	0B002.f.2, 2B231

Status: Point in time view as at 19/06/2010.

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)

	aspiration flowrate greater than 200m <sup>3</sup> /h. Bellows-sealed, scroll, dry compressor, and bellows-sealed, scroll, dry vacuum pumps.	
II.A0.014	Detonation chambers having a capacity of explosion absorption of more than 2.5kg TNT equivalent.	

A1.

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

No	Descri	ption	Related item from Annex I to Regulation (EC) No 428/2009
II.A1.003	gaskets diamete	naped seals and , having an inner er of 400mm or less, f any of the following ls:	
	a.	Copolymers of vinylidene fluoride having 75 % or more beta crystalline structure	
	b.	without stretching; 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.	Polychlorotrifluoroet (PCTFE, e.g. Kel-F ®);	hylene
	e.	Fluoro-elastomers (e.g., Viton ®, Tecnoflon ®);	
	f.	Polytetrafluoroethyle (PTFE).	ne

II.A1.004	Personal equipment for detecting radiation of nuclear origin, including personal dosimeters.  Note: This item does not cover nuclear detection systems defined in item 1A004.c.	1A004.c
II.A1.006	Catalysts, other than those prohibited by I.1A.003, containing platinum, palladium or rhodium, usable 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.	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.A1.014	Elemental powders of cobalt, neodymium or samarium or alloys or mixtures thereof containing at least 20 % by weight of cobalt, neodymium or samarium, with a particle size less than 200 μm.	
II.A1.015	Pure tributyl phosphate (TBP) [CAS No 126-73-8] or any mixture having a TBP content of more than 5 % by weight.	
II.A1.016	Maraging steel, other than those prohibited by I.1A.030, I.1A.035 or IA.A1.012 Technical Note:	

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)

Maraging steels are iron alloys generally characterised by high nickel, very low carbon content and the use of substitutional elements or precipitates to produce strengthening and age-hardening of the alloy.

## II.A1.017

Metals, metal powders and material as follows:

- a. Tungsten and tungsten alloys, other than those prohibited by I.1A.031, in the form of uniform spherical or atomized particles of 500µm diameter or less with a tungsten content of 97 % by weight or more;
- b. Molybdenum and molybdenum alloys, other than those prohibited by I.1A.031, in the form of uniform spherical or atomized particles of 500 µm diameter or less with a molybdenum content of 97 % by weight or more;
- c. Tungsten materials in the solid form, other than those prohibited by I.1A.037, or IA.A1.013 having material compositions as follows:
  - 1. Tungsten and alloys containing 97 % by weight or more of tungsten;

	2. Copper infiltrated tungsten containing 80 % by weight or more of tungsten; or 3. Silver infiltrated tungsten containing 80 % by weight or more of tungsten.	
II.A1.018	Soft magnetic alloys having a chemical composition as follows:	
	a) Iron content between 30 % and 60 %, and b) Cobalt content between 40 % and 60 %.	
II.A1.019	'Fibrous or filamentary materials' or prepregs, not prohibited by Annex I or by Annex IA (under IA.A1.009, IA.A1.010) of this Regulation, or not specified by Annex I of Regulation (EC) No 428/2009, as follows: a) Carbon 'fibrous or filamentary materials'; Note: II.A1.019a. does not cover fabrics. b) Thermoset resinimpregnated continuous 'yarns', 'rovings', 'tows', or 'tapes', made from carbon 'fibrous or filamentary materials'; c) Polyacrylonitrile (PAN) continuous	

Status: Point in time view as at 19/06/2010.

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)

'yarns', 'rovings', 'tows' or 'tapes'

## A2.

# MATERIALS PROCESSING

No	Description	Related item from Annex I to Regulation (EC) No 428/2009
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 cover 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 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 than 12 500 rpm; 3. Capable of correcting imbalance in two planes or more; and 4. Capable of balancing to a residual specific imbalance 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.	
II.A2.005	Controlled atmosphere heat treatment furnaces, as follows: Furnaces capable of operation at temperatures above 400 °C.	2B226, 2B227
II.A2.006	Oxidation furnaces capable of operation at temperatures above 400 °C Note: This item does not cover tunnel kilns with roller or car conveyance, tunnel kilns with conveyor belt, pusher type kilns or shuttle kilns, specially designed for the production of glass, tableware ceramics or structural ceramics.	2B226, 2B227
II.A2.007	'Pressure transducers', other than those defined in 2B230, capable of measuring absolute pressures at any	2B230

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)

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 uranium hexafluoride (UF<sub>6</sub>)', 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 2 kPa.

Technical Note: For the purposes of 2B230, 'accuracy' includes nonlinearity, hysteresis and repeatability at ambient temperature.

II.A2.008

Liquid-liquid contacting equipment (mixer-settlers, pulsed columns, centrifugal contactors); and liquid distributors, vapour distributors or liquid collectors designed for such equipment, where all surfaces that come in direct contact with the chemical(s) being processed are made from any of the following materials:

2B350.e

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. Alloys with more than 25 % nickel and 20 % chromium by weight;
- 2. Fluoropolymers;
- 3. Glass (including vitrified or enamelled coating 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; or
- 9. Stainless steel.

Technical Note:

'Carbon graphite' is a composition consisting of amorphous carbon and graphite, in which the graphite content is 8% or more by weight.

II.A2.009

Industrial equipment and components, other than those specified in 2B350.d, as follows:

Heat exchangers or condensers with a heat transfer surface area greater than 0,05 m<sup>2</sup>, and less than 30 m<sup>2</sup>; 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

2B350.d

Status: Point in time view as at 19/06/2010.

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)

enamelled coating or glass lining); Graphite or 'carbon 4. 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 cover vehicle radiators. Technical Note: The materials used for gaskets and seals and other implementation of sealing functions do not determine the status of control of the heat exchanger.

II.A2.010

Multiple-seal, and seal-less pumps, other than those specified in 2B350.i, suitable for corrosive fluids, with manufacturer's specified maximum flow-rate greater than 0.6 m<sup>3</sup>/hour, or vacuum pumps with manufacturer's specified maximum flowrate greater than 5 m<sup>3</sup>/hour [measured under standard temperature (273 K or 0 °C) and pressure (101,3kPa) conditions]; and casings (pump bodies), preformed casing liners, impellers, rotors or jet pump nozzles designed for such pumps, in which all surfaces that come in direct contact with the chemical(s) being processed are made from any of the following materials:

1. Alloys with more than 25 % nickel and 20 % chromium by weight;

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)

	<ol> <li>Ceramics;</li> <li>Ferrosilicon;</li> <li>Fluoropolymers;</li> <li>Glass (including vitrified or enamelled coatings or glass lining);</li> <li>Graphite or 'carbon graphite';</li> <li>Nickel or alloys with more than 40 % nickel by weight;</li> <li>Tantalum or tantalum alloys;</li> <li>Titanium or titanium alloys;</li> <li>Zirconium or zirconium or zirconium alloys;</li> <li>Niobium (columbium) or</li> </ol>	
	niobium alloys; 12. Stainless steel; or 13. Aluminium alloys.	
	Technical Note: The materials used for gaskets and seals and other implementation of sealing functions do not determine the status of control of the pump.	
II.A2.013	Spin-forming machines and flow-forming machines, other than those controlled by 2B009, or prohibited by I.2A.009 or I.2A.020, having a roller force of more than 60 kN and specially designed components therefor.  Technical Note:  For the purpose of II.A2.013, machines combining the functions of spin-forming and flow-forming are regarded as flow-forming machines.	
	Δ3	

## A3.

# **ELECTRONICS**

No	Description	Related item from Annex
	_	I to Regulation (EC) No
		428/2009

Status: Point in time view as at 19/06/2010.

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.A3.003	Frequency changers or generators, other than those prohibited by I.OA.002.b.13 or I.3A.004, having all of the following characteristics, and specially designed components and software therefor:  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; and  c. Frequency control better (less) than 0,1 %.  Technical Note: Frequency changers in II.A3.003 are also known as converters or inverters.	
II.A3.004	Spectrometers and diffractometers, designed for the indicative test or quantitative analysis of the elemental composition of metals or alloys without chemical decomposition of the material.	

A6.

# SENSORS AND LASERS

No	Description	Related item from Annex I to Regulation (EC) No 428/2009
II.A6.002	Optical equipment and components, other than those specified in 6A002, 6A004.b as follows: Infrared optics in the wavelength range 9 000 nm – 17 000 nm and components thereof, including cadmium telluride (CdTe) components.	6A002, 6A004.b

II.A6.005	Semiconductor 'lasers' and components thereof, 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 cover 'lasers' defined in items 0B001.g.5, 0B001.h.6 and 6A005.b.  3. This item does not cover 'laser' diodes with a wavelength in the range 1 200 nm - 2 000 nm.	6A005.b
II.A6.007	Solid state 'tunable' 'lasers' and specially designed components thereof as follows:  a. Titanium-sapphire lasers,  b. Alexandrite lasers.  Note: This item does not cover titanium-sapphire and alexandrite lasers defined in items 0B001.g.5, 0B001.h.6 and 6A005.c.1.	6A005.c.1
II.A6.009	Components of acousto- optics, as follows: a. Framing tubes and solid-state imaging devices	6A203.b.4.c

Status: Point in time view as at 19/06/2010.

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)

having a recurrence frequency equal to or exceeding 1kHz;
b. Recurrence frequency supplies;
c. Pockels cells.

# A7.

# NAVIGATION AND AVIONICS

No	Description	Related item from Annex I to Regulation (EC) No 428/2009
II.A7.001	Inertial navigation systems and specially designed components thereof, as follows:  I. Inertial navigation systems which are certified for use on 'civil aircraft' by civil authorities of a State participating in the Wassenaar Arrangement, and specially designed components thereof, as follows:  a. Inertial navigation systems (INS) (gimballed or strapdown) and inertial equipment designed for 'aircraft', land vehicle, vessels (surface or underwater or 'spacecraft' for attitude, guidance	

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 control,
having
any of the
following
characteristics,
and
specially
designed
components
thereof:
         Navigation
1.
         error
         (free
         inertial)
         subsequent
         to
         normal
         alignment
         of
         0,8
         nautical
         mile
         per
         ĥour
         (nm/
         hr)
         'Circular
         Error
         Probable'
         (CEP)
         or
         less
         (better);
         or
2.
         Specified
         to
         function
         at
         linear
         acceleration
         levels
         exceeding
         10
         g;
Hybrid
Inertial
Navigation
Systems
embedded
with
Global
Navigation
Satellite
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b.

Status: Point in time view as at 19/06/2010.

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(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 up to four minutes, of less (better) than 10 metres 'Circular Error Probable' (CEP); Inertial Equipment for Azimuth, Heading, or North Pointing having any of the following characteristics, and specially designed components thereof:

c.

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. 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 a nonoperating shock level of at least 900 g at a duration of at least 1 msec. Note: The parameters of I.a. and I.b. are applicable with any of the following environmental conditions:

Status: Point in time view as at 19/06/2010.

```
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 a half
         hours per
         axis in
         each of
         the three
         perpendicular
         axes,
         when the
         random
         vibration
         meets the
        following:
         a.
                  constant
                  power
                  spectral
                  density
                  (PSD)
                  value
                  of
                  0,04
                  over
                  а
                  frequency
                  interval
                  of
                  Ĭ5
                  to
                  000
                  and
         b.
                  The
                  P$D
                  attenuates
                  with
                  frequency
```

```
from
                  to
                  over
                  frequency
                  interval
                  from
                  000
                  to
                  2
                  000
2.
         A roll and
         yaw rate
         equal to
         or greater
         than
         +2,62
         radian/s
         (150 deg/
         s); or
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.
```

II.

Status: Point in time view as at 19/06/2010.

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. 'Circular Error Probable' (CEP) -In acircular normal distribution, the radius of the circle containing 50 percent of the individual measurements being made, or the radius of the circle within which there is a 50 percent probability of being located. Theodolite systems incorporating

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 thereof. III. Inertial or other equipment using accelerometers specified in 7A001 or 7A101, where such accelerometers are specially designed and

inertial equipment specially designed for civil surveying purposes 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)

developed as MWD (Measurement While Drilling) sensors for use in downhole well services operations.

A9.

#### AEROSPACE AND PROPULSION

Explosive bolts.
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#### II.B. TECHNOLOGY

No	Description	Related item from Annex I to Regulation (EC) No 428/2009
II.B.001	Technology required for the development, production or use of the items in Part II A. (Goods) above.  Technical Note:  Regulation (EC) No 423/2007, Article 1(d) the term 'technology' includes software.	

# [F1ANNEX III

Web sites for information on the competent authorities referred to in Articles 3(4), 3(5), 4a, 5(3), 6, 8, 9, 10(1), 10(2), 11a, 11b, 13(1) and 17, and address for notifications to the European Commission

**BELGIUM** 

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

http://www.mfa.government.bg 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

Status: Point in time view as at 19/06/2010.

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)

#### **ESTONIA**

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

**IRELAND** 

http://foreign-affairs.net/home/index.aspx?id=28519

**GREECE** 

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

**SPAIN** 

http://www.maec.es/es/MenuPpal/Asuntos/Sanciones%20Internacionales/Paginas/Sanciones %20Internacionales.aspx

**FRANCE** 

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

**ITALY** 

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

**CYPRUS** 

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

HUNGARY

http://www.kulugyminiszterium.hu/kum/hu/bal/Kulpolitikank/nemzetkozi szankciok/ **MALTA** 

http://www.doi.gov.mt/EN/bodies/boards/sanctions monitoring.asp

**NÉTHERLANDS** 

http://www.minbuza.nl/sancties

**AUSTRIA** 

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

**POLAND** 

http://www.msz.gov.pl

**PORTUGAL** 

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

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)

#### **FINLAND**

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

http://www.ud.se/sanktioner UNITED KINGDOM

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 (CFSP)

Unit A.2. 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]

#### IF8ANNEX IV

List of persons, entities and bodies referred to in Article 7(1)

#### **Textual Amendments**

**F8** Substituted by Commission Regulation (EC) No 219/2008 of 11 March 2008 amending Council Regulation (EC) No 423/2007 concerning restrictive measures against Iran.

# A.Legal persons, entities and bodies

- (1) Abzar Boresh Kaveh Co. (*alias* BK Co.). Date of UN designation: 3.3.2008. Other information: involved in the production of centrifuge components.
- (2) Ammunition and Metallurgy Industries Group (*alias* (a) AMIG, (b) Ammunition Industries Group). Date of UN designation: 24.3.2007. Other information: (a) AMIG controls 7th of Tir, (b) AMIG is owned and controlled by the Defence Industries Organisation (DIO).
- (3) Atomic Energy Organisation of Iran (AEOI). Date of UN designation: 23.12.2006. Other information: Involved in Iran's nuclear programme.
- (4) Bank Sepah and Bank Sepah International. Date of UN designation: 24.3.2007. 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).
- (5) Barzagani Tejarat Tavanmad Saccal companies. Date of UN designation: 3.3.2008. Other information: (a) subsidiary of Saccal System companies, (b) this company tried to purchase sensitive goods for an entity listed in resolution 1737 (2006).
- (6) Cruise Missile Industry Group (*alias* Naval Defence Missile Industry Group). Date of UN designation: 24.3.2007.
- (7) Defence Industries Organisation (DIO). Date of UN designation: 23.12.2006. 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.
- (8) Electro Sanam Company (*alias* (a) E. S. Co., (b) E. X. Co.). Date of UN designation: 3.3.2008. Other information: AIO front-company, involved in the ballistic missile programme.
- (9) Esfahan Nuclear Fuel Research and Production Centre (NFRPC) and Esfahan Nuclear Technology Centre (ENTC). Date of UN designation: 24.3.2007. Other information: They are parts of the Atomic Energy Organisation of Iran's (AEOI) Nuclear Fuel Production and Procurement Company.
- (10) Ettehad Technical Group. Date of UN designation: 3.3.2008. Other information: AIO front-company, involved in the ballistic missile programme.
- (11) Fajr Industrial Group. Date of UN designation: 23.12.2006. Other information: (a) Formerly Instrumentation Factory Plant, (b) Subordinate entity of AIO, (c) Involved in Iran's ballistic missile programme.
- Farayand Technique. Date of UN designation: 23.12.2006. Other information: (a) Involved in Iran's nuclear programme (centrifuge programme), (b) Identified in IAEA reports.
- (13) Industrial Factories of Precision (IFP) Machinery (*alias* Instrumentation Factories Plant). Date of UN designation: 3.3.2008. Other information: used by AIO for some acquisition attempts.
- (14) Jabber Ibn Hayan. Date of EU designation: 24.4.2007 (UN: 3.3.2008). Other information: AEOI laboratory involved in fuel-cycle activities.
- Joza Industrial Co. Date of UN designation: 3.3.2008. Other information: AIO front-company, involved in the ballistic missile programme.
- (16) Kala-Electric (*alias* Kalaye Electric). Date of UN designation: 23.12.2006. Other information: (a) Provider for PFEP Natanz, (b) Involved in Iran's nuclear programme.
- (17) Karaj Nuclear Research Centre. Date of UN designation: 24.3.2007. Other information: Part of AEOI's research division.
- (18) Kavoshyar Company. Date of UN designation: 24.3.2007. Other information: Subsidiary company of AEOI.
- (19) Khorasan Metallurgy Industries. Date of UN designation: 3.3.2008. Other information: (a) subsidiary of the Ammunition Industries Group (AMIG) which depends on DIO, (b) involved in the production of centrifuge components.

- (20) Mesbah Energy Company. Date of UN designation: 23.12.2006. Other information: (a) Provider for A40 research reactor Arak, (b) Involved in Iran's nuclear programme.
- (21) Niru Battery Manufacturing Company. Date of UN designation: 3.3.2008. Other information: (a) subsidiary of the DIO, (b) its role is to manufacture power units for the Iranian military including missile systems.
- Novin Energy Company (*alias* Pars Novin). Date of UN designation: 24.3.2007. Other information: It operates within AEOI.
- (23) Parchin Chemical Industries. Date of UN designation: 24.3.2007. Other information: Branch of DIO.
- Pars Aviation Services Company. Date of UN designation: 24.3.2007. Other information: maintains aircraft.
- Pars Trash Company. Date of UN designation: 23.12.2006. Other information: (a) Involved in Iran's nuclear programme (centrifuge programme), (b) Identified in IAEA reports.
- (26) Pishgam (Pioneer) Energy Industries. Date of UN designation: 3.3.2008. Other information: has participated in construction of the Uranium Conversion Facility at Esfahan
- Qods Aeronautics Industries. Date of UN designation: 24.3.2007. Other information: It produces unmanned aerial vehicles (UAVs), parachutes, paragliders, paramotors, etc.
- (28) Sanam Industrial Group. Date of UN designation: 24.3.2007. Other information: subordinate to AIO.
- (29) Safety Equipment Procurement (SEP). Date of UN designation: 3.3.2008. Other information: AIO front-company, involved in the ballistic missile programme.
- (30) 7th of Tir. Date of UN designation: 23.12.2006. Other information: (a) Subordinate of DIO, widely recognised as being directly involved in Iran's nuclear programme, (b) Involved in Iran's nuclear programme.
- (31) Shahid Bagheri Industrial Group (SBIG). Date of UN designation: 23.12.2006. Other information: (a) Subordinate entity of AIO, (b) Involved in Iran's ballistic missile programme.
- (32) Shahid Hemmat Industrial Group (SHIG). Date of UN designation: 23.12.2006. Other information: (a) subordinate entity of AIO, (b) Involved in Iran's ballistic missile programme.
- (33) Sho'a' Aviation. Date of UN designation: 24.3.2007. Other information: It produces microlights.
- (34) TAMAS Company. Date of EU designation: 24.4.2007 (UN: 3.3.2008). Other information: (a) involved in enrichment-related activities, (b) TAMAS is an overarching body, under which four subsidiaries have been established, including one for uranium extraction to concentration and another in charge of uranium processing, enrichment and waste.

Status: Point in time view as at 19/06/2010.

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)

- (35) Ya Mahdi Industries Group. Date of UN designation: 24.3.2007. Other information: subordinate to AIO.
- [F9(36) Amin Industrial Complex (*alias* (a) Amin Industrial Compound, (b) Amin Industrial Company). Date of UN designation: 9.6.2010. Address: (a) P.O. Box 91735-549, Mashad, Iran; (b) Amin Industrial Estate, Khalage Rd., Seyedi District, Mashad, Iran; (c) Kaveh Complex, Khalaj Rd., Seyedi St., Mashad, Iran Other information: (a) Amin Industrial Complex sought temperature controllers which may be used in nuclear research and operational/production facilities, (b) Amin Industrial Complex is owned or controlled by, or acts on behalf of, the Defense Industries Organization (DIO), which was designated in UN Security Council Resolution 1737 (2006).

#### **Textual Amendments**

- F9 Inserted by Commission Regulation (EU) No 532/2010 of 18 June 2010 amending Council Regulation (EC) No 423/2007 concerning restrictive measures against Iran.
- (37) Armament Industries Group. Date of EU designation: 24.4.2007 (UN: 9.6.2010). Address: (a) Sepah Islam Road, Karaj Special Road Km 10, Iran; (b) Pasdaran Ave., P.O. Box 19585/777, Tehran, Iran. Other information: (a) Armament Industries Group (AIG) manufacturers and services a variety of small arms and light weapons, including large- and medium-calibre guns and related technology, (b) AIG conducts the majority of its procurement activity through Hadid Industries Complex.
- (38) Defense Technology and Science Research Center. Date of EU designation: 24.4.2007 (UN: 9.6.2010). Address: Pasdaran Ave, PO Box 19585/777, Tehran, Iran. Other information: Defense Technology and Science Research Center (DTSRC) is owned or controlled by, or acts on behalf of, Iran's Ministry of Defense and Armed Forces Logistics (MODAFL), which oversees Iran's defence R&D, production, maintenance, exports, and procurement.
- (39) Doostan International Company. Date of UN designation: 9.6.2010. Other information: Doostan International Company (DICO) supplies elements to Iran's ballistic missile program.
- (40) Farasakht Industries. Date of UN designation: 9.6.2010. Address: P.O. Box 83145-311, Kilometer 28, Esfahan-Tehran Freeway, Shahin Shahr, Esfahan, Iran. Other information: Farasakht Industries is owned or controlled by, or acts on behalf of, the Iran Aircraft Manufacturing Company, which in turn is owned or controlled by MODAFL.
- (41) Fater (or Faater) Institute. Date of UN designation: 9.6.2010. Other information: (a) Khatam al-Anbiya (KAA) subsidiary, (b) Fater has worked with foreign suppliers, likely on behalf of other KAA companies on IRGC projects in Iran, (c) Owned or controlled by, or acting on behalf of, the Islamic Revolutionary Guard Corps.
- (42) First East Export Bank, P.L.C. Date of UN designation: 9.6.2010. Address: Unit Level 10 (B1), Main Office Tower, Financial Park Labuan, Jalan Merdeka, 87000 WP Labuan, Malaysia. Other information: (a) First East Export Bank, PLC is owned or controlled by, or acts on behalf of, Bank Mellat, (b) Over the last seven years, Bank Mellat has facilitated hundreds of millions of dollars in transactions for Iranian nuclear, missile, and defense entities, (c) Business Registration Number LL06889 (Malaysia).

- (43) Gharagahe Sazandegi Ghaem. Date of UN designation: 9.6.2010. Other information: Owned or controlled by, or acting on behalf of, the Islamic Revolutionary Guard Corps. Gharagahe Sazandegi Ghaem is owned or controlled by KAA (see below).
- (44) Ghorb Karbala. Date of UN designation: 9.6.2010. Other information: Owned or controlled by, or acting on behalf of, the Islamic Revolutionary Guard Corps. Ghorb Karbala is owned or controlled by KAA (see below).
- (45) Ghorb Nooh. Date of UN designation: 9.6.2010. Other information: Owned or controlled by, or acting on behalf of, the Islamic Revolutionary Guard Corps. Ghorb Nooh is owned or controlled by KAA (see below).
- (46) Hara Company. Date of UN designation: 9.6.2010. Other information: Owned or controlled by, or acting on behalf of, the Islamic Revolutionary Guard Corps. Owned or controlled by Ghorb Nooh.
- (47) Imensazan Consultant Engineers Institute. Date of UN designation: 9.6.2010. Other information: Owned or controlled by, or acting on behalf of, the Islamic Revolutionary Guard Corps. Owned or controlled by, or acts on behalf of, KAA (see below).
- (48) Irano Hind Shipping Company. Date of UN designation: 9.6.2010. Address: (a) 18 Mehrshad Street, Sadaghat Street, Opposite of Park Mellat, Vali-e-Asr Ave., Tehran, Iran, (b) 265, Next to Mehrshad, Sedaghat St., Opposite of Mellat Park, Vali Asr Ave., Tehran 1A001, Iran. Other information: Owned or controlled by, or acting on behalf of, the Islamic Republic of Iran Shipping Lines.
- (49) IRISL Benelux NV. Date of UN designation: 9.6.2010. Address: Noorderlaan 139, B-2030, Antwerp, Belgium. Other information: (a) V.A.T. Number BE480224531 (Belgium), (b) Other information: Owned or controlled by, or acting on behalf of, the Islamic Republic of Iran Shipping Lines.
- (50) Kaveh Cutting Tools Company. Date of UN designation: 9.6.2010. Address: (a) 3rd Km of Khalaj Road, Seyyedi Street, Mashad 91638, Iran, (b) Km 4 of Khalaj Road, End of Seyedi Street, Mashad, Iran, (c) P.O. Box 91735-549, Mashad, Iran, (d) Khalaj Rd., End of Seyyedi Alley, Mashad, Iran; (e) Moqan St., Pasdaran St., Pasdaran Cross Rd., Tehran, Iran. Other information: Kaveh Cutting Tools Company is owned or controlled by, or acts on behalf of, the DIO.
- (51) Khatam al-Anbiya Construction Headquarters. Date of EU designation: 24.6.2008 (UN: 9.6.2010). Other information: (a) Khatam al-Anbiya Construction Headquarters (KAA) is an Islamic Revolutionary Guard Corps (IRGC)-owned company involved in large scale civil and military construction projects and other engineering activities. It undertakes a significant amount of work on Passive Defense Organization projects. In particular, KAA subsidiaries were heavily involved in the construction of the uranium enrichment site at Qom/Fordow.
- M. Babaie Industries. Date of UN designation: 9.6.2010. Address: P.O. Box 16535-76, Tehran, 16548, Iran. Other information: (a) M. Babaie Industries is subordinate to Shahid Ahmad Kazemi Industries Group (formally the Air Defense Missile Industries Group) of Iran's Aerospace Industries Organization (AIO), (b) AIO controls the missile organizations Shahid Hemmat Industrial Group (SHIG) and the Shahid Bakeri Industrial Group (SBIG), both of which were designated in resolution 1737 (2006).

Status: Point in time view as at 19/06/2010.

- (53) Makin. Date of UN designation: 9.6.2010. Other information: Owned or controlled by, or acting on behalf of, the Islamic Revolutionary Guard Corps. Makin is owned or controlled by or acting on behalf of KAA, and is a subsidiary of KAA.
- Malek Ashtar University. Date of EU designation: 24.6.2008 (UN: 9.6.2010). Address: Corner of Imam Ali Highway and Babaei Highway, Tehran, Iran. Other information: (a) a subordinate of the DTRSC within MODAFL, (b) this includes research groups previously falling under the Physics Research Center (PHRC), (c) IAEA inspectors have not been allowed to interview staff or see documents under the control of this organization to resolve the outstanding issue of the possible military dimension to Iran's nuclear program.
- (55) Ministry of Defense Logistics Export. Date of EU designation: 24.6.2008 (UN: 9.6.2010). Address: (a) PO Box 16315-189, Tehran, Iran; (b) located on the west side of Dabestan Street, Abbas Abad District, Tehran, Iran. Other information: Ministry of Defense Logistics Export (MODLEX) sells Iranian-produced arms to customers around the world in contravention of UN Security Council Resolution 1747 (2007), which prohibits Iran from selling arms or related materiel.
- (56) Mizan Machinery Manufacturing (*alias* 3MG). Date of EU designation: 24.6.2008 (UN: 9.6.2010). Address: O. Box 16595-365, Tehran, Iran. Other information: Mizan Machinery Manufacturing (3M) is owned or controlled by, or acts on behalf of, SHIG.
- Modern Industries Technique Company (*alias* (a) Rahkar Company, (b) Rahkar Industries, (c) Rahkar Sanaye Company, (d) Rahkar Sanaye Novin). Date of UN designation: 9.6.2010. Address: Arak, Iran. Other information: (a) Modern Industries Technique Company (MITEC) is responsible for design and construction of the IR-40 heavy water reactor in Arak, (b) MITEC has spearheaded procurement for the construction of the IR-40 heavy water reactor.
- Nuclear Research Center for Agriculture and Medicine (*alias* (a) Center for Agricultural Research and Nuclear Medicine, (b) Karaji Agricultural and Medical Research Center). Date of UN designation: 9.6.2010. Address: P.O. Box 31585-4395, Karaj, Iran. Other information: (a) the Nuclear Research Center for Agriculture and Medicine (NFRPC) is a large research component of the Atomic Energy Organization of Iran (AEOI), which was designated in UN Security Council Resolution 1737 (2006), (b) the NFRPC is AEOI's center for the development of nuclear fuel and is involved in enrichment-related activities.
- (59) Omran Sahel. Date of UN designation: 9.6.2010. Other information: Owned or controlled by, or acting on behalf of, the Islamic Revolutionary Guard Corps. Owned or controlled by Ghorb Nooh.
- (60) Oriental Oil Kish. Date of UN designation: 9.6.2010. Other information: Owned or controlled by, or acting on behalf of, the Islamic Revolutionary Guard Corps. Oriental Oil Kish is owned or controlled by or acting on behalf of KAA.
- (61) Pejman Industrial Services Corporation. Date of UN designation: 9.6.2010. Address: P.O. Box 16785-195, Tehran, Iran. Other information: Pejman Industrial Services Corporation is owned or controlled by, or acts on behalf of, SBIG.
- (62) Rah Sahel. Date of UN designation: 9.6.2010. Other information: Owned or controlled by, or acting on behalf of, the Islamic Revolutionary Guard Corps. Rah Sahel is owned or controlled by or acting on behalf of KAA.

- (63) Rahab Engineering Institute. Date of UN designation: 9.6.2010. Other information: Owned or controlled by, or acting on behalf of, the Islamic Revolutionary Guard Corps. Rahab is owned or controlled by or acting on behalf of KAA, and is a subsidiary of KAA.
- (64) Sabalan Company. Date of UN designation: 9.6.2010. Address: Damavand Tehran Highway, Tehran, Iran. Other information: Sabalan is a cover name for SHIG.
- (65) Sahand Aluminum Parts Industrial Company (SAPICO). Date of UN designation: 9.6.2010. Address: Damavand Tehran Highway, Tehran, Iran. Other information: SAPICO is a cover name for SHIG.
- (66) Sahel Consultant Engineers. Date of UN designation: 9.6.2010. Other information: Owned or controlled by, or acting on behalf of, the Islamic Revolutionary Guard Corps. Owned or controlled by Ghorb Nooh.
- (67) Sepanir. Date of UN designation: 9.6.2010. Other information: Owned or controlled by, or acting on behalf of, the Islamic Revolutionary Guard Corps. Sepanir is owned or controlled by or acting on behalf of KAA.
- (68) Sepasad Engineering Company. Date of UN designation: 9.6.2010. Other information: Owned or controlled by, or acting on behalf of, the Islamic Revolutionary Guard Corps. Sepasad Engineering Company is owned or controlled by or acting on behalf of KAA.
- (69) Shahid Karrazi Industries. Date of UN designation: 9.6.2010. Address: Tehran, Iran. Other information: Shahid Karrazi Industries is owned or controlled by, or act on behalf of, SBIG.
- (70) Shahid Satarri Industries (*alias* Shahid Sattari Group Equipment Industries). Date of UN designation: 9.6.2010. Address: Southeast Tehran, Iran. Other information: Shahid Sattari Industries is owned or controlled by, or acts on behalf of, SBIG.
- (71) Shahid Sayyade Shirazi Industries. Date of UN designation: 9.6.2010. Address: (a) Next to Nirou Battery Mfg. Co, Shahid Babaii Expressway, Nobonyad Square, Tehran, Iran, (b) Pasdaran St., P.O. Box 16765, Tehran 1835, Iran, (c) Babaei Highway Next to Niru M.F.G, Tehran, Iran. Other information: Shahid Sayyade Shirazi Industries (SSSI) is owned or controlled by, or acts on behalf of, the DIO.
- (72) South Shipping Line Iran (SSL). Date of UN designation: 9.6.2010. Address: (a) Apt. No. 7, 3rd Floor, No. 2, 4th Alley, Gandi Ave., Tehran, Iran, (b) Qaem Magham Farahani St., Tehran, Iran. Other information: Owned or controlled by, or acting on behalf of, the Islamic Republic of Iran Shipping Lines.
- (73) Special Industries Group. Date of EU designation: 24.4.2007 (UN: 9.6.2010). Address: Pasdaran Avenue, PO Box 19585/777, Tehran, Iran. Other information: Special Industries Group (SIG) is a subordinate of DIO.
- (74) Tiz Pars. Date of UN designation: 9.6.2010. Address: Damavand Tehran Highway, Tehran, Iran. Other information: (a) Tiz Pars is a cover name for SHIG, (b) Between April and July 2007, Tiz Pars attempted to procure a five axis laser welding and cutting machine, which could make a material contribution to Iran's missile program, on behalf of SHIG.
- (75) Yazd Metallurgy Industries (*alias* (a) Yazd Ammunition Manufacturing and Metallurgy Industries, (b) Directorate of Yazd Ammunition and Metallurgy

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)

Industries.). Date of UN designation: 9.6.2010. Address: (a) Pasdaran Avenue, Next to Telecommunication Industry, Tehran 16588, Iran, (b) Postal Box 89195/878, Yazd, Iran, (c) P.O. Box 89195-678, Yazd, Iran, (d) Km 5 of Taft Road, Yazd, Iran. Other information: Metallurgy Industries (YMI) is a subordinate of DIO.]

- B. Natural persons
- (1) Fereidoun **Abbasi-Davani**. Date of UN designation: 24.3.2007. 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.
- Dawood **Agha-Jani**. Function: Head of the PFEP Natanz. Date of UN designation: 23.12.2006. 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. Date of UN designation: 24.3.2007.
- (4) Amir Moayyed **Alai**. Date of EU designation: 24.4.2007 (UN: 3.3.2008). Other information: involved in managing the assembly and engineering of centrifuges.
- (5) Behman **Asgarpour**. Function: Operational Manager (Arak). Date of UN designation: 23.12.2006. Other information: Person involved in Iran's nuclear programme.
- (6) Mohammad Fedai **Ashiani**. Date of EU designation: 24.4.2007 (UN: 3.3.2008). Other information: involved in the production of ammonium uranyl carbonate and management of the Natanz enrichment complex.
- (7) Abbas Rezaee **Ashtiani**. Date of UN designation: 3.3.2008. Other information: a senior official at the AEOI Office of Exploration and Mining Affairs.
- (8) Bahmanyar Morteza **Bahmanyar**. Function: Head of Finance & Budget Dept, Aerospace Industries Organisation (AIO). Date of UN designation: 23.12.2006. Other information: Person involved in Iran's ballistic missile programme.
- (9) Haleh **Bakhtiar**. Date of EU designation: 24.4.2007 (UN: 3.3.2008). Other information: involved in the production of magnesium at a concentration of 99.9 %.
- (10) Morteza **Behzad**. Date of EU designation: 24.4.2007 (UN: 3.3.2008). Other information: involved in making centrifuge components.
- (11) Ahmad Vahid **Dastjerdi**. Function: Head of the Aerospace Industries Organisation (AIO). Date of UN designation: 23.12.2006. Other information: Person involved in Iran's ballistic missile programme.
- (12) Ahmad **Derakhshandeh**. Function: Chairman and Managing Director of Bank Sepah. Date of UN designation: 24.3.2007.
- (13) Mohammad **Eslami**. Title: Dr. Date of UN designation: 3.3.2008. Other information: Head of Defence Industries Training and Research Institute.
- (14) Reza-Gholi **Esmaeli**. Function: Head of Trade & International Affairs Dept, Aerospace Industries Organisation (AIO). Date of UN designation: 23.12.2006. Other information: Person involved in Iran's ballistic missile programme.
- (15) Mohsen **Fakhrizadeh-Mahabadi**. Date of UN designation: 24.3.2007. Other information: Senior MODAFL scientist and former head of the Physics Research Centre (PHRC).

- (16) Mohammad **Hejazi**. Title: Brigadier General. Function: Commander of Bassij resistance force. Date of UN designation: 24.3.2007.
- (17) Mohsen **Hojati**. Function: Head of Fajr Industrial Group. Date of UN designation: 24.3.2007.
- (18) Seyyed Hussein **Hosseini**. Date of EU designation: 24.4.2007 (UN: 3.3.2008). Other information: AEOI official involved in the heavy water research reactor project at Arak.
- (19) M. Javad **Karimi Sabet**. Date of EU designation: 24.4.2007 (UN: 3.3.2008). Other information: Head of Novin Energy Company, which is designated under resolution 1747 (2007).
- (20) Mehrdada Akhlaghi **Ketabachi**. Function: Head of Shahid Bagheri Industrial Group (SBIG). Date of UN designation: 24.3.2007.
- (21) Ali Hajinia **Leilabadi**. Function: Director General of Mesbah Energy Company. Date of UN designation: 23.12.2006. Other information: Person involved in Iran's nuclear programme.
- (22) Naser **Maleki**. Function: Head of Shahid Hemmat Industrial Group (SHIG). Date of UN designation: 24.3.2007. 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.
- (23) Hamid-Reza **Mohajerani**. Date of EU designation: 24.4.2007 (UN: 3.3.2008). Other information: involved in production management at the Uranium Conversion Facility (UCF) at Esfahan.
- Jafar **Mohammadi**. Function: Technical Adviser to the Atomic Energy Organisation of Iran (AEOI) (in charge of managing the production of valves for centrifuges). Date of UN designation: 23.12.2006. Other information: Person involved in Iran's nuclear programme.
- (25) Ehsan **Monajemi**. Function: Construction Project Manager, Natanz. Date of UN designation: 23.12.2006. Other information: Person involved in Iran's nuclear programme.
- (26) Mohammad Reza **Naqdi**. Title: Brigadier General. Date of UN designation: 3.3.2008. Other information: former Deputy Chief of Armed Forces General Staff for Logistics and Industrial Research/Head of State Anti-Smuggling Headquarters, engaged in efforts to get round the sanctions imposed by resolutions 1737 (2006) and 1747 (2007).
- Houshang **Nobari**. Date of EU designation: 24.4.2007 (UN: 3.3.2008). Other information: involved in the management of the Natanz enrichment complex.
- (28) Mohammad Mehdi Nejad **Nouri**. Title: Lt Gen. Function: Rector of Malek Ashtar University of Defence Technology. Date of UN designation: 23.12.2006. Other information: The chemistry department of Ashtar University of Defence Technology is affiliated to MODALF and has conducted experiments on beryllium. Person involved in Iran's nuclear programme.
- (29) Mohammad **Qannadi**. Function: AEOI Vice President for Research & Development. Date of UN designation: 23.12.2006. Other information: Person involved in Iran's nuclear programme.

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) Amir **Rahimi**. Function: Head of Esfahan Nuclear Fuel Research and Production Center. Date of UN designation: 24.3.2007. 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.
- (31) Abbas **Rashidi**. Date of EU designation: 24.4.2007 (UN: 3.3.2008). Other information: involved in enrichment work at Natanz.
- (32) Morteza **Rezaie**. Title: Brigadier General. Function: Deputy Commander of IRGC. Date of UN designation: 24.3.2007.
- (33) Morteza **Safari**. Title: Rear Admiral. Function: Commander of IRGC Navy. Date of UN designation: 24.3.2007.
- Yahya Rahim **Safavi**. Title: Maj Gen. Function: Commander, IRGC (Pasdaran). Date of UN designation: 23.12.2006. Other information: Person involved in both Iran's nuclear and ballistic missile programmes.
- (35) Seyed Jaber **Safdari**. Date of UN designation: 24.3.2007. Other information: Manager of the Natanz Enrichment Facilities.
- (36) Hosein **Salimi**. Title: General. Function: Commander of the Air Force, IRGC (Pasdaran). Date of UN designation: 23.12.2006. Other information: Person involved in Iran's ballistic missile programme.
- (37) Qasem **Soleimani**. Title: Brigadier General. Function: Commander of Qods force. Date of UN designation: 24.3.2007.
- (38) Ghasem **Soleymani**. Date of UN designation: 3.3.2008. Other information: Director of Uranium Mining Operations at the Saghand Uranium Mine.
- (39) Mohammad Reza **Zahedi**. Title: Brigadier General. Function: Commander of IRGC Ground Forces. Date of UN designation: 24.3.2007.
- (40) General **Zolqadr**. Function: Deputy Interior Minister for Security Affairs, IRGC officer. Date of UN designation: 24.3.2007.
- [F9(41)] Javad Rahiqi. Date of EU designation: 24.4.2007 (UN: 9.6.2010). Date of birth: 24.4.1954. Place of birth: Marshad. Function: Head of the Atomic Energy Organization of Iran (AEOI) Esfahan Nuclear Technology Center.]]

### [F10ANNEX V

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

#### **Textual Amendments**

**F10** Substituted by Council Regulation (EC) No 1100/2009 of 17 November 2009 implementing Article 7(2) of Regulation (EC) No 423/2007 concerning restrictive measures against Iran and repealing Decision 2008/475/EC.

#### A.Natural persons

	Name	Identifying information	Reasons	Date of listing
1.	Reza AGHAZADEH	DoB: 15/03/1949 Passport number: S4409483 valid 26/04/2000 - 27/04/2010 Issued: Tehran, Diplomatic passport number: D9001950, issued on 22/01/2008 valid until 21/01/2013, Place of birth: Khoy	Former Head of the Atomic Energy Organisation of Iran (AEOI). The AEOI oversees Iran's nuclear programme and is designated under UNSCR 1737 (2006).	24.4.2007
2.	IRGC Brigadier- General Javad DARVISH- VAND		MODAFL Deputy for Inspection. Responsible for all MODAFL facilities and installations	24.6.2008
3.	IRGC Brigadier- General Seyyed Mahdi FARAHI		Managing Director of the Defence Industries Organisation (DIO) which is designated under UNSCR 1737 (2006)	24.6.2008
4.	Dr Hoseyn (Hossein) FAQIHIAN	Address of NFPC: AEOI- NFPD, P.O.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 involved in enrichment-	24.4.2007

Status: Point in time view as at 19/06/2010.

			related activities that Iran is required by the IAEA Board and Security Council to suspend.	
5.	Engineer Mojtaba HAERI		MODAFL Deputy for Industry. Supervisory role over AIO and DIO	24.6.2008
6.	IRGC Brigadier- General Ali HOSEYNITASH		Head of the General Department of the Supreme National Security Council and involved in formulating policy on the nuclear issue	24.6.2008
7.	Mohammad Ali JAFARI, IRGC		Holds a command post at the IRGC	24.6.2008
8.	Mahmood JANNATIAN	DoB 21/04/1946, passport number: T12838903	Deputy Head of the Atomic Energy Organisation of Iran	24.6.2008
9.	Said Esmail KHALILIPOUR (a.k.a.: LANGROUDI)	DoB: 24/11/1945, PoB: Langroud	Deputy Head of AEOI. The AEOI oversees Iran's nuclear programme and is designated under UNSCR 1737 (2006).	24.4.2007
10.	Ali Reza KHANCHI	Address of NRC: AEOI- NRC P.O.Box: 11365-8486 Tehran/ Iran; Fax: (+9821) 8021412	Head of AEOI's Tehran Nuclear Research Centre. The IAEA is continuing to seek clarification from Iran about plutonium separation experiments carried out at the TNRC,	24.4.2007

		including about the presence of HEU particles in environmental samples taken at the Karaj Waste Storage Facility where containers used to store depleted uranium targets used in those experiments are located. The AEOI oversees Iran's nuclear programme and is designated under UNSCR 1737 (2006).	
11.	Ebrahim MAHMUDZADEH	Managing Director of Iran Electronic Industries	24.6.2008
12.	Brigadier- General Beik MOHAMMADLU	MODAFL Deputy for Supplies and Logistics	24.6.2008
13.	Anis NACCACHE	Administrator of Barzagani Tejarat Tavanmad Saccal companies; his company has attempted to procure sensitive goods for entities designated under Resolution 1737 (2006)	24.6.2008
14.	Brigadier- General Mohammad NADERI	Head of Aerospace Industries Organisation (AIO), AIO has taken part in sensitive Iranian programmes	24.6.2008

Status: Point in time view as at 19/06/2010.

15.	IRGC Brigadier- General Mostafa Mohammad NAJJAR		Minister for the Interior and former Minister of MODAFL, responsible for all military programmes, including ballistic missiles programmes.	24.6.2008
16.	Dr Javad RAHIQI (RAHIGHI)	DoB: 21/04/1954, DoB according to old Iranian calendar: 1/05/1954, PoB: Mashad	Head of the Neutron Physics Group of the AEOI. AEOI oversees Iran's nuclear programme and is designated under UNSCR 1737 (2006).	24.4.2007
17.	Ali Akbar SALEHI		Head of the Atomic Energy Organisation of Iran (AEOI). The AEOI oversees Iran's nuclear programme and is designated under UNSCR 1737 (2006).	17.11.2009
18.	Rear Admiral Mohammad SHAFI'I RUDSARI		MODAFL Deputy for Coordination	24.6.2008
19.	IRGC Brigadier- General Ali SHAMSHIRI		MODAFL Deputy for Counter- Intelligence, responsible for security of MODAFL personnel and Installations	24.6.2008
20.	Abdollah SOLAT SANA		Managing Director of the Uranium Conversion Facility (UCF) in Esfahan. This	24.4.2007

Status: Point in time view as at 19/06/2010.

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)

		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	
21.	IRGC Brigadier- General Ahmad VAHIDI	Minister of the MODAFL and former Deputy Head of MODAFL	24.6.2008

# B. Legal persons, entities and bodies

-	Name	Identifying information	Reasons	Date of listing
1.	Aerospace Industries Organisation, AIO	AIO, 28 Shian 5, Lavizan, Tehran	AIO oversees Iran's production of missiles, including Shahid Hemmat Industrial Group, Shahid Bagheri Industrial Group and Fajr Industrial Group, which were all designated under UNSCR 1737 (2006). The head of AIO and two other senior officials were also designated under UNSCR 1737 (2006)	24.4.2007
2.	Armament Industries	Pasdaran Av., PO Box 19585/ 777, Tehran	A subsidiary of the DIO (Defence Industries Organisation)	24.4.2007

Status: Point in time view as at 19/06/2010.

3.		Forces aphical sation		Assessed to provide geospatial data for the Ballistic Missile programme	24.6.2008
4.	Bank Melli, Bank Melli Iran (including all branches) and subsidiaries:		Ferdowsi Avenue, PO Box 11365-171, Tehran	Providing or attempting to provide financial support for companies	24.6.2008
	(a)	Melli Bank plc	London Wall, 11th floor, London EC2Y 5EA, United Kingdom	which are involved in or procure goods for Iran's nuclear and missile programmes (AIO, SHIG, SBIG, AEOI, Novin Energy Company, Mesbah Energy Company, Kalaye Electric Company and DIO). Bank Melli serves as a facilitator for Iran's sensitive activities. It has facilitated numerous purchases of sensitive materials for Iran's nuclear and missile programmes. It has provided a range of financial services on behalf of entities linked to Iran's nuclear and missile industries, including opening letters of credit and maintaining accounts. Many	
	(b)	Bank Melli Iran Zao	Kingdom  Number 9/1, Ulitsa Mashkova, Moscow, 130064, Russia		

	D. C.	Day Jan	of the above companies have been designated by UNSCRs 1737 (2006) and 1747 (2007). Bank Melli continues in this role, by engaging in a pattern of conduct which supports and facilitates Iran's sensitive activities. Using its banking relationships, it continues to provide support for, and financial services to, UN and EU listed entities in relation to such activities. It also acts on behalf of, and at the direction of such entities, including Bank Sepah, often operating through their subsidiaries and associates.	24.4.2007
5.	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	24.4.2007

Status: Point in time view as at 19/06/2010.

6.	Iran Electronic Industries	P. O. Box 18575-365, Tehran, Iran	Wholly-owned subsidiary of MODAFL (and therefore a sister-organisation to AIO, AvIO and DIO). Its role is to manufacture electronic components for Iranian weapons systems	24.6.2008
7.	IRGC Air Force		Operates Iran's inventory of short and medium range ballistic missiles. The head of the IRGC air force was designated by UNSCR 1737 (2006)	24.6.2008
8.	Khatem- ol Anbiya Construction Organisation	Number 221, North Falamak- Zarafshan Intersection, 4th Phase, Shahkrak- E-Ghods, Tehran 14678, Iran	IRGC-owned group of companies. Uses IRGC engineering resources for construction acting as prime contractor on major projects including tunnelling, assessed to support the Iranian ballistic missile and nuclear programmes	24.6.2008
9.	Malek Ashtar University		Linked to the Ministry of Defence, set up a missiles training course in 2003, in close collaboration with the AIO	24.6.2008

10.	Marine Industries	Pasdaran Av., PO Box 19585/	A subsidiary of the DIO	24.4.2007
	masures	777, Tehran		
11.	Mechanic Industries Group		Took part in the production of components for the ballistics programme	24.6.2008
12.	Ministry of Defence and Armed Forces Logistics (MODAFL)	West side of Dabestan Street, Abbas Abad District, Tehran	Responsible for Iran's defence research, development and manufacturing programmes, including support to missile and nuclear programmes	24.6.2008
13.	Ministry of Defence Logistics Export (MODLEX)	P. O. Box 16315-189, Tehran, Iran	It is the export arm of MODAFL, and the agency used for exporting finished weapons in state-to-state transactions. Under UNSCR 1747 (2007) MODLEX should not be trading.	24.6.2008
14.	3M Mizan Machinery Manufacturing		Front company for the AIO, taking part in ballistics procurement	24.6.2008
15.	Nuclear Fuel Production and Procurement Company (NFPC)	AEOI-NFPD, P.O.Box: 11365-8486, Tehran / Iran	Nuclear Fuel Production Division (NFPD) of AEOI is research and development in the field of nuclear fuel cycle including: uranium exploration, mining, milling,	24.4.2007

Status: Point in time view as at 19/06/2010.

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)

			conversion and nuclear waste management. The NFPC is the successor to the NFPD, the subsidiary company under the AEOI that runs research and development in the nuclear fuel cycle including conversion and enrichment	
16.	Parchin Chemical Industries		Worked on propulsion techniques for the Iranian ballistics programme	24.6.2008
17.	Special Industries Group	Pasdaran Av., PO Box 19585/777, Tehran	A subsidiary of the DIO.	24.4.2007
18.	State Purchasing Organisation (SPO)		The SPO appears to facilitate the import of whole weapons. It appears to be a subsidiary of MODAFL	24.6.2008]

# [F2ANNEX VI

List of credit and financial institutions referred to in Article 11a(2)

Branches and subsidiaries, where they come within the scope of Article 18, of credit and financial institutions domiciled in Iran as referred to in Article 11a(2)(b)(11)

#### BANK MELLI IRAN\* 1. France

43 Avenue Montaigne, 75008 Paris

BIC: MELIFRPP Germany

Holzbrücke 2, D-20459, Hamburg

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)

BIC: MELIDEHH United Kingdom

Melli Bank plc

One London Wall, 11th Floor, London EC2Y 5EA

**BIC: MELIGB2L** 

2. BANK SEPAH\*

France

64 rue de Miromesnil, 75008 Paris

BIC: SEPBFRPP

Germany

Hafenstraße 54, D-60327 Frankfurt am Main

**BIC: SEPBDEFF** 

Italy

Via Barberini 50, 00187 Rome

BIC: SEPBITR1 United Kingdom

Bank Sepah International plc

5/7 Eastcheap, London EC3M 1JT

BIC: SEPBGB2L

3. BANK SADERAT IRAN

France

Bank Saderat Iran

16 Rue de la Paix, 75002 Paris

**BIC: BSIRFRPP** 

TELEX: 220287 SADER A / SADER B

Germany

Hamburg Branch

P.O. Box 112227, Deichstraße 11, D-20459 Hamburg

**BIC: BSIRDEHH** 

TELEX: 215175 SADBK D

Frankfurt Branch

P.O. Box 160151, Friedensstraße 4, D-60311 Frankfurt am Main

**BIC: BSIRDEFF** 

Greece

Athens Branch

Status: Point in time view as at 19/06/2010.

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)

PO Box 4308, 25-29 Venizelou St, GR 105 64 Athens

**BIC: BSIRGRAA** 

TELEX: 218385 SABK GR

United Kingdom

Bank Saderat plc

5 Lothbury, London EC2R 7HD

BIC: BSPLGB2L

TELEX: 883382 SADER G

4. BANK TEJARAT

France

Bank Tejarat

124-126 Rue de Provence, 75008 Paris

**BIC: BTEJFRPP** 

TELEX: 281972 F, 281973 F BKTEJ

#### 5. PERSIA INTERNATIONAL BANK plc

United Kingdom

Head Office and Main Branch

6 Lothbury, London EC2R 7HH

BIC: PIBPGB2L TELEX: 885426

Branches and subsidiaries, where they do not come within the scope of Article 18, of credit and financial institutions domiciled in Iran and credit and financial institutions that are neither domiciled in Iran nor come within the scope of Article 18 but are controlled by persons and entities domiciled in Iran, as referred to in Article 11a(2)(c) and (d)<sup>(12)</sup>

# 1. BANK MELLI\*

Azerbaijan

Bank Melli Iran Baku Branch

Nobel Ave. 14, Baku

**BIC: MELIAZ22** 

Iraq

No.111-27 Alley - 929 District - Arasat Street, Baghdad

**BIC: MELIIQBA** 

Oman

Oman Muscat Branch

P.O. Box 5643, Mossa Abdul Rehman Hassan Building, 238 Al Burj St., Ruwi, Muscat, Oman 8 /

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)

P.O. BOX 2643 PC 112

**BIC: MELIOMR** 

China

Melli Bank HK (branch of Melli Bank PLC)

Unit 1703-04, Hong Kong Club Building, 3A Chater Road, Central Hong Kong

**BIC: MELIHKHH** 

Egypt

Representative Office

P.O. Box 2654, First Floor, Flat No 1, Al Sad el Aaly Dokhi.

Tel.: 2700605 / Fax: 92633 United Arab Emirates

Regional Office

P.O. Box: 1894, Dubai

BIC: MELIAEAD

Abu Dhabi branch

Post box No 2656 Street name: Hamdan Street

**BIC: MELIAEADADH** 

Al Ain branch

Post box No 1888 Street name: Clock Tower, Industrial Road

**BIC: MELIAEADALN** 

Bur Dubai branch

Post box No 3093 Street name: Khalid Bin Waleed Street

**BIC: MELIAEADBR2** 

Dubai Main branch

Post box No 1894 Street name: Beniyas Street

**BIC: MELIAEAD** 

Fujairah branch

Post box No 248 Street name: Al Marash R/A, Hamad Bin Abdullah Street

**BIC: MELIAEADFUJ** 

Ras al-Khaimah branch

Post box No 5270 Street name: Oman Street, Al Nakheel

**BIC: MELIAEADRAK** 

Sharjah branch

Status: Point in time view as at 19/06/2010.

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)

Post box No 459 Street name: Al Burj Street

BIC: MELIAEADSHJ Russian Federation

No 9/1 ul. Mashkova, 103064 Moscow

**BIC: MELIRUMM** 

Japan

Representative Office

333 New Tokyo Bldg, 3-1 Marunouchi, 3 Chome, Chiyoda-ku.

Tel.: 332162631. Fax (3)32162638. TELEX: J296687

#### 2. BANK MELLAT

South Korea

Bank Mellat Seoul Branch

Keumkang Tower 13/14th Floor, Tehran road 889-13, Daechi-dong Gangnam-Ku, 135 280, Seoul

**BIC: BKMTKRSE** 

TELEX: K36019 MELLAT

Turkey

Istanbul Branch

1 Binbircicek Sokak, Buyukdere Caddessi Levent -Istanbul

**BIC: BKMTTRIS** 

TELEX: 26023 MELT TR

Ankara Branch

Ziya Gokalp Bulvari No: 12 06425 Kizilay-Ankara

BIC: BKMTTRIS100

TELEX: 46915 BMEL TR

Izmir Branch

Cumhuriyet Bulvari No: 88/A P.K 71035210 Konak-Izmir

**BIC: BKMTTRIS 200** 

TELEX: 53053 BMIZ TR

Armenia

Yerevan Branch

6 Amiryan Str. P.O. Box: 375010 P/H 24 Yerevan

BIC: BKMTAM 22

TELEX: 243303 MLTAR AM 243110 BMTRAM

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. PERSIA INTERNATIONAL BANK plc

United Arab Emirates

Dubai Branch

The Gate Building, 4th Floor, P.O.BOX 119871, Dubai

BIC: PIBPAEAD

#### 4. BANK SADERAT IRAN

Lebanon

Regional Office

Mar Elias - Mteco Center, PO BOX 5126, Beirut

**BIC: BSIRLBBE** 

Beirut Main Branch

Verdun street – Alrose building

P.O. BOX 5126 Beirut / P.O. BOX 6717 Hamra

**BIC: BSIRLBBE** 

TELEX: 48602 - 20738, 21205 - SADBNK

Alghobeiri Branch

No 3528, Alghobeiry BLVD, Jawhara BLDG Abdallah El Hajje str. -Ghobeiri BLVD, Alghobeiri

**BIC: BSIRLBBE** 

Baalbak Branch

No 3418, Ras Elein str., Baalbak

**BIC: BSIRLBBE** 

Borj al Barajneh Branch

No 4280, Al Holam BLDG, Al Kafaat cross, Al Maamoura str., Sahat Mreyjeh, 1st Floor

**BIC: BSIRLBBE** 

Saida Branch

No 4338, Saida – Riad Elsoleh BLVD. Ali Ahmad BLG.

**BIC: BSIRLBBE** 

Oman

BLDG 606, Way 4543, 145 Complex, Ruwi High Street, Ruwi, P.O. BOX 1269, Muscat

**BIC: BSIROMR** 

**TELEX: 3146** 

Qatar

Status: Point in time view as at 19/06/2010.

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)

Doha branch

No 2623, Grand Hamad ave., P.O. BOX 2256, Doha

BIC: BSIR QA QA

TELEX: 4225 Turkmenistan

Bank Saderat Iran Ashkhabad branch

Makhtoomgholi ave., No 181, Ashkhabad

TELEX: 1161134-86278 United Arab Emirates

Regional office Dubai

Al Maktoum road, PO BOX 4182 Deira, Dubai

BIC: BSIRAEAD / BSIRAEADLCD

TELEX: 45456 SADERBANK

Murshid Bazar Branch

Murshid Bazar P.O. Box 4182

Deira, Dubai

**BIC: BSIRAEAD** 

**TELEX: 45456 SADERBANK** 

Bur Dubai Branch

Al Fahidi Road

P.O.Box 4182 Dubai

**BIC: BSIRAEAD** 

TELEX: 45456 SADERBANK

Ajman Branch

No 2900 Liwara street, PO BOX 16, Ajman, Dubai

**BIC: BSIRAEAD** 

TELEX: 45456 SADERBANK

Shaykh Zayed Road Branch

Shaykh Road, Dubai

**BIC: BSIRAEAD** 

TELEX: 45456 SADERBANK

Abu Dhabi Branch

No 2690 Hamdan street, PO BOX 2656, Abu Dhabi

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)

**BIC: BSIRAEAD** 

TELEX: 22263

Al Ein Branch

No 1741, Al Am Road, PO BOX 1140, Al Ein, Abu Dhabi

**BIC: BSIRAEAD** 

**TELEX: 45456 SADERBANK** 

Sharjah Branch

No 2776 Alaroda road, PO BOX 316, Sharjah

**BIC: BSIRAEAD** 

**TELEX: 45456 SADERBANK** 

Bahrain

Bahrein branch

106 Government Road; P.O. Box 825, Block No 316; Entrance No 3; Manama Center; Manama

**TELEX: 8363 SADER BANK** 

**OBU** 

P.O. Box 825 - Manama

TELEX: 8688 SADER BANK

Uzbekian

Bank Saderat Iran Tashkent

10 Tchekhov street, Mirabad district, 100060 Tashkent

BIC: BSIRUZ21

TELEX: 116134 BSITA UZ

5. TEJARAT BANK

Tajikistan

No 70, Rudaki Ave., Dushanbe

P.O. Box: 734001

BIC: BTEJTJ22XXX

TELEX: 201135 BTDIR TJ

China

Representative Office China

Office C208 Beijing Lufthansa Center No 50 Liangmaqiao Road Chaoyang District Beijing 100016

6. ARIAN BANK (also known as Aryan Bank)

Afghanistan

ANNEX VI

Document Generated: 2023-10-17

Status: Point in time view as at 19/06/2010.

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)

Head Office

House No 2, Street No 13, Wazir Akbar Khan, Kabul

BIC: AFABAFKA

Harat branch

No 14301(2), Business Room Building, Banke Khoon road, Harat

BIC: AFABAFKA

7. FUTURE BANK

Bahrain

Future Bank

P.O. Box 785, Government Avenue 304, Manama

Shop 57, Block No 624 Shaikh Jaber Al Ahmed Al Sabah Avenue-Road No 4203, Sitra

BIC: FUBBBHBM / FUBBBHBMOBU / FUBBBHBMXXX / FUBBBHBMSIT

8. BANCO INTERNACIONAL DE DESARROLLO, SA

Venezuela

Banco internacional de Desarrollo, Banco Universal

Avenida Francisco de Miranda, Torre Dosza, Piso 8, El Rosal, Chacao, Caracas

**BIC: IDUNVECAXXX**]

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) [F3OJ L 88, 29.3.2007, p. 58.]
- (4) [F4OJ L 134, 29.5.2009, p. 1.]
- (5) 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).
- (6) [F2OJ L 117, 4.5.2005, p. 13.
- (7) OJ L 360, 19.12.2006, p. 64.]
- (8) [F<sup>7</sup>OJ L 278, 22.10.2007, p. 1.
- **(9)** OJ L 88, 29.3.2007, p. 58.
- (10) 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).]
- (11) [F2Entities marked \* are also subject to asset freezing within the meaning of Article 5(1)(a) and (b) of Common Position 2007/140/CFSP.
- (12) See footnote 1.]

#### **Textual Amendments**

- **F2** Inserted by Council Regulation (EC) No 1110/2008 of 10 November 2008 amending Regulation (EC) No 423/2007 concerning restrictive measures against Iran.
- F3 Inserted by Council Regulation (EC) No 618/2007 of 5 June 2007 amending Regulation (EC) No 423/2007 concerning restrictive measures against Iran.
- **F4** Substituted by Council Regulation (EU) No 1228/2009 of 15 December 2009 amending Regulation (EC) No 423/2007 concerning restrictive measures against Iran.
- F7 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 19/06/2010.

# **Changes to legislation:**

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