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### Table A1. Regular Budget allocation and utilization of resources in 2016 by Programme and Major Programme (in euros)

<table>
<thead>
<tr>
<th>Major Programme (MP)/Programme</th>
<th>Original budget US $1/€</th>
<th>Adjusted budget US $1/E0.903</th>
<th>Expenditure</th>
<th>Resource utilization</th>
<th>Unobligated balances</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MP1 — Nuclear Power, Fuel Cycle and Nuclear Science</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall management, coordination and common activities</td>
<td>3 202 953</td>
<td>3 154 150</td>
<td>3 133 881</td>
<td>99.4%</td>
<td>20 269</td>
</tr>
<tr>
<td>Nuclear Power</td>
<td>8 537 033</td>
<td>8 402 334</td>
<td>8 293 146</td>
<td>98.7%</td>
<td>108 188</td>
</tr>
<tr>
<td>Nuclear Fuel Cycle and Materials Technologies</td>
<td>6 815 074</td>
<td>6 713 899</td>
<td>6 300 138</td>
<td>93.8%</td>
<td>413 761</td>
</tr>
<tr>
<td>Capacity Building and Nuclear Knowledge for Sustainable Energy Development</td>
<td>10 233 234</td>
<td>10 093 501</td>
<td>9 656 162</td>
<td>95.7%</td>
<td>437 339</td>
</tr>
<tr>
<td>Nuclear Science</td>
<td>10 121 270</td>
<td>10 015 140</td>
<td>9 639 283</td>
<td>96.2%</td>
<td>375 857</td>
</tr>
<tr>
<td><strong>Total Major Programme 1</strong></td>
<td>38 909 564</td>
<td>38 379 024</td>
<td>37 022 610</td>
<td>96.5%</td>
<td>1 356 414</td>
</tr>
<tr>
<td><strong>MP2 — Nuclear Techniques for Development and Environmental Protection</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall management, coordination and common activities</td>
<td>7 785 318</td>
<td>7 727 917</td>
<td>7 738 552</td>
<td>100.1%</td>
<td>(1 035)</td>
</tr>
<tr>
<td>Food and Agriculture</td>
<td>11 433 333</td>
<td>11 310 005</td>
<td>11 291 151</td>
<td>99.8%</td>
<td>18 854</td>
</tr>
<tr>
<td>Human Health</td>
<td>8 276 608</td>
<td>8 176 958</td>
<td>8 118 221</td>
<td>99.3%</td>
<td>57 737</td>
</tr>
<tr>
<td>Water Resources</td>
<td>3 466 371</td>
<td>3 428 407</td>
<td>3 422 642</td>
<td>99.8%</td>
<td>5 765</td>
</tr>
<tr>
<td>Environment</td>
<td>6 275 597</td>
<td>6 200 703</td>
<td>6 232 962</td>
<td>100.5%</td>
<td>(32 259)</td>
</tr>
<tr>
<td>Radiisotope Production and Radiation Technology</td>
<td>2 250 108</td>
<td>2 226 652</td>
<td>2 008 045</td>
<td>90.2%</td>
<td>218 807</td>
</tr>
<tr>
<td><strong>Total Major Programme 2</strong></td>
<td>39 487 335</td>
<td>39 070 842</td>
<td>38 811 573</td>
<td>99.3%</td>
<td>259 269</td>
</tr>
<tr>
<td><strong>MP3 — Nuclear Safety and Security</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall management, coordination and common activities</td>
<td>3 988 447</td>
<td>3 927 526</td>
<td>3 691 233</td>
<td>94.0%</td>
<td>236 293</td>
</tr>
<tr>
<td>Incident and Emergency Preparedness and Response</td>
<td>4 250 797</td>
<td>4 194 055</td>
<td>4 103 582</td>
<td>97.8%</td>
<td>90 473</td>
</tr>
<tr>
<td>Safety of Nuclear Installations</td>
<td>10 261 763</td>
<td>10 084 677</td>
<td>9 957 361</td>
<td>98.7%</td>
<td>127 316</td>
</tr>
<tr>
<td>Radiation and Transport Safety</td>
<td>7 168 211</td>
<td>7 048 076</td>
<td>7 078 119</td>
<td>100.4%</td>
<td>(30 043)</td>
</tr>
<tr>
<td>Management of Radioactive Waste</td>
<td>3 668 294</td>
<td>3 608 775</td>
<td>3 494 314</td>
<td>92.8%</td>
<td>254 461</td>
</tr>
<tr>
<td>Nuclear Security</td>
<td>5 384 357</td>
<td>5 288 729</td>
<td>5 084 949</td>
<td>96.1%</td>
<td>263 780</td>
</tr>
<tr>
<td><strong>Total Major Programme 3</strong></td>
<td>34 721 869</td>
<td>34 151 838</td>
<td>33 284 558</td>
<td>97.4%</td>
<td>887 280</td>
</tr>
<tr>
<td><strong>MP4 — Nuclear Verification</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall management, coordination and common activities</td>
<td>13 919 282</td>
<td>13 757 229</td>
<td>13 298 352</td>
<td>96.7%</td>
<td>458 877</td>
</tr>
<tr>
<td>Safeguards Implementation</td>
<td>113 183 014</td>
<td>111 568 504</td>
<td>110 918 802</td>
<td>99.4%</td>
<td>649 702</td>
</tr>
<tr>
<td>Other Verification Activities</td>
<td>451 642</td>
<td>442 320</td>
<td>471 278</td>
<td>101.5%</td>
<td>(28 958)</td>
</tr>
<tr>
<td>Development</td>
<td>7 473 122</td>
<td>7 325 404</td>
<td>8 257 648</td>
<td>113.0%</td>
<td>(950 244)</td>
</tr>
<tr>
<td><strong>Total Major Programme 4</strong></td>
<td>135 027 060</td>
<td>133 093 457</td>
<td>132 964 080</td>
<td>99.9%</td>
<td>129 377</td>
</tr>
<tr>
<td><strong>MP5 — Policy, Management and Administration Services</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Policy, Management and Administration Services</td>
<td>78 611 528</td>
<td>77 872 617</td>
<td>76 862 397</td>
<td>96.1%</td>
<td>3 010 220</td>
</tr>
<tr>
<td><strong>Total Major Programme 5</strong></td>
<td>78 611 528</td>
<td>77 872 617</td>
<td>76 862 397</td>
<td>96.1%</td>
<td>3 010 220</td>
</tr>
<tr>
<td><strong>MP6 — Management of Technical Cooperation for Development</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Management of Technical Cooperation for Development</td>
<td>24 536 684</td>
<td>24 183 701</td>
<td>23 368 093</td>
<td>96.6%</td>
<td>815 608</td>
</tr>
<tr>
<td><strong>Total Major Programme 6</strong></td>
<td>24 536 684</td>
<td>24 183 701</td>
<td>23 368 093</td>
<td>96.6%</td>
<td>815 608</td>
</tr>
<tr>
<td><strong>Total Operational Regular Budget</strong></td>
<td>351 294 040</td>
<td>346 751 479</td>
<td>340 293 311</td>
<td>98.1%</td>
<td>6 458 168</td>
</tr>
</tbody>
</table>

**Major Capital Investment Funding Requirements**

<table>
<thead>
<tr>
<th>Major Programme (MP)/Programme</th>
<th>Capital Requirement US $1/€</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MP1 — Nuclear Power, Fuel Cycle and Nuclear Science</strong></td>
<td>–</td>
</tr>
<tr>
<td><strong>MP2 — Nuclear Techniques for Development and Environmental Protection</strong></td>
<td>2 489 920</td>
</tr>
<tr>
<td><strong>MP3 — Nuclear Safety and Security</strong></td>
<td>301 200</td>
</tr>
<tr>
<td><strong>MP4 — Nuclear Verification</strong></td>
<td>1 204 800</td>
</tr>
<tr>
<td><strong>MP5 — Policy, Management and Administration Services</strong></td>
<td>4 036 080</td>
</tr>
<tr>
<td><strong>MP6 — Management of Technical Cooperation for Development</strong></td>
<td>–</td>
</tr>
<tr>
<td><strong>Total Capital Regular Budget</strong></td>
<td>8 032 000</td>
</tr>
<tr>
<td><strong>Total Agency Programmes</strong></td>
<td>359 326 040</td>
</tr>
<tr>
<td>Reimbursable work for others</td>
<td>2 673 748</td>
</tr>
<tr>
<td><strong>Total Regular Budget</strong></td>
<td>361 999 788</td>
</tr>
</tbody>
</table>

Column a: General Conference resolution GC (59)/RES/5 of September 2015 original budget at US $1/€.
Column b: Original budget revalued at the United Nations operational average rate of exchange of €0.903 to US $1 in 2016.
<table>
<thead>
<tr>
<th>Major Programme (MP)/Programme</th>
<th>2016 expenditure</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MP1 — Nuclear Power, Fuel Cycle and Nuclear Science</strong></td>
<td></td>
</tr>
<tr>
<td>Overall management, coordination and common activities</td>
<td>61 207</td>
</tr>
<tr>
<td>Nuclear Power</td>
<td>3 199 729</td>
</tr>
<tr>
<td>Nuclear Fuel Cycle and Materials Technologies</td>
<td>4 531 352</td>
</tr>
<tr>
<td>Capacity Building and Nuclear Knowledge for Sustainable Energy Development</td>
<td>669 595</td>
</tr>
<tr>
<td>Nuclear Science</td>
<td>1 397 277</td>
</tr>
<tr>
<td><strong>Total Major Programme 1</strong></td>
<td>9 859 160</td>
</tr>
<tr>
<td><strong>MP2 — Nuclear Techniques for Development and Environmental Protection</strong></td>
<td></td>
</tr>
<tr>
<td>Overall management, coordination and common activities</td>
<td>4 105 228</td>
</tr>
<tr>
<td>Food and Agriculture</td>
<td>3 681 364</td>
</tr>
<tr>
<td>Human Health</td>
<td>591 452</td>
</tr>
<tr>
<td>Water Resources</td>
<td>9 089</td>
</tr>
<tr>
<td>Environment</td>
<td>2 018 585</td>
</tr>
<tr>
<td>Radioisotope Production and Radiation Technology</td>
<td>—</td>
</tr>
<tr>
<td><strong>Total Major Programme 2</strong></td>
<td>10 405 718</td>
</tr>
<tr>
<td><strong>MP3 — Nuclear Safety and Security</strong></td>
<td></td>
</tr>
<tr>
<td>Overall management, coordination and common activities</td>
<td>4 841 387</td>
</tr>
<tr>
<td>Incident and Emergency Preparedness and Response</td>
<td>352 039</td>
</tr>
<tr>
<td>Safety of Nuclear Installations</td>
<td>5 449 433</td>
</tr>
<tr>
<td>Radiation and Transport Safety</td>
<td>2 215 027</td>
</tr>
<tr>
<td>Management of Radioactive Waste</td>
<td>1 096 981</td>
</tr>
<tr>
<td>Nuclear Security</td>
<td>31 536 668</td>
</tr>
<tr>
<td><strong>Total Major Programme 3</strong></td>
<td>45 491 535</td>
</tr>
<tr>
<td><strong>MP4 — Nuclear Verification</strong></td>
<td></td>
</tr>
<tr>
<td>Overall management, coordination and common activities</td>
<td>1 284 153</td>
</tr>
<tr>
<td>Safeguards Implementation</td>
<td>15 713 020</td>
</tr>
<tr>
<td>Other Verification Activities</td>
<td>—</td>
</tr>
<tr>
<td>Development</td>
<td>12 417 562</td>
</tr>
<tr>
<td><strong>Total Major Programme 4</strong></td>
<td>29 414 735</td>
</tr>
<tr>
<td><strong>MP5 — Policy, Management and Administration Services</strong></td>
<td></td>
</tr>
<tr>
<td>Policy, Management and Administration Services</td>
<td>1 112 457</td>
</tr>
<tr>
<td><strong>Total Major Programme 5</strong></td>
<td>1 112 457</td>
</tr>
<tr>
<td><strong>MP6 — Management of Technical Cooperation for Development</strong></td>
<td></td>
</tr>
<tr>
<td>Management of Technical Cooperation for Development</td>
<td>91 685</td>
</tr>
<tr>
<td><strong>Total Major Programme 6</strong></td>
<td>91 685</td>
</tr>
<tr>
<td><strong>Total extrabudgetary programme funds</strong></td>
<td>96 375 290</td>
</tr>
</tbody>
</table>
**Table A3(a). Disbursements (actuals) of the Technical Cooperation Fund by technical field and region in 2016**

<table>
<thead>
<tr>
<th>Technical field</th>
<th>Africa</th>
<th>Asia and the Pacific</th>
<th>Europe</th>
<th>Latin America and the Caribbean</th>
<th>Global/interregional</th>
<th>PACT a</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy</td>
<td>1 508 657</td>
<td>1 438 115</td>
<td>645 324</td>
<td>568 541</td>
<td>1 117 775</td>
<td></td>
<td>5 278 412</td>
</tr>
<tr>
<td>Food and Agriculture</td>
<td>6 714 778</td>
<td>3 386 397</td>
<td>536 653</td>
<td>3 246 657</td>
<td>891 005</td>
<td></td>
<td>14 775 490</td>
</tr>
<tr>
<td>Health and Nutrition</td>
<td>5 133 015</td>
<td>5 216 606</td>
<td>5 929 488</td>
<td>3 596 599</td>
<td>1 459 023</td>
<td>695 237</td>
<td>22 020 967</td>
</tr>
<tr>
<td>Industrial Applications/Radiation Technology</td>
<td>1 281 454</td>
<td>1 372 692</td>
<td>1 071 689</td>
<td>1 583 368</td>
<td></td>
<td></td>
<td>5 399 203</td>
</tr>
<tr>
<td>Nuclear Knowledge Development and Management</td>
<td>3 540 060</td>
<td>2 398 542</td>
<td>1 227 151</td>
<td>2 898 518</td>
<td>2 071 928</td>
<td></td>
<td>12 136 199</td>
</tr>
<tr>
<td>Safety</td>
<td>4 143 475</td>
<td>4 883 059</td>
<td>6 058 775</td>
<td>3 513 783</td>
<td>1 082 958</td>
<td></td>
<td>19 682 049</td>
</tr>
<tr>
<td>Water and the Environment</td>
<td>2 573 148</td>
<td>1 077 913</td>
<td>396 957</td>
<td>1 927 420</td>
<td>29 482</td>
<td></td>
<td>6 004 920</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>24 894 587</strong></td>
<td><strong>19 773 324</strong></td>
<td><strong>15 857 037</strong></td>
<td><strong>17 334 885</strong></td>
<td><strong>6 652 170</strong></td>
<td>695 237</td>
<td><strong>85 207 239</strong></td>
</tr>
</tbody>
</table>

a PACT: Programme of Action for Cancer Therapy.
Table A3(b). Graphical representation of the Technical Cooperation Fund disbursement information in Table A3(a)

Note: See Table A3(a) for the full titles of the technical fields.
### Table A4. Amount of nuclear material under Agency safeguards at the end of 2016 by type of agreement

<table>
<thead>
<tr>
<th>Nuclear material</th>
<th>Comprehensive safeguards agreement</th>
<th>INFCIRC/66-type agreement</th>
<th>Voluntary offer agreement</th>
<th>Quantity in significant quantities (SQs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plutonium&lt;sup&gt;b&lt;/sup&gt; contained in irradiated fuel and in fuel elements in reactor cores</td>
<td>134 615</td>
<td>2 381</td>
<td>19 218</td>
<td>156 214</td>
</tr>
<tr>
<td>Separated plutonium outside reactor cores</td>
<td>1 412</td>
<td>5</td>
<td>10 656</td>
<td>12 073</td>
</tr>
<tr>
<td>High enriched uranium (equal to or greater than 20% U-235)</td>
<td>179</td>
<td>2</td>
<td>0</td>
<td>181</td>
</tr>
<tr>
<td>Low enriched uranium (less than 20% U-235)</td>
<td>18 998</td>
<td>248</td>
<td>1 609</td>
<td>20 855</td>
</tr>
<tr>
<td>Source material&lt;sup&gt;c&lt;/sup&gt; (natural and depleted uranium and thorium)</td>
<td>10 619</td>
<td>650</td>
<td>3 463</td>
<td>14 732</td>
</tr>
<tr>
<td>U-233</td>
<td>18</td>
<td>0</td>
<td>0</td>
<td>18</td>
</tr>
<tr>
<td>Total SQs of nuclear material</td>
<td>165 841</td>
<td>3 286</td>
<td>34 946</td>
<td>204 073</td>
</tr>
</tbody>
</table>

### Amount of heavy water under Agency safeguards at the end of 2016 by type of agreement

<table>
<thead>
<tr>
<th>Non-nuclear material&lt;sup&gt;d&lt;/sup&gt;</th>
<th>Comprehensive safeguards agreement</th>
<th>INFCIRC/66-type agreement</th>
<th>Voluntary offer agreement</th>
<th>Quantity in tonnes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy water (tonnes)</td>
<td>432.0</td>
<td></td>
<td></td>
<td>432.7&lt;sup&gt;e&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

<sup>a</sup> Includes nuclear material under Agency safeguards in Taiwan, China; excludes nuclear material in the Democratic People’s Republic of Korea.

<sup>b</sup> The quantity includes an estimated amount (10 000 SQs) of plutonium in fuel elements loaded into reactor cores and plutonium in other irradiated fuel, which has not yet been reported to the Agency under agreed reporting procedures.

<sup>c</sup> This table does not include material within the terms of subparagraphs 34(a) and 34(b) of INFCIRC/153 (Corrected).

<sup>d</sup> Non-nuclear material subject to Agency safeguards under INFCIRC/66/Rev.2-type agreements.

<sup>e</sup> Includes 0.7 tonnes of heavy water under Agency safeguards in Taiwan, China.
Table A5. Number of facilities and material balance areas outside facilities under Agency safeguards during 2016

<table>
<thead>
<tr>
<th>Type</th>
<th>Comprehensive safeguards agreement⁴</th>
<th>INFCIRC/66-type agreement</th>
<th>Voluntary offer agreement</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power reactors</td>
<td>236</td>
<td>12</td>
<td>1</td>
<td>249</td>
</tr>
<tr>
<td>Research reactors and critical assemblies</td>
<td>148</td>
<td>3</td>
<td>1</td>
<td>152</td>
</tr>
<tr>
<td>Conversion plants</td>
<td>18</td>
<td>0</td>
<td>0</td>
<td>18</td>
</tr>
<tr>
<td>Fuel fabrication plants</td>
<td>41</td>
<td>2</td>
<td>1</td>
<td>44</td>
</tr>
<tr>
<td>Reprocessing plants</td>
<td>9</td>
<td>0</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
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⁴ Includes facilities in Taiwan, China; excludes facilities in the Democratic People’s Republic of Korea.

⁵ Includes 56 material balance areas in States with amended small quantities protocols.
Table A6. Conclusion of safeguards agreements, additional protocols and small quantities protocols (as of 31 December 2016)

<table>
<thead>
<tr>
<th>State</th>
<th>Small quantities protocols</th>
<th>Safeguards agreements</th>
<th>INFCIRC</th>
<th>Additional protocols</th>
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<td>In force: 15 Nov. 2013</td>
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<td>In force: 14 Dec. 1972^2</td>
<td>175</td>
<td>In force: 30 Apr. 2004</td>
</tr>
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<td>Uruguay^2</td>
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<td>Vanuatu</td>
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<td>Venezuela, Bolivarian Republic of ^2</td>
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<td>In force: 11 March 1982</td>
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<td>Safeguards agreements</td>
<td>INFCIRC</td>
<td>Additional protocols</td>
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<td>Yemen</td>
<td>X</td>
<td>In force: 14 Aug. 2002</td>
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<td>Amended: 31 Aug. 2011</td>
<td>In force: 26 June 1995</td>
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</table>

**Key**

**Bold** States not party to the Treaty of the Non-Proliferation of Nuclear Weapons (NPT) whose safeguards agreements are of INFCIRC/66-type.

**Italics** States Parties to the NPT that have not yet brought into force comprehensive safeguards agreements (CSAs) pursuant to Article III of the NPT.

* Voluntary offer safeguards agreement with NPT nuclear-weapon States.

X ‘X’ in the ‘small quantities protocols’ column indicates that the State has an operative small quantities protocol (SQP). ‘Amended’ indicates that the operative SQP is based on the revised SQP standardized text.

NB: This table does not aim at listing all safeguards agreements that the Agency has concluded. Not included are agreements under which the application of safeguards has been suspended upon the entry into force of a CSA. Unless otherwise indicated, the safeguards agreements referred to are CSAs concluded pursuant to the NPT.

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a An entry in this column does not imply the expression of any opinion whatsoever on the part of the Agency concerning the legal status of any country or territory or of its authorities, or concerning the delimitation of its frontiers.

b Provided that they meet certain eligibility criteria (including that the quantities of nuclear material do not exceed the limits set out in paragraph 37 of INFCIRC/153(Corrected)), countries have the option to conclude an SQP to their CSAs that holds in abeyance the implementation of most of the detailed provisions set out in Part II of the CSAs as long as eligibility criteria continue to apply. This column contains countries whose CSA with an SQP based on the original standard text has been approved by the Board of Governors and for which, as far as the Secretariat is aware, these eligibility criteria continue to apply. For those States that have accepted the revised standard SQP text (approved by the Board of Governors on 20 September 2005) the current status is reflected.

c The Agency also applies safeguards for Taiwan, China, under two agreements, which entered into force on 13 October 1969 (INFCIRC/133) and 6 December 1971 (INFCIRC/158), respectively.

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1 *Sui generis* comprehensive safeguards agreement. On 28 November 2002, upon approval by the Board of Governors, an exchange of letters entered into force confirming that the safeguards agreement satisfies the requirement of Article III of the NPT.

2 Safeguards agreement is pursuant to both the Treaty of Tlatelolco and the NPT.

3 Date refers to the safeguards agreement concluded between Argentina, Brazil, ABACC and the Agency. On 18 March 1997, upon approval by the Board of Governors, an exchange of letters entered into force between Argentina and the Agency confirming that the safeguards agreement satisfies the requirements of Article 13 of the Treaty of Tlatelolco and Article III of the NPT to conclude a safeguards agreement with the Agency.

4 The application of safeguards for Austria under the NPT bilateral safeguards agreement (INFCIRC/156), in force since 23 July 1972, was suspended on 31 July 1996, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Austria had acceded, entered into force for Austria.

5 Date refers to a safeguards agreement pursuant to Article III of the NPT. Upon approval by the Board of Governors, an exchange of letters entered into force (for Saint Lucia on 12 June 1996 and for Belize, Dominica, Saint Kitts and Nevis and Saint Vincent and the Grenadines on 18 March 1997) confirming that the safeguards agreement satisfies the requirement of Article 13 of the Treaty of Tlatelolco.

6 Date refers to the safeguards agreement concluded between Argentina, Brazil, ABACC and the Agency. On 10 June 1997, upon approval by the Board of Governors, an exchange of letters entered into force between Brazil and the Agency confirming that the safeguards agreement satisfies the requirement of Article 13 of the Treaty of Tlatelolco. On 20 September 1999, upon approval by the Board of Governors, an exchange of letters entered into force confirming that the safeguards agreement also satisfies the requirement of Article III of the NPT.

7 The application of safeguards for Bulgaria under the NPT bilateral safeguards agreement (INFCIRC/178), in force since 29 February 1972, was suspended on 1 May 2009, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Bulgaria had acceded, entered into force for Bulgaria.

8 Date refers to a safeguards agreement pursuant to Article 13 of the Treaty of Tlatelolco. Upon approval by the Board of Governors, an exchange of letters entered into force (for Chile on 9 September 1996; for Colombia on 13 June 2001; for Panama on 20 November 2003) confirming that the safeguards agreement satisfies the requirement of Article III of the NPT.
The application of safeguards for Romania under the NPT bilateral safeguards agreement (INFCIRC/180), in force since 27 January 1973, was suspended on 1 May 2008, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Cyprus had acceded, entered into force for Cyprus.

The application of safeguards for the Czech Republic under the NPT bilateral safeguards agreement (INFCIRC/541), in force since 11 September 1997, was suspended on 1 October 2009, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which the Czech Republic had acceded, entered into force for the Czech Republic.

The application of safeguards for Denmark under the NPT bilateral safeguards agreement (INFCIRC/176), in force since 1 March 1972, was suspended on 21 February 1977, on which date the agreement of 5 April 1973 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, INFCIRC/176 re-entered into force for Greenland. The Additional Protocol for Greenland entered into force on 22 March 2013 (INFCIRC/176/Add.1).

The application of safeguards for Estonia under the NPT bilateral safeguards agreement (INFCIRC/547), in force since 24 November 1997, was suspended on 1 December 2005, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Estonia had acceded, entered into force for Estonia.

The application of safeguards for Finland under the NPT bilateral safeguards agreement (INFCIRC/155), in force since 9 February 1972, was suspended on 1 October 1995, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Finland had acceded, entered into force for Finland.

The safeguards agreement is pursuant to Additional Protocol I to the Treaty of Tlatelolco.

The NPT safeguards agreement of 7 March 1972 concluded with the German Democratic Republic (INFCIRC/181) is no longer in force with effect from 3 October 1990, on which date the German Democratic Republic acceded to the Federal Republic of Germany.

The application of safeguards for Greece under the NPT bilateral safeguards agreement (INFCIRC/166), in force since 1 March 1972, was suspended on 17 December 1981, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Greece had acceded, entered into force for Greece.

The application of safeguards for Hungary under the NPT bilateral safeguards agreement (INFCIRC/174), in force since 30 March 1972, was suspended on 1 July 2007, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Hungary had acceded, entered into force for Hungary.

The application of safeguards for India under the safeguards agreement between the Agency, Canada and India (INFCIRC/211), in force since 30 September 1971, was suspended as of 20 March 2015. The application of safeguards for India under the following safeguards agreements between the Agency and India was suspended as of 30 June 2016: INFCIRC/260, in force since 17 November 1977; INFCIRC/360, in force since 27 September 1988; INFCIRC/374, in force since 11 October 1989; and INFCIRC/433, in force since 1 March 1994. Items subject to safeguards under the aforementioned safeguards agreements are subject to the safeguards agreement between India and the Agency (INFCIRC/754), which entered into force on 11 May 2009.

Pending entry into force, the additional protocol is being applied provisionally for the Islamic Republic of Iran as of 16 January 2016.

The application of safeguards for Latvia under the NPT bilateral safeguards agreement (INFCIRC/434), in force since 21 December 1993, was suspended on 1 October 2008, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Latvia had acceded, entered into force for Latvia.

The application of safeguards for Lithuania under the NPT bilateral safeguards agreement (INFCIRC/413), in force since 15 October 1992, was suspended on 1 January 2008, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Lithuania had acceded, entered into force for Lithuania.

The application of safeguards for Malta under the NPT bilateral safeguards agreement (INFCIRC/387), in force since 13 November 1990, was suspended on 1 July 2007, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Malta had acceded, entered into force for Malta.

The safeguards agreement was concluded pursuant to both the Treaty of Tlatelolco and the NPT. The application of safeguards under an earlier safeguards agreement pursuant to the Treaty of Tlatelolco, which entered into force on 6 September 1968 (INFCIRC/118), was suspended as of 14 September 1973.

Whereas the NPT safeguards agreement and SQP with New Zealand (INFCIRC/185) also apply to Cook Islands and Niue, the additional protocol thereto (INFCIRC/185/Add.1) does not apply to those territories. Amendments to the SQP entered into force only for New Zealand on 24 February 2014 (INFCIRC/185/Mod.1).

The application of safeguards for Poland under the NPT bilateral safeguards agreement (INFCIRC/179), in force since 11 October 1972, was suspended on 1 March 2007, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Poland had acceded, entered into force for Poland.

The application of safeguards for Portugal under the NPT bilateral safeguards agreement (INFCIRC/272), in force since 14 June 1979, was suspended on 1 July 1986, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Portugal had acceded, entered into force for Portugal.

The application of safeguards for Romania under the NPT bilateral safeguards agreement (INFCIRC/180), in force since 27 October 1972, was suspended on 1 May 2010, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Romania had acceded, entered into force for Romania.
28 The NPT safeguards agreement concluded with the Socialist Federal Republic of Yugoslavia (INFCIRC/204), which entered into force on 28 December 1973, continues to be applied for Serbia to the extent relevant to the territory of Serbia.

29 The application of safeguards for Slovakia under the NPT bilateral safeguards agreement with the Czechoslovak Socialist Republic (INFCIRC/173), in force since 3 March 1972, was suspended on 1 December 2005, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Slovakia had acceded, entered into force for Slovakia.

30 The application of safeguards for Slovenia under the NPT bilateral safeguards agreement (INFCIRC/538), in force since 1 August 1997, was suspended on 1 September 2006, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Slovenia had acceded, entered into force for Slovenia.

31 The application of safeguards for Sweden under the NPT bilateral safeguards agreement (INFCIRC/234), in force since 14 April 1975, was suspended on 1 June 1995, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Sweden had acceded, entered into force for Sweden.

32 Date refers to the INFCIRC/66-type safeguards agreement, concluded between the United Kingdom and the Agency, which remains in force.
### Table A7. Participation in multilateral treaties for which the Director General is the depositary, conclusion of Revised Supplementary Agreements and acceptance of amendments to Articles VI and XIV.A of the Agency’s Statute (status as of 31 December 2016)

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* Agency Member State

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S Signatory

r Existing reservation/declaration

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<th>Convention Description</th>
<th>Status and Developments</th>
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<tr>
<td>Agreement on the Privileges and Immunities of the IAEA</td>
<td>In 2016, the status of the Agreement remained unchanged with 84 Parties.</td>
</tr>
<tr>
<td>Convention on Early Notification of a Nuclear Accident</td>
<td>Entered into force on 27 October 1986. In 2016, 1 State became a Party to the Convention. The by-end of the year, there were 120 Parties.</td>
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<tr>
<td>Convention on Assistance in the Case of a Nuclear Accident or Radiological Emergency</td>
<td>Entered into force on 26 February 1987. In 2016, 1 State became a Party to the Convention. The by-end of the year, there were 113 Parties.</td>
</tr>
<tr>
<td>Convention on Nuclear Safety</td>
<td>Entered into force on 24 October 1996. In 2016, the status of the Convention remained unchanged. By the end of the year, there were 78 Parties.</td>
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<tr>
<td>Convention on the Physical Protection of Nuclear Material</td>
<td>Entered into force on 8 February 1987. In 2016, 1 State became a Party to the Convention. The by-end of the year, there were 154 Parties.</td>
</tr>
<tr>
<td>Amendment to the Convention on the Physical Protection of Nuclear Material</td>
<td>Entered into force on 5 May 2016. In 2016, 15 States adhered to the Amendment. The by-end of the year, there were 106 Parties.</td>
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<tr>
<td>Protocol to Amend the Vienna Convention on Civil Liability for Nuclear Damage</td>
<td>Entered into force on 4 October 2003. In 2016, 1 State became a Party to the Protocol. The by-end of the year, there were 13 Parties.</td>
</tr>
<tr>
<td>Convention on Supplementary Compensation for Nuclear Damage</td>
<td>Entered into force on 17 April 2015. In 2016, 2 States became Parties to the Convention. The by-end of the year, there were 9 Parties.</td>
</tr>
<tr>
<td>Revised Supplementary Agreement Concerning the Provision of Technical Assistance by the IAEA (RSA)</td>
<td>In 2016, 7 States concluded an RSA. The by-end of the year, there were 132 States party to an RSA Agreement.</td>
</tr>
<tr>
<td>Fifth Agreement to Extend the 1987 Regional Co-operative Agreement for Research, Development and Training Related to Nuclear Science and Technology (RCA)</td>
<td>Entered into force on 31 August 2011 with effect from 12 June 2012. In 2016, the status remained unchanged with 17 Parties.</td>
</tr>
<tr>
<td>African Regional Co-operative Agreement for Research, Development and Training Related to Nuclear Science and Technology (AFRA) (Fifth Extension)</td>
<td>Entered into force on 4 April 2015. In 2016, 11 States became Parties to the Agreement. The by-end of the year, there were 27 Parties.</td>
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<tr>
<td>Agreement to Extend the Co-operation Agreement for the Promotion of Nuclear Science and Technology in Latin America and the Caribbean (ARCAL)</td>
<td>Entered into force on 5 September 2015. In 2016, 2 States became Parties to the Agreement. The by-end of the year, there were 19 Parties.</td>
</tr>
<tr>
<td>Co-operative Agreement for Arab States in Asia for Research, Development and Training Related to Nuclear Science and Technology (ARASIA) (Second Extension)</td>
<td>Entered into force on 29 July 2014. In 2016, 1 State became a Party to the Agreement. The by-end of the year, there were 9 Parties.</td>
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</table>
### Table A9. Nuclear power reactors in operation and under construction in the world (as of 31 December 2016)\(^a\)

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<th>Country</th>
<th>Reactors in operation</th>
<th>Reactors under construction</th>
<th>Nuclear electricity supplied in 2016</th>
<th>Total operating experience through 2016</th>
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\(^a\) Data are from the Agency’s Power Reactor Information System (PRIS) ([http://www.iaea.org/pris](http://www.iaea.org/pris)).

\(^b\) The total figures include the following data from Taiwan, China: 6 units, 5052 MW(e) in operation; 2 units, 2600 MW(e) under construction; 30.5 TW·h of nuclear electricity generation, representing 13.7% of the total electricity generated.

\(^c\) The total operating experience also includes shutdown plants in Italy (80 years, 8 months), Kazakhstan (25 years, 10 months), Lithuania (43 years, 6 months) and Taiwan, China (212 years, 1 month).
### Table A10. Member State participation in selected Agency activities

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<td>Dosimetry audits for radiotherapy</td>
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<td>Plant irradiation services</td>
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<td>QUADRIL&lt;sup&gt;c&lt;/sup&gt;</td>
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<td>QUATRO&lt;sup&gt;d&lt;/sup&gt;</td>
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<tr>
<td>Zimbabwe</td>
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</table>

<sup>a</sup> ALMERA: Analytical Laboratories for the Measurement of Environmental Radioactivity.

<sup>b</sup> QUANUM: Quality Assurance in Nuclear Medicine.

<sup>c</sup> QUADRIL: Quality Assurance Audit for Diagnostic Radiology Improvement and Learning.

<sup>d</sup> QUATRO: Quality Assurance Team for Radiation Oncology.

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**Table A11. Integrated Nuclear Infrastructure Review (INIR) missions in 2016**

<table>
<thead>
<tr>
<th>Type</th>
<th>Country</th>
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<tbody>
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<td>INIR follow-up</td>
<td>Bangladesh</td>
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<tr>
<td>INIR</td>
<td>Kazakhstan</td>
</tr>
<tr>
<td>INIR</td>
<td>Malaysia</td>
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<tr>
<td>INIR follow-up</td>
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**Table A12. Knowledge Management Assist Visit (KMAV) missions in 2016**

<table>
<thead>
<tr>
<th>Type</th>
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</thead>
<tbody>
<tr>
<td>KMAV</td>
<td>Nuclear Power Production and Development Company (NPPD)</td>
<td>Islamic Republic of Iran</td>
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<tr>
<td>KMAV</td>
<td>Leningrad nuclear power plant</td>
<td>Russian Federation</td>
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<tr>
<td>KMAV</td>
<td>Shanghai Nuclear Engineering Research and Design Institute (SNERDI)</td>
<td>China</td>
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**Table A13. Education and Training Appraisal (EduTA) missions in 2016**

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<td>EduTA</td>
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<td>EduTA</td>
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### Table A14. Emergency Preparedness Review (EPREV) missions in 2016

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<td>EPREV</td>
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<td>EPREV preparatory mission</td>
<td>Indonesia</td>
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### Table A15. Integrated missions of the Agency’s Programme of Action for Cancer Therapy (imPACT) in 2016

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<td>imPACT</td>
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### Table A16. International Physical Protection Advisory Service (IPPAS) missions in 2016

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### Table A17. Integrated Safety Assessment of Research Reactors (INSARR) missions in 2016

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<td>Netherlands</td>
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<td>Portugal</td>
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<td>INSARR follow-up</td>
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Table A18. Safety expert missions for research reactors based on the INSARR methodology in 2016

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<tr>
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Table A19. Integrated Regulatory Review Service (IRRS) missions in 2016

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<td>IRRS</td>
<td>Japan</td>
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<td>IRRS</td>
<td>South Africa</td>
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<td>IRRS follow-up</td>
<td>Bulgaria</td>
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Table A20. Operational Safety Review Team (OSART) missions in 2016

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<td>Romania</td>
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<td>OSART follow-up</td>
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### Table A21. Safety Aspects of Long Term Operation (SALTO) missions in 2016

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### Table A22. Site and External Events Design (SEED) missions in 2016

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### Table A23. Technical Safety Reviews (TSRs) in 2016

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<td>Generic reactor safety</td>
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<td>Probabilistic safety assessment</td>
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### Table A24. Advisory missions in 2016

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<tr>
<td>Regulatory infrastructure for the control of radioactive sources</td>
<td>Antigua and Barbuda, Cambodia, Ecuador, El Salvador, Liberia, Madagascar, Morocco, Qatar and Sri Lanka</td>
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<tr>
<td>Operational Safety Performance Experience Review (PROSPER)</td>
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<tr>
<td>Expert mission to provide recommendations for safe conversion of a research reactor to use low enriched uranium fuel</td>
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### Table A25. Occupational Radiation Protection Appraisal Service (ORPAS) missions in 2016

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### Table A26. IAEA-designated International Centres based on Research Reactor

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