

A. Safeguards Statement for 2014

In 2014, safeguards were applied for 180 States^{1, 2} with safeguards agreements in force with the Agency. The Secretariat's findings and conclusions for 2014 are reported below with regard to each type of safeguards agreement. These findings and conclusions are based upon an evaluation of all safeguards relevant information available to the Agency in exercising its rights and fulfilling its safeguards obligations for that year.

1. One hundred and eighteen States had both comprehensive safeguards agreements and additional protocols in force:

- (a) For 65 of these States², the Secretariat found no indication of the diversion of declared nuclear material from peaceful nuclear activities and no indication of undeclared nuclear material or activities. On this basis, the Secretariat concluded that, for these States, all nuclear material remained in peaceful activities.
- (b) For 53 of these States, the Secretariat found no indication of the diversion of declared nuclear material from peaceful nuclear activities. Evaluations regarding the absence of undeclared nuclear material and activities for each of these States remained ongoing. On this basis, the Secretariat concluded that, for these States, declared nuclear material remained in peaceful activities.

2. Safeguards activities were implemented for 54 States with comprehensive safeguards agreements in force, but without additional protocols in force. For these States, the Secretariat found no indication of the diversion of declared nuclear material from peaceful nuclear activities. On this basis, the Secretariat concluded that, for these States, declared nuclear material remained in peaceful activities.

While the Secretariat concluded that, for 2014, declared nuclear material in Iran remained in peaceful activities, it was unable to conclude that all nuclear material in Iran was in peaceful activities.³

3. As of the end of 2014, 12 non-nuclear-weapon States party to the Treaty on the Non-Proliferation of Nuclear Weapons (NPT) had yet to bring into force comprehensive safeguards agreements with the Agency as required by Article III of that Treaty. For these States, the Secretariat could not draw any safeguards conclusions.

4. Three States had safeguards agreements based on INFCIRC/66/Rev.2 in force, requiring the application of safeguards to nuclear material, facilities and other items specified in the relevant safeguards agreement. One of these States, India, had an additional protocol in force. For these States, the Secretariat found no indication of the diversion of nuclear material or of the misuse of the facilities or other items to which safeguards had been applied. On this basis, the Secretariat concluded that, for these States, nuclear material, facilities or other items to which safeguards had been applied remained in peaceful activities.

¹ These States do not include the Democratic People's Republic of Korea (DPRK), where the Agency did not implement safeguards and, therefore, could not draw any conclusion.

² And Taiwan, China.

³ See paragraph 23.

5. Five nuclear-weapon States had voluntary offer agreements and additional protocols in force. Safeguards were implemented with regard to declared nuclear material in selected facilities in all five States. For these States, the Secretariat found no indication of the diversion of nuclear material to which safeguards had been applied. On this basis, the Secretariat concluded that, for these States, nuclear material in selected facilities to which safeguards had been applied remained in peaceful activities or had been withdrawn from safeguards as provided for in the agreements.

B. Background to the Safeguards Statement and Summary

B.1. Safeguards conclusions

1. The Safeguards Statement reflects the Secretariat's findings and conclusions resulting from the Agency's activities under the safeguards agreements in force. The Secretariat derives these conclusions on the basis of an evaluation of the results of its safeguards activities and of all other safeguards relevant information available to it. This section provides background to the Safeguards Statement.

Fact box 1. Safeguards activities overview

In 2014, there were:

- 193 467 (188 500)⁴ significant quantities⁵ of nuclear material and 432 (431) tonnes of heavy water under safeguards;
- 704 (699) facilities and 563 (565) material balance areas (MBAs) containing locations outside facilities where nuclear material is customarily used (LOFs) under safeguards; and
- 2114 (1969) inspections, 618 (573) design information verifications and 78 (71) complementary accesses utilizing 12 734 (11 777) calendar-days in the field for verification⁶.

2. A summary of the status of States' safeguards agreements and other information presented below is given in Tables 1 to 5 in Section B.7.

B.1.1. States with comprehensive safeguards agreements in force

3. Under a comprehensive safeguards agreement, the Agency has the "right and obligation to ensure that safeguards will be applied, in accordance with the terms of the agreement, on all source or special fissionable material in all peaceful nuclear activities within the territory of the State, under its jurisdiction or carried out under its control anywhere, for the exclusive purpose of verifying that such material is not diverted to nuclear weapons or other nuclear explosive devices."⁷

4. Comprehensive safeguards agreements consist of Part I, Part II, and Definitions. Part I consists of general provisions and Part II describes the procedures for implementing those provisions. These procedures include the record keeping and reporting obligations of the State with regard to nuclear material, nuclear facilities and LOFs. They also include procedures related to Agency access to nuclear material, nuclear facilities and LOFs.

⁴ The numbers in parentheses provide the respective data for 2013.

⁵ Significant quantity — the approximate amount of nuclear material for which the possibility of manufacturing a nuclear explosive device cannot be excluded.

⁶ Calendar-days in the field for verification comprise calendar-days spent on performing inspections, complementary access and design information verification and on the associated travel and rest periods.

⁷ Paragraph 2 of INFCIRC/153 (Corrected).

5. The procedures set out in Part II of a comprehensive safeguards agreement include certain reporting requirements related to the export and import of material containing uranium or thorium which has not yet reached the stage of processing where its composition and purity make it suitable for fuel fabrication or for isotopic enrichment. Nuclear material which has reached that stage of processing, and any nuclear material produced at a later stage, is subject to all the other safeguards procedures specified in the agreement. An inventory of such nuclear material is established on the basis of an initial report by a State, which is then verified by the Agency and maintained on the basis of subsequent reports by the State and by Agency verification. The Agency performs its verification and evaluation activities in order to confirm that these declarations by the State are correct and complete — i.e. to confirm that all nuclear material in the State remains in peaceful activities.

Small quantities protocols

6. Many States with minimal or no nuclear activities have concluded a small quantities protocol (SQP) to their comprehensive safeguards agreement. Under a SQP based on the original standard text⁸ submitted to the Board of Governors in 1974, the implementation of most of the safeguards procedures in Part II of a comprehensive safeguards agreement are held in abeyance as long as certain criteria are met. In 2005, the Board of Governors approved the revision⁹ of the standard text of the SQP. This revision changed the eligibility criteria for a SQP, making it unavailable to a State with an existing or planned facility, and reduced the number of measures held in abeyance. Of particular importance is the fact that, under the revised text of the SQP, the requirement that the State provide the Agency with an initial inventory report and the Agency's right to carry out ad hoc and special inspections are no longer held in abeyance.

Additional protocols

7. Although the Agency has the authority under a comprehensive safeguards agreement to verify the peaceful use of all nuclear material in a State (i.e. the correctness and completeness of the State's declarations), the tools available to the Agency under such an agreement are limited. The *Model Additional Protocol*¹⁰, approved by the Board of Governors in 1997, equips the Agency with important additional tools that provide broader access to information and locations. The measures provided for under an additional protocol thus significantly increase the Agency's ability to verify the peaceful use of all nuclear material in a State with a comprehensive safeguards agreement.

B.1.1.1. States with both comprehensive safeguards agreements and additional protocols in force

Status of implementation

8. As of 31 December 2014, 118 (117) States² had both comprehensive safeguards agreements and additional protocols in force.

9. Safeguards implementation involved, as appropriate, activities carried out in the field, at regional offices and at Agency Headquarters in Vienna. The activities at Headquarters included the evaluation of States' accounting reports and other information required under comprehensive safeguards agreements and additional protocols and the evaluation of safeguards relevant information from other sources.

⁸ GOV/INF/276/Annex B.

⁹ GOV/INF/276/Mod.1 and Corr.1.

¹⁰ INFCIRC/540 (Corrected), *Model Protocol Additional to the Agreement(s) between State(s) and the International Atomic Energy Agency for the Application of Safeguards*.

Deriving conclusions

10. A safeguards conclusion that all nuclear material has remained in peaceful activities in a State is based on the Agency's finding that there are no indications of diversion of declared nuclear material from peaceful nuclear activities and no indications of undeclared nuclear material or activities in the State as a whole. The Agency draws such a conclusion only where a State has both a comprehensive safeguards agreement and an additional protocol in force and the evaluations described below have been completed.

11. To ascertain that there are no indications of diversion of declared nuclear material from peaceful nuclear activities in a State, the Agency needs to carry out a comprehensive evaluation of all safeguards relevant information available to it, which includes information provided by the State with regard to the design and operation of nuclear facilities and LOFs, the State's nuclear material accounting reports, the State's declarations submitted under the additional protocol and the results of the Agency's in-field activities carried out to verify the State's declarations.

12. To ascertain that there are no indications of undeclared nuclear material or activities in a State, the Agency needs to carry out an evaluation of the consistency of the State's declared nuclear programme with the results of the Agency's verification activities under the relevant safeguards agreements and additional protocols and with all other safeguards relevant information available to the Agency. In particular, the Agency needs to have:

- conducted a comprehensive State evaluation based on all safeguards relevant information available to the Agency about the State's nuclear and nuclear related activities (including design information on facilities and information on LOFs, declarations submitted under additional protocols, and information collected by the Agency through its verification activities and from other sources);
- performed complementary access, as necessary, in accordance with the State's additional protocol; and
- addressed all anomalies, discrepancies and inconsistencies identified in the course of its evaluation and verification activities.

13. When the evaluations described in paragraphs 11 and 12 above have been completed and no indication has been found by the Agency that, in its judgement, would give rise to a proliferation concern, the Secretariat can draw the broader conclusion that all nuclear material in a State has remained in peaceful activities. Subsequently, the Agency implements integrated safeguards — an optimized combination of safeguards measures available under comprehensive safeguards agreements and additional protocols — for that State. Due to increased assurance of the absence of undeclared nuclear material and activities for the State as a whole, the intensity of inspection activities at declared facilities and LOFs can be reduced. Integrated safeguards were implemented during 2014 in 53 (53) States^{2, 11}.

Overall conclusions for 2014

14. On the basis of the evaluations described in paragraphs 11 and 12, the Secretariat drew the conclusions referred to in paragraph 1(a) of the Safeguards Statement for 65 (63) States² — Albania,

¹¹ Armenia, Australia, Austria, Bangladesh, Belgium, Bulgaria, Burkina Faso, Canada, Chile, Croatia, Cuba, Czech Republic, Denmark, Ecuador, Estonia, Finland, Germany, Ghana, Greece, Holy See, Hungary, Iceland, Indonesia, Ireland, Italy, Jamaica, Japan, Latvia, Libya, Lithuania, Luxembourg, Madagascar, Mali, Malta, Monaco, the Netherlands, Norway, Palau, Peru, Poland, Portugal, Republic of Korea, Romania, Seychelles, Singapore, Slovakia, Slovenia, Spain, Sweden, The former Yugoslav Republic of Macedonia, Ukraine, Uruguay and Uzbekistan.

Andorra, Armenia, Australia, Austria, Bangladesh, Belgium, Botswana, Bulgaria, Burkina Faso, Canada, Chile, Croatia, Cuba, Czech Republic, Denmark¹², Ecuador, Estonia, Finland, Germany, Ghana, Greece, Holy See, Hungary, Iceland, Indonesia, Ireland, Italy, Jamaica, Japan, Jordan, Kazakhstan, Kuwait, Latvia, Libya, Lithuania, Luxembourg, Madagascar, Mali, Malta, Mauritius, Monaco, Netherlands¹³, New Zealand¹⁴, Norway, Palau, Peru, Philippines, Poland, Portugal, Republic of Korea, Romania, Seychelles, Singapore, Slovakia, Slovenia, South Africa, Spain, Sweden, The former Yugoslav Republic of Macedonia, Turkey, Ukraine, Uruguay, Uzbekistan and Viet Nam. For Kazakhstan and Viet Nam the conclusion in paragraph 1(a) of the Safeguards Statement was drawn for the first time.

15. Because the evaluation process described in paragraph 12 had not yet been completed for 53 (54) States¹⁵, the conclusion drawn for these States relates only to declared nuclear material in peaceful activities. The conclusion in paragraph 1(b) of the Safeguards Statement was drawn for: Afghanistan, Angola, Antigua and Barbuda, Azerbaijan, Bahrain, Bosnia and Herzegovina, Burundi, Central African Republic, Chad, Colombia, Comoros, Costa Rica, Cyprus, Democratic Republic of the Congo, Dominican Republic, El Salvador, Fiji, Gabon, Gambia, Georgia, Guatemala, Haiti, Iraq, Kenya, Kyrgyzstan, Lesotho, Malawi, Marshall Islands, Mauritania, Mexico, Mongolia, Montenegro, Morocco, Mozambique, Namibia, Nicaragua, Niger, Nigeria, Panama, Paraguay, Congo, Republic of Moldova, Rwanda, Saint Kitts and Nevis, Swaziland, Switzerland, Tajikistan, Togo, Turkmenistan, Uganda, United Arab Emirates, United Republic of Tanzania and Vanuatu.

B.1.1.2. States with comprehensive safeguards agreements in force but no additional protocols in force

Status of implementation

16. As of 31 December 2014, safeguards were implemented for 54 (55) States in this category. Safeguards implementation involved activities in the field and at Headquarters, including the evaluation of States' accounting reports and other information required under comprehensive safeguards agreements and the evaluation of safeguards relevant information from other sources.

Deriving conclusions

17. For a State with a comprehensive safeguards agreement, the Agency's right and obligation are as described in paragraph 3 above. Although the implementation of safeguards strengthening measures¹⁶ under such an agreement have increased the Agency's ability to detect undeclared nuclear material and activities, the activities that the Agency may conduct in this regard are limited for a State

¹² This conclusion is drawn with regard only to that part of Denmark which is covered by INFCIRC/193 and INFCIRC/193/Add. 8; i.e. Denmark and the Faroe Islands, which excludes Greenland. Denmark has concluded a separate comprehensive safeguards agreement and an additional protocol thereto that apply to Greenland (INFCIRC/176 and INFCIRC/176/Add.1, respectively).

¹³ This conclusion is drawn with regard only to that part of the Netherlands which is covered by INFCIRC/193 and INFCIRC/193/Add.8, i.e. the Netherlands in Europe, which excludes the Caribbean part of the Netherlands (the islands of Bonaire, Sint Eustatius and Saba), Aruba, Curaçao and Sint Maarten. The Netherlands has concluded a separate comprehensive safeguards agreement that applies to its constituent parts mentioned above (INFCIRC/229), but has not yet concluded an additional protocol thereto.

¹⁴ This conclusion is drawn with regard only to that part of New Zealand which is covered by INFCIRC/185 and INFCIRC/185/Add.1; it is not drawn for the Cook Islands and Niue, which are covered by INFCIRC/185, but not by INFCIRC/185/Add.1.

¹⁵ This conclusion is drawn with regard only to that part of Denmark which is covered by INFCIRC/176 and INFCIRC/176/Add.1 (i.e. Greenland) for which the broader conclusion was not drawn.

¹⁶ Such measures include the early provision of design information, environmental sampling and the use of satellite imagery.

without an additional protocol. Thus, the conclusion in the Safeguards Statement for a State with a comprehensive safeguards agreement alone relates only to the non-diversion of declared nuclear material from peaceful activities.

18. In the course of its evaluation, the Agency also seeks to determine whether there is any indication of undeclared nuclear material or activities in the State which would need to be reflected in the Safeguards Statement. However, without the measures provided for in the *Model Additional Protocol* being implemented, the Agency is not able to provide credible assurance of the absence of undeclared nuclear material and activities for the State as a whole.

Islamic Republic of Iran

19. During 2014, the Director General submitted four reports to the Board of Governors titled *Implementation of the NPT Safeguards Agreement and relevant provisions of Security Council resolutions in the Islamic Republic of Iran* (GOV/2014/10, GOV/2014/28, GOV/2014/43 and GOV/2014/58 and Corr.1).

20. In 2014, contrary to the relevant binding resolutions of the Board of Governors and the United Nations Security Council, Iran did not: implement the provisions of its additional protocol; implement the modified Code 3.1 of the Subsidiary Arrangements General Part to its Safeguards Agreement; suspend all enrichment related activities or suspend all heavy water related activities. Neither did Iran resolve the Agency's concerns about possible military dimensions to Iran's nuclear programme. This resolution is necessary in order to establish international confidence in the exclusively peaceful nature of that programme.

21. In the Framework for Cooperation, the Agency and Iran, between November 2013 and May 2014, agreed on a total of 18 practical measures to be implemented by Iran in three sequential steps as part of an approach to resolve all present and past issues.¹⁷ As of the end of 2014, Iran had implemented 16 of these practical measures; two practical measures related to possible military dimensions, agreed for the third step of the Framework for Cooperation, remained to be implemented. The Agency also invited Iran to propose new practical measures to address the concerns over possible military dimensions, to be implemented in the next step of the Framework for Cooperation. As of 31 December 2014, Iran had not proposed any such measures.

22. Since 20 January 2014, the Agency has undertaken monitoring and verification in relation to the nuclear-related measures set out in the Joint Plan of Action agreed between China, France, Germany, the Russian Federation, the United Kingdom, the United States of America and Iran, the aim of which is to reach a "mutually-agreed, long-term comprehensive solution that would ensure Iran's nuclear programme will be exclusively peaceful". The initial duration of the Joint Plan of Action was six months. On 24 July 2014, the Plan was extended until 24 November 2014, when it was further extended until 30 June 2015. The Agency's work in relation to the Plan has required an approximate doubling of its verification activities compared to those it had already been carrying out pursuant to Iran's safeguards agreement and the relevant resolutions of the Board of Governors and the Security Council.

23. While the Agency continued throughout 2014 to verify the non-diversion of declared nuclear material at the nuclear facilities and LOFs declared by Iran under its safeguards agreement, the Agency was not in a position to provide credible assurance about the absence of undeclared nuclear

¹⁷ The initial six practical measures were agreed on 13 November 2013; another seven practical measures were agreed on 9 February 2014; and a further five practical measures were agreed on 20 May 2014.

material and activities in Iran and, therefore, was unable to conclude that all nuclear material in Iran was in peaceful activities.¹⁸

Syrian Arab Republic

24. In September 2014, the Director General submitted a report to the Board of Governors titled *Implementation of the NPT Safeguards Agreement in the Syrian Arab Republic* (GOV/2014/44). The Director General informed the Board of Governors that no new information had come to the knowledge of the Agency that would have an impact on the Agency's assessment that it was very likely that a building destroyed at the Dair Alzour site was a nuclear reactor that should have been declared to the Agency by Syria¹⁹. In 2014, the Director General renewed his call on Syria to cooperate fully with the Agency in connection with unresolved issues related to the Dair Alzour site and other locations. Syria has yet to respond to these calls.

25. In 2014, Syria indicated its readiness to receive Agency inspectors, and to provide support, for the purpose of performing a physical inventory verification (PIV) at the Miniature Neutron Source Reactor in Damascus. The Agency — after considering the United Nations Department of Safety and Security's assessment of the prevailing security level in Syria and the small amount of nuclear material declared by Syria to be at the reactor — decided to postpone the PIV at the reactor until the security level had sufficiently improved. By the end of 2014, the assessment of the security level in Syria had not changed.

26. On the basis of the evaluation of information provided by Syria and other safeguards relevant information available to it, the Agency found no indication of the diversion of declared nuclear material from peaceful activities. For 2014, the Agency concluded for Syria that declared nuclear material remained in peaceful activities.

Overall conclusions for 2014

27. On the basis of the evaluation performed and as reflected in paragraph 2 of the Safeguards Statement, the Secretariat concluded that for the 54 (55) States²⁰, declared nuclear material remained in peaceful activities. This conclusion was drawn for Algeria, Argentina, the Bahamas, Barbados, Belarus, Belize, Bhutan, Bolivia, Brazil, Brunei Darussalam, Cambodia, Cameroon, Côte d'Ivoire, Dominica, Egypt, Ethiopia, Grenada, Guyana, Honduras, Islamic Republic of Iran, Kiribati, Lao People's Democratic Republic, Lebanon, Liechtenstein, Malaysia, Maldives, Myanmar, Nauru, Nepal, Oman, Papua New Guinea, Qatar, Saint Lucia, Saint Vincent and the Grenadines, Samoa, San Marino, Saudi Arabia, Senegal, Serbia, Sierra Leone, Solomon Islands, Sri Lanka, Sudan, Suriname, Syrian Arab Republic, Thailand, Tonga, Trinidad and Tobago, Tunisia, Tuvalu, Bolivarian Republic of Venezuela, Yemen, Zambia and Zimbabwe.

¹⁸ As, for example, Iran did not implement its additional protocol, as required in the relevant binding resolutions of the Board of Governors and the United Nations Security Council.

¹⁹ The Board of Governors, in its resolution GOV/2011/41 of June 2011 (adopted by a vote) had, inter alia, called on Syria to urgently remedy its non-compliance with its NPT safeguards agreement and, in particular, to provide the Agency with updated reporting under its safeguards agreement and access to all information, sites, material and persons necessary for the Agency to verify such reporting and resolve all outstanding questions so that the Agency could provide the necessary assurance as to the exclusively peaceful nature of Syria's nuclear programme.

²⁰ In addition, this conclusion is drawn for those territories of the Netherlands and New Zealand referred to in footnotes 13 and 14 for which the broader conclusion is not drawn – i.e. the Caribbean part of the Netherlands (the islands of Bonaire, Sint Eustatius and Saba), Aruba, Curaçao and Sint Maarten; and the Cook Islands and Niue, respectively.

B.1.2. States with no safeguards agreements in force

28. As of 31 December 2014, 12 (12) non-nuclear-weapon States party to the NPT had yet to bring comprehensive safeguards agreements into force pursuant to the Treaty.

Overall conclusions for 2014

29. As indicated in paragraph 3 of the Safeguards Statement, the Secretariat could not draw any safeguards conclusions for the following States: Benin, Cabo Verde, Djibouti, Equatorial Guinea, Eritrea, Guinea, Guinea-Bissau, Liberia, Federated States of Micronesia, São Tome and Principe, Somalia and Timor Leste.

B.1.3. States with safeguards agreements based on INFCIRC/66/Rev.2 in force

30. Under safeguards agreements based on INFCIRC/66/Rev.2, the Agency applies safeguards in order to ensure that nuclear material, facilities and other items specified under the safeguards agreement are not used for the manufacture of any nuclear weapon or to further any military purpose, and that such items are used exclusively for peaceful purposes and are not used for the manufacture of any nuclear explosive device.

Status of implementation

31. As of 31 December 2014, safeguards were implemented at facilities in India, Israel and Pakistan pursuant to safeguards agreements based on INFCIRC/66/Rev.2. India brought an additional protocol into force in July 2014.

Deriving conclusions

32. The conclusion described in paragraph 4 of the Safeguards Statement is reported for these three States, and relates to the nuclear material, facilities and other items to which safeguards were applied. To draw such a conclusion in respect of these States, the Agency evaluates all safeguards relevant information available, including verification results and information about facility design features and operations.

Overall conclusions for 2014

33. On the basis of the results of its verification and evaluation activities, the Secretariat concluded that the nuclear material, facilities or other items to which safeguards were applied in India, Israel and Pakistan remained in peaceful activities.

B.1.4. States with both voluntary offer agreements and additional protocols in force

34. Under a voluntary offer agreement, the Agency applies safeguards to nuclear material in those facilities that have been selected by the Agency from the State's list of eligible facilities in order to verify that the material is not withdrawn from peaceful activities except as provided for in the agreement. In selecting facilities under voluntary offer agreements for the application of safeguards, the Agency takes such factors into consideration as: (i) whether the selection of a facility would satisfy legal obligations arising from other agreements concluded by the State; (ii) whether useful experience may be gained in implementing new safeguards approaches or in using advanced equipment and technology; and (iii) whether the cost efficiency of Agency safeguards may be enhanced by applying safeguards, in the exporting State, to nuclear material being shipped to States with comprehensive safeguards agreements in force. By implementing measures under the additional protocol in these five States with voluntary offer agreements, the Agency also seeks to obtain and verify information that

could enhance the safeguards conclusions in States with comprehensive safeguards agreements in force.

Status of implementation

35. During 2014, safeguards were implemented at facilities selected by the Agency in the five States with voluntary offer agreements in force: China, France, the Russian Federation, the United Kingdom of Great Britain and Northern Ireland (United Kingdom) and the United States of America.

Deriving conclusions

36. The conclusion contained in paragraph 5 of the Safeguards Statement is reported for the five States with voluntary offer agreements in force in which safeguards were applied to nuclear material in selected facilities. To draw the safeguards conclusion, the Agency evaluates all safeguards relevant information, including verification results and information about facility design features and operations.

Overall conclusions for 2014

37. On the basis of the results of its verification and evaluation activities, the Secretariat concluded for China, France, the Russian Federation, the United Kingdom and the United States of America that nuclear material to which safeguards had been applied in selected facilities remained in peaceful activities or had been withdrawn as provided for in the agreements. There were no such withdrawals in France and the United Kingdom.

B.2. Democratic People's Republic of Korea

38. In September 2014, the Director General submitted a report to the Board of Governors and General Conference titled *Application of Safeguards in the Democratic People's Republic of Korea* (GOV/2014/42–GC(58)/21), which provided an update of developments since the Director General's report of August 2013.

39. Since 1994, the Agency has not been able to conduct all necessary safeguards activities provided for in the DPRK's NPT safeguards agreement. From the end of 2002 until July 2007, the Agency was not able — and, since April 2009, has not been able — to implement any verification measures in the DPRK and, therefore, could not draw any safeguards conclusion regarding the DPRK.

40. Since April 2009, the Agency has not implemented any measures under the ad hoc monitoring and verification arrangement agreed between the Agency and the DPRK and foreseen in the Initial Actions agreed at the Six-Party Talks. Statements by the DPRK concerning its conducting of a third nuclear test, reiterating its "right" to conduct further nuclear tests, and its intention to readjust and restart its nuclear facilities at Yongbyon, together with its previous statements about uranium enrichment activities and the construction of a light water reactor, are deeply regrettable.

41. No verification activities were implemented in the field in 2014, but the Agency continued to monitor the DPRK's nuclear activities by using open source information (including satellite imagery and trade information). Using satellite imagery, the Agency continued to observe signatures which were consistent with the operation of the 5MW(e) reactor at Yongbyon throughout 2014, and renovation or expansion of other buildings was also seen within the Yongbyon site. However, without access to the site, the Agency cannot confirm the operational status of the reactor or the purpose of the other observed activities. The Agency also continued to further consolidate its knowledge of the DPRK's nuclear programme with the objective of maintaining operational readiness to resume safeguards implementation in the DPRK.

B.3. Areas of difficulty in safeguards implementation

42. Although progress was made during 2014 in addressing some of the areas of difficulty in implementing safeguards, further work remains to be done.

43. The performance and effectiveness of State and regional systems of accounting for and control of nuclear material have significant impacts upon the effectiveness and efficiency of Agency safeguards implementation. In 2014, some States still had not established national systems of accounting for and control of nuclear material, which are required under comprehensive safeguards agreements. Moreover, not all State and regional authorities responsible for safeguards implementation have the necessary authority, resources, technical capabilities or independence from nuclear facility or LOF operators to implement the requirements of safeguards agreements and additional protocols. In particular, some State authorities do not provide sufficient oversight of nuclear material accounting and control systems at nuclear facilities and LOFs to ensure the required accuracy and precision of the data transmitted to the Agency.

44. In accordance with the decision of the Board of Governors in September 2005, States which have not amended or rescinded their SQPs should do so as soon as possible. At the end of 2014, 42 (44) States²¹ had operative SQPs that had yet to be amended.

B.4. Strengthening the effectiveness and improving the efficiency of safeguards

45. The Agency has continued to improve the efficiency of safeguards implementation while maintaining or strengthening its effectiveness. This improvement has been essential since the quantities of nuclear material and other items under safeguards and the number of facilities under safeguards have increased (see Fact box 1). In contrast, the Agency's financial resources have not risen commensurately. It should be noted that while a number of facilities are being retired from service, this will not immediately reduce verification effort as safeguards continue to be applied to those facilities until their status is confirmed by the Agency as decommissioned for safeguards purposes.

46. Some of the factors contributing to strengthening the effectiveness and improving the efficiency of safeguards are shown in Fact box 2.

Fact box 2. Strengthening the effectiveness and improving the efficiency of safeguards

In 2014, significant progress was made, as follows:

- During 2014, additional protocols entered into force for India and Saint Kitts and Nevis. At the end of the year, 124 States² had additional protocols in force, out of 180 States^{1,2} where safeguards were applied.
- Two SQPs²² were amended in 2014. At the end of 2014, 53 (51) States²³ had SQPs based on the revised standard text, and four States had rescinded their SQPs.

²¹ The States with SQPs based on the original text are: Afghanistan, Barbados, Belize, Bhutan, Bolivia, Brunei Darussalam, Cameroon, Dominica, Ethiopia, Fiji, Grenada, Guyana, Haiti, Jordan, Kiribati, Kyrgyzstan, Lao Peoples Democratic Republic, Maldives, Mongolia, Myanmar, Namibia, Nauru, Nepal, Oman, Papua New Guinea, Paraguay, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and Grenadines, Samoa, Saudi Arabia, Sierra Leone, Solomon Islands, Sudan, Suriname, Togo, Tonga, Trinidad and Tobago, Tuvalu, the United Arab Emirates, Yemen and Zambia.

²² Small quantities protocols were amended by Cambodia and New Zealand.

Fact box 2. Strengthening the effectiveness and improving the efficiency of safeguards

- Strategic planning activities continued, including a technology foresight workshop in Vienna.
- A supplementary document providing clarification and additional information on the State-level concept was submitted to the Board of Governors.
- The Agency continued to better integrate verification activities in the field and at Headquarters with the State evaluation process.
- Further development and testing of internal procedures and guidance were carried out, including guidance on conducting acquisition path analysis and developing State-level safeguards approaches for States with comprehensive safeguards agreements.
- The development and implementation of more effective and efficient safeguards concepts and technology continued for new types of facilities (such as geological repositories, spent fuel encapsulation plants, laser enrichment facilities and pyroprocessing facilities).
- Monitoring, containment and surveillance systems were further improved and deployed.
- Further use was made of short notice and unannounced routine inspections to verify declarations of facility data and operational plans.
- The Agency continued modernizing technologies used for attended measurements, unattended monitoring and the remote transmission of data from such systems.
- The enhancement of information analysis capabilities continued, supported by the collection of open source information (including satellite imagery and information on nuclear related trade), consolidation of State declarations, and advanced evaluation of verification data.
- The Agency continued to make improvements to the structural re-engineering, performance and security of the safeguards information system. By the end of the year, more than half of the major software applications undergoing re-engineering had been completed. Work on defining the scope of the modernization of safeguards information technology (MOSAIC) project, established in 2013, was completed.
- The Agency published the *Safeguards Implementation Guide for States with Small Quantities Protocols* in French and Spanish, held training courses at national, regional and international levels, and conducted three safeguards advisory missions.
- The quality management system continued to be implemented with a focus on knowledge management, performance indicators, cost calculation methodology, and tools to help improve processes, such as quality control reviews, internal audits and condition reports.
- The twelfth *Symposium on International Safeguards* was held in Vienna in October 2014.

47. As a result of these improvements, safeguards have been implemented more effectively while it has been possible to reduce the number of calendar-days spent in the field for verification⁶ by 6% over the past five years. While there has been a reduction of inspection effort in the field, the verification and evaluation activities at Headquarters that enabled the reductions have comparably increased. The number of regular staff in the Department of Safeguards has remained approximately constant over the past five years.

48. Member State Support Programmes (MSSPs) and the Standing Advisory Group on Safeguards Implementation (SAGSI) continued to make substantial contributions to Agency safeguards through the provision of assistance and advice, respectively.

²³ The States with SQPs based on the revised standard text are: Andorra, Angola, Antigua and Barbuda, Azerbaijan, Bahamas, Bahrain, Burkina Faso, Burundi, Cambodia, Central African Republic, Chad, Comoros, Congo, Costa Rica, Croatia, Dominican Republic, Ecuador, El Salvador, Gabon, Gambia, Guatemala, Holy See, Honduras, Iceland, Kenya, Kuwait, Lebanon, Lesotho, Madagascar, Malawi, Mali, Mauritania, Mauritius, Monaco, Montenegro, Mozambique, New Zealand, Nicaragua, Palau, Panama, Qatar, Republic of Moldova, Rwanda, San Marino, Senegal, Seychelles, Singapore, Swaziland, The former Yugoslav Republic of Macedonia, Uganda, United Republic of Tanzania, Vanuatu and Zimbabwe.

B.5. Safeguards expenditures and resources

49. During 2014, the activities of Major Programme 4 — Nuclear Verification — were funded from various sources — primarily through the Regular Budget and extrabudgetary contributions. The Regular Budget²⁴ appropriation for 2014 was adjusted to €126.4 (€124.1) million at the average United Nations exchange rate. The extrabudgetary allotments for 2014 were €31.8 million.

50. The expenditures for Major Programme 4 were €124.4 (€122.5) million from the Regular Budget, an increase of 1.5%, over 2013. The Regular Budget utilization rate for 2014 was 98.4% (98.7%) with an unspent balance at the end of the year of €2.0 (€1.6) million. Figure 1 shows the utilization trend of Major Programme 4 for the period 2010–2014.

51. The expenditures from the extrabudgetary contributions were €21.9 (€14.6) million, an increase of 33.3% from 2013. This increase resulted from implementation of the monitoring and verification activities in Iran in relation to the Joint Plan of Action which commenced in 2014.

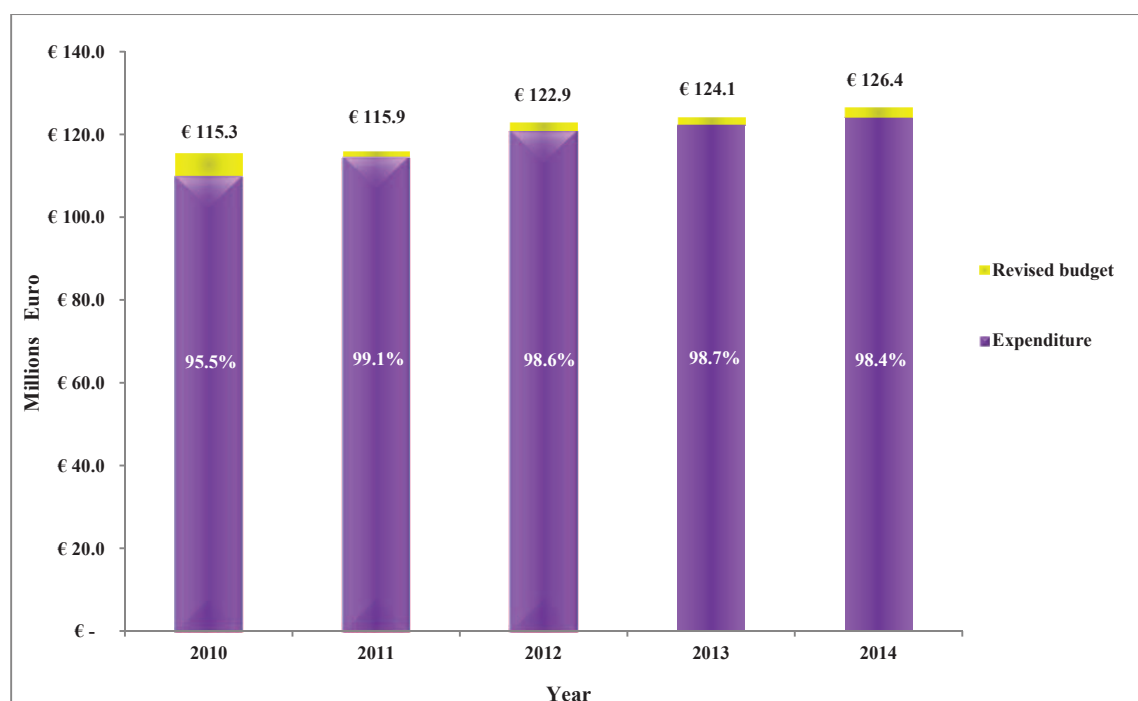


Figure 1. Major Programme 4 — Nuclear Verification — budget and expenditures, 2010–2014

B.6. Further activities supporting the nuclear non-proliferation regime

52. During 2014, the monitoring scheme approved by the Board of Governors in 1999 regarding separated neptunium and americium continued. The Agency received information from eight States^{2, 25} and the European Commission about separated neptunium or americium. A facility in Germany continued to be subject to flow sheet verification. By the end of 2014, evaluation of the information that had been obtained under the monitoring scheme and from open sources and other sources had not indicated any issue of proliferation concern.

²⁴ €131.0 million (at an exchange rate €1=\$1).

²⁵ Czech Republic, France, Japan, Republic of Korea, Norway, Pakistan, United Kingdom and United States of America.

B.7. Status of safeguards agreements (as of 31 December 2014)

53. This section contains information — presented in the five tables below that conform with the structure of the Safeguards Statement — on safeguards agreements that provide the basis for the Agency’s implementation of safeguards in 2014. It does not include agreements under which the application of safeguards has been suspended in the light of implementation of safeguards pursuant to another agreement. For full details see the Agency’s website:

http://www.iaea.org/OurWork/SV/Safeguards/documents/sir_table.pdf.

Table 1 – States with comprehensive safeguards agreements and additional protocols in force

State	SQP	INFCIRC	Additional protocol (date of entry into force)	Broader conclusion drawn	Integrated safeguards implemented
Afghanistan	X	257	19 July 2005		
Albania		359	03 November 2010	X	
Andorra	X (A)	808	19 December 2011	X	
Angola	X(A)	800	28 April 2010		
Antigua and Barbuda	X(A)	528	15 November 2013		
Armenia		455	28 June 2004	X	X
Australia		217	12 December 1997	X	X
Austria		193	30 April 2004	X	X
Azerbaijan	X(A)	580	29 November 2000		
Bahrain	X(A)	767	20 July 2011		
Bangladesh		301	30 March 2001	X	X
Belgium		193	30 April 2004	X	X
Bosnia and Herzegovina		851	03 July 2013		
Botswana		694	24 August 2006	X	
Bulgaria⁽¹⁾		193	01 May 2009	X	X
Burkina Faso	X(A)	618	17 April 2003	X	X
Burundi	X(A)	719	27 September 2007		
Canada		164	08 September 2000	X	X
Central African Republic	X(A)	777	07 September 2009		
Chad	X(A)	802	13 May 2010		
Chile		476	03 November 2003	X	X
Colombia		306	05 March 2009		
Comoros	X(A)	752	20 January 2009		
Congo	X(A)	831	28 October 2011		
Costa Rica	X(A)	278	17 June 2011		
Croatia	X(A)	463	06 July 2000	X	X
Cuba		633	03 June 2004	X	X
Cyprus⁽¹⁾		193	01 May 2008		
Czech Republic⁽¹⁾		193	01 October 2009	X	X
Democratic Republic of the Congo		183	09 April 2003		
Denmark⁽²⁾		193 176	30 April 2004 22 March 2013	X	X
Dominican Republic	X(A)	201	05 May 2010		
Ecuador	X(A)	231	24 October 2001	X	X
El Salvador	X(A)	232	24 May 2004		
Estonia⁽¹⁾		193	01 December 2005	X	X
Fiji	X	192	14 July 2006		
Finland		193	30 April 2004	X	X
Gabon	X (A)	792	25 March 2010		
Gambia	X(A)	277	18 October 2011		

State	SQP	INFCIRC	Additional protocol (date of entry into force)	Broader conclusion drawn	Integrated safeguards implemented
Georgia		617	03 June 2003		
Germany		193	30 April 2004	X	X
Ghana		226	11 June 2004	X	X
Greece		193	30 April 2004	X	X
Guatemala	X(A)	299	28 May 2008		
Haiti	X	681	09 March 2006		
Holy See	X(A)	187	24 September 1998	X	X
Hungary ⁽¹⁾		193	01 July 2007	X	X
Iceland	X(A)	215	12 September 2003	X	X
Indonesia		283	29 September 1999	X	X
Iraq		172	10 October 2012		
Ireland		193	30 April 2004	X	X
Italy		193	30 April 2004	X	X
Jamaica		265	19 March 2003	X	X
Japan		255	16 December 1999	X	X
Jordan	X	258	28 July 1998	X	
Kazakhstan		504	09 May 2007	X	
Kenya	X(A)	778	18 September 2009		
Korea, Republic of		236	19 February 2004	X	X
Kuwait	X(A)	607	02 June 2003	X	
Kyrgyzstan	X	629	10 November 2011		
Latvia ⁽¹⁾		193	01 October 2008	X	X
Lesotho	X(A)	199	26 April 2010		
Libya		282	11 August 2006	X	X
Lithuania ⁽¹⁾		193	01 January 2008	X	X
Luxembourg		193	30 April 2004	X	X
Madagascar	X(A)	200	18 September 2003	X	X
Malawi	X(A)	409	26 July 2007		
Mali	X(A)	615	12 September 2002	X	X
Malta ⁽¹⁾		193	01 July 2007	X	X
Marshall Islands		653	03 May 2005		
Mauritania	X(A)	788	10 December 2009		
Mauritius	X(A)	190	17 December 2007	X	
Mexico		197	04 March 2011		
Moldova, Republic of	X(A)	690	01 June 2012		
Monaco	X(A)	524	30 September 1999	X	X
Mongolia	X	188	12 May 2003		
Montenegro	X(A)	814	04 March 2011		
Morocco		228	21 April 2011		
Mozambique	X(A)	813	01 March 2011		
Namibia	X	551	20 February 2012		
Netherlands ⁽³⁾		193	30 April 2004	X	X
New Zealand ⁽⁴⁾	X(A)	185	24 September 1998	X	
Nicaragua	X(A)	246	18 February 2005		
Niger		664	02 May 2007		
Nigeria		358	04 April 2007		
Norway		177	16 May 2000	X	X
Palau	X(A)	650	13 May 2005	X	X
Panama	X(A)	316	11 December 2001		
Paraguay	X	279	15 September 2004		
Peru		273	23 July 2001	X	X
Philippines		216	26 February 2010	X	
Poland ⁽¹⁾		193	01 March 2007	X	X
Portugal		193	30 April 2004	X	X

State	SQP	INFCIRC	Additional protocol (date of entry into force)	Broader conclusion drawn	Integrated safeguards implemented
Romania⁽¹⁾		193	01 May 2010	X	X
Rwanda	X(A)	801	17 May 2010		
Saint Kitts and Nevis	X	514	19 May 2014		
Seychelles	X(A)	635	13 October 2004	X	X
Singapore	X(A)	259	31 March 2008	X	X
Slovakia⁽¹⁾		193	01 December 2005	X	X
Slovenia⁽¹⁾		193	01 September 2006	X	X
South Africa		394	13 September 2002	X	
Spain		193	30 April 2004	X	X
Swaziland	X(A)	227	08 September 2010		
Sweden		193	30 April 2004	X	X
Switzerland		264	01 February 2005		
Tajikistan		639	14 December 2004		
The former Yugoslav Republic of Macedonia	X(A)	610	11 May 2007	X	X
Togo	X	840	18 July 2012		
Turkey		295	17 July 2001	X	
Turkmenistan		673	03 January 2006		
Uganda	X(A)	674	14 February 2006		
Ukraine		550	24 January 2006	X	X
United Arab Emirates	X	622	20 December 2010		
United Republic of Tanzania	X(A)	643	07 February 2005		
Uruguay		157	30 April 2004	X	X
Uzbekistan		508	21 December 1998	X	X
Vanuatu	X(A)	852	21 May 2013		
Viet Nam		376	17 September 2012	X	
<p>General Notes:</p> <ul style="list-style-type: none"> ▪ In addition, safeguards, including the measures of the Model Additional Protocol, were applied for Taiwan, China. The broader conclusion was drawn for Taiwan, China, in 2006 and integrated safeguards were implemented from 1 January 2008. ▪ The safeguards agreement reproduced in INFCIRC/193 is that concluded between the non-nuclear-weapon States of the European Atomic Energy Community (EURATOM), EURATOM and the Agency. ▪ 'X' in the 'SQP' column indicates that the State has an operative SQP. 'X(A)' indicates that the SQP in force is based on the revised SQP standard text (see Section B, paragraph 6). ▪ 'X' in the 'broader conclusion drawn' column indicates that the broader conclusion has been drawn as described in Section B, paragraph 13. ▪ 'X' in the 'integrated safeguards implemented' column indicates that integrated safeguards were implemented for the whole of the year. <p>Footnotes:</p> <p>(1) The date refers to accession to INFCIRC/193 and INFCIRC/193/Add.8.</p> <p>(2) The application of safeguards in Denmark under the bilateral NPT safeguards agreement (INFCIRC/176), in force since 1 March 1972, was suspended on 21 February 1977, on which date the Safeguards Agreement between the non-nuclear-weapon States of EURATOM, EURATOM and the Agency (INFCIRC/193) entered into force for Denmark. Since 21 February 1977, INFCIRC/193 also applies to the Faroe Islands. Upon Greenland's secession from EURATOM as of 31 January 1985, the Agreement between the Agency and Denmark (INFCIRC/176) re-entered into force for Greenland. The additional protocol to this agreement entered into force on 22 March 2013 (INFCIRC/176/Add.1).</p> <p>(3) The safeguards agreement reproduced in INFCIRC/229 with regard to the Caribbean part of the Netherlands (the islands of Bonaire, Sint Eustatius, and Saba), Aruba, Curacao and Sint Maarten is pursuant to the NPT and Additional Protocol I to the Treaty of Tlatelolco. There is a SQP to this agreement. No additional protocol is in force for that agreement.</p> <p>(4) The safeguards agreement reproduced in INFCIRC/185 is applicable to the Cook Islands and Niue. The additional protocol reproduced in INFCIRC/185/Add. 1; however, is not applicable to the Cook Islands and Niue.</p>					

Table 2 – States with comprehensive safeguards agreements but no additional protocols in force

State	SQP	INFCIRC	Additional protocol
Algeria		531	Approved: 14 September 2004
Argentina		435	
Bahamas	X(A)	544	
Barbados	X	527	
Belarus		495	Signed: 15 November 2005
Belize	X	532	
Bhutan	X	371	
Bolivia	X	465	
Brazil		435	
Brunei Darussalam	X	365	
Cambodia	X(A)	586	Approved: 03 June 2014
Cameroon	X	641	Signed: 16 December 2004
Côte d'Ivoire		309	Signed: 22 October 2008
Democratic People's Republic of Korea ⁽¹⁾		403	
Dominica	X	513	
Egypt		302	
Ethiopia	X	261	
Grenada	X	525	
Guyana	X	543	
Honduras	X(A)	235	Signed: 07 July 2005
Iran, Islamic Republic of ⁽²⁾		214	Signed: 18 December 2003
Kiribati	X	390	Signed: 09 November 2004
Lao People's Democratic Republic	X	599	Signed: 05 November 2014
Lebanon	X(A)	191	
Liechtenstein		275	Signed: 14 July 2006
Malaysia		182	Signed: 22 November 2005
Maldives	X	253	
Myanmar	X	477	Signed: 17 September 2013
Nauru	X	317	
Nepal	X	186	
Oman	X	691	
Papua New Guinea	X	312	
Qatar	X(A)	747	
Saint Lucia	X	379	
Saint Vincent and the Grenadines	X	400	
Samoa	X	268	
San Marino	X(A)	575	
Saudi Arabia	X	746	
Senegal	X(A)	276	Signed: 15 December 2006
Serbia		204	Signed: 03 July 2009
Sierra Leone	X	787	
Solomon Islands	X	420	
Sri Lanka		320	
Sudan	X	245	
Suriname	X	269	
Syrian Arab Republic		407	
Thailand		241	Signed: 22 September 2005
Tonga	X	426	
Trinidad and Tobago	X	414	
Tunisia		381	Signed: 24 May 2005
Tuvalu	X	391	
Venezuela, Bolivarian Republic of		300	

State	SQP	INFCIRC	Additional protocol
Yemen	X	614	
Zambia	X	456	Signed: 13 May 2009
Zimbabwe	X(A)	483	
General Notes:			
<ul style="list-style-type: none"> The safeguards agreement reproduced in INFCIRC/435 is that concluded between Argentina, Brazil, the Brazilian-Argentine Agency for Accounting and Control of Nuclear Material (ABACC) and the Agency. 'X' in the 'SQP' column indicates that the State has an operative SQP. 'X(A)' indicates that the SQP in force is based on the revised SQP standard text (see Section B, paragraph 6). 			
Footnotes:			
(1) In a letter to the Director General dated 10 January 2003, the DPRK stated that the Government had "decided to lift the moratorium on the effectiveness of its withdrawal from the Treaty on the Non-Proliferation of Nuclear Weapons" and that "its decision to withdraw from the Treaty will come into effect from 11 January 2003 onwards."			
(2) Iran provisionally implemented its additional protocol between December 2003 and February 2006.			

Table 3 – States party to the NPT without comprehensive safeguards agreements in force

State	SQP	Safeguards agreement	Additional protocol
Benin	X(A)	Signed: 07 June 2005	Signed: 07 June 2005
Cabo Verde	X(A)	Signed: 28 June 2005	Signed: 28 June 2005
Djibouti	X(A)	Signed: 27 May 2010	Signed: 27 May 2010
Equatorial Guinea	X	Approved: 13 June 1986	
Eritrea			
Guinea	X(A)	Signed: 13 December 2011	Signed: 13 December 2011
Guinea-Bissau	X(A)	Signed: 21 June 2013	Signed: 21 June 2013
Liberia			
Micronesia, Federated States of			
São Tome and Principe			
Somalia			
Timor-Leste	X(A)	Signed: 06 October 2009	Signed: 06 October 2009
General Note:			
<ul style="list-style-type: none"> 'X' in the 'SQP' column indicates that the State has an SQP. 'X(A)' indicates that the SQP is based on the revised SQP standard text (see Section B, paragraph 6). In both cases the SQP will come into force at the same time as the safeguards agreement. 			

Table 4 – States with safeguards agreements based on INFCIRC/66/Rev.2 in force

State	INFCIRC	Additional protocol
India	211	In force: 25 July 2014
	260	
	360	
	374	
	433	
	754	
Israel	249/Add.1	
Pakistan	34	
	116	
	135	
	239	
	248	
	393	
	418	
	705	
816		

Table 5 – States with voluntary offer agreements and additional protocols in force

State	INFCIRC	Additional protocol
China	369	In force: 28 March 2002
France⁽¹⁾	290	In force: 30 April 2004
Russian Federation	327	In force: 16 October 2007
United Kingdom of Great Britain and Northern Ireland^{(2), (3)}	263	In force: 30 April 2004
United States of America⁽⁴⁾	288	In force: 06 January 2009

Footnotes:

- (1) The safeguards agreement reproduced in INFCIRC/718 between France, EURATOM and the Agency is pursuant to Additional Protocol I to the Treaty of Tlatelolco. There is an SQP to this agreement. No additional protocol to that agreement has been concluded.
- (2) The safeguards agreement reproduced in INFCIRC/175, which remains in force, is an INFCIRC/66/Rev.2-type safeguards agreement, concluded between the United Kingdom and the Agency.
- (3) The safeguards agreement between the United Kingdom, EURATOM and the Agency pursuant to Additional Protocol I to the Treaty of Tlatelolco was signed but has not entered into force. There is an SQP to this agreement. No additional protocol to that agreement has been concluded.
- (4) The safeguards agreement reproduced in INFCIRC/366 between the United States of America and the Agency is pursuant to Additional Protocol I to the Treaty of Tlatelolco. There is an SQP to this agreement. No additional protocol to that agreement has been concluded.