Friday,
October 31, 2008

Part III

Department of Commerce

Bureau of Industry and Security

15 CFR Parts 781 Through 786
Additional Protocol Regulations; Final Rule
DATES: This rule is effective October 31, 2008. Although there is no formal comment period, public comments on this regulation are welcome on a continuing basis.

ADRESSES: You may submit comments, identified by RIN 0694–AD26, by any of the following methods:

• E-mail: publiccomments@bis.doc.gov. Include “RIN 0694–AD26” in the subject line of the message.
• Fax: (202) 482–3355. Please alert the Regulatory Policy Division, by calling (202) 482–2440, if you are faxing comments.

FOR FURTHER INFORMATION CONTACT: For questions of a general or regulatory nature, contact the Regulatory Policy Division, telephone: (202) 482–1001. For legal questions, contact Rochelle Woodard, Office of the Chief Counsel for Industry and Security, telephone: (202) 482–5301.

SUPPLEMENTARY INFORMATION:
Background
I. Origins and Overview of the Additional Protocol

The requirement for a comprehensive international safeguards system to prevent the spread of nuclear weapons was first established by the Treaty on the Non-Proliferation of Nuclear Weapons (NPT). The NPT was signed by the United States on July 1, 1968, and entered into force on March 5, 1970. The treaty banned nuclear weapon states (NWS) from transferring nuclear weapons to non-nuclear weapon states (NNWS) or assisting NNWS in acquiring such weapons. It also banned NNWS from manufacturing or acquiring nuclear weapons and stipulated that each NNWS Party to the NPT would undertake to accept safeguards, as set forth in an agreement to be negotiated and concluded with the International Atomic Energy Agency (IAEA), which serves as the official international verification authority for the implementation of safeguards agreements concluded pursuant to the NPT. Although NWS, including the United States, are not obligated under the NPT to accept IAEA safeguards, all have voluntarily offered to accept safeguards on certain activities to encourage NNWS to meet their obligations. The IAEA completed formulation of detailed provisions for a model NPT Safeguards Agreement in 1971. The safeguards system, as embodied in the comprehensive safeguards agreements concluded between the IAEA and individual NNWS States Parties to the NPT, consists of nuclear material accounting and nuclear material verification measures by which the IAEA independently verifies declarations made by individual States Parties about their nuclear material and activities to ensure that nuclear material inventories and flows have been accurately declared and are not being used to further any proscribed purpose.

During deliberations on the NPT, several major industrialized nations expressed concern that the absence of requirements for IAEA safeguards in NWS would place NNWS at a commercial and industrial disadvantage in developing nuclear energy for peaceful purposes. Specifically, the NNWS were concerned that application of safeguards would interfere with the efficient operations of their commercial activities and would possibly compromise industrial and trade secrets as a result of access by IAEA inspectors to their facilities and records. In order to allay these concerns, the United States voluntarily offered in 1967 to permit the IAEA to apply safeguards to civil nuclear facilities in the United States. The United States, as the “U.S.–IAEA Safeguards Agreement” (also known as the “U.S.–IAEA Safeguards Agreement”). Since then, the other four NWS recognized under the NPT (China, France, the Russian Federation, and the United Kingdom) also agreed to make all or part of their civil nuclear activities eligible for IAEA safeguards.

The U.S.–IAEA Safeguards Agreement was signed on November 18, 1977, and entered into force on December 9, 1980. At that time, the United States submitted to the IAEA a list of more than 200 eligible facilities for which safeguards could be applied if selected by the IAEA. This list included facilities licensed by the U.S. Nuclear Regulatory Commission (NRC), as well as eligible Department of Energy facilities. The United States has added additional facilities to the eligible facilities list
since that time. Under the U.S.–IAEA Safeguards Agreement, approximately eighteen facilities have been selected for safeguards inspection and/or monitoring since 1981.

Although the U.S.–IAEA Safeguards Agreement is based on the model safeguards agreement developed by the IAEA, the terms of the U.S.–IAEA Safeguards Agreement and the obligations of NNWS parties to the NPT differ in several respects. First, the U.S.–IAEA Safeguards Agreement excludes nuclear facilities associated with activities of direct national security significance. Second, the United States decides which civil nuclear facilities are eligible for the full program of safeguards procedures (including routine inspections) and the IAEA decides which eligible facilities will be selected for the application of safeguards, although the IAEA need not select any. Finally, the United States has made separate commitments to provide to the IAEA, for safeguards purposes, information on exports of nuclear material and nuclear-related equipment and materials.

In the aftermath of the 1991 Persian Gulf War, the IAEA determined that Iraq had been engaged in a clandestine nuclear weapons development program at locations not directly subject to routine IAEA safeguards inspections. The international community determined that the safeguards system needed to be strengthened, and negotiated a Model Additional Protocol to amend existing bilateral safeguards agreements (i.e., the “Model Protocol Additional to the Agreement(s) Between State(s) and the International Atomic Energy Agency for the Application of Safeguards,” INFIRC/540 (Corrected) September 1997). The Model Additional Protocol requires enhanced information collection and access to sites and other locations involved in nuclear fuel-cycle related activities and covers almost all of a state’s nuclear fuel cycle, thereby providing IAEA inspectors with greater ability to detect clandestine nuclear activities in NNWS facilities, sites, and locations that are involved in nuclear fuel cycle activities. In an effort to encourage adoption of the Additional Protocol among NNWS, the United States signed the Additional Protocol on June 12, 1998. In the Additional Protocol, the United States accepts all of the measures of the Model Additional Protocol, except where their application would result in access by the IAEA to activities of direct national security significance to the United States or to locations or information associated with such activities. By subjecting itself to the same safeguards on all of its civil nuclear activities that NNWS are subject to (with the exception of those activities of direct national security significance), the United States intends to encourage widespread adherence to the Model Additional Protocol and demonstrate that adherence does not place other countries at a commercial disadvantage.

The Additional Protocol will enter into force when the United States notifies the IAEA that the statutory and constitutional requirements for entry into force have been met. These requirements include: (1) Ratification, to which the Senate provided advice and consent with certain conditions and understandings on March 31, 2004; (2) enactment of implementing legislation, which was signed by the President on December 18, 2006 (The U.S. Additional Protocol Implementation Act of 2006 (Pub. L. 109–401, 120 Stat. 2726 (2006)); (3) issuance of an Executive Order, which was issued as Executive Order 13458 of February 4, 2008 (73 FR 7181, February 6, 2008); (4) issuance of agency regulations by the Departments of Commerce, Defense, and Energy, and by the Nuclear Regulatory Commission (DOE, DOD, DOE, and NRC); and (5) certification by the President that certain Senate conditions have been met. The United States’ instrument of ratification may be deposited with the IAEA only after the President has certified that two Senate conditions, which address the application of the national security exclusion in Articles 1.b and 1.c of the Additional Protocol (i.e., managed access, security and counter-intelligence training, and preparation at locations of direct national security significance) and the completion of site vulnerability assessments concerning activities, locations, and information of direct national security significance, will be met within 180 days after deposit of the United States’ instrument of ratification.

The Additional Protocol consists of the following articles and annexes:

Article 1: Relationship between the Additional Protocol and the U.S.–IAEA Safeguards Agreement

Articles 2 and 3: Provision of information

Articles 4 through 10: Complementary access

Article 11: Designation of IAEA inspectors

Article 12: Visas

Article 13: Subsidiary arrangements

Article 14: Communications systems

Article 15: Protection of confidential information

Article 16: Annexes

Article 17: Entry into force

Article 18: Definitions

Annex I: List of activities referred to in the Additional Protocol

Annex II: List of specified equipment and non-nuclear material for reporting of exports and imports.

The Additional Protocol requires the United States to declare to the IAEA a number of nuclear fuel cycle-related items, materials, and activities that may be used for peaceful nuclear purposes, but that also could be necessary elements for a nuclear weapons program. In order to obtain the information necessary to complete the U.S. declaration to the IAEA, the U.S. Government must collect reports from U.S. industry and other U.S. persons. U.S. declarations submitted under the Additional Protocol will provide the IAEA with information about additional aspects of the U.S. civil nuclear fuel cycle, including: mining and concentration of nuclear ores; nuclear-related equipment manufacturing, assembly, or construction; imports, exports, and other activities involving certain source material (i.e., source material that has not reached the composition and purity suitable for fuel fabrication or for being isotopically enriched); imports and exports of specified nuclear equipment and non-nuclear material; nuclear fuel cycle-related research and development activities not involving nuclear material; and other activities involving nuclear material not currently subject to the U.S.–IAEA Safeguards Agreement.

Within 180 days after deposit of the United States’ instrument of ratification of the Additional Protocol, the United States must submit to the IAEA a declaration containing information compiled from the Initial Reports submitted to BIS in accordance with the requirements of section 783.1(b) of the APR. Thereafter, by May 15th of each succeeding year, the United States must submit to the IAEA a declaration containing an annual update to the information contained in previous U.S. declarations to the IAEA. The U.S. annual declaration to the IAEA will contain information compiled, for the most part, from the Annual Update Reports submitted to BIS in accordance with the requirements of section 783.1(b) of the APR.

The Additional Protocol provides that there shall be no mechanic or systematic verification of information contained in the U.S. declaration (e.g., there is no provision for routine inspections). However, the United States is required to provide the IAEA with access (referred to as “complementary access”) to civil nuclear fuel cycle-related locations and activities, under certain circumstances, as defined in the Additional Protocol. Such access is designed to ensure the absence of undeclared nuclear material and activities at declared sites where nuclear facilities or materials are located.
or to address a question about the completeness or correctness of the U.S. declaration or an inconsistency related to the information contained therein. In the latter instance, access generally will be requested only if a question or inconsistency in the U.S. declaration cannot be resolved through consultation between the United States and the IAEA. The APR contain requirements administered by the Department of Commerce’s Bureau of Industry and Security to implement the Additional Protocol. Additional U.S. obligations under the Additional Protocol are administered by other U.S. government agencies as designated by the President of the United States.

A. Part 781—General Information and Overview of the APR

The Additional Protocol Regulations (15 CFR chapter VII, subchapter D), or APR, implement certain obligations of the United States under the Additional Protocol. Part 781 contains definitions of terms used in the APR, describes the purpose and scope of the APR, and provides an overview of the activities regulated under the APR.

B. Part 782—General Information Regarding Reporting Requirements and Procedures

The Additional Protocol augments the existing U.S.—IAEA Safeguards Agreement by requiring the United States to provide the IAEA with information on civil nuclear and nuclear-related items, materials, and activities not presently covered by the U.S.—IAEA Safeguards Agreement. The items, materials, and activities that must be declared include the following:

- Mining and milling activities involving the production or processing of materials that could serve as feed material for the civil nuclear fuel cycle (i.e., uranium and thorium);
- Nuclear-related equipment manufacturing;
- Exports and imports of nuclear-related equipment and nuclear-related non-nuclear material; and
- Civil nuclear fuel cycle-related research and development (R&D) activities not involving nuclear material.

To enable the United States to collect the information necessary to prepare the U.S. declaration to the IAEA, BIS is publishing the APR to establish reporting requirements for U.S. industry and other U.S. persons concerning civil nuclear and nuclear-related items, materials, and activities that must be declared under the Additional Protocol.

Part 782 of the APR contains a brief overview of the reporting and compliance review requirements in the APR, identifies who is responsible for submitting the reports required under the APR, and provides information on how to determine which activities are subject to the APR reporting requirements, including instructions on where and how to submit activity determination requests to BIS. Part 782 also explains how to obtain the forms needed to submit reports required by the APR and where to submit the reports.

C. Part 783—Reporting Requirements for Nuclear Fuel Cycle-Related Activities Not Involving Nuclear Materials

Part 783 contains a comprehensive description of the reporting requirements under the APR, including which activities must be reported, who must submit reports, the types of reports that must be submitted (e.g., Initial Report, Annual Update Report, Import Confirmation Report, Supplemental Information Report—the latter will be submitted in response to BIS notification of an IAEA request for amplification or clarification of information), the types of changes that will require the submission of an Amended Report to BIS, when a No Changes Report may be submitted in lieu of an Annual Update Report, the APR forms required and the procedures that must be followed to prepare and submit these reports, and the deadlines for submitting these reports to BIS.

Section 783.1(a) of the APR establishes initial reporting requirements under the APR. You must submit an Initial Report to BIS, no later than December 1, 2008, if you are engaged in any of the civil nuclear fuel cycle-related activities described in section 783.1(a) of the APR on October 31, 2008. In this instance, your Initial Report must describe only those activities in which you are engaged as of October 31, 2008, except that the description of activities involving uranium hard-rock mines must include any such mines that were closed during calendar year 2008 (up to and including October 31, 2008) as well as mines that were in either operating or suspended status on October 31, 2008. The period of time covered by your Initial Report must include calendar year 2008 (up to and including October 31, 2008).

For any calendar year that follows calendar year 2008, you must submit an Initial Report to BIS if you commenced civil nuclear fuel cycle-related activities described in section 783.1(a) of the APR at your location, during the previous calendar year, and have not previously reported such activities to BIS. You may include such activities in your Annual Update Report, in lieu of submitting a separate Initial Report, if you also have an Annual Update Report requirement for the same location that covers the same reporting period (Annual Update Report requirements are addressed in the discussion of section 783.1(b), below).

Section 783.1(a)(1) of the APR contains two separate reporting requirements that apply to civil nuclear fuel cycle-related research and development activities, as defined in section 781.1 of the APR, that do not involve nuclear material. Section 783.1(a)(1)(i) of the APR describes the initial reporting requirement for any such activities that were specifically related to civil enrichment, reprocessing of nuclear fuel, or the processing of intermediate or high-level waste containing plutonium, high enriched uranium or uranium-233 that were not funded, specifically authorized or controlled by, or carried out on behalf of, the United States. Section 783.1(a)(1)(ii) of the APR describes the initial reporting requirement for any such activities that were specifically related to civil enrichment, reprocessing of nuclear fuel, or the processing of intermediate or high-level waste containing plutonium, high enriched uranium or uranium-233 that were not funded, specifically authorized or controlled by, or carried out on behalf of the United States.

Reports on these activities must include a general activity description and location information. The provisions of section 783.1(a)(1)(i) and (a)(1)(ii) are intended to address the information requirements described in Articles 2.a(i) and 2.b(i), respectively, of the Additional Protocol.

Section 783.1(a)(2) of the APR describes the initial reporting requirement for civil nuclear fuel cycle-related manufacturing, assembly, and construction activities (e.g., the manufacture of centrifuge rotor tubes, diffusion barriers, zirconium tubes, nuclear grade graphite, and reactor control rods). The specific activities subject to this APR reporting requirement are listed in detail in Supplement No. 2 to Part 783 of the APR, which corresponds to Annex I of the Additional Protocol. For these locations, the APR require a description of the scale of operation at each location engaged in any of the activities described in Supplement No. 2 to Part 783. This information need not be detailed, but should include the organization’s name, location, a brief description of operations, and the estimated current annual production. The provisions of section 783.1(a)(2) are intended to address the information requirements described in Article 2.a(iv) of the Additional Protocol.

Section 783.1(a)(3) of the APR describes the initial reporting requirement for U.S. uranium hard-rock mining activities, consistent with
information requirements described in Article 2.a(v) of the Additional Protocol. Uranium hard-rock mines are required to report to BIS their location, operational status, estimated annual production capacity, and current annual production. For Initial Reports submitted during calendar year 2008, this reporting requirement applies to any mines that were closed down during that calendar year (up to and including October 31, 2008), as well as mines in either operating or suspended status on October 31, 2008. Mines that were closed down prior to calendar year 2008 do not have a reporting obligation.

Section 783.1(b) of the APR establishes annual reporting requirements under the APR. If you submit an Initial Report to BIS, in accordance with Section 783.1(a) of the APR, and your Initial Report does not indicate that all civil nuclear fuel cycle-related activities described therein have ceased at your location, section 783.1(b) of the APR requires that you submit an Annual Update Report to BIS for each calendar year that follows the year covered by your Initial Report. This Annual Update Report requirement will continue to apply for as long as you engage in activities subject to the APR reporting requirements. If your location subsequently ceases to engage in activities subject to the APR reporting requirements, you will still be required to submit an Annual Update Report covering the calendar year in which you ceased to engage in such activities. Section 783.1(b)(2) of the APR provides that a No Changes Report may be submitted, in lieu of an Annual Update Report, when there are no changes with respect to your location and civil nuclear fuel cycle-related activities during the previous calendar year. If your Initial Report or most recent Annual Update Report indicates that all civil nuclear fuel cycle-related activities described therein have ceased at your location, and no other reportable activities have occurred during the previous calendar year, then you will not have a reporting requirement under Section 783.1(b) of the APR.

Initial Reports describing reportable civil nuclear fuel cycle-related activities identified in Section 783.1(a) of the APR must be submitted to BIS no later than December 1, 2008, if you are engaged in any such civil nuclear fuel cycle-related activities on October 31, 2008. Any such activities that commence after October 31, 2008 must be reported to BIS no later than January 31 of the year following the calendar year in which the activities took place. If you are subject to an Annual Update Report requirement for the same location and covering the same reporting period, you may include these additional activities in your Annual Update Report, in lieu of submitting a separate Initial Report. Annual Update Reports must be submitted to BIS by January 31st of the year following any calendar year in which reportable fuel cycle-related activities took place. No Changes Reports must be submitted to BIS by January 31st of the year following any calendar year in which reportable nuclear fuel cycle-related activities took place.

Section 783.1(c) of the APR describes the reporting requirements that apply to imports of equipment or non-nuclear material identified in Supplement No. 3 to Part 783 of the APR. The equipment and non-nuclear material in Supplement No. 3 are derived from the Nuclear Suppliers Group (NSG) Trigger List (IAEA INFCIRC/254/Rev.8/Part 1, Annex B). This List is included in Annex II of the Additional Protocol and consists of material, equipment, and technology that is specially designed or prepared for the processing, use, or production of special nuclear material. You will be notified by BIS if an Import Confirmation Report is required under the APR. BIS will provide such notification only upon receipt of a request from the IAEA for information to verify imports. For each import of equipment or non-nuclear material listed in Supplement No. 3 to Part 783, you must submit an Import Confirmation Report to BIS no later than 30 calendar days following the date that you receive written notification of this requirement. The provisions of section 783.1(c) are intended to address the information requirements described in Article 2.a(x)(b) of the Additional Protocol.

Section 783.1(d) of the APR describes the requirements that apply to a Supplemental Information Report. If the IAEA specifically requests amplification or clarification concerning any information provided in the U.S. declaration that is based on your report(s), BIS will send you written notification requiring that you report to BIS additional information concerning the activities that you previously reported and any other activities conducted at your location or building that would be relevant for the purpose of addressing the IAEA’s request for amplification or clarification of information.

Section 783.2 of the APR describes the circumstances under which an Amended Report must be submitted to BIS. Section 783.2(a) of the APR requires that an Amended Report be submitted to BIS no later than 30 calendar days following the date that you discover an error or omission in your most recent report that involves information concerning an activity subject to the reporting requirements in section 783.1(a) or (b) of the APR. Section 783.2(b) of the APR requires that an Amended Report be submitted to BIS no later than 30 calendar days after any changes to company and location information, such as the company’s designated contact person (for reporting and complementary access purposes), the name or mailing address of the company, the owner/operator of the location, or the owner of the company. Section 783.2(d) of the APR requires that an Amended Report be submitted to BIS no later than 30 calendar days following the date that you receive written notification from BIS to provide information requested by the IAEA following complementary access to the location.

D. Part 784—Complementary Access

Part 784 of the APR describes the purpose of complementary access by the IAEA and identifies the types of locations that may be subject to complementary access under the APR. Any location that is required to submit an Initial Report, Annual Update Report, or No Changes Report to BIS pursuant to Part 783 of the APR, is a reportable location and may be subject to complementary access by the IAEA.

The fact that a location is required to submit a report to BIS does not automatically trigger complementary access by the IAEA, although it may provide the basis for complementary access. Information that has been reported to BIS and included in the U.S. declaration will be analyzed by the IAEA before the IAEA makes a decision on whether or not to request complementary access to a particular location. In addition to providing the IAEA with complementary access to reportable locations, Part 784 of the APR provides that other locations specified by the IAEA may be subject to complementary access as well.

The specific purpose of complementary access is location dependent. In the case of uranium hard-rock mine locations, the purpose of complementary access is limited to enabling the IAEA to verify, on a selective basis, the absence of undeclared nuclear material and nuclear related activities. For all other locations subject to the APR (e.g., locations involved in reportable civil nuclear fuel cycle-related research and development or manufacturing activities), the purpose of complementary access is
limited to allowing the IAEA to resolve questions relating to the correctness and completeness of the information provided in the U.S. declaration or to resolve inconsistencies relating to that information. Complementary access normally will not be scheduled for the latter type of location until after the IAEA has provided the United States with an opportunity to clarify or resolve the question or inconsistency in its U.S. declaration.

Part 784 of the APR defines the role of BIS in notifying locations that will be subject to complementary access and acting as host to the IAEA Team during complementary access. A BIS Host team (augmented by other agency representatives, as appropriate) will accompany the IAEA inspectors during their activities at the location. In addition, a BIS Advance Team, upon receiving advance notice from the IAEA of complementary access, may deploy to the location to assist in preparing personnel and implementing appropriate measures to protect confidential business and other critical information.

Part 784 also provides specific information on the scope and conduct of complementary access, such as the kinds of activities that may be carried out by the IAEA Team (e.g., the circumstances under which the IAEA Team will be granted physical access to records and visual access to facilities). In addition, Part 784 describes the circumstances under which the Host Team will implement managed access measures during IAEA complementary access. Managed access will protect activities of direct national security significance to the United States, as well as locations or information associated with such activities. It is also designed to prevent the dissemination of proliferation sensitive information, to meet safety or physical protection requirements, and to protect proprietary or commercially sensitive information.

E. Part 785—Enforcement

Part 785 contains definitions of enforcement-related terms and describes the scope of the enforcement activities that are authorized under the APR, including the types of violations subject to the APR, administrative and criminal proceedings, hearings, representation, paperwork, summary decisions, discovery, subpoenas, matters protected against disclosure, procedural stipulations, extensions, post-hearing submissions, decisions, settlements, payment of assessments, and how to report a violation.

F. Part 786—Records and Recordkeeping

Part 786 describes the APR recordkeeping requirements, including the types of records that must be retained, required retention periods, acceptable media for record storage, records inspection procedures, accessibility of records, and disposal of records.

G. Part 787—Interpretations

Part 787 is reserved for future interpretations of Parts 781 through 786 of the APR and also for Subsidiary Arrangements to the Additional Protocol.

II. Summary of Public Comments on the July 25, 2008, APR Proposed Rule

One respondent submitted comments in response to the APR proposed rule that the Bureau of Industry and Security (BIS) published in the Federal Register July 25, 2008. Following is a summary of these comments, along with BIS’s responses.

A. Section 783.1—Export Report and Import Confirmation Report

Comment: The respondent is concerned that the reporting requirement in the APR proposed rule that applies to exports and certain imports of items listed in Supplement No. 3 to Part 783 of the APR would result in the disclosure of sensitive information (e.g., such reports may require that the internal components of enrichment equipment be disclosed).

Response: The respondent recommends that the APR provide the operator of a location or site with the opportunity to identify such information.

Comment: The respondent is concerned that the APR proposed rule does not provide a clear standard for determining what constitutes confidential business and other critical information, for purposes of complementary access, and does not indicate who should make this determination. As a remedy, the respondent recommends that the APR provide the operator of a location or site with the opportunity to identify such information.

Response: The determination of what information constitutes proprietary or confidential business information for the purpose of complementary access to a location in accordance with the requirements of the APR is, in the first instance, the responsibility of the owner/operator of the location. The complementary access provisions in Part 784 of the APR describe a number of measures that give the owner/operator of the location an opportunity to provide input on this question.

First, section 784.1(d)(4) of the APR provides for the dispatch of an advance team, if time and circumstances permit, to provide administrative and logistical support for complementary access and to assist with the preparation for such access—this service will provide an opportunity for the advance team and the owner/operator of the location to discuss various means to ensure the protection of proprietary or confidential
business information, as well as ITAR-controlled technology.

Second, section 784.3(b)(iv) of the APR specifically protects personal, proprietary, and business confidential records from disclosure, except where the Host Team leader, after receiving input from the representatives of the location and consulting with other members of the Host Team, determines that access to certain of these records is both “appropriate and necessary to achieve the relevant purposes of complementary access,” as described in section 784.1(b)(1) or (b)(2) of the APR.

Third, section 784.3(d) of the APR provides that visual access by the IAEA Team to areas or parts of the location will be allowed, as agreed by the Host Team Leader, after the Host Team Leader has consulted with the organization’s representative (e.g., the owner/operator of the location).

Additional measures to protect proprietary or business confidential information are access control areas provided in section 784.3(f) of the APR, which describes the implementation of managed access measures (more details on the latter are provided in response to the following comment).

C. Section 781.1—Definitions of Terms Used in the Additional Protocol Regulations (APR)

Comment: The respondent is concerned that, while the APR proposed rule defines “managed access,” it does not provide guidance on how managed access will be implemented, which may have the unintended consequence of compromising proprietary or commercially sensitive information during complementary access at a location or site.

Response: The BIS Host Team will be responsible for implementing managed access procedures (e.g., the removal of sensitive papers from office spaces and the shrouding of sensitive displays, stores, and equipment) at those locations where it has lead agency authority in the event of complementary access. These procedures can and will vary, based upon the specific circumstances that exist at each location. The expectation is that in instances where BIS has lead agency authority during complementary access, BIS will work with each location to identify what needs to be protected and to devise a plan appropriate to the circumstances on the ground at that location. The APR do not require locations to develop a managed access plan in advance of notification of complementary access. In contrast to locations that are subject to the APR, sites that have been selected for IAEA safeguards (e.g., DOE or NRC licensed facilities) are required to have a managed access or security plan in place at all times. Such sites are much more likely to have long-term, standardized managed access procedures in place, than are locations subject to the APR. Since the respondent indicates that their site falls under the jurisdiction of the NRC, rather than BIS, they should seek guidance from the NRC regarding the use of managed access at their facility.

Rulemaking Requirements

1. This final rule has been determined to be significant for purposes of Executive Order 12866.
2. Notwithstanding any other provision of law, no person is required to, nor shall any person be subject to a penalty for failure to comply with a collection of information, subject to the Paperwork Reduction Act (PRA), unless that collection of information displays a currently valid OMB Control Number. This rule revises an existing collection of information subject to the requirements of the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.). This collection has been approved by OMB under Control Number 0694–0135 (October 2008). The information collection contained in this final rule is part of a joint information collection by the Bureau of Industry and Security (BIS) of the Department of Commerce (DOC), in accordance with the Additional Protocol Regulations (APR) (15 CFR Parts 781–786), and the Nuclear Regulatory Commission (NRC), in accordance with amendments to its regulations in 10 CFR Part 75 and 10 CFR Part 110. A total of approximately 156 respondents are subject to the information collection requirements set forth in these BIS and NRC rules. These information collection requirements involve an estimated 3,357 total burden hours per annum at a total estimated cost of $139,142 per annum. The estimated total burden hours per annum include the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and preparing and reviewing the collection of information.

Public comment is sought regarding: whether this collection of information is necessary for the proper performance of the functions of the agency, including whether the information shall have practical utility; the accuracy of the burden estimate; ways to enhance the quality, utility, and clarity of the information to be collected; and ways to minimize the burden of collection of information, including through the use of automated collection techniques or other forms of information technology. Send comments regarding this burden estimate or any other aspects of this collection of information, including suggestions for reducing the burden, to Jasmeet Seehra, Office of Management and Budget (OMB), by e-mail to Jasmeet K. Seehra@omb.eop.gov or by fax to (202) 395–7285, and to Willard Fisher, Regulatory Policy Division, Bureau of Industry and Security, Department of Commerce, as indicated in the ADRESSES section of this rule.

The DOC’s Office of Strategic Industries and Economic Security (SIES) conducted a study in order to obtain an estimate of the number of U.S. companies, organizations, and other U.S. persons that would be subject to reporting requirements under the BIS and NRC rules. This study, along with reviews conducted by the NRC on activities conducted by its licensees, indicated that potentially 119 locations and 10 sites at International Atomic Energy Agency (IAEA) Selected Facilities from the U.S. Eligible Facilities List licensed by the NRC (an estimated total of 129 respondents) will have reporting requirements pursuant to DOC and NRC regulations under the Additional Protocol.

The information collection requirements in the BIS and/or NRC rules consist of the following activities: (1) Additional Protocol (AP)-related reporting activities (e.g., activities involving the completion and submission of AP-related reports using forms contained in handbooks described below), (2) complementary access activities (e.g., activities involving IAEA inspection team access to locations and sites subject to AP-related reporting requirements), and (3) compliance review activities (e.g., activities involving BIS requests for information from persons and locations subject to the APR to determine compliance with AP reporting and recordkeeping requirements).

The estimated information collection burden associated with the AP-related reporting activities is expected to total 2,161 burden hours per year, at a total cost to respondents of $96,467 per annum, as follows: 2,161 burden hours × $37.20/hour (employee salaries) × 1.2 (20% overhead) = $96,467 estimated annual cost.

The estimated information collection burden associated with the complementary access activities is expected to total 1,153 burden hours per year, at a total cost to respondents of $32,070 per annum, as follows: First, 1,153 (burden for complementary access) × 2 (locations per calendar year) = 1,153 total burden
The estimated information collection burden associated with the compliance review activities is expected to total 43 burden hours per year, at a total cost to respondents of $1,897 per annum, as follows: 25 requests × 1.7 hours = 42.5 burden hours × $37.20/hour (employee salaries) = $1,581 × 1.2 (20% overhead) = $1,897.20 annual estimated cost. In addition, this final rule contains a recordkeeping requirement of 3 years, which involves a total estimated recordkeeping cost of $8,707.50 per annum, as follows: 1.5 square feet (average office space occupied by storage cabinet containing AP-related records) × $45/square foot (average cost of office space utilized for storage) × 129 reports (estimated number of locations required to submit AP-related reports) = $8,707.50 annual estimated cost.

Based on the estimates provided above, the annual burden hours for this information collection are expected to total 3,357 burden hours, as follows: 2,161 (estimated annual burden hours for AP-related reporting activities) + 1,153 (estimated annual burden hours for complementary access activities) + 43 (estimated annual burden hours for compliance review activities) = $139,142, as follows: $96,467 (estimated annual cost for AP-related recordkeeping requirements) + $8,707.50 (estimated annual cost for AP-related recordkeeping requirements) = $139,142 total estimated annual cost for all AP-related information collection activities.

The AP requires the United States to declare to the IAEA a number of commercial nuclear and nuclear-related items, materials, and activities that may be used for peaceful nuclear purposes, but that also would be necessary elements for a nuclear weapons program. Executive Order (E.O.) 13458 of February 5, 2008, designates the DOC as the lead agency responsible for collecting data required under the AP from the commercial nuclear industry and other U.S. persons, except for data involving activities or locations subject to the licensing jurisdiction of the NRC. The E.O. designates the NRC as the lead agency responsible for managing the collection and aggregation of all data reported to the U.S. Government for the purpose of preparing the U.S. AP declaration for submission to the IAEA.

BIS has developed two separate handbooks (one for locations and the other for sites of IAEA-selected facilities) that provide guidance on how to complete and submit the forms required under the APR. These handbooks identify the specific forms that must be included in each type of report package that must be submitted to BIS or the NRC. The specific forms in each handbook are identified below.

### LIST OF FORMS CONTAINED IN REPORT HANDBOOK FOR LOCATIONS

<table>
<thead>
<tr>
<th>Form</th>
<th>Description of information collected on form</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP–1</td>
<td>Certification.</td>
</tr>
<tr>
<td>AP–2</td>
<td>Contact Information.</td>
</tr>
<tr>
<td>AP–3</td>
<td>Research and Development with U.S. Government (USG) Involvement.</td>
</tr>
<tr>
<td>AP–4</td>
<td>Research and Development without U.S. Government Involvement.</td>
</tr>
<tr>
<td>AP–5</td>
<td>Nuclear-related manufacturing, assembly and construction activities.</td>
</tr>
<tr>
<td>AP–6</td>
<td>Information on uranium hard rock mines.</td>
</tr>
<tr>
<td>AP–7</td>
<td>Information on concentration plants.</td>
</tr>
<tr>
<td>AP–8</td>
<td>Holdings of impure source materials.</td>
</tr>
<tr>
<td>AP–9</td>
<td>Imports and exports of impure source materials.</td>
</tr>
<tr>
<td>AP–10</td>
<td>Holdings of safeguards-exempted materials.</td>
</tr>
<tr>
<td>AP–11</td>
<td>Location of safeguards-terminated materials.</td>
</tr>
<tr>
<td>AP–12</td>
<td>Processing of safeguards-terminated waste materials.</td>
</tr>
<tr>
<td>AP–13</td>
<td>Exports of specified equipment and non-nuclear material.</td>
</tr>
<tr>
<td>AP–14</td>
<td>Imports of specified equipment and non-nuclear material.</td>
</tr>
<tr>
<td>AP–15</td>
<td>Supplemental information report.</td>
</tr>
<tr>
<td>AP–16</td>
<td>Continuation.</td>
</tr>
<tr>
<td>AP–17</td>
<td>No Changes Report.</td>
</tr>
</tbody>
</table>

### LIST OF FORMS CONTAINED IN REPORT HANDBOOK FOR SITES

<table>
<thead>
<tr>
<th>Form</th>
<th>Description of information collected on form</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP–A</td>
<td>Certification.</td>
</tr>
<tr>
<td>AP–B</td>
<td>Contact Information.</td>
</tr>
<tr>
<td>AP–C</td>
<td>Building information.</td>
</tr>
<tr>
<td>AP–D</td>
<td>Research and Development with U.S. Government Involvement.</td>
</tr>
<tr>
<td>AP–F</td>
<td>Nuclear-related manufacturing, assembly and construction activities.</td>
</tr>
<tr>
<td>AP–G</td>
<td>Information on concentration plants.</td>
</tr>
<tr>
<td>AP–H</td>
<td>Holdings of impure source materials.</td>
</tr>
<tr>
<td>AP–I</td>
<td>Imports and exports of impure source materials.</td>
</tr>
<tr>
<td>AP–K</td>
<td>Location of safeguards-terminated materials.</td>
</tr>
<tr>
<td>AP–L</td>
<td>Processing of safeguards-terminated waste materials.</td>
</tr>
<tr>
<td>AP–M</td>
<td>Exports of specified equipment and non-nuclear material.</td>
</tr>
</tbody>
</table>
3. This rule does not contain policies with Federalism implications as that term is defined in Executive Order 13132.

4. The Regulatory Flexibility Act (RFA), as amended by the Small Business Regulatory Enforcement Fairness Act of 1996 (SBREFA), 5 U.S.C. 601 et seq., generally requires an agency to prepare a regulatory flexibility analysis of any rule subject to the notice and comment rulemaking requirements under the Administrative Procedure Act (5 U.S.C. 553) or any other statute, unless the agency certifies that the rule will not have a significant economic impact on a substantial number of small entities. Under section 605(b) of the RFA, however, if the head of an agency certifies that a rule will not have a significant economic impact on a substantial number of small entities, the statute does not require the agency to prepare a regulatory flexibility analysis. Pursuant to section 605(b), the Chief Counsel for Regulations, Department of Commerce, certified to the Chief Counsel for Advocacy, Small Business Administration, that this final rule will not have a significant economic impact on a substantial number of small entities for the reasons explained below. Consequently, BIS has not prepared a regulatory flexibility analysis.

Small entities include small businesses, small organizations and small governmental jurisdictions. For purposes of assessing the impacts of this final rule on small entities, small entity is defined as: (1) A small business according to RFA default definitions for small business (based on SBA size standards), (2) a small governmental jurisdiction that is a government of a city, county, town, school district or special district with a population of less than 50,000, and (3) a small organization that is any not-for-profit enterprise which is independently owned and operated and is not dominant in its field. BIS has determined that this final rule will affect only the first and third categories of small entities (i.e., small businesses and small organizations).

The DOC’s Office of Strategic Indicators and Economic Security (SIES) conducted a study to obtain an estimate of the number of U.S. businesses, organizations, and other U.S. persons that would be subject to the information collection and recordkeeping requirements that BIS and the NRC would have to establish in order to meet U.S. obligations under the AP. This study, along with reviews conducted by the NRC on activities conducted by its licensees, indicated that potentially 119 locations and 10 sites at IAEA-Selected Facilities from the U.S. Eligible Facilities List licensed by the NRC (an estimated total of 129 respondents) would have reporting requirements pursuant to DOC and NRC regulations under the AP. The study indicated that the majority of the businesses or organizations most likely to be impacted by the entry-into-force of the AP would fall into the following categories: (1) Colleges and universities, (2) nuclear fuel manufacturers and utility companies, (3) mining and milling companies, and (4) corporate entities and contractors involved in research and development, manufacturing, assembly and construction activities. Although BIS estimates that the majority of these businesses and organizations are substantially sized entities, having more than 500 employees, BIS does not have sufficient information on these businesses and organizations to definitively characterize them as large entities.

The Small Business Administration (SBA) has established standards for what constitutes a small business, with respect to each of the Standard Industrial Classification (SIC) code categories. For example, a business in the uranium mining industry (NAICS Code: 212291, SIC Code: 1094), is considered by SBA to be a small business if it is independently owned and operated and not dominant in its field of operation and it employs 500 or fewer persons on a full-time basis, part-time, temporary, or other basis. The Mine Safety and Health Administration (MSHA) estimates that approximately 99.8% of the metal/non-metal mining industry would qualify as small businesses. However, many of the uranium mining and milling entities in the United States appear to be subsidiaries of large companies and BIS estimates that most of the small entities likely to be impacted by the entry-into-force of the AP will fall within the other categories of businesses and organizations identified in the SIES survey. In addition, BIS is not able to determine which SIC code categories apply to the other categories of businesses or organizations that are likely to be impacted by the entry-into-force of the AP. Therefore, for the purpose of assessing the impact of this final rule, BIS assumes that all of the 129 businesses and organizations likely to be affected are small entities.

Although this final rule will affect a substantial number of small entities (i.e., 129 businesses and organizations), the reporting, on-site verification (i.e., complementary access), compliance review, and recordkeeping requirements imposed by this rule will not have a significant economic impact on these entities.

First, this rule establishes reporting requirements in Part 783 of the APR that require U.S. industry and U.S. persons to submit data needed to prepare U.S. declarations to the IAEA in accordance with U.S. obligations under the AP. The U.S. declarations submitted under the AP will provide the IAEA with information about additional aspects of the U.S. civil nuclear fuel cycle, including the following: Mining and concentration of nuclear ores; nuclear-related equipment manufacturing, assembly, or construction; imports, exports, and other activities involving certain source material (i.e., source material that has not reached the composition and purity suitable for fuel fabrication or for being isotopically enriched); imports and exports of specified nuclear equipment and non-nuclear material; nuclear fuel cycle-related research and development activities not involving nuclear material; and other activities involving nuclear material not currently subject to the U.S.-IAEA Safeguards Agreement. The total estimated annual burden hours for these reporting requirements will be 2,161 hours and the total estimated annual cost will be $96,467, or $747.81 per respondent.

Second, this rule establishes on-site verification (i.e., complementary access) requirements in Part 785 of the APR. Any location required to submit an Initial Report, Annual Update Report, or
No Changes Report to BIS, pursuant to Part 783 of the APR, will be treated as a reportable location under the APR and, as such, may be subject to complementary access by the IAEA. The fact that a location is required to submit a report to BIS will not automatically trigger complementary access by the IAEA, although it may provide the basis for complementary access. Information reported to BIS and included in the U.S. declaration will be analyzed by the IAEA before the IAEA decides whether or not to request complementary access to a particular location. In addition to providing the IAEA with complementary access to reportable locations, Part 784 of the APR provides that other locations specified by the IAEA may be subject to complementary access. The specific purpose of complementary access will be location dependent. Complementary access to uranium hard-rock mine locations will be limited to enabling the IAEA to verify, on a selective basis, the absence of undeclared nuclear material and nuclear related activities. For all other locations subject to the APR, the purpose of complementary access will be limited to allowing the IAEA to resolve questions relating to the correctness and completeness of the information provided in the U.S. declaration or to resolve inconsistencies relating to that information. The total estimated annual burden hours for these complementary access requirements will be 1,153 hours and the total estimated annual cost will be $32,070, or $248 per respondent.

Third, this rule establishes compliance review requirements in section 782.3 of the APR that authorize BIS to request information, periodically, from persons and locations subject to the APR to determine compliance with the APR reporting and recordkeeping requirements. Information requested may relate to nuclear fuel cycle research and development activities not involving nuclear material, nuclear-related manufacturing, assembly or construction activities, or uranium hard-rock mining as described in Part 783 of the APR. Any person or location subject to the APR and receiving such a request for information will be required to submit a response to BIS within 30 calendar days of receipt of the request. The total estimated annual burden hours for these compliance review requirements will be 43 hours and the total estimated annual cost will be $1,897.20, or $14.70 per respondent.

Fourth, this rule establishes recordkeeping provisions in Part 786 of the APR in accordance with which each person or location required to submit a report or correspondence under Parts 782 through 784 of the APR must retain all supporting materials and documentation used to prepare the report or correspondence. All such supporting materials and documentation must be retained by the person or location for three years from the due date of the applicable report or for three years from the date of submission of the applicable report, whichever will be later. Upon request by BIS, the person or location also will be required to permit access to and copying of any records related to compliance with the requirements of the APR. The total estimated annual cost for these APR recordkeeping requirements will be $8,707.50. (Note: Since the AP-related recordkeeping burden estimate is based upon the cost of storage space rather than the number of burden hours, this estimate does not include the total annual burden hours associated with the APR recordkeeping requirements.)

The total estimated annual burden hours required to implement the reporting, complementary access, compliance review, and recordkeeping requirements described above will be 3,357 burden hours and the total estimated annual cost will be $139,142. Although the primary impact of these new requirements will affect a substantial number of small entities (i.e., 129 businesses and organizations), the total economic impact on the affected entities (i.e., $139,142, per annum, for all of the affected entities) will not be significant. The average impact per entity will be $1,079 (i.e., $139,142 ÷ 129) per annum, which represents a small percentage of the net annual revenue of a typical small business. Since the requirements that this rule establishes will not impose a significant economic impact on a substantial number of small entities, BIS did not prepare a regulatory flexibility analysis for this rule.

Finally, the changes made by this rule should be viewed in light of the fact that BIS’s discretion in formulating the reporting, complementary access, compliance review, and recordkeeping requirements of the APR is limited by the necessity of meeting U.S. obligations under the AP. The AP specifies the information that the United States must declare to the IAEA. In drafting the requirements and the forms for U.S. locations and U.S. persons to use, BIS has attempted to minimize the recordkeeping and reporting burden to ensure that only information that the United States must declare to the IAEA will have to be submitted to BIS.

List of Subjects
15 CFR Part 781
Nuclear fuel cycle-related activities, Imports, Treaties.
15 CFR Part 782
Nuclear fuel cycle-related activities, Reporting and recordkeeping requirements.
15 CFR Part 783
Nuclear fuel cycle-related activities, Imports, Reporting and recordkeeping requirements.
15 CFR Part 784
Nuclear fuel cycle-related activities, Imports, Reporting and recordkeeping requirements.
15 CFR Part 785
Enforcement.
15 CFR Part 786
Reporting and recordkeeping requirements.

Accordingly, in 15 CFR Chapter VII, new Subchapter D, titled “Additional Protocol Regulations” and consisting of Parts 781 through 799, is added to read as follows:

SUBCHAPTER D—ADDITIONAL PROTOCOL REGULATIONS

PART 781—GENERAL INFORMATION AND OVERVIEW OF THE ADDITIONAL PROTOCOL REGULATIONS (APR)

Sec.
781.1 Definitions of terms used in the Additional Protocol Regulations (APR).
781.2 Purposes of the Additional Protocol and APR.
781.3 Scope of the APR.
781.4 U.S. Government requests for information needed to satisfy the requirements of the APR or the Act.


§ 781.1 Definitions of terms used in the Additional Protocol Regulations (APR).

The following are definitions of terms used in Parts 781 through 786 of this subchapter (collectively known as the APR), unless otherwise noted:

Access Point of Contact (A–POC). The individual at a location who will be notified by BIS immediately upon receipt of an IAEA request for complementary access to a location. BIS must be able to contact either the A–POC or alternate A–POC on a 24-hour basis. All interactions with the location for permitting and planning an IAEA...
complementary access will be conducted through the A–POC or the alternate A–POC; if the A–POC is unavailable.


**Additional Protocol.** The Protocol Additional to the Agreement between the United States of America and the International Atomic Energy Agency for the Application of Safeguards in the United States of America, with Annexes, signed at Vienna on June 12, 1998 (T. Doc. 107–097), known as the Additional Protocol.

**Additional Protocol Regulations (APR).** Those regulations contained in 15 CFR Parts 781 to 786 that were promulgated by the Department of Commerce to implement and enforce the Additional Protocol.

**Agreement State.** Any State of the United States with which the U.S. Nuclear Regulatory Commission (NRC) has entered into an effective agreement under Subsection 274b of the Atomic Energy Act of 1954, as amended (42 U.S.C. 2011 et seq.).

**Beneficiation.** The concentration of nuclear ores through physical or any other non-chemical methods.

**Bureau of Industry and Security (BIS).** The Bureau of Industry and Security of the United States Department of Commerce, including Export Administration and Export Enforcement.

**Complementary Access.** The exercise of the IAEA’s access rights as set forth in Articles 4 to 6 of the Additional Protocol (see Part 784 of the APR for requirements concerning the scope and conduct of complementary access).

**Complementary Access Notification.** A written announcement issued by BIS to a person who is subject to the APR (e.g., the owner, operator, occupant, or agent in charge of a location that is subject to the APR as specified in § 781.3(a) of the APR) that informs such person about an impending complementary access in accordance with the requirements of Part 784 of the APR.

**Host Team.** The U.S. Government team that accompanies the International Atomic Energy Agency (IAEA) inspectors during complementary access, as provided for in the Additional Protocol and conducted in accordance with the provisions of the APR.

**Host Team Leader.** The representative from the Department of Commerce who leads the Host Team during complementary access.

**International Atomic Energy Agency (IAEA).** The United Nations organization, headquartered in Vienna, Austria, that serves as the official international verification authority for the implementation of safeguards agreements concluded pursuant to the Treaty on the Non-Proliferation of Nuclear Weapons (NPT).

**ITAR.** The International Traffic in Arms Regulations (22 CFR Parts 120–130), which are administered by the Directorate of Defense Trade Controls, U.S. Department of State.

**Location.** Any geographical point or area declared or identified by the United States or specified by the IAEA (see “location specified by the IAEA,” as defined in this section).

**Location-specific environmental sampling.** The collection of environmental samples (e.g., air, water, vegetation, soil, smears) at, and in the immediate vicinity of, a location specified by the IAEA for the purpose of assisting the IAEA to draw conclusions about the absence of undeclared nuclear material or nuclear activities at the specified location.

**Location-specific subsidiary arrangement.** An agreement that sets forth procedures, which have been mutually agreed upon by the United States and the IAEA, for conducting complementary access at a specific reportable location. (Also see definition of “subsidiary arrangement” in this section.)

**Location specified by the IAEA.** A location that is selected by the IAEA to:

1. Verify the absence of undeclared nuclear material or nuclear activities; or
2. Obtain information that the IAEA needs to amplify or clarify information contained in the U.S. declaration.

**Managed access.** Procedures implemented by the Host Team during complementary access to prevent the dissemination of proliferation sensitive information, to meet safety or physical protection requirements, to protect proprietary or commercially sensitive information, or to protect activities of direct national security significance to the United States, including information associated with such activities, in accordance with the Additional Protocol.

**National Security Exclusion (NSE).** The right of the United States, as specified under Article 1.b of the Additional Protocol, to exclude the application of the Additional Protocol when the United States Government determines that its application would result in access by the IAEA to activities of direct national security significance to the United States or to locations or information associated with such activities.

**NRC.** The U.S. Nuclear Regulatory Commission.

**Nuclear fuel cycle-related research and development.** Those activities that are specifically related to any process or system development aspect of any of the following:

1. Conversion of nuclear material;
2. Enrichment of nuclear material;
3. Nuclear fuel fabrication;
4. Reactors;
5. Critical facilities;
6. Reprocessing of nuclear fuel; or
7. Processing (not including repackaging or conditioning not involving the separation of elements, for storage or disposal) of intermediate or high-level waste containing plutonium, high enriched uranium or uranium-233.

**Nuclear Material.** Any source material or special fissionable material, as follows.

1. **Source material** means uranium containing the mixture of isotopes occurring in nature; uranium depleted in the isotope 235; thorium; any of the foregoing in the form of metal, alloy, chemical, or concentrate. The term source material shall not be interpreted as applying to ore or ore residue.

2. **Special fissionable material** means plutonium 239; uranium 233; uranium enriched in the isotopes 235 or 233; any material containing one or more of the foregoing, but the term special fissionable material does not include source material.

**Person.** Any individual, corporation, partnership, firm, association, trust, estate, public or private institution, any State or any political subdivision thereof, or any political entity within a State, any foreign government or nation or any agency, instrumentality or political subdivision of any such government or nation, or other entity located in the United States.

**Report Point of Contact (R–POC).** A person whom BIS may contact for the purposes of clarification of information provided in report(s) and for general information. The R–POC need not be the person who prepares the forms or certifies the report(s) for submission to BIS, but should be familiar with the content of the reports.

**Reportable Location.** A location that must submit an Initial Report, Annual Update Report, or No Changes Report to BIS, in accordance with the provisions of the APR, is considered to be a “reportable location” with reportable activities (see § 783.1(a) and (b) of the APR for nuclear fuel cycle-related activities subject to these reporting requirements).

**Reporting Code.** A unique identification used for identifying a location where one or more nuclear fuel cycle-related activities subject to the
reporting requirements of the APR are located.

Subsidiary Arrangement (or General Subsidiary Arrangement). An agreement that sets forth procedures, which have been mutually agreed upon by the United States and the IAEA, for implementing the Additional Protocol, irrespective of the location. (Also see the definition of “location-specific subsidiary arrangement” in this section.)

United States. Means the several States of the United States, the District of Columbia, and the commonwealths, territories, and possessions of the United States, and includes all places under the jurisdiction or control of the United States, including any of the places within the provisions of paragraph (41) of section 40102 of Title 49 of the United States Code, any civil aircraft of the United States or public aircraft, as such terms are defined in paragraphs (1) and (37), respectively, of section 40102 of Title 49 of the United States Code, and any vessel of the United States, as such term is defined in section 3(b) of the Maritime Drug Enforcement Act, as amended (section 1903(b) of Title 46 App. of the United States Code).

Uranium Hard-Rock Mine. Means any of the following:

(1) An area of land from which uranium is extracted in non-liquid form;

(2) Private ways and roads appurtenant to such an area; and

(3) Lands, excavations, underground passageways, shafts, slopes, tunnels and workings, structures, facilities, equipment, machines, tools, or other property including impoundments, retention dams, and tailings ponds, on the surface or underground, used in, or to be used in, or resulting from, the work of extracting such uranium ore from its natural deposits in non-liquid form, or in liquid form, with workers underground, or used in, or to be used in, the concentration of such uranium ore, or the work of the uranium ore.

Uranium Hard-Rock Mine (Closed-down). A uranium hard-rock mine where ore production has ceased and the mine or its infrastructure is not capable of further operation.

Uranium Hard-Rock Mine (Operating). A uranium hard-rock mine where ore is produced on a routine basis.

Uranium Hard-Rock Mine (Suspended). A uranium hard-rock mine where ore production has ceased, but the mine and its infrastructure are capable of further operation.

U.S. declaration. The information submitted by the United States to the IAEA in fulfillment of U.S. obligations under the Additional Protocol.

United States Government locations. Those locations owned and operated by a U.S. Government agency (including those operated by contractors to the agency), and those locations leased to and operated by a U.S. Government agency (including those operated by contractors to the agency). United States Government locations do not include locations owned by a U.S. Government agency and leased to a private organization or entity such that the private organization or entity may independently decide the purposes for which the locations will be used.

Wide-area environmental sampling. The collection of environmental samples (e.g., air, water, vegetation, soil, smears) at a set of locations specified by the IAEA for the purpose of assisting the IAEA to draw conclusions about the absence of undeclared nuclear material or nuclear activities over a wide area.

You. The term “you” or “your” means any person. With regard to the requirements of the APR, “you” refers to persons that have an obligation to report certain activities under the provisions of the APR. (Also see the definition of “person” in this section.)

§ 781.2 Purposes of the Additional Protocol and APR.

(a) General. The Additional Protocol is a supplement to the existing U.S.–IAEA Safeguards Agreement, which entered into force in 1980. It provides the IAEA with access to additional information about civil nuclear and nuclear-related items, materials, and activities and with physical access to reportable locations where nuclear facilities, materials, or ores are located (to ensure the absence of undeclared nuclear material and activities) and to other reportable locations and locations specified by the IAEA (to resolve questions or inconsistencies related to the U.S. Declaration). The Additional Protocol is based upon and is virtually identical to the IAEA Model Additional Protocol (see IAEA Information Circular, INFCIRC/540, at http://www.iaea.org/Publications/Documents/Infircircs/index.html), except that it excludes IAEA access to activities with direct national security significance to the United States, or to locations or information associated with such activities, and provides for managed access in connection with those same activities and to locations or information associated with those activities.

(b) Purposes of the Additional Protocol. The Additional Protocol is designed to enhance the effectiveness of the U.S.–IAEA Safeguards Agreement by providing the IAEA with information about aspects of the U.S. civil nuclear fuel cycle, including: Mining and concentration of nuclear ores; nuclear-related equipment manufacturing, assembly, or construction; imports, exports, and other activities involving certain source material (i.e., source material that has not reached the composition and purity suitable for fuel fabrication or for being isotopically enriched); imports and exports of specified nuclear equipment and non-nuclear material; nuclear fuel cycle-related research and development activities not involving nuclear material; and other activities involving nuclear material not currently subject to the U.S.–IAEA Safeguards Agreement (e.g., nuclear material that has been exempted from safeguards pursuant to paragraph 37 of INFCIRC/153 (Corrected) June 1972).

(c) Purposes of the Additional Protocol Regulations. To fulfill certain obligations of the United States under the Additional Protocol, BIS has established the APR, which require the reporting of information to BIS (as described in Parts 783 and 784 of the APR) from all persons and locations in the United States (as described in § 781.3(a) of the APR) with reportable activities. This information, together with information reported to other U.S. Government agencies and less any information to which the U.S. Government applies the national security exclusion, is aggregated into a U.S. declaration, which is submitted annually to the IAEA. The APR also provide for complementary access at such locations in accordance with the provisions in Part 784 of the APR.

§ 781.3 Scope of the APR.

The Additional Protocol Regulations or APR implement certain obligations of the United States under the Protocol Additional to the Agreement Between the United States of America and the International Atomic Energy Agency Concerning the Application of Safeguards in the United States of America, known as the Additional Protocol.

(a) Persons and locations subject to the APR. The APR, promulgated by the Department of Commerce, shall apply to all persons and locations in the United States, except:

(1) Locations that are subject to the regulatory authority of the Nuclear Regulatory Commission (NRC), pursuant to the NRC’s regulatory jurisdiction under the Atomic Energy Act of 1954, as amended (42 U.S.C. 2011 et seq.); and
(2) The following United States Government locations (see definition in §781.1 of the APR):
(i) Department of Energy locations;
(ii) Department of Defense locations;
(iii) Central Intelligence Agency locations; and
(iv) Department of State locations.
(b) Activities subject to the APR. The activities that are subject to the recordkeeping and reporting requirements described in the APR are found in Parts 783 and 784 of this subchapter (APR).

§781.4 U.S. Government requests for information needed to satisfy the requirements of the APR or the Act.
From time-to-time, one or more U.S. Government agencies (i.e., the Department of Energy, the Department of Defense, the Department of Commerce, the National Nuclear Security Administration, the National Aeronautics and Space Administration, the National Science Foundation, the National Institute of Standards and Technology, the National Institute of Health, and the Department of State) may contact a location to request information that the U.S. Government has determined to be necessary to satisfy certain requirements of the APR or the Act (e.g., clarification requests or vulnerability assessments). If the manner of providing such information is not specified in the APR, the agency in question will provide the location with appropriate instructions.

§781.5 Authority.
The APR implement certain provisions of the Additional Protocol under the authority of the Additional Protocol Implementation Act of 2006 (Pub. L. 109–401, 120 Stat. 2726 [December 18, 2006]). In Executive Order 13458 of February 4, 2008, the President delegated authority to the Department of Commerce to promulgate regulations to implement the Act, and consistent with the Act, to carry out appropriate functions not otherwise assigned in the Act, but necessary to implement certain declaration and complementary access requirements of the Additional Protocol and the Act.

PART 782—GENERAL INFORMATION REGARDING REPORTING REQUIREMENTS AND PROCEDURES
Sec.
782.1 Overview of reporting requirements under the APR.
782.2 Persons responsible for submitting reports required under the APR.
782.3 Compliance review.
782.4 Assistance in determining your obligations.
782.5 Where to obtain APR report forms.
782.6 Where to submit reports.


§782.1 Overview of reporting requirements under the APR.
Part 783 of the APR describes the reporting requirements for certain activities specified in the APR. For each activity specified in Part 783, BIS may require that an Initial Report, an Annual Update Report, a No Changes Report, an Import Confirmation Report, a Supplemental Information Report, or an Amended Report be submitted to BIS. In addition, persons subject to the APR may be required to provide BIS with information needed to assist the IAEA in clarifying or verifying information specified in the U.S. declaration or in clarifying or amplifying information concerning the nature of the activities conducted at a location (see §§783.1(d) and 784.1(b)(2) of the APR for requirements concerning a Supplemental Information Report). If, after reviewing Part 783 of the APR, you determine that you are subject to one or more APR reporting requirements, you may obtain the appropriate forms by contacting BIS (see §782.5 of the APR). In addition, forms may be downloaded from the Internet at http://www.bis.doc.gov.

§782.2 Persons responsible for submitting reports required under the APR.
The owner, operator, or senior management official of a location subject to the reporting requirements in Part 783 of the APR is responsible for the submission of all required reports and documents in accordance with all applicable provisions of the APR.

§782.3 Compliance review.
Periodically, BIS will request information from persons and locations subject to the APR to determine compliance with the reporting and recordkeeping requirements set forth herein. Information requested may relate to nuclear fuel cycle research and development activities not involving nuclear material, nuclear-related manufacturing, assembly or construction activities, or uranium hard-rock mining activities as described in Part 783 of the APR. Any person or location subject to the APR and receiving such a request for information must submit a response to BIS within 30 calendar days of receipt of the request. If the requested information cannot be provided to BIS, the response must fully explain the reason why such information cannot be provided. If additional time is needed to collect the requested information, the person or location should request an extension of the submission deadline, before the expiration of the 30-day time period set by BIS, and include an explanation for why an extension is needed. BIS will grant only one extension of the submission deadline. The maximum period of time for which BIS will grant an extension will be 30 days. Failure to respond to this request could lead to an investigation of the person’s or location’s reporting and recordkeeping procedures under the APR.

§782.4 Assistance in determining your obligations.
(a) Determining if your activity is subject to reporting requirements. (1) If you need assistance in determining whether or not your activity is subject to the APR’s reporting requirements, submit your written request for an activity determination to BIS. Such requests may be sent to BIS via facsimile to (202) 482–1731, e-mailed to apdr@bis.doc.gov, or hand delivered, submitted by courier, or mailed to BIS, in hard copy, to the following address: Treaty Compliance Division, Bureau of Industry and Security, U.S. Department of Commerce, Attn: AP Activity Determination, 14th Street and Pennsylvania Avenue, NW., Room 4515, Washington, DC 20230. Your activity determination request should include the information indicated in paragraph (a)(2) of this section to ensure an accurate determination. Also include any additional information that would be relevant to the activity described in your request. If you are unable to provide all of the information required in paragraph (a)(2) of this section, you should include an explanation identifying the reasons or deficiencies that preclude you from supplying the information. If BIS cannot make a determination based upon the information submitted, BIS will return the request to you and identify the additional information that is necessary to complete an activity determination. BIS will provide a written response to your activity determination request within 10 business days of receipt of the request.
(2) You must include the following information when submitting an activity determination request to BIS:
(i) Date of your request;
(ii) Name of your organization and complete street address;
(iii) Point of contact for your organization;
(iv) Phone and facsimile number for your point of contact;
(v) E-mail address for your point of contact, if you want BIS to provide an acknowledgment of receipt via e-mail; and
(vi) Description of your activity in sufficient detail as to allow BIS to make an accurate determination.
(b) Other inquiries. If you need assistance in interpreting the provisions of the APR or need assistance with APR report forms or complementary access issues, contact BIS’s Treaty Compliance Division by phone at (202) 482–1001. If you require a written response from BIS, submit a detailed request to BIS that explains your question, issue, or request. Send the request to the address or facsimile included in paragraph (a) of this section, or e-mail the request to apqa@bis.doc.gov. To ensure that your request is properly routed, include the notation, “ATTENTION: APR Advisory Request,” on your submission to BIS.

§ 782.5 Where to obtain APR report forms.

Report forms required by the APR may be downloaded from the Internet at http://www.ap.gov. You also may obtain these forms by contacting: Treaty Compliance Division, Bureau of Industry and Security, U.S. Department of Commerce, Attn: Forms Request, 14th Street and Pennsylvania Avenue, NW., Room 4515, Washington, DC 20230, Telephone: (202) 482–1001.

§ 782.6 Where to submit reports.

Reports required by the APR must be sent to BIS via facsimile to (202) 482–1731 or hand delivered, submitted by courier, or mailed to BIS, in hard copy, to the following address: Treaty Compliance Division, Bureau of Industry and Security, U.S. Department of Commerce, Attn: AP Reports, 14th Street and Pennsylvania Avenue, NW., Room 4515, Washington, DC 20230, Telephone: (202) 482–1001. Specific types of reports and due dates are outlined in Supplement No. 1 to Part 783 of the APR.

PART 783—CIVIL NUCLEAR FUEL CYCLE-RELATED ACTIVITIES NOT INVOLVING NUCLEAR MATERIALS

Sec. 783.1 Reporting requirements.
783.2 Amended reports.
783.3 Reports containing information determined by BIS not to be required by the APR.
783.4 Deadlines for submission of reports and amendments.
Supplement No. 1 to Part 783—Deadlines for Submission of Reports and Amendments
Supplement No. 2 to Part 783—Manufacturing Activities
Supplement No. 3 to Part 783—List of Specified Equipment and Non-Nuclear Material for the Reporting of Imports


§ 783.1 Reporting requirements.

(a) Initial report. You must submit an Initial Report to BIS, no later than December 1, 2008 (see Supplement No. 1 to this Part), if you were engaged in any of the civil nuclear fuel cycle-related activities described in this paragraph (a) on October 31, 2008 or you were engaged in any such activities involving uranium hard-rock mines, including those that were closed down during calendar year 2008, (up to and including October 31, 2008). If you commenced any of the civil nuclear fuel cycle-related activities described in this paragraph (a) after October 31, 2008, you must submit an Initial Report on these activities to BIS no later than January 31 of the year following the calendar year in which the activities commenced (see Supplement No. 1 to this Part). You may report these activities as part of your Annual Update Report, in lieu of submitting a separate Initial Report, if you also have an Annual Update Report requirement that applies to the same location and covers the same reporting period (see paragraph (b) of this section). In order to satisfy the Initial Report requirements under this paragraph (a), you must complete and submit to BIS Form AP–1, Form AP–2, and other appropriate Forms, as provided in this paragraph (a).

(1) Research and development activities not involving nuclear material. You must report to BIS any of the civil nuclear fuel cycle-related research and development activities identified in paragraphs (a)(1)(i) and (a)(1)(ii) of this section. Activities subject to these APR reporting requirements include research and development activities related to safe equipment operations for a nuclear fuel cycle-related activity, but do not include activities related to theoretical or basic scientific research or to research and development on industrial radiisotope applications, medical, hydrological and agricultural applications, health and environmental effects and improved maintenance.

(i) You must complete Form AP–3 and submit it to BIS, as provided in § 782.6 of the APR, if you conducted any civil nuclear fuel cycle-related research and development activities defined in § 781.1 of the APR that:
(A) Did not involve nuclear material; and
(B) Were funded, specifically authorized or controlled by, or conducted on behalf of, the United States.

(ii) You must complete Form AP–4 and submit it to BIS, as provided in § 782.6 of the APR, if you conducted any civil nuclear fuel cycle-related research and development activities defined in § 781.1 of the APR that:
(A) Did not involve nuclear material; and
(B) Were funded, specifically authorized or controlled by, or conducted on behalf of, the United States.

(ii) You are required to submit an Annual Update Report to BIS, for any calendar year that follows calendar year 2008, only if you commenced operations at a uranium hard-rock mine or an ore beneficiation plant during the previous calendar year [e.g., the commencement of operations would include, but not be limited to, the resumption of operations at a mine that was previously in “closed-down” status]. Otherwise, see the Annual Update Report and No Changes Report requirements in paragraphs (b)(1) or (b)(2) of this section. For example, you must submit an Annual Update Report to indicate the closed-down status of any uranium hard-rock mine that was indicated in your most recent report to be in either operating or suspended status, but at
which you ceased operations during the previous calendar year.

(b) Annual reporting requirements. You must submit either an Annual Update Report or a No Changes Report to BIS, as provided in §782.6 of the APR, if, during the previous calendar year, you continued to engage in civil nuclear fuel cycle-related activities at a location for which you submitted an Initial Report to BIS in accordance with the APR reporting requirements described in paragraph (a) of this section.

(1) Annual Update Report. You must submit an Annual Update Report to BIS if you have updates or changes to report concerning your location’s activities during the previous calendar year. When preparing your Annual Update Report, you must complete the same report forms that you used for submitting your Initial Report on these activities. However, additional report forms will be required if your location engaged in any civil nuclear fuel cycle-related activities described in paragraph (a) of this section that you did not previously report to BIS. The appropriate report forms for each type of activity that must be reported under the APR are identified in paragraphs (a)(1) through (a)(3) of this section. You must submit your Annual Update Report to BIS no later than January 31 of the year following any calendar year in which the activities took place or there were changes to previously “reported” activities (see Supplement No. 1 to this Part).

(2) No Changes Report. You may submit a No Changes Report, in lieu of an Annual Update Report, if you have no updates or changes concerning your location’s activities (except the certifying official and dates signed and submitted) since your most recent report of activities to BIS. In order to satisfy the reporting requirements under this paragraph (b)(2), you must complete Form AP–16 and submit it to BIS, as provided in §782.6 of the APR, no later than January 31 of the year following any calendar year in which there were no changes to previously “reported” activities or location information (see Supplement No. 1 to this Part).

(3) Additional guidance on annual reporting requirements. (i) If your Initial Report or your most recent Annual Update Report for a location indicates that all civil nuclear fuel cycle-related activities described therein have ceased at that location, and no other reportable activities have occurred during the previous calendar year, then you do not have a reporting requirement for the location under paragraph (b) of this section.

(ii) If your location ceases to engage in activities subject to the APR reporting requirements described in paragraph (a) of this section, and you have not previously reported this to BIS, you must submit an Annual Update Report covering the calendar year in which you ceased to engage in such activities.

(iii) Closed-down mines should be reported only once.

(c) Import Confirmation Report. You must complete Forms AP–1, AP–2 and AP–14 for each import of equipment or non-nuclear material identified in Supplement No. 3 to this Part and submit these forms to BIS, as provided in §782.6 of the APR, if BIS sends you written notification requiring that you provide information concerning imports of such equipment and non-nuclear material. These Forms must be submitted within 30 calendar days of the date that you receive written notification of this requirement from BIS (see Supplement No. 1 to this Part). BIS will provide such notification when it receives a request from the IAEA for information concerning imports of this type of equipment or non-nuclear material. The IAEA may request this information to verify that you received specified equipment or non-nuclear material that was shipped to you by a person, organization, or government from a foreign country.

(d) Supplemental Information Report. You must complete Forms AP–1, AP–2 and AP–15 and submit them to BIS, as provided in §782.6 of the APR, if BIS sends you written notification requiring that you provide information about the activities conducted at your location, insofar as relevant for the purpose of safeguards. These Forms must be submitted within 15 calendar days of the date that you receive written notification of this requirement from BIS (see Supplement No. 1 to this Part). BIS will provide such notification only if the IAEA specifically requests amplification or clarification concerning any information provided in the U.S. Declaration based on your report(s).

(e) Reportable location. A location that must submit an Initial Report, Annual Update Report, or No Changes Report to BIS, pursuant to the requirements of this section, is considered to be a reportable location with declared activities.

§783.2 Amended reports.

In order for BIS to maintain accurate information on previously submitted reports, including information necessary for BIS to facilitate complementary access notifications or to communicate reporting requirements under the APR, Amended Reports are required under the circumstances described in paragraphs (a), (b), and (d) of this section. This section applies only to changes affecting Initial Reports and Annual Update Reports that were submitted to BIS in accordance with the requirements of §783.1(a) and (b) of the APR. The specific report forms that you must use to prepare and submit an Amended Report will depend upon the type of information that you are required to provide, pursuant to this section.

(a) Changes to activity information. You must submit an Amended Report to BIS within 30 calendar days of the time that you discover an error or omission in your most recent Initial Report or Annual Update Report that involves information concerning an activity subject to the reporting requirements described in §783.1(a) or (b) of the APR. Use Form AP–1, and any applicable report forms identified in paragraphs (a), (b), and (d) of this section, and you have not previously reported this to BIS, you must submit an Annual Update Report to BIS, as provided in §782.6 of the APR, if BIS sends you written notification requiring that you provide information concerning imports of such equipment and non-nuclear material. These Forms must be submitted within 30 calendar days of the date that you receive written notification of this requirement from BIS (see Supplement No. 1 to this Part).

(b) Changes to organization and location information that must be maintained by BIS. (1) Internal organization changes. You must submit an Amended Report to BIS within 30 calendar days of any change in the following information (use Form AP–1 to prepare your Amended Report and submit it to BIS, as provided in §782.6 of the APR):

(i) Name of report point of contact (R–POC), including telephone number, facsimile number, and e-mail address;

(ii) Name(s) of complementary access point(s) of contact (C–POC), including phone number(s), facsimile number(s) and e-mail address(es);

(iii) Organization name;

(iv) Organization mailing address;

(v) Location owner, including telephone number, and facsimile number; or

(vi) Location operator, including telephone number, and facsimile number.

(2) Change in ownership of organization. You must submit an Amended Report to BIS if you sold a reportable location or if your reportable location went out of business since submitting your most recent Initial Report, Annual Update Report, or No Changes Report to BIS. You must also submit an Amended Report to BIS if you purchased a reportable location that submitted an Initial Report, Annual Update Report, or No Changes Report to BIS for the most recent reporting period, as specified in §783.1(a) and (b) of the APR. Submit your Amended Report to BIS, as provided in §782.6 of the APR,
either before the effective date of the change in ownership or within 30 calendar days after the effective date of the change.

(i) The following information must be included in an Amended Report submitted to BIS by an organization that is selling or that has sold a reportable location (use Forms AP–1 and AP–16 to prepare your Amended Report—address specific details regarding the sale of a reportable location in Form AP–16):

(A) Name of seller (i.e., name of the organization selling a reportable location);

(B) Reporting Code (this code will be assigned to your location and reported to you by BIS after receipt of your Initial Report);

(C) Name of purchaser (i.e., name of the organization purchasing a reportable location) and name and address of contact person for the purchaser, if known;

(D) Date of ownership transfer or change;

(E) Additional details on the sale of the reportable location relevant to ownership or operational control over any portion of the reportable location (e.g., whether the entire location or only a portion of the reportable location has been sold to a new owner); and

(F) Details regarding whether the new owner of a reportable location will submit the next report for the entire calendar year in which the ownership change occurred, or whether the previous owner and new owner will submit separate reports for the periods of the calendar year during which each owned the reportable location.

(ii) The following information must be included in an Amended Report submitted to BIS by an organization that is purchasing or that has purchased a reportable location (use Forms AP–1 and AP–16 to prepare your Amended Report—address specific details regarding the sale of a reportable location in Form AP–16):

(A) Name of purchaser (i.e., name of the organization purchasing a reportable location); and

(B) Details on the purchase of the reportable location relevant to ownership or operational control over any portion of the reportable location (e.g., whether the purchaser intends to purchase and to maintain operational control over the entire location or only a portion of the reportable location); and

(C) Details on whether the purchaser intends to continue existing civil nuclear fuel cycle-related activities at the reportable location or to cease such activities during the current reporting period.

(iii) If the new owner of a reportable location is responsible for submitting a report that covers the entire calendar year in which the ownership change occurred, the new owner must obtain and maintain possession of the location’s records covering the entire year, including those records for the period of the year during which the previous owner still owned the property.

Note 1 to §783.2(b): Amended Reports that are submitted to identify changes involving internal organization information or changes in ownership are used only for internal U.S. Government purposes and are not forwarded to the IAEA. BIS uses the information it obtains from Amended Reports to update contact information for internal oversight purposes and for IAEA complementary access notifications.

Note 2 to §783.2(b): For ownership changes, the reportable location will maintain its original Reporting Code, unless the location is sold to multiple owners, at which time BIS will assign a new Reporting Code.

(c) Non-substantive changes. If you discover one or more non-substantive typographical errors in your Initial Report or Annual Update Report, after submitting the report to BIS, you are not required to submit an Amended Report to BIS. Instead, you may correct these errors when you submit your next Annual Update Report to BIS.

(d) Amendments related to complementary access. If you are required to submit an Amended Report to BIS following the completion of complementary access (see Part 784 of the APR), BIS will notify you, in writing, of the information that must be amended pursuant to §784.6 of the APR. Complete and submit Form AP–1 (organization information) and/or the specific report forms required by section 783.1(a) or (b) of the APR, according to the type(s) of activities for which information is being requested. You must submit your Amended Report to BIS, as provided in §782.6 of the APR, no later than 30 calendar days following your receipt of BIS’s post-complementary access letter.

(e) Option for submitting amended reports in letter form. If you are required to submit an Amended Report to BIS, pursuant to paragraph (a), (b), or (d) of this section, BIS may permit you to submit your report in the form of a letter that contains all of the corrected information required under this section. Your letter must be submitted to BIS, at the address indicated in §782.6 of the APR, no later than the applicable due date(s) indicated in this section (also see Supplement No. 1 to this Part).

§783.3 Reports containing information determined by BIS not to be required by the APR.

If you submit a report and BIS determines that none of the information contained therein is required by the APR, BIS will not process the report and will notify you, either electronically or in writing, explaining the basis for its decision. BIS will not maintain any record of the report. However, BIS will maintain a copy of the notification.

§783.4 Deadlines for submission of reports and amendments.

Reports and amendments required under this Part must be postmarked by the appropriate date identified in Supplement No. 1 to this Part 783. Required reports and amendments include those identified in paragraphs (a) through (g) of this section.

(a) Initial Report: Submitted by a location that commenced one or more of the civil nuclear fuel cycle-related activities described in §783.1(a) of the APR during the previous calendar year, but that has not yet reported such activities to BIS. However, Initial Reports that are submitted to BIS during calendar year 2008 must describe only those activities in which you are engaged as of October 31, 2008, except that the description of activities involving uranium hard-rock mines must include any such mines that were closed down during calendar year 2008 (up to and including October 31, 2008), as well as mines that were in either operating or suspended status on October 31, 2008 (see §783.1(a)(3)(i) of the APR).

(b) Annual Update Report: Submitted by a reportable location—this report describes changes to previously reported (i.e., declared) activities and any other reportable civil nuclear fuel cycle-related activities that took place at the location during the previous calendar year.

(c) No Changes Report: Submitted by a reportable location, in lieu of an Annual Update Report, when there are no updates or changes to any information, excluding the certifying official and dates signed and submitted, since the previous report submitted by that location.

(d) Import Confirmation Report: Submitted in response to a written notification from BIS, following a specific request by the IAEA.

(e) Supplemental Information Report: Submitted in response to a written notification from BIS, following a specific request by the IAEA.

(f) Amended Report: Submitted by a reportable location to report certain changes affecting the location’s most
recent Initial Report or Annual Update Report.  

Supplement No. 1 to Part 783  

Deadlines for Submission of Reports and Amendments

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Supplement No. 2 to Part 783—Manufacturing Activities

The following constitute manufacturing activities that require the submission of a report to BIS, pursuant to § 783.1(a)(2) of the APR.

1. The manufacture of centrifuge rotor tubes or the assembly of gas centrifuges.  
   **Centrifuge rotor tubes** means thin-walled cylinders described in section 5.1.1(b) of Supplement No. 3 to this Part.  
   **Gas centrifuges** means centrifuges as described in the Introductory Note to section 5.1 of Supplement No. 3 to this Part.  

2. The manufacture of diffusion barriers.  
   **Diffusion barriers** means thin, porous filters as described in section 5.3.1(a) of Supplement No. 3 to this Part.  

3. The manufacture or assembly of laser-based systems.  
   **Laser-based systems** means systems incorporating those items as described in section 5.7 of Supplement No. 3 to this Part.  

4. The manufacture or assembly of electromagnetic isotope separators.  
   **Electromagnetic isotope separators** means those items referred to in Section 5.9.1 of Supplement No. 3 to this Part containing ion sources as described in section 5.9.1(a) of Supplement No. 3 to this Part.

5. The manufacture or assembly of columns or extraction equipment.  
   **Columns** or **extraction equipment** means those items as described in sections 5.6.1, 5.6.2, 5.6.3, 5.6.5, 5.6.6, 5.6.7, and 5.6.8 of Supplement No. 3 to this Part.

6. The manufacture of aerodynamic separation nozzles or vortex tubes.  
   **Aerodynamic separation nozzles** or **vortex tubes** means separation nozzles and vortex tubes described, respectively, in sections 5.5.1 and 5.5.2 of Supplement No. 3 to this Part.

7. The manufacture or assembly of uranium plasma generation systems.  
   **Uranium plasma generation systems** means systems for the generation of uranium plasma as described in section 5.8.3 of Supplement No. 3 to this Part.

8. The manufacture of zirconium tubes.  
   **Zirconium tubes** means tubes as described in section 1.4 of Supplement No. 3 to this Part.

9. The manufacture or upgrading of heavy water or deuterium.  
   **Heavy water** or **deuterium** means deuterium, heavy water (deuterium oxide) and any other deuterium compound in which the ratio of deuterium to hydrogen atoms exceeds 1:5000.

10. The manufacture of nuclear grade graphite.  
    **Nuclear grade graphite** means graphite having a purity level better than 5 parts per million boron equivalent and with a density greater than 1.50 g/cm³.

11. The manufacture of flasks for irradiated fuel.  
    **Flask for irradiated fuel** means a vessel for the transportation and/or storage of irradiated fuel that provides chemical, thermal and radiological protection, and dissipates decay heat during handling, transportation and storage.

12. The manufacture of reactor control rods.  
    **Reactor control rods** means rods as described in section 1.4 of Supplement No. 3 to this Part.

13. The manufacture of critically safe tanks and vessels.  
    **Critically safe tanks and vessels** means those items as described in sections 3.2 and 3.4 of Supplement No. 3 to this Part.

    **Irradiated fuel element chopping machines** means equipment as described in section 3.1 of Supplement No. 3 to this Part.

15. The construction of hot cells.  
    **Hot cells** means a cell or interconnected cells totaling at least 6 cubic meters in volume with shielding equal to or greater than the
equivalent of 0.5 meters of concrete, with a density greater than 1.50 g/cm³ for use in a nuclear reactor, as defined in section 1.1 of this Supplement, capable of on-load operation or employing technically sophisticated positioning or alignment features to allow complex off-load fueling operations such as those in which direct viewing of or access to the fuel is not normally available.

1.4. Reactor control rods

Rods specially designed or prepared for the control of the reaction rate in a nuclear reactor as defined in section 1.1 of this Supplement.

Explanatory Note: This item includes, in addition to the neutron absorbing part, the support or suspension structures therefore if supplied separately.

1.5. Reactor pressure tubes

Tubes which are specially designed or prepared to contain fuel elements and the primary coolant in a reactor, as defined in section 1.1 of this Supplement, at an operating pressure in excess of 5.1 MPa (740 psi).

1.6. Zirconium tubing

Zirconium metal and alloys in the form of tubes or assemblies of tubes, and in quantities exceeding 500 kg in any period of 12 months, specially designed or prepared for use in a reactor, as defined in section 1.1 of this Supplement, and in which the relation of hafnium to zirconium is less than 1:500 parts by weight.

1.7. Primary coolant pumps

Pumps specially designed or prepared for circulating the primary coolant for nuclear reactors, as defined in section 1.1 of this Supplement.

Explanatory Note: Specially designed or prepared pumps may include elaborate sealed or multi-sealed systems to prevent leakage of primary coolant, canned-driven pumps, and pumps with inertial mass systems. The definition encompasses pumps certified to NC–1 or equivalent standards.

2. Non-nuclear materials for reactors

2.1. Deuterium and heavy water

Deuterium, heavy water (deuterium oxide) and any other deuterium compound in which the ratio of deuterium to hydrogen atoms exceeds 1:5000 for use in a nuclear reactor, as defined in section 1.1 of this Supplement, in quantities exceeding 200 kg of deuterium atoms for any one recipient country in any period of 12 months.

2.2. Nuclear grade graphite

Graphite having a purity level better than 5 parts per million boron equivalent and with a density greater than 1.50 g/cm³ for use in a nuclear reactor, as defined in section 1.1 of this Supplement, in quantities exceeding 3 × 10⁶ kg (30 metric tons) for any one recipient country in any period of 12 months.

Note: For the purpose of reporting, the Government will determine whether or not the exports of graphite meeting the specifications of this section 2.2 are for nuclear reactor use.

3. Plants for the reprocessing of irradiated fuel elements, and equipment specially designed or prepared therefor

Introductory Note: Reprocessing irradiated nuclear fuel separates plutonium and uranium from intensely radioactive fission products and other transuranic elements. Different technical processes can accomplish this separation. However, over the years Purex has become the most commonly used and accepted process. Purex involves the dissolution of irradiated nuclear fuel in nitric acid, followed by separation of the uranium, plutonium, and fission products by solvent extraction using a mixture of tributyl phosphate in an organic diluent. Purex facilities have process functions similar to each other, including: Irradiated fuel element chopping, fuel dissolution, solvent extraction, and process liquor storage. There may also be equipment for thermal denitration of uranium nitrate, conversion of plutonium nitrate to oxide or metal, and treatment of fission product waste liquor to a form suitable for long term storage or disposal. However, the specific type and configuration of the equipment performing these functions may differ between Purex facilities for several reasons, including the type and quantity of irradiated nuclear fuel to be reprocessed and the intended disposition of the recovered materials, and the safety and maintenance philosophy incorporated into the design of the facility. A “plant for the reprocessing of irradiated fuel elements” includes the equipment and components which normally come in direct contact with and directly control the irradiated fuel and the major nuclear material and fission product processing streams. These processes, including the complete systems for plutonium conversion and plutonium metal production, may be identified by the measures taken to avoid criticality (e.g., by geometry), radiation exposure (e.g., by shielding), and toxicity hazards (e.g., by containment). Items of equipment that are considered to fall within the meaning of the phrase “and equipment specially designed or prepared” for the reprocessing of irradiated fuel elements include:

3.1. Irradiated fuel element chopping machines

Introductory Note: This equipment breaches the cladding of the fuel to expose the irradiated nuclear material to dissolution. Specially designed metal cutting shears are the most commonly employed, although advanced equipment, such as lasers, may be used. Remotely operated equipment specially designed or prepared for use in a reprocessing plant, as identified in the introductory paragraph of this section, and intended to cut, chop or shear irradiated nuclear fuel assemblies, bundles or rods.

3.2. Dissolvers

Introductory Note: Dissolvers normally receive the chopped-up spent fuel. In these critically safe vessels, the irradiated nuclear material is dissolved in nitric acid and the remaining hulls removed from the process stream. Critically safe tanks (e.g., small
3.3. Solvent extractors and solvent extraction equipment

Introductory Note: Solvent extractors both receive the solution of irradiated fuel from the dissolvers and the organic solution which separates the uranium, plutonium, and fission products. Solvent extraction equipment is normally designed to meet strict operating parameters, such as long operating lifetimes with no maintenance requirements or adaptability to easy replacement, simplicity of operation and control, and flexibility for variations in process conditions. Specially designed or prepared solvent extractors such as packed or pulse columns, mixer settlers or centrifugal contactors for use in a plant for the reprocessing of irradiated fuel. Solvent extractors must be resistant to the corrosive effect of nitric acid. Solvent extractors are normally fabricated to extremely high standards (including special welding and inspection and quality assurance and quality control techniques) out of low carbon stainless steels, titanium, zirconium, or other high quality materials.

3.4. Chemical holding or storage vessels

Introductory Note: Three main process liquor streams result from the solvent extraction step. Holding or storage vessels are used in the further processing of all three streams, as follows:

(a) The pure uranium nitrate solution is concentrated by evaporation and passed to a denitration process where it is converted to uranium oxide. This oxide is re-used in the nuclear fuel cycle.

(b) The intensely radioactive fission products are normally concentrated by evaporation and stored as a liquid concentrate. This concentrate may be subsequently evaporated and converted to a form suitable for storage or disposal.

(c) The pure plutonium nitrate solution is concentrated and stored pending its transfer to further processing steps. In particular, holding or storage vessels for plutonium solutions are designed to avoid criticality problems resulting from changes in concentration and form of this stream. Specially designed or prepared holding or storage vessels for use in a plant for the reprocessing of irradiated fuel. The holding or storage vessels must be resistant to the corrosive effect of nitric acid. The holding or storage vessels are normally fabricated of materials such as low carbon stainless steels, titanium or zirconium, or other high quality materials. Holding or storage vessels may be designed for remote operation and maintenance and may have the following features for control of nuclear criticality: (1) Walls or internal structures with a boron equivalent of at least two percent; (2) a maximum diameter of 175 mm (7 in) for cylindrical vessels; or (3) a maximum width of 75 mm (3 in) for either a slab or annular vessel.

3.5. Plutonium nitrate to oxide conversion system

Introductory Note: In most reprocessing facilities, this final process involves the conversion of the plutonium nitrate solution to plutonium dioxide. The main functions involved in this process are: process feed storage and adjustment, precipitation and solid/liquid separation, calcination, product handling, ventilation, waste management, and process control. Complete systems specially designed or prepared for the conversion of plutonium nitrate to plutonium oxide, in particular adapted so as to avoid criticality and radiation effects and to minimize toxicity hazards.

3.6. Plutonium oxide to metal production system

Introductory Note: This process, which could be related to a reprocessing facility, involves the fluorination of plutonium dioxide, normally with highly corrosive hydrogen fluoride, to produce plutonium fluoride which is subsequently reduced using high purity calcium metal to produce metallic plutonium and a calcium fluoride slag. The main functions involved in this process are: fluorination (e.g., involving equipment fabricated or lined with a precious metal), metal reduction (e.g., employing ceramic crucibles), slag recovery, product handling, ventilation, waste management and process control. Complete systems specially designed or prepared for the production of plutonium metal, in particular adapted so as to avoid criticality and radiation effects and to minimize toxicity hazards.

4. Plants for the fabrication of fuel elements

A "plant for the fabrication of fuel elements" includes the equipment:

(a) Which normally comes in direct contact with, or directly processes, or controls, the production flow of nuclear material, or
(b) Which seals the nuclear material within the cladding.

5. Plants for the separation of isotopes of uranium and equipment, other than analytical instruments, specially designed or prepared therefor

Items of equipment that are considered to fall within the meaning of the phrase "equipment, other than analytical instruments, specially designed or prepared" for the separation of isotopes of uranium include:

5.1. Gas centrifuges and assemblies and components specially designed or prepared for use in gas centrifuges

Introductory Note: The gas centrifuge normally consists of a thin-walled cylinder(s) of between 75 mm (3 in) and 400 mm (16 in) diameter contained in a vacuum environment and spun at high peripheral speed of the order of 300 m/s or more with its central axis vertical. In order to achieve high speed the materials of construction for the rotating components have to be of a high strength to density ratio and the rotor assembly, and hence its individual components, have to be manufactured to very close tolerances in order to minimize the unbalance. In contrast to other centrifuges, the gas centrifuge for uranium enrichment is characterized by having within the rotating chamber, a rotating disc-shaped baffle(s) and a stationary tube arrangement for feeding and extracting the UF6 gas and featuring at least 3 separate channels, of which 2 are connected to scoops extending from the rotor axis towards the periphery of the rotor chamber. At least one of the channels contained within the vacuum environment are a number of critical items which do not rotate and which although they are specially designed are not difficult to fabricate nor are they fabricated out of unique materials. A centrifuge facility however requires a large number of these components, so that quantities can provide an important indication of end use.

5.1.1. Rotating components

(a) Complete rotor assemblies: Thin-walled cylinders, or a number of interconnected thin-walled cylinders, manufactured from one or more of the high strength to density ratio materials described in the Explanatory Note to section 5.1.1 of this Supplement. If interconnected, the cylinders are joined together by flexible bellows or rings as described in section 5.1.1(c) of this Supplement. The rotor is fitted with an internal baffle(s) and end caps, as described in section 5.1.1(d) and (e) of this Supplement, if in final form. However the complete assembly may be delivered only partly assembled.

(b) Rotor tubes: Specially designed or prepared thin-walled cylinders with thickness of 12 mm (0.5 in) or less, a diameter of between 75 mm (3 in) and 400 mm (16 in), and manufactured from one or more of the high strength to density ratio materials described in the Explanatory Note to section 5.1.1 of this Supplement.

(c) Rings or Bellows: Components specially designed or prepared to give localized support to the rotor tube(s) and to join a number of rotor tubes. The bellows is a short cylinder of wall thickness 3 mm (0.12 in) or less, a diameter of between 75 mm (3 in) and 400 mm (16 in), having a convolute, and manufactured from one of the high strength to density ratio materials described in the Explanatory Note to section 5.1.1 of this Supplement.

(d) Baffles: Disc-shaped components of between 75 mm (3 in) and 400 mm (16 in) diameter specially designed or prepared to be mounted inside the centrifuge rotor tube, in order to isolate the take-off chamber from the main separation chamber and, in some cases, to assist the UF6 gas circulation within the main separation chamber of the rotor tube, and manufactured from one of the high strength to density ratio materials described in the Explanatory Note to section 5.1.1 of this Supplement.

(e) Top caps/Bottom caps: Disc-shaped components of between 75 mm (3 in) and 400 mm (16 in) diameter specially designed or prepared to fit to the ends of the rotor tube, and so contain the UF6 within the rotor tube, and in some cases to support, retain or
contain as an integrated part an element of the upper bearing (top cap) or to carry the rotating elements of the motor and lower bearing (bottom cap), and manufactured from one of the high strength to density ratio materials described in the Explanatory Note to section 5.1.3 of this Supplement.

Explanatory Note: The materials used for centrifuge rotating components are:

(a) Maraging steel capable of an ultimate tensile strength of 2.05 × 10^6 N/m² (300,000 psi) or more;
(b) Aluminum alloys capable of an ultimate tensile strength of 0.46 × 10^6 N/m² (67,000 psi) or more;
(c) Filamentary materials suitable for use in composite structures and having a specific modulus of 12.3 × 10^6 m or greater and a specific ultimate tensile strength of 0.3 × 10^6 m or greater (“Specific Modulus” is the Young’s Modulus in N/m² divided by the specific weight in N/m³, “Specific Ultimate Tensile Strength” is the ultimate tensile strength in N/m² divided by the specific weight in N/m³).

5.1.2. Static components

(a) Magnetic suspension bearings: Specially designed or prepared bearing assemblies consisting of an annular magnet suspended within a housing containing a damping medium. The housing will be manufactured from a UF₆-resistant material (see Explanatory Note to section 5.2 of this Supplement.). The magnet couples with a pole piece or a second magnet fitted to the top cap described in section 5.1.1(e) of this Supplement. The magnet may be ring-shaped with a relation between outer and inner diameter smaller or equal to 1.6:1. The magnet may be in a form having an initial permeability of 0.15 H/m (120,000 in CGS units) or more, or a remanence of 98.5% or more, or an energy product of greater than 80 kJ/m³ (109 N/m²). In addition to the usual material properties, it is a prerequisite that the deviation of the magnetic axes from the geometrical axes is limited to very small tolerances (lower than 0.1 mm or 0.004 in) or that homogeneity of the material of the magnet is specifically called for.

(b) Bearings/Dampers: Specially designed or prepared bearings comprising a pivot/cup assembly mounted on a damper. The pivot is normally a hardened steel shaft with a hemispherical nose end and with a means of attachment to the bottom cap, described in section 5.1.1(e) of this Supplement, at the other. The shaft may however have a hydrodynamic bearing attached. The cup is pellet-shaped with a hemispherical indentation in one surface. These components are often supplied separately to the damper.

(c) Molecular pumps: Specially designed or prepared cylinders having internally machined or extruded helical grooves and internally machined bores. Typical dimensions are as follows: 75 mm (3 in) to 400 mm (16 in) internal diameter, 10 mm (0.4 in) or more wall thickness, with the length equal to or greater than the diameter. The grooves are typically rectangular in cross-section and 2 mm (0.08 in) or more in depth.

(d) Motor stators: Specially designed or prepared ring-shaped stators for high speed multiphase AC hysteresis (or reluctance) motors for synchronous operation within a vacuum in the frequency range of 600–2000 Hz and a power range of 50–1000 VA. The stators consist of multi-phase windings on a laminated low loss iron core comprised of thin layers typically 2.0 mm (0.08 in) thick or less.

(e) Centrifuge housing/recipients: Components specially designed or prepared to contain the rotor tube assembly of a gas centrifuge. The housing consists of a rigid cylinder of wall thickness up to 30 mm (1.2 in) with precision machined ends to locate the bearings and with one or more flanges for mounting. The machined ends are parallel to each other and perpendicular to the cylinder’s longitudinal axis to within 0.05 degrees or less. The housing may also be a honeycomb type structure to accommodate several rotor tubes. The housings are made of or protected by materials resistant to corrosion by UF₆.

(f) Scoops: Specially designed or prepared tubes of up to 12 mm (0.5 in) internal diameter for the extraction of UF₆ gas from within the rotor tube by a Pitot tube action (that is, with an aperture facing into the circumferential gas flow within the rotor tube, for example by bending the end of a radially disposed tube) and capable of being fixed to the central gas extraction system. The tubes are made of or protected by materials resistant to corrosion by UF₆.

5.2. Specially designed or prepared auxiliary systems, equipment and components for gas centrifuge enrichment plants

Introductory Note: The auxiliary systems, equipment and components for a gas centrifuge enrichment plant are the systems of plant needed to feed UF₆ to the centrifuges, to link the individual centrifuges to each other to form cascades (or stages) to allow for progressively higher enrichments and to extract the “product” and “tails” UF₆ from the centrifuges, together with the equipment required to drive the centrifuges or to control their operation. Normally UF₆ is evaporated from the solid using heated autoclaves and is distributed in gaseous form to the centrifuges by way of cascade header pipework. The “product” and “tails” UF₆ gaseous streams flowing from the centrifuges are also passed by way of cascade header pipework to cold traps (operating at about 203 K (~ 70 °C) where they are condensed prior to onward transfer into suitable containers for transportation or storage. Because an enrichment plant consists of many thousands of centrifuges arranged in cascades there are many kilometers of cascade header pipework, incorporating thousands of welds with a substantial amount of repetition of layout. The equipment, components and piping systems are fabricated to very high vacuum and cleanliness standards.

5.2.1. Feed systems/product and tails withdrawal systems

Specially designed or prepared process systems including: Feed autoclaves (or stations), used for passing UF₆ to the centrifuge cascades at up to 100 kPa (15 psi) and at a rate of 1 kg/h or more; desublimers (or cold traps) used to remove UF₆ from the cascades at up to 3 kPa (0.5 psi) pressure. The desublimers are capable of being chilled to 203 K (~ 70 °C) and heated to 343 K (70 °C). “Product” and “Tails” stations used for trapping UF₆ into containers. This plant, equipment and pipework is wholly made of or lined with UF₆-resistant materials (see Explanatory Note to section 5.2 of this Supplement) and is fabricated to very high vacuum and cleanliness standards.

5.2.2. Machine header piping systems

Specially designed or prepared piping systems and header systems for handling UF₆ within the centrifuge cascades. The piping network is normally of the “triple” header system with each centrifuge connected to each of the headers. There is thus a substantial amount of repetition in its form. It is wholly made of UF₆-resistant materials (see Explanatory Note to section 5.2 of this Supplement) and is fabricated to very high vacuum and cleanliness standards.

5.2.3. UF₆ mass spectrometers/ion sources

Specially designed or prepared magnetic or quadrupole mass spectrometers capable of taking “on-line” samples of feed, product or tails, from UF₆ gas streams and having all of the following characteristics:

(a) Unit resolution for atomic mass unit greater than 320;
(b) Ion sources constructed of or lined with niobium or monel or nickel plated;
(c) Electron bombardment ionization sources;
(d) Having a collector system suitable for isotopic analysis.

5.2.4. Frequency changers

Frequency changers (also known as converters or invertors) specially designed or prepared to supply motor stators (as defined under section 5.1.2(d) of this Supplement), or parts, components and sub-assemblies of such frequency changers having all of the following characteristics:

(a) A multiphase output of 600 to 2000 Hz;
(b) High stability (with frequency control better than 0.1%);
(c) Low harmonic distortion (less than 2%); and
(d) An efficiency of greater than 80%.

Explanatory Note: The items listed in this section 5.2 either come into direct contact with the UF₆ process gas or directly control the centrifuges and the passage of the gas from centrifuge to cascade to cascade. Materials resistant to corrosion by UF₆ include stainless steel, aluminum, aluminum alloys, nickel or alloys containing 60% or more nickel.

5.3. Specially designed or prepared assemblies and components for use in gaseous diffusion enrichment

Introductory Note: In the gaseous diffusion method of uranium isotope separation, the main technological assembly is a special porous gaseous diffusion barrier, heat exchanger for cooling the gas (which is heated by the process of compression), seal valves and control valves, and pipelines. Inasmuch as gaseous diffusion technology
uses uranium hexafluoride (UF₆), all equipment, pipeline and instrumentation surfaces (that come in contact with the gas) must be made of materials that remain stable in contact with UF₆. A gaseous diffusion facility requires a number of these assemblies, so that quantities can provide an important indication of end use.

5.3.1. Gaseous diffusion barriers
(a) Specially designed or prepared thin, porous filters, with a pore size of 100–1,000 Å (angstroms), a thickness of 5 mm (0.2 in) or less, and for tubular forms, a diameter of 25 mm (1 in) or less, made of metallic, polymer or ceramic materials resistant to corrosion by UF₆, and
(b) Specially prepared compounds or powders for the manufacture of such filters. Such compounds and powders include nickel or alloys containing 60 percent or more nickel, aluminum oxide, or UF₆-resistant fully fluorinated hydrocarbon polymers having a purity of 99.9 percent or more, a particle size less than 10 microns, and a high degree of particle size uniformity, which are specially prepared for the manufacture of gaseous diffusion barriers.

5.3.2. Diffuser housings
Specially designed or prepared hermetically sealed cylindrical vessels greater than 300 mm (12 in) in diameter and greater than 900 mm (35 in) in length, or rectangular vessels of comparable dimensions, which have an inlet connection and two outlet connections all of which are greater than 50 mm (2 in) in diameter, for containing the gaseous diffusion barrier, made of or lined with UF₆-resistant materials and designed for horizontal or vertical installation.

5.3.3. Compressors and gas blowers
Specially designed or prepared axial, centrifugal, or positive displacement compressors, or gas blowers with a suction volume capacity of 1 m³/min or more of UF₆, and with a discharge pressure of up to several hundred kPa (100 psi), designed for long-term operation in the UF₆ environment with or without an electrical motor of appropriate power, as well as separate assemblies of such compressors and gas blowers. These compressors and gas blowers have a pressure ratio between 2:1 and 6:1 and are made of, or lined with, materials resistant to UF₆.

5.3.4. Rotary shaft seals
Specially designed or prepared vacuum seals, with seal feed and seal exhaust connections, for sealing the shaft connecting the compressor or the gas blower rotor with the driver or motor so as to ensure a reliable seal against in-leaking of air into the inner chamber of the compressor or gas blower which is filled with UF₆. Such seals are designed for a buffer gas in-leakage rate of less than 1000 cm³/min (60 m³/min).

5.3.5. Heat exchangers for cooling UF₆
Specially designed or prepared heat exchangers made of or lined with UF₆-resistant materials (except stainless steel) or with copper or any combination of these metals, and intended for a leakage pressure change rate of less than 10 Pa (0.0015 psi) per hour under a pressure difference of 100 kPa (15 psi).

5.4. Specially designed or prepared auxiliary systems, equipment and components for use in gaseous diffusion enrichment

Introductory Note: The auxiliary systems, equipment and components for gaseous diffusion enrichment plants are the systems of plant needed to feed UF₆ to the gaseous diffusion assembly, to link the individual assemblies to each other and to form cascades (or stages) to allow for progressively higher enrichments and to extract the "product" and "tails" UF₆ from the diffusion cascades. Because of the high inertial properties of the gaseous diffusion cascades, any interruption in their operation, and especially their shut-down, leads to serious consequences. Therefore, a strict and constant maintenance of vacuum in all technological systems, automatic protection from accidents, and precise automated regulation of the gas flow is of importance in a gaseous diffusion plant. All this leads to a need to equip the plant with a large number of special measuring, regulating and controlling systems. Normally UF₆ is evaporated from cylinders placed within autoclaves and is distributed in gaseous form to the entry point by way of cascade header pipework. The "product" and "tails" UF₆ gaseous streams flowing from exit points are passed by way of cascade header pipework to either cold traps or to compression stations where the UF₆ gas is liquefied prior to onward transfer into suitable containers for transportation or storage. Because a gaseous diffusion enrichment plant consists of a large number of gaseous diffusion assemblies arranged in cascades, there are many kilometers of cascade header pipework, incorporating thousands of welds with substantial amounts of repetition of layout. The equipment, components and process systems are fabricated to very high vacuum and cleanliness standards.

5.4.1. Feed systems/product and tails withdrawal systems
Specially designed or prepared process systems, capable of operating at pressures of 300 kPa (45 psi) or less, including:
(a) Feed autoclaves (or systems), used for passing UF₆ to the gaseous diffusion cascades;
(b) Desublimers (or cold traps) used to remove UF₆ from diffusion cascades;
(c) Liquefaction stations where UF₆ gas from the cascade is compressed and cooled to form liquid UF₆;
(d) "Product" or "tails" stations used for transferring UF₆ into containers.

5.4.2. Header piping systems
Specially designed or prepared piping systems and header systems for handling UF₆ within the gaseous diffusion cascades. This piping network is normally of the "double header system with each cell connected to each of the headers.

5.4.3. Vacuum systems
(a) Specially designed or prepared large vacuum manifolds, vacuum headers and vacuum pumps having a suction capacity of 5 m³/min (175 ft³/min) or more.
(b) Vacuum pumps specially designed for service in UF₆-bearing atmospheres made of, or lined with, aluminum, nickel, or alloys bearing more than 60% nickel. These pumps may be either rotary or positive, may have displacement and fluidic carbon seals, and may have special working fluids present.

5.4.4. Special shut-off and control valves
Specially designed or prepared manual or automated shut-off and control valves may be either rotary or positive, may have displacement and fluidic carbon seals, and may have special working fluids present.

5.4.5. UF₆ mass spectrometers/ion sources
Specially designed or prepared magnetic or quadrupole mass spectrometers capable of taking "on-line" samples of feed, product or tails, from UF₆ gas streams and having all of the following characteristics:
(a) Unit resolution for atomic mass unit greater than 320.
(b) Ion sources constructed of or lined with niobium or monel or nickel plated;
(c) Electron bombardment ionization sources;
(d) Collector system suitable for isotopic analysis.

Explanatory Note: The items listed in this section 5.4 either come into direct contact with the UF₆ process gas or directly control the flow within the cascade. All surfaces which come into contact with the process gas are wholly made of, or lined with, UF₆-resistant materials. For the purposes of the sections in this Supplement relating to gaseous diffusion items, the materials resistant to corrosion by UF₆ include stainless steel, aluminum, aluminum alloys, aluminum oxide, nickel or alloys containing 60% or more nickel and UF₆-resistant fully fluorinated hydrocarbon polymers.

5.5. Specially designed or prepared systems, equipment and components for use in aerodynamic enrichment plants

Introductory Note: In aerodynamic enrichment processes, a mixture of gaseous UF₆ and light gas (hydrogen or helium) is compressed and then passed through separating elements wherein isotopic separation is accomplished by the generation of high centrifugal forces over a curved-wall geometry. Two processes of this type have been successfully developed: The separation nozzle process and the separator tube process. For both processes the main components of a separation stage include cylindrical vessels housing the special separation elements (nozzles or vortex tubes), gas compressors and heat exchangers to remove the heat of compression. An aerodynamic plant requires a number of these stages, so that quantities can provide an important indication of end use. Since aerodynamic processes use UF₆, all equipment, pipeline and instrumentation surfaces (that come in contact with the gas) must be made of materials that remain stable in contact with UF₆.

Explanatory Note: The items listed in this section 5.5 of this Supplement either come
into direct contact with the UF₆ process gas or directly control the flow within the cascade. All surfaces which come into contact with the process gas are wholly made of or protected by UF₆-resistant materials. For the purposes of the provisions of section 5.5 of this Supplement that relate to aerodynamic enrichment items, the materials resistant to corrosion by UF₆ include copper, stainless steel, aluminum, aluminum alloys, nickel or alloys containing 60% or more nickel and UF₆-resistant fully fluorinated hydrocarbon polymers.

5.5.1. Separation nozzles
Specially designed or prepared separation nozzles and assemblies thereof. The separation nozzles consist of slit-shaped, curved channels having a radius of curvature less than 1 mm (typically 0.1 to 0.05 mm), resistant to corrosion by UF₆ and having a knife-edge within the nozzle that separates the gas flowing through the nozzle into two fractions.

5.5.2. Vortex tubes
Specially designed or prepared vortex tubes and assemblies thereof. The vortex tubes are cylindrical or tapered, made of or protected by materials resistant to corrosion by UF₆, having a diameter of between 0.5 cm and 4 cm, a length to diameter ratio of 20:1 or less and with one or more tangential ports. The tubes may be equipped with nozzle-type appendages at either or both ends.

Explanatory Note: The feed gas enters the vortex tube tangentially at one end or through swirl vanes or at numerous tangential positions along the periphery of the tube.

5.5.3. Compressors and gas blowers
Specially designed or prepared axial, centrifugal or positive displacement compressors or gas blowers made of or protected by materials resistant to corrosion by UF₆ and with a suction volume capacity of 2 m³/min or more of UF₆/carrying gas mixture.

Explanatory Note: These compressors and gas blowers typically have a suction volume capacity between 1.2:1 and 6:1.

5.5.4. Rotary shaft seals
Specially designed or prepared rotary shaft seals, with seal feed and seal exhaust connections, for sealing the shaft connecting the compressor or the gas blower rotor with the driver motor so as to ensure a reliable seal against out-leakage of process gas or in-leakage of air or seal gas into the inner chamber of the compressor or gas blower which is filled with a UF₆/carrying gas mixture.

5.5.5. Heat exchangers for gas cooling
Specially designed or prepared heat exchangers made of or protected by materials resistant to corrosion by UF₆.

5.5.6. Separation element housings
Specially designed or prepared separation element housings, made of or protected by materials resistant to corrosion by UF₆, for containing vortex tubes or separation nozzles.

Explanatory Note: These housings may be cylindrical vessels greater than 300 mm in diameter and greater than 900 mm in length, or may be rectangular vessels of comparable dimensions, and may be designed for horizontal or vertical installation.

5.5.7. Feed systems/product and tails withdrawal systems
Specially designed or prepared process systems or equipment for enrichment plants made of or protected by materials resistant to corrosion by UF₆, including:
(a) Feed autoclaves, ovens, or systems used for passing UF₆ to the enrichment process;
(b) Desublimers (or cold traps) used to remove UF₆ from the enrichment process for subsequent transfer upon heating;
(c) Solidification or liquefaction stations used to remove UF₆ from the enrichment process by compressing and converting UF₆ to a liquid or solid form;
(d) “Product” or “tails” stations used for transferring UF₆ into containers.

5.5.8. Header piping systems
Specially designed or prepared header piping systems, made of or protected by materials resistant to corrosion by UF₆ for handling UF₆ within the aerodynamic cascades. This piping network is normally of the “double” header design with each stage or group of stages connected to each of the headers.

5.5.9. Vacuum systems and pumps
(a) Specially designed or prepared vacuum systems having a suction capacity of 5 m³/min or more, consisting of vacuum manifolds, vacuum headers and vacuum pumps, and designed for service in UF₆-bearing atmospheres;
(b) Vacuum pumps specially designed or prepared for service in UF₆-bearing atmospheres and made of or protected by materials resistant to corrosion by UF₆. These pumps may use fluorocarbon seals and special working fluids.

5.5.10. Special shut-off and control valves
Specially designed or prepared manual or automated shut-off and control bellows valves made of or protected by materials resistant to corrosion by UF₆ with a diameter of 40 to 1500 mm for installation in main and auxiliary systems of aerodynamic enrichment plants.

5.5.11. UF₆ mass spectrometers/ion sources
Specially designed or prepared magnetic or quadrupole mass spectrometers capable of taking “on-line” samples of feed, “product” or “tails,” from UF₆ gas streams and having all of the following characteristics:
(a) Unit resolution for mass greater than 320;
(b) Ion sources constructed of or lined with nichrome or monel or nickel plated;
(c) Electron bombardment ionization sources;
(d) Collector system suitable for isotopic analysis.

5.5.12. UF₆/carrying gas separation systems
Specially designed or prepared process systems for separating UF₆ from carrier gas (hydrogen or helium).

Explanatory Note: These systems are designed to reduce the UF₆ content in the carrier gas to 1 ppm or less and may incorporate equipment such as:
(a) Cryogenetic heat exchangers and cryoseparators capable of temperatures of −120 °C or less;
(b) Cryogenic refrigeration units capable of temperatures of −120 °C or less;
(c) Separation nozzle or vortex tube units for the separation of UF₆ from carrier gas, or
(d) UF₆ cold traps capable of temperatures of −20 °C or less.

5.6. Specially designed or prepared systems, equipment and components for use in chemical exchange or ion exchange enrichment plants

Introductory Note: The slight difference in mass between the isotopes of uranium causes small changes in chemical reaction equilibria that can be used as a basis for separation of the isotopes. Two processes have been successfully developed: Liquid-liquid chemical exchange and solid-liquid ion exchange. In the liquid-liquid chemical exchange process, immiscible liquid phases (aerobic and organic) are countercurrently contacted to give the cascading effect of thousands of separation stages. The aqueous phase consists of uranium chloride in hydrochloric acid solution; the organic phase consists of an extractant containing uranium chloride in an organic solvent. The contactors employed in the separation cascade can be liquid-liquid exchange columns (such as pulsed columns with sieve plates) or liquid centrifugal contactors. Chemical conversions (oxidation and reduction) are required at both ends of the separation cascade in order to provide for the reflux requirements at each end. A major design concern is to avoid contamination of the process streams with certain metal ions. Plastic, plastic-lined (including use of fluorocarbon polymers) and/or glass-lined columns and piping are therefore used. In the solid-liquid ion-exchange process, enrichment is accomplished by uranium adsorption/desorption on a special, very fast-acting, ion-exchange resin or adsorbent. A solution of uranium in hydrochloric acid and other chemical agents is passed through cylindrical enrichment columns containing packed beds of the adsorbent. For a continuous process, a reflux system is necessary to release the uranium from the adsorbent back into the liquid flow so that “product” and “tails” can be collected. This is accomplished with the use of suitable reduction/oxidation chemical agents that are fully regenerated in separate external circuits and that may be partially regenerated within the isotopic separation columns themselves. The presence of hot concentrated hydrochloric acid solutions in the process requires that the equipment be made of or protected by special corrosion-resistant materials.
5.6.1. Liquid-liquid exchange columns (Chemical exchange)

Countercurrent liquid-liquid exchange columns having mechanical power input (i.e., pulsed columns with sieve plates, reciprocating plate columns, and columns with internal turbine mixers), specially designed or prepared for uranium enrichment using the chemical exchange process. For corrosion resistance to concentrated hydrochloric acid solutions, these columns and their internals are made of or protected by suitable plastic materials (such as fluorocarbon polymers) or glass. The stage residence time of the columns is designed to be short (30 seconds or less).

5.6.2. Liquid-liquid centrifugal contactors (Chemical exchange)

Liquid-liquid centrifugal contactors specially designed or prepared for uranium enrichment using the chemical exchange process. Such contactors use rotation to achieve dispersion of the organic and aqueous streams and then centrifugal force to separate the phases. For corrosion resistance to concentrated hydrochloric acid solutions, the contactors are made of or are lined with suitable plastic materials (such as fluorocarbon polymers) or are lined with glass. The stage residence time of the centrifugal contactors is designed to be short (30 seconds or less).

5.6.3. Uranium reduction systems and equipment (Chemical exchange)

(a) Specially designed or prepared electrochemical reduction cells to reduce uranium from one valence state to another for uranium enrichment using the chemical exchange process. The cell materials in contact with process solutions must be corrosion resistant to concentrated hydrochloric acid solutions.

Explanatory Note: The cell cathodic compartment must be designed to prevent re-oxidation of uranium to its higher valence state. To keep the uranium in the cathodic compartment, the cell may have an impervious diaphragm membrane constructed of special cation exchange material. The cathode consists of a suitable solid conductor such as graphite.

(b) Specially designed or prepared systems at the product end of the cascade for taking the U4+ out of the organic stream, adjusting the acid concentration and feeding to the electrochemical reduction cells.

Explanatory Note: These systems consist of solvent extraction equipment for stripping the U4+ from the organic stream into an aqueous solution, evaporation and/or other equipment to accomplish solution pH adjustment and control, and pumps or other transfer devices for feeding to the electrochemical reduction cells. A major design concern is to avoid contamination of the aqueous stream with certain metals. Consequently, for those parts in contact with the process stream, the system is constructed of equipment made of or protected by suitable materials (such as glass, fluorocarbon polymers, polyphenyl sulfone, polyether sulfone, and resin-impregnated graphite).

5.6.4. Feed preparation systems (Chemical exchange)

Specially designed or prepared systems for producing high-purity uranium chloride feed solutions for chemical exchange uranium isotope separation plants.

Explanatory Note: These systems consist of dissolution, solvent extraction and/or ion exchange equipment for producing and/or ion exchange cells for reducing the uranium U4+ or U6+ to U3+. These systems produce uranium chloride solutions having only a few parts per million of metallic impurities such as chromium, iron, vanadium, molybdenum and other bivalent or higher multi-valent cations. Materials of construction for portions of the system processing high-purity U3+ include glass, fluorocarbon polymers, polyphenyl sulfate or polyether sulfone plastic-lined and resin-impregnated graphite.

5.6.5. Uranium oxidation systems (Chemical exchange)

Specially designed or prepared systems for oxidation of U3+ to U4+ for return to the uranium isotope separation cascade in the chemical exchange enrichment process.

Explanatory Note: These systems may incorporate equipment such as:

(a) Equipment for contacting chlorine and oxygen with the aqueous effluent from the oxide separation equipment and extracting the resultant U4+ into the stripped organic stream returning from the product end of the cascade;

(b) Equipment that separates water from hydrochloric acid so that the water and the concentrated hydrochloric acid may be reintroduced to the process at the proper locations.

5.6.6. Fast-acting ion exchange resins/adsorbents (ion exchange)

Fast-acting ion-exchange resins or adsorbents specially designed or prepared for uranium enrichment using the ion exchange process, including porous macrotirectular resins, and/or pellicular structures in which the active chemical exchange groups are limited to a coating on the surface of an inactive porous support structure, and other composite structures in any suitable form including particles or fibers. These ion exchange resins/adsorbents have diameters of 0.2 mm or less and must be chemically resistant to concentrated hydrochloric acid solutions as well as physically strong enough so as not to degrade in the exchange columns. The resins/adsorbents are specially designed to achieve very fast uranium isotope exchange kinetics (exchange half-time of less than 10 seconds) and are capable of operating at a temperature in the range of 100 °C to 200 °C.

5.6.7. Ion exchange columns (Ion exchange)

Cylindrical columns greater than 1,000 mm in diameter for containing and supporting packed beds of ion exchange resin/adsorbent, specially designed or prepared for uranium enrichment using the ion exchange process. These columns are made of or protected by materials (such as titanium or fluorocarbon plastics) resistant to corrosion by concentrated hydrochloric acid solutions and are capable of operating at a temperature in the range of 100 °C to 200 °C and pressures above 0.7 MPa (102 psia).

5.6.8. Ion exchange reflux systems (Ion exchange)

(a) Specially designed or prepared chemical or electrochemical reduction systems for regeneration of the chemical reducing agent(s) used in ion exchange uranium enrichment cascades.

(b) Specially designed or prepared chemical or electrochemical oxidation systems for regeneration of the chemical oxidizing agent(s) used in ion exchange uranium enrichment cascades.

Explanatory Note: The ion exchange enrichment process may use, for example, trivalent titanium (Ti3+) as a reducing cation in which case the reduction system would regenerate Ti4+ by reducing Ti3+. The process may use, for example, trivalent iron (Fe3+) as an oxidant in which case the oxidation system would regenerate Fe3+ by oxidizing Fe2+.

5.7. Specially designed or prepared systems, equipment and components for use in laser-based enrichment plants

Introductory Note: Present systems for enrichment processes using lasers fall into two categories: Those in which the process medium is atomic uranium vapor and those in which the process medium is the vapor of a uranium compound. Common nomenclature for such processes include: First category—atomic vapor laser isotope separation (AVLIS or SILVA); second category—molecular laser isotope separation (MLIS or MOLIS) and chemical reaction by isotope selective laser activation (CRISLA). The systems, equipment and components for laser enrichment plants embrace:

(a) Devices to feed uranium-metal vapor (for selective photo-ionization) or devices to feed the vapor of a uranium compound (for photo-dissociation or chemical activation);

(b) Devices to collect enriched and depleted uranium metal as “product” and “tails” in the first category, and devices to collect dissociated or reacted compounds as “product” and unreacted material as “tails” in the second category;

(c) Process laser systems to selectively excite the uranium-235 species; and

(d) Feed preparation and product conversion equipment. The complexity of the spectroscopy of uranium atoms and compounds may require incorporation of any of a number of available laser technologies.

Explanatory Note: Many of the items listed in section 5.7 of this Supplement come into direct contact with uranium metal vapor or liquid or with process gas consisting of UF6 or a mixture of UF6 and other gases. All surfaces that come into contact with the uranium or UF6 are wholly made of or protected by corrosion-resistant materials. For the purposes of the provisions in section 5.7 of this Supplement that relate to laser-based enrichment items, the materials resistant to corrosion by the vapor or liquid of uranium metal or uranium alloys include yttria-coated graphite and tantalum; and the
materials resistant to corrosion by UF₆ include copper, stainless steel, aluminum, aluminum alloys, nickel or alloys containing 60% or more nickel and UF₆-resistant fully fluorinated hydrocarbon polymers.

5.7.1. Uranium vaporization systems (AVLIS)
Specially designed or prepared uranium vaporization systems which contain high-power strip or scanning electron beam guns with a delivered power on the target of more than 2.5 kW/cm.

5.7.2. Liquid uranium metal handling systems (AVLIS)
Specially designed or prepared liquid metal handling systems for molten uranium or uranium alloys, consisting of crucibles and cooling equipment for the crucibles.

Explanatory Note: The crucibles and other parts of this system that come into contact with molten uranium or uranium alloys are made of or protected by materials of suitable corrosion and heat resistance. Suitable materials include tantalum, yttria-coated graphite, graphite coated with other rare earth oxides or mixtures thereof.

5.7.3. Uranium metal ‘product’ and ‘tails’ collector assemblies (AVLIS)
Specially designed or prepared “product” and “tails” collector assemblies for uranium metal in liquid or solid form.

Explanatory Note: Components for these assemblies are made of or protected by materials resistant to the heat and corrosion of uranium metal vapor or liquid (such as yttria-coated graphite or tantalum) and may include pipes, valves, fittings, “gutters,” feed-throughs, heat exchangers and collector plates for magnetic, electrostatic or other separation methods.

5.7.4. Separator module housings (AVLIS)
Specially designed or prepared cylindrical or rectangular vessels for containing the uranium metal vapor source, the electron beam gun, and the “product” and “tails” collectors.

Explanatory Note: These housings have multiplicity of parts for electrical and water feed-throughs, laser beam windows, vacuum pump connections and instrumentation diagnostics and monitoring. They have provisions for opening and closure to allow refurbishment of internal components.

5.7.5. Supersonic expansion nozzles (MLIS)
Specially designed or prepared supersonic expansion nozzles for cooling mixtures of UF₆ and carrier gas to 150 K or less and which are corrosion resistant to UF₆.

5.7.6. Uranium pentafluoride product collectors (MLIS)
Specially designed or prepared uranium pentafluoride (UF₆) solid product collectors consisting of filter, impact, or cyclone-type collectors, or combinations thereof, and which are corrosion resistant to the UF₆/UF₆ environment.

5.7.7. UF₆/carrier gas compressors (MLIS)
Specially designed or prepared compressors for UF₆/carrier gas mixtures, designed for long term operation in a UF₆ environment. The components of these compressors that come into contact with process gas are made of or protected by materials resistant to corrosion by UF₆.

5.7.8. Rotary shaft seals (MLIS)
Specially designed or prepared rotary shaft seals, with seal feed and seal exhaust connections, for sealing the shaft connecting the compressor rotor with the driver motor so as to ensure a reliable seal against out-leakage of process gas or in-leakage of air or seal gas mixture into the inner chamber of the compressor, which is filled with a UF₆/carrier gas mixture.

5.7.9. Fluorination systems (MLIS)
Specially designed or prepared systems for fluorinating UF₆ (solid) to UF₆ (gas).

Explanatory Note: These systems are designed to fluorinate the collected UF₆ powder to UF₆ for subsequent collection in product containers or for transfer as feed to MLIS units for additional enrichment. In one approach, the fluorination reaction may be accomplished within the isotope separation system to react and recover directly off the “product” collectors. In another approach, the UF₆ powder may be removed/transfered from the “product” collectors into a suitable reaction vessel (e.g., fluidized-bed reactor, screw reactor or flame tower) for fluorination.

In both approaches, equipment for storage and transfer of fluorine (or other suitable fluorinating agents) and for collection and transfer of UF₆ are used.

5.7.10. UF₆ mass spectrometers/ion sources (MLIS)
Specially designed or prepared magnetic or quadrupole mass spectrometers capable of taking “on-line” samples of feed, “product,” or “tails” from UF₆ gas streams and having all of the following characteristics:
(a) Unit resolution for mass greater than 320;
(b) Ion sources constructed of or lined with nichrome or monel or nickel plated;
(c) Electron bombardment ionization sources; and
(d) Collector system suitable for isotopic analysis.

5.7.11. Feed systems/product and tails withdrawal systems (MLIS)
Specially designed or prepared process systems or equipment for enrichment plants made of or protected by materials resistant to corrosion by UF₆, including:
(a) Feed autoclaves, ovens, or systems used for passing UF₆ to the enrichment process;
(b) Dehumidifiers (or cold traps) used to remove UF₆ from the enrichment process for subsequent transfer upon heating;
(c) Solidification or liquefaction stations used to remove UF₆ from the enrichment process by compressing and converting UF₆ to a liquid or solid form;
(d) “Product” or “tails” stations used for transferring UF₆ into containers.

5.7.12. UF₆/carrier gas separation systems (MLIS)
Specially designed or prepared process systems for separating UF₆ from carrier gas.

The carrier gas may be nitrogen, argon, or other gas.

Explanatory Note: These systems may incorporate equipment such as:
(a) Cryogenic heat exchangers or cryo-separators capable of temperatures of –120 °C or less, or
(b) Cryogenic refrigeration units capable of temperatures of –120 °C or less, or
(c) UF₆ cold traps capable of temperatures of –20 °C or less.

5.7.13. Laser systems (AVLIS, MLIS and CRISLA)
Lasers or laser systems specially designed or prepared for the separation of uranium isotopes.

Explanatory Note: The laser system for the AVLIS process usually consists of two lasers: A copper vapor laser and a dye laser. The laser system for MLIS usually consists of a CO₂ or excimer laser and a multi-pass optical cell with revolving mirrors at both ends. Lasers or laser systems for both processes require a spectrum frequency stabilizer for operation over extended periods of time.

5.8. Specially designed or prepared systems, equipment and components for use in plasma separation enrichment plants

Introductory Note: In the plasma separation process, a plasma of uranium ions passes through an electric field tuned to the U–235 ion resonance frequency so that they preferentially absorb energy and increase the diameter of their corkscrew-like orbits. Ions with a large-diameter path are trapped to produce a product enriched in U–235. The plasma, which is made by ionizing uranium vapor, is contained in a vacuum chamber with a high-strength magnetic field produced by a superconducting magnet. The main technological systems of the process include the uranium plasma generation system, the separator module with superconducting magnet and metal removal systems for the collection of “product” and “tails.”

5.8.1. Microwave power sources and antennae
Specially designed or prepared microwave power sources and antennae for producing or accelerating ions and having the following characteristics: Greater than 30 GHz frequency and greater than 50 kW mean power output for ion production.

5.8.2. Ion excitation coils
Specially designed or prepared radio frequency ion excitation coils for frequencies of more than 100 kHz and capable of handling more than 40 kW mean power.

5.8.3. Uranium plasma generation systems
Specially designed or prepared systems for the generation of uranium plasma, which may contain high-power strip or scanning electron beam guns with a delivered power on the target of more than 2.5 kW/cm.

5.8.4. Liquid uranium metal handling systems
Specially designed or prepared liquid metal handling systems for molten uranium or uranium alloys, consisting of crucibles and cooling equipment for the crucibles, power
supply system, the ion source high-voltage power supply system, the vacuum system, and extensive chemical handling systems for recovery of product and cleaning/recycling of components.

5.9.1. Electromagnetic isotope separators

Electromagnetic isotope separators specially designed or prepared for the separation of uranium isotopes, and equipment and components thereof, including:

(a) Ion sources: Specially designed or prepared single or multiple uranium ion sources consisting of a vapor source, ionizer, and beam accelerator, constructed of suitable materials such as graphite, stainless steel, or copper, and capable of providing a total ion beam current of 50 mA or greater;

(b) Ion collectors: Collector plates consisting of two or more slits and pockets specially designed or prepared for collection of enriched and depleted uranium ion beams consisting of two or more slits and pockets specially designed or prepared for collection of enriched and depleted uranium ion beams, and constructed of suitable materials such as graphite, stainless steel, or copper, and capable of providing a total ion beam current of 50 mA or greater;

(c) Vacuum housings: Specially designed or prepared vacuum housings for uranium electromagnetic separators, constructed of suitable non-magnetic materials such as stainless steel and designed for operation at pressures of 0.1 Pa or lower.

Explanatory Note: The housings are specially designed to contain the ion sources, collector plates and water-cooled liners and have provision for diffusion pump connections and opening and closure for removal and reinstallation of these components.

5.9.2. High voltage power supplies

Specially designed or prepared high-voltage power supplies for ion sources, having all of the following characteristics: capable of continuous operation, output voltage of 20,000 V or greater, output current of 1 A or greater, and voltage regulation of better than 0.01% over a time period of 8 hours.

5.9.3. Magnet power supplies

Specially designed or prepared high-power, direct current magnet power supplies having all of the following characteristics: capable of continuously producing a current output of 50 A or greater at a voltage of 100 V or greater and with a current or voltage regulation better than 0.01% over a period of 8 hours.

6. Plants for the production of heavy water, deuterium and deuterium compounds and equipment specially designed or prepared therefor

Introductory Note: Heavy water can be produced by a variety of processes. However, the two processes that have proven to be commercially viable are the water-hydrogen sulphide exchange process (GS process) and the ammonia-hydrogen exchange process. The GS process is based upon the exchange of hydrogen and deuterium between water and hydrogen sulphide within a series of towers which are operated with the top section cold and the bottom section hot. Water flows down the towers while the hydrogen sulphide gas circulates from the bottom to the top of the towers. A series of perforated trays are used to promote mixing between the gas and the water. Deuterium migrates to the water at low temperatures and to the hydrogen sulphide at high temperatures. The water, enriched in deuterium, is removed from the first stage towers at the junction of the hot and cold sections and the process is repeated in subsequent stage towers. The product of the last stage, water enriched up to 30% in deuterium, is sent to a distillation unit to produce reactor grade heavy water, i.e., 99.7% deuterium oxide. The ammonia-hydrogen exchange process can extract deuterium from synthesis gas through contact with liquid ammonia in the presence of a catalyst. The gas is fed into exchange towers and to an ammonia converter. Inside the towers the gas flows from the bottom to the top while the liquid ammonia flows from the top to the bottom. The deuterium is stripped from the hydrogen in the synthesis gas and concentrated in the ammonia. The ammonia then flows into an ammonia cracker at the bottom of the tower while the gas flows into an ammonia converter at the top. Further enrichment takes place in subsequent stages and reactor grade heavy water is produced through final distillation. The synthesis gas feed can be provided by an ammonia plant that, in turn, can be constructed in association with a heavy water ammonia-hydrogen exchange plant. The ammonia-hydrogen exchange process can also use ordinary water as a feed source of deuterium.

Many of the key equipment items for heavy water production plants using GS or the ammonia-hydrogen exchange processes are common to several segments of the chemical and petroleum industries. This is particularly so for small plants. However, few of the items are available "off-the-shelf." The GS and ammonia-hydrogen processes require the handling of large quantities of flammable, corrosive and toxic fluids at elevated pressures. Accordingly, in establishing the design and operating standards for plants and equipment using these processes, careful attention to the materials selection and specifications is required to ensure long service life with high safety and reliability factors. The choice of scale is primarily a function of economics and need. Thus, most of the equipment items would be prepared according to the requirements of the customer. Finally, it should be noted that, in both the GS and the ammonia-hydrogen exchange processes, items of equipment which individually are not specially designed or prepared for heavy water production can be assembled into systems which are specially designed or prepared for producing heavy water. The catalyst production system used in the ammonia-hydrogen exchange process and water distillation systems used for the final concentration of heavy water to reactor-grade in either process are examples of such systems. The items of equipment which are specially designed or prepared for the production of heavy water utilizing either the water-hydrogen sulphide exchange process or the ammonia-hydrogen exchange process include the following:

6.1. Water-hydrogen sulphide exchange towers

Exchange towers fabricated from fine carbon steel (such as ASTM A516) with diameters of 6 m (20 ft) to 9 m (30 ft), capable of operating at pressures greater than or equal to 2 MPa (300 psi) and with a corrosion allowance of 6 mm or greater, specially designed or prepared for heavy water production utilizing the water-hydrogen sulphide exchange process.

6.2. Blowers and compressors

Single stage, low head (i.e., 0.2 MPa or 30 psi) centrifugal blowers or compressors for hydrogen-sulphide gas circulation (i.e., gas containing more than 70% H2S) specially designed or prepared for heavy water production utilizing the water-hydrogen sulphide exchange process. These blowers or compressors have a throughput capacity greater than or equal to 56 m³/second (120,000 SCFM) while operating at pressures greater than or equal to 1.8 MPa (260 psi) suction and have seals designed for wet H2S service.

6.3. Ammonia-hydrogen exchange towers

Ammonia-hydrogen exchange towers greater than or equal to 35 m (114.3 ft) in height with diameters of 1.5 m (4.9 ft) to 2.5 m (8.2 ft) capable of operating at pressures greater than 15 MPa (2225 psi) specially designed or prepared for heavy water production utilizing the ammonia-hydrogen exchange process. These towers also have at least one flanged axial opening of the same diameter as the cylindrical part through which the tower internals can be inserted or withdrawn.

6.4. Tower internals and stage pumps

Tower internals and stage pumps specially designed or prepared for towers for heavy water production utilizing the ammonia-hydrogen exchange process. Tower internals include specially designed stage contactors which promote intimate gas/liquid contact. Stage pumps include specially designed submersible pumps for circulation of liquid ammonia within a contacting stage internal to the stage towers.

6.5. Ammonia crackers

Ammonia crackers with operating pressures greater than or equal to 3 MPa (450 psi) specially designed or prepared for heavy water production utilizing the ammonia-hydrogen exchange process.

6.6. Infrared absorption analyzers

Infrared absorption analyzers capable of "on-line" hydrogen/deuterium ratio analysis where deuterium concentrations are equal to or greater than 90%.

6.7. Catalytic burners

Catalytic burners for the conversion of enriched deuterium gas into heavy water
specially designed or prepared for heavy water production utilizing the ammonia-
hydrogen exchange process.

7. Plants for the conversion of uranium and equipment specially designed or prepared therefor

Introductory Note: Uranium conversion plants and systems may perform one or more transformations from one uranium chemical species to another, including: conversion of uranium ore concentrates to UO\(_3\), conversion of UO\(_3\) to UO\(_2\), conversion of uranium oxides to UF\(_6\) or UF\(_3\), conversion of UF\(_3\) to UF\(_6\), conversion of UF\(_3\) to UF\(_6\), conversion of UF\(_3\) to uranium metal, and conversion of uranium fluorides to UO\(_2\). Many of the key equipment items for uranium conversion plants are common to several segments of the chemical process industry. For example, the types of equipment employed in these processes may include: furnaces, rotary kilns, fluidized bed reactors, flame tower reactors, liquid centrifuges, distillation columns and liquid-liquid extraction columns. However, few of the items are available “off-the-shelf;” most would be prepared according to the requirements and specifications of the customer. In some instances, special design and construction considerations are required to address the corrosive properties of some of the chemicals handled (HF, F\(_2\), CIF\(_3\), and uranium fluorides). Finally, it should be noted that, in all of the uranium conversion processes, items of equipment which individually are not specially designed or prepared for uranium conversion can be assembled into systems which are specially designed or prepared for use in uranium conversion.

7.1. Specially designed or prepared systems for the conversion of uranium ore concentrates to UO\(_3\)

Explanatory Note: Conversion of uranium ore concentrates to UO\(_3\) can be performed by first dissolving the ore in nitric acid and extracting purified uranyl nitrate using a solvent such as tributyl phosphate. Next, the uranyl nitrate is converted to UO\(_3\) either by concentration and denitrification or by neutralization with gaseous ammonia to produce ammonium diuranate with subsequent filtering, drying, and calcining.

7.2. Specially designed or prepared systems for the conversion of UO\(_3\) to UF\(_6\)

Explanatory Note: Conversion of UO\(_3\) to UF\(_6\) can be performed directly by fluorination. The process requires a source of fluorine gas or chlorine trifluoride.

7.3. Specially designed or prepared systems for the conversion of UO\(_3\) to UO\(_2\)

Explanatory Note: Conversion of UO\(_3\) to UO\(_2\) can be performed through reduction of UO\(_3\) with cracked ammonia gas or hydrogen.

7.4. Specially designed or prepared systems for the conversion of UO\(_2\) to UF\(_6\)

Explanatory Note: Conversion of UO\(_2\) to UF\(_6\) can be performed by reacting UO\(_2\) with hydrogen fluoride gas (HF) at 300–500 °C.

7.5. Specially designed or prepared systems for the conversion of UF\(_3\) to UF\(_6\)

Explanatory Note: Conversion of UF\(_3\) to UF\(_6\) is performed by exothermic reaction with fluorine in a tower reactor. UF\(_3\) is condensed from the hot effluent gases by passing the effluent stream through a cold trap cooled to −10 °C. The process requires a source of fluorine gas.

7.6. Specially designed or prepared systems for the conversion of UF\(_6\) to U metal

Explanatory Note: Conversion of UF\(_6\) to U metal is performed by reduction with magnesium (large batches) or calcium (small batches). The reaction is carried out at temperatures above the melting point of uranium (1130 °C).

7.7. Specially designed or prepared systems for the conversion of UF\(_6\) to UO\(_2\)

Explanatory Note: Conversion of UF\(_6\) to UO\(_2\) can be performed by one of three processes. In the first, UF\(_6\) is reduced and hydrolyzed to UO\(_2\) using hydrogen and steam. In the second, UF\(_6\) is hydrolyzed by solution in water, ammonia is added to precipitate ammonium diuranate, and the diuranate is reduced to UO\(_2\) with hydrogen at 620 °C. In the third process, gaseous UF\(_6\), CO\(_2\), and NH\(_3\) are combined in water, precipitating ammonium uranyl carbonate. The ammonium uranyl carbonate is combined with steam and hydrogen at 500–600 °C to yield UO\(_2\). UF\(_3\) to UO\(_2\) conversion is often performed as the first stage of a fuel fabrication plant.

7.8 Specially designed or prepared systems for the conversion of UF\(_6\) to UF\(_3\)

Explanatory Note: Conversion of UF\(_6\) to UF\(_3\) is performed by reduction with hydrogen.

PART 784—COMPLEMENTARY ACCESS

Sec. 784.1 Complementary access: General information on the purpose of complementary access, affected locations, and the role of BIS.

784.2 Obtaining consent or warrants to conduct complementary access.

784.3 Scope and conduct of complementary access.

784.4 Notification, duration and frequency of complementary access.

784.5 Subsidiary arrangements.

784.6 Post complementary access activities.

Complementary access may be conducted, on a selective basis, to verify the absence of undeclared nuclear material and nuclear related activities at reportable uranium hard-rock mines and ore beneficiation plants.

(a) Overview. The Additional Protocol requires that the United States provide the IAEA with complementary access to locations specified in the U.S. declaration. The IAEA may request and be given complementary access to locations in the United States that are not included in the U.S. declaration as agreed to by the U.S. Government. The IAEA, upon request, will be granted complementary access to locations in the United States in accordance with the provisions of §784.2 of the APR, which describes the scope and conduct of complementary access.

(b) Purposes authorized under the APR. The APR authorize the conduct of complementary access, at locations in the United States, for the following purposes.

1. Declared uranium hard-rock mines and ore beneficiation plants.

Complementary access may be conducted, on a selective basis, to verify the absence of undeclared nuclear material and nuclear related activities at reportable uranium hard-rock mines and ore beneficiation plants (see §783.1(a)(3) of the APR).

2. Other locations specified in the U.S. declaration and locations requested by the IAEA that are not included in the U.S. declaration as agreed to by the U.S. Government.

Complementary access may be conducted at other locations specified in the U.S. declaration (i.e., locations required to submit reports to BIS pursuant to §765.1(a)(1), (a)(2), or (b) of the APR), and locations requested by the IAEA and agreed to by the U.S. Government, to resolve questions relating to the correctness and completeness of the information provided in the U.S. declaration or to resolve inconsistencies relating to that information.

(i) In the event that the IAEA has a question about, or identifies an apparent inconsistency in, information contained in the U.S. declaration (e.g., information based on reports submitted to BIS by one of these locations, pursuant to §783.1(a)(1), (a)(2), or (b) of the APR), the IAEA will provide the U.S. Government with an opportunity to clarify or resolve the question or inconsistency. The IAEA will not draw any conclusions about the question or inconsistency, or request complementary access to a location, until the U.S. Government has been provided with an opportunity to clarify or resolve the question or inconsistency, unless the IAEA considers that a delay in access would prejudice the purpose for which the access is sought.

(ii) Upon receipt of a request from the IAEA for clarification concerning information contained in the U.S. declaration, BIS will provide written notification to the U.S. location.
U.S. location must provide BIS with all of the requested information to clarify or resolve the question or inconsistency raised by the IAEA. Unless informed otherwise by BIS, the U.S. location will have 15 calendar days from its receipt of written notification to submit the required forms to BIS (see the Supplemental Information Report requirements in § 783.1(d) of the APR).

(c) Locations subject to complementary access. All locations specified in the U.S. declaration and other locations requested by the IAEA and agreed to by the U.S. Government are subject to complementary access by the IAEA. In cases where access cannot be provided to locations specified by the IAEA, BIS may seek to provide complementary access to adjacent locations or to satisfy the purposes of complementary access (see paragraph (b) of this section) through other means.

(d) Responsibilities of BIS. As the lead U.S. Government agency and point of contact for organizing and facilitating complementary access pursuant to the APR, BIS will:

(1) Serve as the official U.S. Government host to the IAEA inspection team;

(2) Provide prior written notification to any location that is scheduled to undergo complementary access;

(3) Take appropriate action to obtain an administrative warrant in the event that a location does not consent to complementary access;

(4) Upon request of the location, dispatch an advance team, if time and other circumstances permit, to the location to provide administrative and logistical support for complementary access and to assist with preparation for such access;

(5) Accompany the IAEA Team throughout the duration of complementary access;

(6) Assist the IAEA Team with complementary access activities and ensure that each activity adheres to the provisions of the Additional Protocol and to the requirements of the APR and the Act, including the conditions of any warrant issued thereunder; and

(7) Assist in the negotiation and development of a location-specific subsidiary arrangement between the U.S. Government and the IAEA, if appropriate (see § 784.5 of the APR).

Note to § 784.1(d): BIS may invite representatives from other U.S. Government agencies to participate as members of the Advance and Host Teams for complementary access. The Host Team will not include employees of the Environmental Protection Agency, the Mine Safety and Health Administration, or the Occupational Safety and Health Administration of the Department of Labor.

§ 784.2 Obtaining consent or warrants to conduct complementary access.

(a) Procedures for obtaining consent.

(1) For locations specified in the U.S. declaration and other locations specified by the IAEA, BIS will seek consent pursuant to IAEA complementary access requests. In instances where the owner, operator, occupant or agent in charge of a location does not consent to such complementary access, BIS will seek administrative warrants as provided by the Act.

(2) For locations specified by the IAEA where access cannot be provided, BIS may seek consent from an adjacent location pursuant to an IAEA complementary access request.

(b) Who may give consent. The owner, operator, occupant or agent in charge of a location may consent to complementary access. The individual providing consent on behalf of the location represents that he or she has the authority to make this decision.

(c) Scope of consent. (1) When the owner, operator, occupant, or agent in charge of a location consents to a complementary access request, he or she is agreeing to provide the IAEA Team with the same degree of access as that authorized under § 784.3 of the APR. This includes providing access for the IAEA Team and Host Team to any area of the location, any item on the location, and any records that are necessary to comply with the APR and allow the IAEA Team to accomplish the purpose of complementary access, as authorized under § 784.1(b)(1) or (b)(2) of the APR, except for the following:

(i) Information subject to the licensing jurisdiction of the Directorate of Defense Trade Controls (DDTC), U.S. Department of State, under the International Traffic in Arms Regulations (ITAR) (22 CFR Parts 120 through 130)—see § 784.3(b)(3) of the APR, which states that such access cannot be provided without prior U.S. Government authorization; and

(ii) Activities with direct national security significance to the United States, or locations or information associated with such activities.

(2) The Host Team Leader is responsible for determining whether or not the IAEA’s request to obtain access to any area, building, or item, or to record or conduct the types of activities described in § 784.3 of the APR is consistent with the Additional Protocol and subsidiary arrangements to the Additional Protocol.

Note to § 784.3(b)(1)(v): BIS will not seek access to a location for location-specific environmental sampling until the President reports to the appropriate congressional committees his determination to permit such sampling.

Note to § 784.3(b)(1)(vi): Utilize other objective measures which have been demonstrated to be technically feasible and the use of which have been agreed to by the United States (“objective measures,” as used herein, means any verification techniques that would be appropriate...
for achieving the official purpose of complementary access, both in terms of their
effectiveness and limited intrusiveness).

(2) Wide Area Environmental Sampling. In certain cases, IAEA
inspectors may collect environmental samples (e.g., air, water, vegetation, soil,
smears), at a location specified by the IAEA, for the purpose of assisting the
IAEA to draw conclusions about the
absence of undeclared nuclear material
or nuclear activities over a wide area.

Note to § 784.3(b)(2): The IAEA will not
seek such access until the use of wide-area
environmental sampling and the procedural
arrangements therefor have been approved by
its Board of Governors and consultations
have been held between the IAEA and the
United States. BIS will not seek access to a
location for wide-area sampling until the
President reports to the appropriate
congressional committees his determination
to permit such sampling.

(3) ITAR-controlled technology. ITAR-
controlled technology shall not be made
available to the IAEA Team without
prior U.S. Government authorization.
The owner, operator, occupant, or agent
in charge of the location being accessed
is responsible for identifying any ITAR-
controlled technology at the location to
the Host Team as soon as practicable
following the receipt of notification
from BIS of complementary access (see
§ 784.4(a) of the APR).

(c) Briefing. Following the arrival of
the IAEA Team and Host Team at a
location subject to complementary
access, and prior to the commencement
of complementary access,
representatives of the organization will
provide the IAEA Team and Host Team
with a briefing on the environmental,
health, safety, and security regulations
(e.g., regulations for protection of
controlled environments within the
location and for personal safety) that are
applicable to the location and which
must be observed. In addition, the
organization’s representatives may
include in their briefing an overview of the
location, the activities carried out at
the location, and any administrative
and logistical arrangements relevant to
complementary access. The briefing
may include the use of maps and other
documentation deemed appropriate by
the organization. The time spent for the
briefing may not exceed one hour, and
the content should be limited to that
which relates to the purpose of
complementary access. The briefing
may also address any of the following:

(1) Areas, buildings, and structures
specific to any activities relevant to
complementary access;

(2) Administrative and logistical
information;

(3) Updates/revisions to reports
required under the APR;

(4) Introduction of key personnel at
the location;

(5) Location-specific subsidiary
arrangement, if applicable; and

(6) Proposed access plan to address
the purpose of complementary access.

(d) Visual access. The IAEA Team
may visually observe areas or parts of
the location, as agreed by the Host Team
Leader, after the Host Team Leader has consulted with the organization’s
representative for the location.

(e) Records review. The location must
be prepared to provide the IAEA Team
with access to all supporting materials
and documentation used by the owner,
operator, occupant, or agent in charge of
the location to prepare reports required
under the APR and to otherwise comply
with the APR (see the records
inspection and recordkeeping
requirements in §§ 786.1 and 786.2 of
the APR and paragraph (b) of this
section, which describes the scope
of complementary access activities
authorized under the APR) and with
appropriate accommodations in which
the IAEA Team can review these
supporting materials and
documentation. Such access will be
provided in appropriate formats (e.g.,
paper copies, electronic remote access
by computer, microfilm, or microfiche)
through the Host Team to the IAEA
Team during the complementary access
period or as otherwise agreed upon by
the IAEA Team and Host Team Leader.
If the owner, operator, occupant, or
agent in charge of the location does not
have access to records for activities that
took place under previous ownership,
the previous owner must make such
records available to the Host Team.

(f) Managed access. As necessary, the
Host Team will implement managed
access measures (e.g., the removal of
sensitive papers from office spaces and
the shrouding of sensitive displays,
stores, and equipment) to prevent the
dissemination of proliferation sensitive
information, to meet safety or physical
protection requirements, to protect
proprietary or commercially sensitive
information, or to protect activities of
direct national security significance to
the United States, including locations or
information associated with such
activities. If the IAEA Team is unable to
fully achieve its inspection aims under
the managed access measures in place,
the Host Team will make every
reasonable effort to provide alternative
means to allow the IAEA Team to meet
these aims, consistent with the purposes of
complementary access (as described
in § 784.1(b) of the APR) and the
requirements of this section. If a
location-specific subsidiary arrangement
applies (see § 784.5(b) of the APR), the
Host Team shall, in consultation with
the owner, operator, occupant, or agent
in charge of the location, implement
managed access procedures consistent
with the applicable location-specific
subsidiary arrangement.

(g) Hours of complementary access.
Consistent with the provisions of the
Additional Protocol, the Host Team will
ensure, to the extent possible, that each
complementary access is commenced,
conducted, and concluded during
ordinary business hours, but no
complementary access shall be
prohibited or otherwise disrupted from
commencing, continuing or concluding
during other hours.

(h) Environmental, health, safety,
and security regulations and
requirements. In carrying out their
activities, the IAEA Team and Host Team shall observe
federal, state, and local environmental,
health, safety, and security regulations
and environmental, health, safety, and
security requirements established at the
location, including those for the
protection of controlled environments
within a location and for personal
safety. To the extent practicable, any
such regulations and requirements that
may apply to the conduct of
complementary access at the location
should be set forth in the location-
specific subsidiary arrangement (if any).

(i) Host Team to accompany the IAEA
Team. The Host Team shall accompany
the IAEA Team, during their
complementary access at the location, in
accordance with the provisions set forth
in this part of the APR.

(j) Scope of authorized
communications by the IAEA Team. (1)
The United States shall permit and
protect free communications between the
IAEA Team and IAEA Headquarters
and/or Regional Offices, including
attended and unattended transmission
of information generated by IAEA
containment and/or surveillance or
measurement devices. The IAEA Team
shall have the right, through
consultation with the Host Team, to
make use of internationally established
systems of direct communications.

(2) No document, photograph or other
recorded medium, or sample relevant to
complementary access may be removed
or transmitted from the location by the
IAEA Team without the prior consent of
the Host Team.

(k) IAEA activities, findings, and
results related to complementary access.

(1) In accordance with the Additional
Protocol, the IAEA shall inform the
United States of:

(1) Any activities that took place in
connection with complementary access
to a location in the United States, including any activities concerning questions or inconsistencies that the IAEA may have brought to the attention of the United States, within 30 calendar days of the time that such findings or results were reached by the IAEA.

(2) BIS will provide the results of complementary access to the owner, operator, occupant, or agent in charge of the inspected location to the extent practicable.

§ 784.4 Notification, duration and frequency of complementary access.

(a) Complementary access notification. Complementary access will be provided only upon the issuance of a written notice by BIS to the owner, operator, occupant or agent in charge of the premises to be accessed. If BIS is unable to provide written notification to the owner, operator, or agent in charge, BIS may post a notice prominently at the location to be accessed.

(1) Content of notice. (i) Pertinent information furnished by the IAEA. The notice shall include all appropriate information provided by the IAEA to the United States Government concerning:

(A) The purpose of complementary access;

(B) The basis for the selection of the location for complementary access;

(C) The activities that will be carried out during complementary access;

(D) The time and date that complementary access is expected to begin and its anticipated duration; and

(E) The names and titles of the IAEA inspectors who will participate in complementary access.

(ii) Request for location’s consent to complementary access. The complementary access notification from BIS will request that the location inform BIS whether or not it will consent to complementary access. If a location does not agree to provide consent to complementary access within four hours of its receipt of the complementary access notification, BIS will seek an administrative warrant as provided in § 784.2(a)(1).

(iii) Availability of advance team from BIS. An advance team from BIS will be available to assist the location in preparing for complementary access. If the complementary access is a 24-hour advance notice, then the availability of an advance team may be limited. The location requesting advance team assistance will not be required to reimburse the U.S. Government for any costs associated with these activities. The location (in cooperation with the advance team, if available) will make preparations for complementary access, including the identification of any ITAR-controlled technology and/or national security information at the location (see § 784.3(b)(3) of the APR).

(2) Notification procedures. The following table sets forth the notification procedures for complementary access.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Agency action</th>
<th>Location action</th>
</tr>
</thead>
</table>
| IAEA notification of complementary access. | BIS will transmit complementary access notification via facsimile to the owner, operator, occupant, or agent in charge of a location to ascertain whether or not the location:

(1) Grants consent to complementary access; and

(2) Requests BIS advance team support (subject to availability) in preparing for complementary access.

If the location does not inform BIS of its consent to complementary access, within 4 hours of the time it receives notification from BIS, BIS will seek an administrative warrant. | Location must inform BIS, within 4 hours of its receipt of complementary access notification, whether or not it:

(1) Grants consent to complementary access; and

(2) Requests BIS advance team support (subject to availability) to prepare for complementary access. Location not required to reimburse U.S. Government for assistance from the BIS advance team.

Preparation for complementary access. | If a BIS advance team has been requested and is available, it will arrive at the location to be accessed and assist the location in making logistical and administrative preparations for complementary access. | The location will engage in activities that will prepare the location for complementary access (e.g., identifying any ITAR-controlled technology or national security information at the location), either singularly or in cooperation with a BIS advance team if one has been requested and is available.

(3) Timing of notification. In accordance with the Additional Protocol, the IAEA shall notify the United States Government of a complementary access request not less than 24 hours prior to the arrival of the IAEA Team at the location. BIS will provide written notice to the owner, operator, occupant or agent in charge of the location as soon as possible after BIS has received notification from the IAEA.

(b) Duration of complementary access. The duration of complementary access will depend upon the nature of the complementary access request and the activities that will be conducted at the location. (See § 784.3(b) of the APR for a description of the types of complementary access activities authorized under the APR.)

§ 784.5 Subsidiary arrangements.

(a) General subsidiary arrangement. The United States Government may conclude a general subsidiary arrangement with the IAEA that governs complementary access activities, irrespective of the location (i.e., an arrangement that is not location-specific).

(b) Location-specific subsidiary arrangement. (1) Purpose. If requested by the location or deemed necessary by the U.S. Government, the U.S. Government will negotiate a location-specific subsidiary arrangement with the IAEA. The purpose of such an arrangement is to establish procedures for conducting managed access at a specific declared location. If the location requests, it may participate in preparations for the negotiation of a location-specific subsidiary arrangement with the IAEA and may observe the negotiations to the maximum extent practicable. The existence of a location-specific subsidiary arrangement does not in any way limit the right of the
investigates these violations, prepares charges, provides legal representation to the U.S. Government, negotiates settlements, and initiates and resolves proceedings. The administrative procedures applicable to these violations are described in §§785.3 through 785.19 of the APR.

(b) Definitions. The following are definitions of terms as used only in Part 785 of the APR. For definitions of terms applicable to Parts 761 through 766 of the APR, unless otherwise noted in this paragraph or elsewhere in the APR, see Part 781 of the APR.


Assistant Secretary for Export Enforcement. The Assistant Secretary for Export Enforcement, Bureau of Industry and Security, United States Department of Commerce.

Final decision. A decision or order assessing a civil penalty, or otherwise disposing of or dismissing a case, which is not subject to further administrative review, but which may be subject to collection proceedings or judicial review in an appropriate Federal court as authorized by law.

Office of Chief Counsel. The Office of Chief Counsel for Industry and Security, United States Department of Commerce.

Report. For the purposes of Part 785 of the APR, the term “report” means any report required under Parts 783 through 786 of the APR.

Respondent. Any person named as the subject of a letter of intent to charge, a Notice of Violation and Assessment (NOVA), or order.

Under Secretary, Bureau of Industry and Security. The Under Secretary, Bureau of Industry and Security, United States Department of Commerce.

§785.2 Violations of the Act subject to administrative and criminal enforcement proceedings.

(a) Violations—(1) Refusal to permit entry or access. No person may willfully fail or refuse to permit entry or access, or willfully disrupt, delay or otherwise impede complementary access, or an entry in connection with complementary access, authorized by the Act.

(2) Failure to establish or maintain records. No person may willfully fail or refuse to do any of the following: (i) Establish or maintain any record required by the Act or the APR; (ii) Submit any report, notice, or other information to the United States Government in accordance with the Act or the APR; or (iii) Permit access to or copying of any record by the United States Government that is related to a person’s obligations under the Act or the APR.

(b) Civil penalties—(1) Civil penalty for refusal to permit entry or access. Any person that is determined to have willfully failed or refused to permit entry or access, or to have willfully disrupted, delayed or otherwise impeded an authorized complementary access, as set forth in paragraph (a)(1) of this section, shall pay a civil penalty in an amount not to exceed $25,000 for each violation. Each day the violation continues constitutes a separate violation.

(2) Civil penalty for failure to establish or maintain records. Any person that is determined to have willfully failed or refused to establish or maintain any record, submit any report or other information required by the Act or the APR, or permit access to or copying of any record related to a person’s obligations under the Act or the APR, as set forth in paragraph (a)(2) of this section, shall pay a civil penalty in an amount not to exceed $25,000 for each violation.

(c) Criminal penalty. Any person that is determined to have violated the Act by willfully failing or refusing to permit entry or access authorized by the Act; by willfully disrupting, delaying or otherwise impeding complementary access authorized by the Act; or by willfully failing or refusing to establish or maintain any required record, submit any required report or other information, or permit access to or copying of any record related to a person’s obligations under the Act or the APR, as set forth in paragraph (a) of this section, shall, in addition to or in lieu of any civil penalty that may be imposed, be fined under Title 18 of the United States Code, be imprisoned for not more than five years, or both.

§785.3 Initiation of administrative proceedings.

(a) Issuance of a Notice of Violation and Assessment (NOVA). Prior to the initiation of an administrative proceeding through issuance of a NOVA, the Bureau of Industry and Security will issue a letter of intent to charge. The letter of intent to charge will advise a respondent that BIS has conducted an investigation. The letter will give the respondent a specified period of time to contact BIS to discuss settlement of the allegations set forth in the letter of intent to charge. If the
respondent does not contact BIS in the
time period specified in the letter of
intent to charge, the Director of the
Office of Export Enforcement, or such
other Department of Commerce
representative designated by the
Assistant Secretary for Export
Enforcement, may initiate an
administrative enforcement proceeding
under this §785.3 by issuing a NOVA.

(b) Content of a NOVA. The NOVA
shall constitute a formal complaint and
will set forth the alleged violation(s) and
the essential facts with respect to the
alleged violation(s), reference the
relevant statutory, regulatory or other
provisions, and state the maximum
amount of the civil penalty that could
be assessed. The NOVA also will inform
the respondent of the requirement to
request a hearing pursuant to §785.4 of
the APR.

(c) Service of a NOVA. Service of
the NOVA shall be made by certified mail
or courier delivery with signed
acknowledgment of receipt. The date of
signed acknowledgment of receipt shall
be the effective date of service of the
NOVA. One copy of each paper shall be
provided to each party in the delivery.
BIS files the NOVA with the
Administrative Law Judge (ALJ) at the
same time that it is sent to the
respondent. The ALJ, in turn, will place
the case on its docket and will notify
both the respondent and BIS of the
docket information.

§785.4 Request for hearing and answer.

(a) Deadline for answering the NOVA.
If the respondent wishes to contest the
NOVA issued by BIS, the respondent
must submit a written request for a
hearing to BIS within 15 business days
from the date of service of the NOVA.
If the respondent requests a hearing, the
respondent must answer the NOVA
within 30 calendar days from the date
of the request for hearing. The request
for a hearing and the respondent’s
answer must also set forth any
additional or new matter that the
respondent contends will support a
defense or claim of mitigation. Any
defense or partial defense not
specifically set forth in the answer shall
be deemed to be waived, and evidence
supporting that defense or partial
defense may be refused, except for good
cause shown.

(b) Content of a NOVA. The NOVA
shall constitute a formal complaint and
will set forth the alleged violation(s) and
the essential facts with respect to the
alleged violation(s), reference the
relevant statutory, regulatory or other
provisions, and state the maximum
amount of the civil penalty that could
be assessed. The NOVA also will inform
the respondent of the requirement to
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NOVA. One copy of each paper shall be
provided to each party in the delivery.
BIS files the NOVA with the
Administrative Law Judge (ALJ) at the
same time that it is sent to the
respondent. The ALJ, in turn, will place
the case on its docket and will notify
both the respondent and BIS of the
docket information.

§785.5 Representation.

An individual respondent may
appear, in person, or be represented by
a duly authorized officer or employee. A
partner may appear on behalf of a
partnership, or a duly authorized officer
or employee of a corporation may appear
on behalf of the corporation. If a
respondent is represented by counsel,
counsel shall be a member in good
standing of the bar of any State,
Commonwealth or Territory of the
United States, or of the District of
Columbia, or be licensed to practice law
in the country in which counsel resides,
if not the United States. The U.S.
Government will be represented by the
Office of Chief Counsel. A respondent
personally, or through counsel or other
representative who has the power of
attorney to represent the respondent,
shall file a notice of appearance with the
ALJ, or, in cases where settlement
negotiations occur before any filing with
the ALJ, with the Office of Chief
Counsel.

§785.6 Filing and service of papers other
than the Notice of Violation and
Assessment (NOVA).

(a) Filing. All papers to be filed with
the ALJ shall be addressed to
“Additional Protocol Administrative
Enforcement Proceedings,” at the
address set forth in the NOVA, or such
other place as the ALJ may designate.
Filing by United States certified mail, by
express or equivalent parcel delivery
service, via facsimile, or by hand
delivery is acceptable. Filing from a
foreign country shall be by airmail, via
facsimile, or by express or equivalent
parcel delivery service. A copy of each
paper filed shall be simultaneously
served on all parties.

(b) Service. Service shall be made by
United States certified mail, by express
or equivalent parcel delivery service, via
facsimile, or by hand delivery of one
copy of each paper to each party in the
proceeding. Service on the government
party in all proceedings shall be
addressed to Office of Chief Counsel for
Industry and Security, U.S. Department
of Commerce, 14th Street and
Constitution Avenue, NW., Room H–3839,
Washington, DC 20230, or sent via
facsimile to (202) 482–0085. Service on
a respondent shall be to the address to
which the NOVA was sent, or to such
other address as the respondent may
provide. When a party has appeared by
counsel or other representative, service
on counsel or other representative shall
constitute service on that party.

(c) Date. The date of filing or service
is the day when the papers are
deposited in the mail or are delivered in
person, by delivery service, via
facsimile. Refusal by the person to be
served, or by the person’s agent or
attorney, of service of a document or
other paper will be considered effective
service of the document or other paper as
of the date of such refusal.

(d) Certificate of service. A certificate of
service signed by the party making
service, stating the date and manner of
service, shall accompany every paper,
other than the NOVA, filed and served
on the parties.

(e) Computation of time. In computing
any period of time prescribed or
allowed by this part, the day of the act,
event, or default from which the
designated period of time begins to run
is not to be included. The last day of
the period is to be included in the
computation unless it is a Saturday, a
Sunday, or a legal holiday (as defined in
Rule 6(a) of the Federal Rules of Civil
Procedure). In such instance, the period
runs until the end of the next day that
is neither a Saturday, a Sunday, nor a
legal holiday. Intermediate Saturdays,
Sundays, and legal holidays are
excluded from the computation when
the period of time prescribed or
allowed is 7 days or less—there is no cap
on the period of time to which this
exclusion applies, whenever the period of
time prescribed or allowed by this part
is computed in business days, rather than
calendar days.

§785.7 Summary decision.

The ALJ may render a summary
decision disposing of all or part of a
proceeding on the motion of any party
to the proceeding, provided that there is
no genuine issue as to any material fact and the party is entitled to summary decision as a matter of law.

§ 785.8 Discovery.

(a) General. The parties are encouraged to engage in voluntary discovery regarding any matter, not privileged, which is relevant to the subject matter of the pending proceeding. The provisions of the Federal Rules of Civil Procedure relating to discovery apply to the extent consistent with this part and except as otherwise provided by the ALJ or by waiver or agreement of the parties. The ALJ may make any order which justice requires to protect a party or person from annoyance, embarrassment, oppression, or undue burden or expense. These orders may include limitations on the scope, method, time and place of discovery, and provisions for protecting the confidentiality of privileged or other sensitive information, including Confidential Business Information (CBI) as defined by the Act.

(b) Interrogatories and requests for admission or production of documents. A party may serve on any party interrogatories, requests for admission, or requests for production of documents for inspection and copying, and a party may apply to the ALJ for such enforcement or protective order as that party deems warranted with respect to such discovery. The service of a discovery request shall be made at least 30 calendar days before the scheduled date of the hearing unless the ALJ specifies a shorter time period. Copies of interrogatories, requests for admission and requests for production of documents and responses thereto shall be served on all parties and a copy of the certificate of service shall be filed with the ALJ at least 5 business days before the scheduled date of the hearing. Matters of fact or law of which admission is requested shall be deemed admitted unless, within a period designated in the request (at least 10 business days after service, or within such additional time as the ALJ may allow), the party to whom the request is directed serves upon the requesting party a sworn statement either denying specifically the matters of which admission is requested or setting forth in detail the reasons why the party to whom the request is directed cannot either admit or deny such matters.

(c) Depositions. Upon application of a party and for good cause shown, the ALJ may order the taking of the testimony of any person by deposition and the production of specified documents or materials by the person at the deposition. The application shall state the purpose of the deposition and set forth the facts sought to be established through the deposition.

(d) Enforcement. The ALJ may order a party to answer designated questions, to produce specified documents or things or to take any other action in response to a proper discovery request. If a party does not comply with such an order, the ALJ may make a determination or enter any order in the proceeding as the ALJ deems reasonable and appropriate. The ALJ may strike related charges or defenses in whole or in part or may take particular facts relating to the discovery request to which the party failed or refused to respond as being established for purposes of the proceeding in accordance with the contentions of the party seeking discovery. In addition, enforcement by any district court of the United States in which venue is proper may be sought as appropriate.

§ 785.9 Subpoenas.

(a) Issuance. Upon the application of any party, supported by a satisfactory showing that there is substantial reason to believe that the evidence would not otherwise be available, the ALJ may issue subpoenas to any person requiring the attendance and testimony of witnesses and the production of such books, records or other documentary or physical evidence for the purpose of the hearing, as the ALJ deems relevant and material to the proceedings, and reasonable in scope. Witnesses shall be paid the same fees and mileage that are paid to witnesses in the courts of the United States. In case of contempt, challenge or refusal to obey a subpoena, the ALJ may issue a protective order, if necessary. Such arrangements may include obtaining security clearances or giving counsel for a party access to sensitive information and documents subject to assurances against further disclosure, including a protective order, if necessary.

(b) Arrangements for access. If the ALJ determines that the summary procedure outlined in paragraph (a) of this section is unsatisfactory, and that classified or otherwise sensitive matter must form part of the record in order to avoid prejudice to a party, the ALJ may provide the parties with the opportunity to make arrangements that permit a party or a representative to have access to such matter without compromising sensitive information. Such arrangements may include obtaining security clearances or giving counsel for a party access to sensitive information and documents subject to assurances against further disclosure, including a protective order, if necessary.

§ 785.11 Prehearing conference.

(a) On the ALJ’s own motion, or on request of a party, the ALJ may direct the parties to participate in a prehearing conference, either in person or by telephone, to consider:

(1) Simplification of issues;

(2) The necessity or desirability of amendments to pleadings;

(3) Obtaining stipulations of fact and of documents to avoid unnecessary proof; or

(4) Such other matters as may expedite the disposition of the proceedings.

(b) The ALJ may order the conference proceedings to be recorded electronically or taken by a reporter, transcribed and filed with the ALJ.

(c) If a prehearing conference is impracticable, the ALJ may direct the parties to correspond with the ALJ to achieve the purposes of such a conference.

(d) The ALJ will prepare a summary of any actions agreed on or taken pursuant to this section. The summary will include any written stipulations or agreements made by the parties.
§ 785.12 Hearings.
(a) Scheduling. Upon receipt of a valid request for a hearing, the ALJ shall, by agreement with all the parties or upon notice to all parties of at least 30 calendar days from the date of receipt of a request for a hearing, schedule a hearing. All hearings will be held in Washington, DC, unless the ALJ determines, for good cause shown, that another location would better serve the interest of justice.
(b) Hearing procedure. Hearings will be conducted in a fair and impartial manner by the ALJ. All hearings will be closed, unless the ALJ for good cause shown determines otherwise. The rules of evidence prevailing in courts of law do not apply, and all evidentiary material deemed by the ALJ to be relevant and material to the proceeding and not unduly repetitive will be received and given appropriate weight, except that any evidence of settlement which would be excluded under Rule 408 of the Federal Rules of Evidence is not admissible. Witnesses will testify under oath or affirmation, and shall be subject to cross-examination.
(c) Testimony and record. (1) A verbatim record of the hearing and of any other oral proceedings will be taken by reporter or by electronic recording, and filed with the ALJ. If any party wishes to obtain a written copy of the transcript, that party shall pay the costs of transcription. The parties may share the costs if both want a transcript.
(2) Upon such terms as the ALJ deems just, the ALJ may direct that the testimony of any person be taken by deposition and may admit an affidavit or report as evidence, provided that any affidavits or reports have been filed and served on the parties sufficiently in advance of the hearing to permit a party to file and serve an objection thereto on the grounds that it is necessary that the affiant or declarant testify at the hearing and be subject to cross-examination.
(d) Failure to appear. If a party fails to appear in person or by counsel at a scheduled hearing, the hearing may nevertheless proceed. The party’s failure to appear will not affect the validity of the hearing or any proceeding or action taken thereafter.
§ 785.13 Procedural stipulations.
Unless otherwise ordered and subject to § 785.14 of the APR, a written stipulation agreed to by all parties and filed with the ALJ will modify the procedures established by this Part.
§ 785.14 Extension of time.
The parties may extend any applicable time limitation by stipulation filed with the ALJ before the time limitation expires, or the ALJ may, on the ALJ’s own initiative or upon application by any party, either before or after the expiration of any applicable time limitation, extend the time, except that the requirement that a hearing be demanded within 15 calendar days, and the requirement that a final agency decision be made within 60 calendar days, may not be modified.
§ 785.15 Post-hearing submissions.
All parties shall have the opportunity to file post-hearing submissions that may include findings of fact and conclusions of law, supporting evidence and legal arguments, exceptions to the ALJ’s rulings or to the admissibility of evidence, and orders and settlements.
§ 785.16 Decisions.
(a) Recommended decision and order. After considering the entire record in the case, the ALJ will issue a recommended decision based on a preponderance of the evidence. The decision will include findings of fact, conclusions of law, and a decision based thereon as to whether the respondent has violated the Act. If the ALJ finds that the evidence of record is insufficient to sustain a finding that a violation has occurred with respect to one or more allegations, the ALJ shall order dismissal of the allegation(s) in whole or in part, as appropriate. If the ALJ finds that one or more violations have been committed, the ALJ shall issue an order imposing administrative sanctions.
(b) Factors considered in assessing penalties. In determining the amount of a civil penalty, the ALJ shall take into account the nature, circumstances, extent and gravity of the violation(s), and, with respect to the respondent, the respondent’s ability to pay the penalty, the effect of a civil penalty on the respondent’s ability to continue to do business, the respondent’s history of prior violations, and such other matters as justice may require.
(c) Referral of recommended decision and order. The ALJ shall immediately issue and serve the recommended decision (and order, if appropriate) to the Office of Chief Counsel, at the address in § 785.6(b) of the APR, and to the respondent, by courier delivery or overnight mail. The recommended decision and order will also be referred to the head of the designated executive agency for final decision and order.
(d) Final decision and order. The recommended decision and order shall become the final agency decision and order unless after 60 calendar days, the Secretary of Commerce, or a designated United States Government official, modifies or vacates it, or unless an appeal has been filed pursuant to paragraph (e) of this section.
(e) Appeals. The respondent may appeal the final agency decision within 30 calendar days after the date of certification. Petitions for appeal may be filed in the Court of Appeals for the District of Columbia Circuit or in the Court of Appeals for the district in which the violation occurred.
§ 785.17 Settlement.
(a) Settlements before issuance of a NOVA. When the parties have agreed to a settlement of the case prior to issuance of a NOVA, a settlement proposal consisting of a settlement agreement and order will be submitted to the Assistant Secretary for Export Enforcement for approval and signature. If the Assistant Secretary does not approve the proposal, he/she will notify the parties and the case will proceed as though no settlement proposal has been made. If the Assistant Secretary approves the proposal, he/she will issue an appropriate order, and no action will be required by the ALJ.
(b) Settlements following issuance of a NOVA. The parties may enter into settlement negotiations at any time during the time a case is pending before the ALJ. If necessary, the parties may extend applicable time limitations or otherwise request that the ALJ stay the proceedings while settlement negotiations continue. When the parties have agreed to a settlement of the case, the Office of Chief Counsel will recommend the settlement to the Assistant Secretary for Export Enforcement, forwarding a proposed settlement agreement and order, which the Assistant Secretary will approve and sign. If a NOVA has been filed, the Office of Chief Counsel will send a copy of the settlement proposal to the ALJ.
(c) Settlement scope. Any respondent who agrees to an order imposing any administrative sanction does so solely for the purpose of resolving the claims in the administrative enforcement proceeding brought under this Part. The government officials involved have neither the authority nor the responsibility for initiating, conducting, settling, or otherwise disposing of criminal proceedings. That authority and responsibility are vested in the Attorney General and the Department of Justice.
(d) Finality. Cases that are settled may not be reopened or appealed, absent a showing of good cause. Appeals and requests to reopen settled cases must be submitted to the Assistant Secretary for Export Enforcement within 30 calendar
§ 785.18 Record for decision.
(a) The record. The transcript of hearings, exhibits, rulings, orders, all papers and requests filed in the proceedings, and, for purposes of any appeal under § 785.16 of the APR, the decision of the ALJ and such submissions as are provided for under § 785.16 of the APR will constitute the record and the exclusive basis for decision. When a case is settled, the record will consist of any and all of the foregoing, as well as the NOVA or draft NOVA, settlement agreement, and order.
(b) Restricted access. On the ALJ’s own motion, or on the motion of any party, the ALJ may direct that there be a restricted access portion of the record for any material in the record to which public access is restricted by law or by the terms of a protective order entered in the proceedings. A party seeking to restrict access to any portion of the record is responsible, prior to the close of the proceeding, for submitting a version of the document(s) proposed for public availability that reflects the requested deletion. The restricted access portion of the record will be placed in a separate file and the file will be clearly marked to avoid improper disclosure and to identify it as a portion of the official record in the proceedings. The ALJ may act at any time to permit material that becomes declassified or unrestricted through passage of time to be transferred to the unrestricted access portion of the record.
(c) Availability of documents—(1) Scope. All NOVAs and draft NOVAs, answers, settlement agreements, decisions and orders disposing of a case will be displayed on the BIS Freedom of Information Act (FOIA) Web site, at http://www.bis.doc.gov/foia, which is maintained by the Office of Administration, Bureau of Industry and Security, U.S. Department of Commerce. The Office of Administration does not maintain a separate inspection facility. The complete record for decision, as defined in paragraphs (a) and (b) of this section will be made available on request.
(2) Timing. The record for decision will be available only after the final administrative disposition of a case. Parties may seek to restrict access to any portion of the record under paragraph (b) of this section.

§ 785.19 Payment of final assessment.
(a) Time for payment. Full payment of the civil penalty must be made within 30 days of the effective date of the order or within such longer period of time as may be specified in the order. Payment shall be made in the manner specified in the NOVA.
(b) Enforcement of order. The government party may, through the Attorney General, file suit in an appropriate district court if necessary to enforce compliance with a final order issued under the APR. This suit will include a claim for interest at current prevailing rates from the date of expiration of the 60-day period referred to in § 785.16(d), or the date of the final order, if appropriate.
(c) Offsets. The amount of any civil penalty imposed by a final order may be deducted from any sum(s) owed by the United States to a respondent.

§ 785.20 Reporting a violation.
If a person learns that a violation of the Additional Protocol, the Act, or the APR has occurred or may occur, that person may notify: Office of Export Enforcement, Bureau of Industry and Security, U.S. Department of Commerce, 14th Street and Constitution Avenue, NW., Room H–4520, Washington, DC 20230; Tel: (202) 482–1208; Facsimile: (202) 482–0964.

PART 786—RECORDS AND RECORDKEEPING

Sec. 786.1 Inspection of records.
786.2 Recordkeeping.
786.3 Destruction or disposal of records.


§ 786.1 Inspection of records.
Upon request by BIS, you must permit access to and copying of any record relating to compliance with the requirements of the APR. This requires that you make available the equipment and, if necessary, knowledgeable personnel for locating, reading, and reproducing any record. Copies may be necessary to facilitate IAEA Team review of documents during complementary access. The IAEA Team may not remove these documents from the location without BIS authorization (see § 784.3(j)(2) of the APR).

§ 786.2 Recordkeeping.
(a) Requirements. Each person and location required to submit a report or correspondence under Parts 782 through 784 of the APR must retain all supporting materials and documentation used to prepare such report or correspondence.
(b) Three year retention period. All supporting materials and documentation required to be kept under paragraph (a) of this section must be retained for three years from the due date of the applicable report or for three years from the date of submission of the applicable report, whichever is later. Due dates for reports and correspondence are indicated in Parts 782 through 784 of the APR.
(c) Location of records. Records retained under this section must be maintained at the location or must be accessible at the location for purposes of complementary access at the location by IAEA Teams.
(d) Reproduction of original records. (1) You may maintain reproductions instead of the original records, provided all of the requirements of paragraph (b) of this section are met.
(2) If you must maintain records under this Part, you may use any photostatic, miniature photographic, micrographic, automated archival storage, or other process that completely, accurately, legibly and durably reproduces the original records (whether on paper, microfilm, or through electronic digital storage techniques). The process must meet all of the following requirements, which are applicable to all systems:
(i) The system must be capable of reproducing all records on paper.
(ii) The system must record and be able to reproduce all marks, information, and other characteristics of the original record, including both obverse and reverse sides (unless blank) of paper documents in legible form.
(iii) When displayed on a viewer, monitor, or reproduced on paper, the records must exhibit a high degree of legibility and readability. For purposes of this section, legible and legibility mean the quality of a letter or numeral that enable the observer to identify it positively and quickly to the exclusion of all other letters or numerals. Readable and readability mean the quality of a group of letters or numerals being recognized as complete words or numbers.
(iv) The system must preserve the initial image (including both obverse and reverse sides, unless blank, of paper documents) and record all changes, who made them and when they were made. This information must be stored in such a manner that none of it may be altered once it is initially recorded.
(v) You must establish written procedures to identify the individuals who are responsible for the operation, use and maintenance of the system.
(vi) You must keep a record of where, when, by whom, and on what equipment the records and other
information were entered into the system.

(3) Requirements applicable to a system based on digital images. For systems based on the storage of digital images, the system must provide accessibility to any digital image in the system. The system must be able to locate and reproduce all records according to the same criteria that would have been used to organize the records had they been maintained in original form.

(4) Requirements applicable to a system based on photographic processes. For systems based on photographic, photostatic, or miniature photographic processes, the records must be maintained according to an index of all records in the system following the same criteria that would have been used to organize the records had they been maintained in original form.

§ 786.3 Destruction or disposal of records.
If BIS or any other authorized U.S. government agency makes a formal or informal request for a certain record or records, such record or records may not be destroyed or disposed of without the written authorization of the requesting entity.

PARTS 787–799—[RESERVED]

Dated: October 21, 2008.

Christopher R. Wall,
Assistant Secretary, for Export Administration.

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