

# Iran's Nuclear Program: Tehran's Compliance with International Obligations

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**Paul K. Kerr**  
Specialist in  
Nonproliferation

## Iran's Nuclear Program: Tehran's Compliance with International Obligations

Several UN Security Council resolutions adopted between 2006 and 2010 required Iran to cooperate fully with the International Atomic Energy Agency's (IAEA's) investigation of its nuclear activities, suspend its uranium enrichment program, suspend its construction of a heavy-water reactor and related projects, and ratify the Additional Protocol to its IAEA safeguards agreement. Iran did not comply with most of the resolutions' provisions. However, Tehran implemented various restrictions on, and provided the IAEA with additional information about, the government's nuclear program pursuant to the July 2015 Joint Comprehensive Plan of Action (JCPOA), which Tehran concluded with China, France, Germany, Russia, the United Kingdom, and the United States. On the JCPOA's Implementation Day, which took place on January 16, 2016, all of the previous resolutions' requirements were terminated. The nuclear Nonproliferation Treaty (NPT) and UN Security Council Resolution 2231, which the Council adopted on July 20, 2015, comprise the current legal framework governing Iran's nuclear program. The United States attempted in 2020 to reimpose sanctions on Iran via a mechanism provided for in Resolution 2231. However, the Security Council did not do so.

Iran and the IAEA agreed in August 2007 on a work plan to clarify outstanding questions regarding Tehran's nuclear program. The IAEA had essentially resolved most of these issues, but for several years the agency still had questions concerning "possible military dimensions to Iran's nuclear programme." A December 2, 2015, report to the IAEA Board of Governors from then-agency Director General Yukiya Amano contains the IAEA's "final assessment on the resolution" of the outstanding issues. Beginning in June 2020, the IAEA Board of Governors adopted a series of resolutions calling on Iran to satisfy more recent agency requests concerning possible undeclared nuclear activities in Iran. But these resolutions do not contain any formal findings of noncompliance.

This report provides a brief overview of Iran's nuclear program and describes the legal basis for the actions taken by the IAEA board and the Security Council. It will be updated as events warrant.

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## Introduction

Iran ratified the nuclear Nonproliferation Treaty (NPT) in 1970. Article III of the treaty requires nonnuclear-weapon states-parties<sup>1</sup> to accept comprehensive International Atomic Energy Agency (IAEA) safeguards; Tehran concluded a comprehensive safeguards agreement with the IAEA in 1974.<sup>2</sup> In 2002, the agency began investigating allegations that Iran had conducted clandestine nuclear activities; the IAEA ultimately reported that some of these activities had violated Tehran's safeguards agreement. Following more than three years of investigation, the IAEA Board of Governors reported the matter to the UN Security Council in February 2006. The council subsequently adopted six resolutions requiring Iran to take steps to alleviate international concerns about its nuclear program. This report provides a brief overview of Iran's nuclear program and describes the legal basis for the actions taken by the IAEA board and the Security Council.

For more detailed information about Iran's nuclear program, see CRS Report RL34544, *Iran's Nuclear Program: Status*, by Paul K. Kerr. For more information about the July 2015 Joint Comprehensive Plan of Action (JCPOA) concerning Iran's nuclear program, see CRS Report R43333, *Iran Nuclear Agreement and U.S. Exit*, by Paul K. Kerr and Kenneth Katzman.

## Background

Iran's nuclear program has generated widespread concern that Tehran is pursuing nuclear weapons. Tehran's construction of gas centrifuge uranium enrichment facilities has been the main source of proliferation concern. Gas centrifuges enrich uranium by spinning uranium hexafluoride gas at high speeds to increase the concentration of the uranium-235 isotope. Such centrifuges can produce both low-enriched uranium (LEU), which can be used in nuclear power reactors, and highly enriched uranium (HEU), which is one of the two types of fissile material used in nuclear weapons. Individual centrifuges are linked together in cascades for producing enriched uranium in quantity. HEU can also be used as fuel in certain types of nuclear reactors. Iran also has a uranium conversion facility, which converts uranium ore concentrate into several chemical compounds, including uranium hexafluoride. Tehran's stated goal is to produce LEU for the government's current and future power reactors. Iran is producing enriched uranium in commercial and pilot enrichment facilities at Natanz, as well as Iran's Fordow enrichment facility.

Iran's construction of a reactor moderated by heavy water has also been a source of concern. Although Tehran says that the reactor, which Iran is building at Arak, is intended for the production of medical isotopes, the reactor was a proliferation concern because the reactor's spent fuel would have contained plutonium well-suited for use in nuclear weapons. In order to be used in nuclear weapons, however, plutonium must be separated from the spent fuel—a procedure called “reprocessing.” Iran has repeatedly stated its intention to refrain from reprocessing. Pursuant to the Joint Comprehensive Plan of Action (JCPOA), which Iran concluded in July 2015 with China, France, Germany, Russia, the United Kingdom, and the United States (collectively known as the “P5+1”), Tehran has rendered the Arak reactor's original core inoperable and has

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<sup>1</sup> The NPT defines a nuclear-weapon state as “one which has manufactured and exploded a nuclear weapon or other nuclear explosive device” prior to January 1, 1967. These states are China, France, Russia, the United Kingdom, and the United States. Article II of the NPT requires all other states-parties to refrain from producing or otherwise obtaining nuclear weapons.

<sup>2</sup> *The Text of the Agreement Between Iran and the Agency for The Application of Safeguards in Connection with the Treaty on The Non-proliferation of Nuclear Weapons*, INFCIRC/214, December 13, 1974.

also begun to fulfill a JCPOA requirement to redesign and rebuild the Arak reactor based on a P5+1-agreed design; this design is meant to prevent Iran from using the reactor to produce weapons-grade plutonium. The agreement also requires Iran to export the spent fuel from this reactor and all other nuclear reactors.

Iran and the IAEA agreed in August 2007 on a work plan to clarify the outstanding questions regarding Tehran's nuclear program.<sup>3</sup> Iran and the agency subsequently resolved most of these questions, which had contributed to suspicions that Iran had been pursuing a nuclear weapons program.<sup>4</sup> Then-IAEA Director General Mohamed ElBaradei, however, told the IAEA board June 2, 2008, that there was "one remaining major [unresolved] issue," which concerns questions regarding "possible military dimensions to Iran's nuclear programme."<sup>5</sup> The IAEA agency did not make any substantive progress on these matters for some time (see below).

Tehran has disputed the authenticity of some of the evidence underlying the agency's concerns and maintains that Iran has not conducted any work on nuclear weapons.<sup>6</sup> Iran also expressed concern to the IAEA that resolving some of these issues would require agency inspectors to have "access to sensitive information related to its conventional military and missile related activities."<sup>7</sup> The IAEA, according to a September 2008 report from ElBaradei, stated its willingness to discuss with Iran

modalities that could enable Iran to demonstrate credibly that the activities referred to in the documentation are not nuclear related, as Iran asserts, while protecting sensitive information related to its conventional military activities.<sup>8</sup>

Indeed, the agency made several specific proposals, but Tehran did not provide the requested information.<sup>9</sup>

The IAEA Board of Governors adopted a resolution on November 18, 2011, stating that "it is essential" for Iran and the IAEA "to intensify their dialogue aiming at the urgent resolution of all outstanding substantive issues." IAEA and Iranian officials met 10 times between January 2012 and May 2013 to discuss what the agency termed a "structured approach to the clarification of all outstanding issues related to Iran's nuclear programme."<sup>10</sup> During an October 2013 meeting, IAEA officials and their Iranian counterparts decided to adopt a "new approach" to resolving

<sup>3</sup> The text is available at <https://www.iaea.org/sites/default/files/publications/documents/infircs/2007/infirc711.pdf>.

<sup>4</sup> Atomic Energy Organization of Iran President Ali Akbar Salehi explained in a 2009 interview that Tehran "decided to solve these problems within the context of our [safeguards] commitments and not accept anything beyond our legal obligations," adding that there had previously been "debates about the decreasing of the level of our cooperation" with the IAEA. ("Interview: Dr. Salehi on Iran's Nuclear Program," published in *Discourse: An Iranian Quarterly*, Vol. 9, Nos. 1-2, Fall 2009-Winter 2010, p. 1.

<sup>5</sup> *Introductory Statement to the Board of Governors*, IAEA Director General Dr. Mohamed ElBaradei, June 2, 2008.

<sup>6</sup> See, for example, *Communication Dated 7 January 2016 Received from the Permanent Mission of the Islamic Republic of Iran to the Agency Regarding the Report of the Director General on the Final Assessment on Past and Present Outstanding Issues Regarding Iran's Nuclear Programme*, INFCIRC/893, January 8, 2016.

<sup>7</sup> *Implementation of the NPT Safeguards Agreement and Relevant Provisions of Security Council Resolutions 1737 (2006), 1747 (2007), 1803 (2008) and 1835 (2008) in the Islamic Republic of Iran*, Report by the Director General, GOV/2008/38, September 15, 2008.

<sup>8</sup> GOV/2008/38.

<sup>9</sup> See, for example, *Implementation of the NPT Safeguards Agreement and Relevant Provisions of Security Council Resolutions in the Islamic Republic of Iran*, Report by the Director General, GOV/2012/23, May 25, 2012.

<sup>10</sup> A September 2012 IAEA Board of Governors resolution reiterated the board's support for the Agency's negotiations with Tehran, and stated that "Iranian cooperation with IAEA requests aimed at the resolution of all outstanding issues is essential and urgent in order to restore international confidence in the exclusively peaceful nature of Iran's nuclear programme." (*Implementation of the NPT Safeguards Agreement and Relevant Provisions of United Nations Security Council Resolutions in the Islamic Republic of Iran*, GOV/2012/50, September 13, 2012).

these issues. Iran signed a joint statement with the IAEA on November 11, 2013, describing a “Framework for Cooperation.” According to the statement, Iran and the IAEA agreed to “strengthen their cooperation and dialogue aimed at ensuring the exclusively peaceful nature of Iran’s nuclear programme through the resolution of all outstanding issues that have not already been resolved by the IAEA.” Iran subsequently provided the agency with information about several of the outstanding issues.

The government later agreed in May 2014 to provide information to the IAEA by August 25, 2014, about five additional issues, including alleged Iranian research on high explosives and “studies made and/or papers published in Iran in relation to neutron transport and associated modelling and calculations and their alleged application to compressed materials.” Iran subsequently provided information about four of these issues.<sup>11</sup>

Pursuant to the July 2015 JCPOA, Iran completed a series of steps set out in an Iran-IAEA “Roadmap for Clarification of Past and Present Outstanding Issues.” According to then-IAEA Director General Yukiya Amano, this road map set out “a process” under a November 24, 2013, Joint Plan of Action between Iran and the P5+1, “to enable the Agency, with the cooperation of Iran, to make an assessment of issues relating to possible military dimensions to Iran’s nuclear programme.”<sup>12</sup> According to a December 2, 2015, report from Amano to the IAEA Board of Governors, “[a]ll the activities contained in the road-map were implemented in accordance with the agreed schedule.”<sup>13</sup> The road map required Amano to present this report, which contains the agency’s “final assessment on the resolution” of the aforementioned outstanding issues.

In response, the board adopted a resolution on December 15, 2015, noting Iran’s cooperation with the road map and stating “that this closes the Board’s consideration” of the “outstanding issues regarding Iran’s nuclear programme.”<sup>14</sup> The IAEA has verified that Iran has taken the steps required for Implementation Day to take effect and the board is no longer focused on Iran’s compliance with either past Security Council resolutions or the government’s IAEA safeguards agreement. Instead, the board is focused on monitoring and verifying Iran’s JCPOA implementation “in light of” United Nations Security Council Resolution 2231, which the Council adopted on July 20, 2015. This latter resolution requests the IAEA Director General “to undertake the necessary verification and monitoring of Iran’s nuclear-related commitments for the full duration of those commitments under the JCPOA.”

The December 2015 IAEA resolution requests the Director General to issue quarterly reports to the board regarding Iran’s “implementation of its relevant commitments under the JCPOA for the

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<sup>11</sup> *Implementation of the NPT Safeguards Agreement and Relevant Provisions of Security Council Resolutions in the Islamic Republic of Iran*, Report by the Director General, GOV/2015/34, May 29, 2015.

<sup>12</sup> “IAEA Director General’s Statement and Road-map for the Clarification of Past and Present Outstanding Issues Regarding Iran’s Nuclear Programme,” July 14, 2015; “IAEA, Iran Sign Joint Statement on Framework for Cooperation,” November 11, 2013. For more information about the Joint Plan of Action and the JCPOA, see CRS Report R43333, *Iran Nuclear Agreement and U.S. Exit*, by Paul K. Kerr and Kenneth Katzman.

<sup>13</sup> *Final Assessment on Past and Present Outstanding Issues Regarding Iran’s Nuclear Programme*, GOV/2015/68, December 2, 2015.

<sup>14</sup> *Joint Comprehensive Plan of Action Implementation and Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, GOV/2015/72, December 15, 2015. An August 2019 State Department report notes that this resolution

does not preclude the IAEA from investigating any information that is new or inconsistent with its previous assessment of Iran’s past nuclear weapons program, or where it has concerns regarding the potential existence of undeclared nuclear materials or activities.

(*Adherence to and Compliance with Arms Control, Nonproliferation, and Disarmament Agreements and Commitments*, 2019).

full duration of those commitments.” The Director General is also to report to the Board of Governors and the Security Council “at any time if the Director General has reasonable grounds to believe there is an issue of concern” regarding Tehran’s compliance with its JCPOA or safeguards obligations. The JCPOA and Resolution 2231 also contain a variety of reporting provisions for the IAEA. For example, the resolution requests the agency’s Director General

to provide regular updates to the IAEA Board of Governors and, as appropriate, in parallel to the Security Council on Iran’s implementation of its commitments under the JCPOA and also to report to the IAEA Board of Governors and in parallel to the Security Council at any time if the Director General has reasonable grounds to believe there is an issue of concern directly affecting fulfilment of JCPOA commitments.

## The Joint Comprehensive Plan of Action

Pursuant to the JCPOA, Tehran applied additional restrictions on its uranium enrichment program and heavy-water reactor program. Tehran also began implementing the additional protocol to the government’s comprehensive safeguards agreement, as well as the modified Code 3.1 of the subsidiary arrangements for that agreement. On the JCPOA’s Implementation Day, which took place on January 16, 2016, all of the previous Security Council resolutions’ requirements were terminated pursuant to UN Security Council Resolution 2231, which, along with the NPT, composes the current legal framework governing Iran’s nuclear program.<sup>15</sup> The IAEA reports findings of its inspection and monitoring activities; the JCPOA-established Joint Commission monitors the parties’ implementation of the agreement. However, compliance determinations are national decisions. Until July 2019, all official reports and statements from the United Nations, European Union, the IAEA, and the non-U.S. participating governments indicated that Iran had fulfilled its JCPOA and related Resolution 2231 requirements.<sup>16</sup>

Beginning in July 2019, the IAEA verified that some of Iran’s nuclear activities were exceeding JCPOA-mandated limits; Iran has since increased the number of activities that violate JCOPA restrictions (see **Appendix A**). According to IAEA reports, Iran’s number of installed centrifuges, enriched uranium stockpile, enriched uranium u-235 concentration, and number of enrichment

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<sup>15</sup> “Joint Statement by EU High Representative Federica Mogherini and Iranian Foreign Minister Javad Zarif,” January 16, 2016. For a list of IAEA reports concerning Iran’s JCPOA implementation, see **Appendix D**.

<sup>16</sup> Iran’s stock of heavy water exceeded the JCPOA-required limit of 130 metric tons on two occasions since the P5+1 began implementing the agreement. “In both instances, this issue was resolved after Iran shipped out sufficient amounts of material to get back under the limit,” the State Department reported in April 2017 (*Adherence to and Compliance with Arms Control, Nonproliferation, and Disarmament Agreements and Commitments*, Department of State, April 2017). For more information, see CRS Report R43333, *Iran Nuclear Agreement and U.S. Exit* and CRS Report RL34544, *Iran’s Nuclear Program: Status*, by Paul K. Kerr. Beginning in November 2019, IAEA reports have noted that Iran has on several occasions exceeded the JCPOA-required limit. Tehran since February 23, 2021, has not allowed the IAEA to monitor or verify Iran’s heavy water production.

According to a May 31, 2019, report from then-IAEA Director General Amano, Iran had conducted research and development using advanced centrifuges; the number of these centrifuges may have exceeded the number permitted by the JCPOA (*Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, International Atomic Energy Agency, GOV/2019/21, May 31, 2019; *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/2019/32, August 30, 2019. In a June 11, 2019, speech to the IAEA Board of Governors, then-U.S. Ambassador Jackie Wolcott stated that this activity has violated the JCPOA. However, no JCPOA participating government appears to have issued a similar public finding. Moreover, EU High Representative Mogherini stated during a June 17, 2019, press conference that “Iran is still compliant” with the JCPOA (Remarks by High Representative/Vice-President Federica Mogherini at the press conference following the Foreign Affairs Council, June 17, 2019).



locations exceed JCPOA-mandated limits. Tehran is also conducting JCPOA-prohibited research and development (R&D) activities, as well as centrifuge installation.

In a May 8, 2019, speech, Iranian President Hassan Rouhani cited JCPOA Paragraph 26 as grounds for reducing Iran's performance of some Iranian commitments pursuant to the agreement.<sup>17</sup> According to that paragraph,

Iran has stated that it will treat such a re-introduction or re-imposition of the sanctions specified in Annex II, or such an imposition of new nuclear-related sanctions, as grounds to cease performing its commitments under this JCPOA in whole or in part.

Iran has also cited JCPOA Paragraph 36 as grounds for ending all JCPOA-mandated transparency measures beyond the government's comprehensive safeguards agreement.<sup>18</sup> Paragraph 36 states that "[i]f Iran believed that any or all of the E3/EU+3 were not meeting their commitments under this JCPOA, Iran could refer the issue to the Joint Commission for resolution." Iran could treat a commission failure to resolve the issue as "grounds to cease performing its commitments under this JCPOA in whole or in part."

However, the foreign ministers of France, Germany, and the United Kingdom, collectively known as the "E3," stated on January 14, 2020, that "Iran is not meeting its [JCPOA] commitments" and announced that the three governments were referring the matter to the JCPOA dispute resolution mechanism (DRM).<sup>19</sup> A January 14, 2020, E3 letter to EU High Representative for Foreign Affairs and Security Policy Josep Borrell, who oversees the mechanism's process, referred "a matter concerning the implementation of Iran's [JCPOA] commitments ... to the Joint Commission for resolution through" the DRM.<sup>20</sup> There is no public evidence that any government has taken action under the mechanism.

A September 13, 2023, E3 statement explains that, since invoking the DRM, the governments have "strived in good faith to resolve the issues arising from Iran's non-compliance" both via the DRM and "beyond."<sup>21</sup> The E3 "will continue consultations, alongside international partners, on how best to address increasing doubts about the peaceful nature of Iran's nuclear programme," the statement adds.<sup>22</sup> A December 6, 2024, E3 letter to the UN Security Council similarly notes that those governments have "striven in good faith to resolve the issues arising from Iran's non-compliance through" the DRM and reiterates the E3's "determination to use all diplomatic tools to prevent Iran from acquiring a nuclear weapon, including using snapback if necessary."<sup>23</sup>

On July 3, 2020, EU High Representative Borrell received a letter from Iran's Foreign Minister similarly referring Iran's concerns regarding the E3's JCPOA implementation issues to the joint

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<sup>17</sup> See also *Communication Dated 29 January 2021 from the Permanent Mission of the Islamic Republic of Iran to the Agency*, INFCIRC/953, February 2, 2021.

<sup>18</sup> *Communication Dated from the Permanent Mission of the Islamic Republic of Iran to the Agency*, INFCIRC/1131, September 14, 2023; *Letter dated 2 December 2024 from the Permanent Representative of the Islamic Republic of Iran to the United Nations Addressed to the Secretary-General*, S/2024/874.

<sup>19</sup> "Statement by the Foreign Ministers," January 14, 2020.

<sup>20</sup> "Statement by High Representative Borrell as Coordinator of the Joint Commission of the Joint Comprehensive Plan of Action on the Dispute Resolution Mechanism," January 14, 2020.

<sup>21</sup> "E3 Statement at IAEA Board of Governors on the JCPOA - September 2023," September 13, 2023.

<sup>22</sup> "E3 Statement on Iran to the IAEA Board of Governors," November 19, 2020.

<sup>23</sup> *Letter Dated 6 December 2024 from the Permanent Representatives of France, Germany and the United Kingdom of Great Britain and Northern Ireland to the United Nations Addressed to the Secretary-General and the President of the Security Council*, S/2024/886.



commission.<sup>24</sup> But an E3 November 2020 statement explains that those governments “do not accept the argument that Iran is entitled to reduce compliance” with the JCPOA. “Iran has never triggered” the DRM, according to the statement, which adds that Tehran “has no legal grounds to cease implementing” the JCPOA provisions.<sup>25</sup> Nevertheless, according to the U.S. government, “under the terms of the JCPOA, Iran may cease performing commitments in whole or in part following the U.S. re-imposition of sanctions.”<sup>26</sup>

A February 2021 report from IAEA Director General Rafael Grossi states that the IAEA had continued verification and monitoring of the restrictions which apply to certain nuclear weapons-related activities and are described in Section T of the JCPOA.<sup>27</sup> A February 26, 2025, report from Grossi, however, states that the agency has not been able to undertake these verification and monitoring activities since his February 2021 report.<sup>28</sup>

The IAEA continues to monitor Iran’s compliance with the government’s obligations pursuant to Tehran’s comprehensive safeguards agreement. IAEA reports have not explicitly mentioned any agency requests for JCPOA-related access to any Iranian military facilities. But the IAEA has methods other than inspections, such as analyzing open-source information and receiving intelligence briefings from governments, to monitor Iranian compliance with these and other JCPOA commitments.

According to Grossi’s November 2020 report, the IAEA had “not observed any change in the level of cooperation by Iran in relation to Agency verification and monitoring activities under the JCPOA.”<sup>29</sup> However, Iran informed the IAEA in a February 15, 2021, letter that the government, as of February 23, would stop implementing some of the JCPOA “voluntary transparency measures” described above, including implementation of the Additional Protocol.<sup>30</sup> On February 21, 2021, Iran and the IAEA “reached a temporary bilateral technical understanding ... whereby the Agency would continue with its necessary verification and monitoring activities for up to three months, as set out in a technical annex.”<sup>31</sup> During a press conference that day, Grossi explained that this arrangement was “not a replacement for what we used to have” under the Additional Protocol but “is a temporary solution that allows us to continue to give the world assurances of what is going on there in the hope that we can return to a fuller picture”<sup>32</sup>

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<sup>24</sup> “JCPOA: Statement by the High Representative Josep Borrell as Coordinator of the Joint Commission of the Joint Comprehensive Plan of Action on the Dispute Resolution Mechanism,” July 3, 2020.

<sup>25</sup> “E3 Statement on Iran to the IAEA Board of Governors,” November 19, 2020.

<sup>26</sup> Email from State Department official, July 17, 2019. A State Department official reiterated this position in a January 31, 2020, interview with a CRS analyst.

<sup>27</sup> *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/2021/10, February 23, 2021.

<sup>28</sup> *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, International Atomic Energy Agency, GOV/2025/8, February 26, 2025.

<sup>29</sup> *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/2020/51, November 11, 2020.

<sup>30</sup> GOV/2021/10. The letter names the following measures: provisions of Iran’s Additional Protocol; modified Code 3.1 of the subsidiary arrangements to Iran’s safeguards agreement; IAEA use of modern safeguards technologies in Iran; the long term in-country presence of IAEA inspectors; transparency measures concerning Iranian uranium enrichment, uranium ore concentrate production, and centrifuge component manufacturing; unspecified IAEA access “pursuant to provisions of the JCPOA”; and unspecified monitoring and verification of Tehran’s implementation of JCPOA-mandated “voluntary measures.”

<sup>31</sup> GOV/2021/10.

<sup>32</sup> “Press Conference with IAEA DG Rafael Grossi,” YouTube video, 6:13, posted by Sputnik, February 21, 2021, <https://www.youtube.com/watch?v=NsDUXCQNVAU>.

According to a subsequent report from Grossi, this agreement was meant “to enable the Agency to recover and re-establish the necessary continuity of knowledge.”<sup>33</sup>

Iran agreed to continue implementing its comprehensive safeguards agreement “without limitation.”<sup>34</sup> According to a December 1, 2021, letter to the IAEA, Iran has not scaled back monitoring and inspections related to Tehran’s comprehensive safeguards agreement; the IAEA did not contradict Iran’s claims.<sup>35</sup> Iran’s then-Ambassador to the United Nations, Majid Takht Ravanchi, asserted in a June 30, 2022, statement to the UN Security Council that “as soon as other [JCPOA] parties fulfill all of their obligations in a complete, effective, and verifiable manner, Tehran will immediately reverse all of its steps” that violate the agreement.<sup>36</sup> Iranian officials subsequently expressed the government’s willingness to resume implementing all of the government’s JCPOA obligations.<sup>37</sup>

The IAEA and Iran announced on May 24, 2021, that the parties agreed to extend the above-described arrangement until June 24, 2021.<sup>38</sup> A May 30, 2022, report from Grossi expresses the agency’s

understanding that surveillance data from all Agency cameras installed for activities in relation to the JCPOA, as well as its on-line enrichment monitors, electronic seals or installed measurement devices, will continue to be stored and made available to the Agency if and when Iran resumes implementation

of Tehran’s JCPOA commitments.<sup>39</sup> However, Iran is no longer recording most such data (see below).

In late August 2021, the agency requested that Iran provide access to “all relevant locations” in Iran “in order to service the equipment and replace the storage media.”<sup>40</sup> The IAEA also requested that Tehran permit agency inspectors to “verify the status” of four surveillance cameras that Iran

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<sup>33</sup> *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/2021/28, May 31, 2021.

<sup>34</sup> GOV/2021/10.

<sup>35</sup> *Communication Dated 1 December 2021 From the Permanent Mission of the Islamic Republic of Iran to the Agency*, INFCIRC/967, December 3, 2021. A March 2022 Iran statement to the IAEA Board of Governors reiterated this commitment (“IAEA Envoy: Iran to Continue Fulfillment of Undertakings Based on CSA,” *Fars News Agency*, March 10, 2022). Similarly, Mohammad Ghorbanpour, Representative of the Islamic Republic of Iran to the United Nations, told the UN General Assembly in October 2023 that “Iran remains fully committed to the implementation of its Comprehensive Safeguard Agreement with the IAEA.” (Statement by Mr. Mohammad Ghorbanpour, Representative of the Islamic Republic of Iran, Before the First Committee of the United Nations General Assembly, October 6, 2023).

<sup>36</sup> Statement by H.E. Mr. Majid Takht Ravanchi, then-Ambassador and Permanent Representative of the Islamic Republic of Iran, to the United Nations Before the United Nations Security Council on “non-proliferation: Implementation of Security Council Resolution 2231 (2015),” June 30, 2022. Atomic Energy Organization of Iran Spokesperson Behrouz Kamalvandi made a similar statement on September 8, 2022 (“Iran Rejects IAEA’s Politically-Motivated Report, Says Peaceful N. Program Fully Transparent,” *Fars News Agency*, September 8, 2022).

<sup>37</sup> “Interview with Iranian President Ebrahim Raisi,” *CNN: Fareed Zakaria GPS*, September 24, 2023; “Iran FM Says Return of All to JCPOA ‘Not so out of Reach,’” *BBC Monitoring Newsfile* citing *Iranian Students’ News Agency*, September 23, 2023; “Iran Says It Is Committed to Resolving Nuclear Dispute Through Diplomacy,” *Reuters*, August 14, 2023; “Iran Rejects Western Pressure Tactic, Calls on the IAEA to Be Impartial,” *Islamic Republic News Agency*, March 5, 2025.

<sup>38</sup> “IAEA Director General Says Agreement Reached on Verification and Monitoring in Iran,” May 24, 2021; “Iran Extends Agreement with IAEA for One More Month,” *Islamic Republic News Agency*, May 24, 2021; “Envoy Confirms Iran Nuclear Chief’s Letter to IAEA,” *Islamic Republic News Agency*, June 1, 2021.

<sup>39</sup> *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/2022/24, May 30, 2022.

<sup>40</sup> *Ibid.*

had removed from its TESA Karaj complex centrifuge component manufacturing workshop.<sup>41</sup> Iranian officials have explained that the government removed the cameras following a June 23, 2021, “terrorist attack in which ... the agency’s equipment was destroyed and damaged.”<sup>42</sup> Director General Grossi later explained that, as a result of this incident, “some of our equipment was affected,” adding that “we need to restore our monitoring capacities there.”<sup>43</sup> The IAEA and Iran reached an agreement on September 12, 2021, that, according to an IAEA-Iran joint statement, permits agency inspectors to “service the identified equipment and replace their storage media.”<sup>44</sup>

Iran did not fully comply with this agreement, according to the IAEA. Iran permitted agency inspectors from September 20-22, 2021, to “service the identified Agency monitoring and surveillance equipment and to replace storage media, at all necessary locations in Iran,” according to a November 17, 2021, report from Grossi, which adds that Iran denied the inspectors access to the Karaj workshop.<sup>45</sup> Then-Iranian Ambassador Kazem Gharibabadi asserted in a September 27, 2021, statement that

[d]uring the discussions in Tehran as well as in Vienna, it was clearly indicated that since that Tessa Karaj Complex is still under security and judicial investigations, the equipment related to this Complex are not included for servicing.<sup>46</sup>

Grossi’s November 17, 2021, report contradicts Gharibabadi’s claim, explaining that the September agreement “did not in any way exclude certain locations and equipment.”<sup>47</sup> The IAEA installed replacement cameras in the Karaj workshop before the “end of December 2021,” pursuant to a subsequent bilateral agreement with Iran.<sup>48</sup> The next month, the IAEA removed the cameras from this workshop and installed cameras in another facility that is performing the work previously conducted at the Karaj workshop.<sup>49</sup>

The IAEA’s ability to monitor Iran’s implementation of the government’s JCPOA commitments has diminished since February 23, 2021. In response to an Iranian request following a June 8, 2022, IAEA Board of Governors resolution concerning outstanding issues related to Tehran’s comprehensive IAEA safeguards agreement, the agency removed “all of its equipment previously installed in Iran for surveillance and monitoring under the JCPOA.”<sup>50</sup> Currently, the only such recorded surveillance and monitoring data is that recorded by cameras that the IAEA installed to

<sup>41</sup> *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/2021/39, September 7, 2021.

<sup>42</sup> GOV/2021/39; “Iran Urges JCPOA Parties to Prove Their Genuine Intention to Full Implementation of Commitments,” November 26, 2021. Available at <https://irangov.ir/detail/374677>.

<sup>43</sup> Stephanie Cooke, “Interview: IAEA’s Grossi on Aukus, Iran and COP26,” *Energy Intelligence*, October 8, 2021.

<sup>44</sup> “Joint Statement by the Vice-President and the Head of Atomic Energy Organization of the Islamic Republic of Iran and the Director General of the International Atomic Energy Agency,” September 12, 2021.

<sup>45</sup> *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/2021/51, November 17, 2021.

<sup>46</sup> “Ambassador Gharibabadi’s Comments on the IAEA DG Sep 26 Report on Cameras,” September 27, 2021.

<sup>47</sup> GOV/2021/51.

<sup>48</sup> *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/2022/4, March 3, 2022; “IAEA and Iran Reach Agreement on Replacing Surveillance Cameras at Karaj Facility,” December 15, 2021.

<sup>49</sup> GOV/2022/24.

<sup>50</sup> *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/2022/39, September 7, 2022.

monitor workshops where Iran manufactures centrifuge components.<sup>51</sup> Mohammad Eslami, Head of the Atomic Energy Organization of Iran (AEOI), stated on July 25, 2022, that Tehran will keep the other cameras “switched off until the nuclear deal is fully restored.”<sup>52</sup>

According to a March 4, 2023, IAEA-AEOI joint statement, Iran agreed to allow IAEA implementation of “further appropriate verification and monitoring activities.”<sup>53</sup> Grossi told reporters during a press conference the same day that these “activities” are the JCPOA-specific monitoring and measurement measures that Iran suspended in February 2021.<sup>54</sup>

The IAEA and Iran have made limited progress in implementing the March 2023 joint statement.<sup>55</sup>

- the IAEA has installed additional monitoring devices in Iran’s Fordow and pilot enrichment facilities “in order to monitor the enrichment level” of the HEU produced in those facilities;
- the IAEA has resolved questions concerning the presence of HEU particles in the Fordow facility containing up to 83.7% u-235;<sup>56</sup>
- the IAEA has resolved questions concerning the presence of nuclear material at one of three locations under IAEA investigation; and
- as noted, the IAEA installed surveillance cameras in workshops where Iran manufactures centrifuge components.

In a November 23, 2023, statement to the IAEA Board of Governors, Grossi explained that implementation of the joint statement had “come to a standstill”—an assessment supported by another February 26, 2024, report from Grossi.<sup>57</sup> An Iranian letter to the IAEA dated the same day attributes the lack of progress to the agency’s “continued unwillingness” to discuss modalities for implementing the statement’s provisions.<sup>58</sup> Grossi stated on March 3, 2025, that “[t]here has been no significant progress towards implementing” the March 2023 Joint Statement.<sup>59</sup>

Echoing his previous reports, a February 26, 2025, report from Grossi states that the IAEA’s “JCPOA-related verification and monitoring has been seriously affected by” Tehran’s reduced compliance.<sup>60</sup> The IAEA would face a complex verification task, should Iran and the P5+1 resume full JCPOA implementation. The agency “would not be able to re-establish continuity of knowledge in relation to the production and inventory” of items subject to JCPOA restrictions,”

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<sup>51</sup> *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, International Atomic Energy Agency, GOV/2023/43, September 4, 2023. The IAEA installed the cameras in May 2023.

<sup>52</sup> “AEOI Chief: Iran Not to Turn on Beyond-Safeguards Cameras Before JCPOA Revival,” *Fars News Agency*, July 25, 2022.

<sup>53</sup> “Joint Statement by the Atomic Energy Organization of Iran (AEOI) and the International Atomic Energy Agency (IAEA),” March 4, 2023.

<sup>54</sup> “Press Conference with IAEA Director General Rafael Grossi,” YouTube video, posted by IAEA Video, March 4, 2023, <https://www.youtube.com/watch?v=wLrCp0XCluA&t=29s>.

<sup>55</sup> GOV/2023/43.

<sup>56</sup> See **Appendix A**.

<sup>57</sup> “IAEA Director General’s Introductory Statement to the Board of Governors,” November 22, 2023; *NPT Safeguards Agreement with the Islamic Republic of Iran*, Report by the Director General, GOV/2024/8, February 26, 2024.

<sup>58</sup> Communication from the Permanent Mission of the Islamic Republic of Iran to the Agency, INFCIRC/1159, November 23, 2023.

<sup>59</sup> “IAEA Director General’s Introductory Statement to the Board of Governors,” March 3, 2025.

<sup>60</sup> GOV/2025/8.

according to a September 2023 report from Grossi, which adds that the IAEA “would need to establish a new baseline in relation to” such items.<sup>61</sup> Establishing this baseline “would pose major challenges, including the difficulty in confirming the accuracy of any revised declarations by Iran for the period when no verification and monitoring equipment had been in operation.”<sup>62</sup>

Developing “specific arrangements with Iran would be indispensable” to address IAEA knowledge gaps and “minimize the margin of error,” a November 15, 2023, report from Grossi states.<sup>63</sup>

“As a result of” Tehran’s reduced JCPOA compliance, the IAEA “has lost continuity of knowledge in relation to the production and inventory of centrifuges,” related components, heavy water, and uranium ore concentrate, according to Grossi’s February 26, 2024, report.<sup>64</sup> This same language appears in Grossi’s November 19, 2024, report, and adds that the agency “will not be able to restore” this lost continuity of knowledge “as a result of not having been able to perform JCPOA-related verification and monitoring activities for more than three and a half years.”<sup>65</sup> Grossi’s February 26, 2025, report contains this November 2024 report language.<sup>66</sup>

As noted, Iran is a party to the NPT and has concluded a comprehensive safeguards agreement with the agency. Such agreements, which are based on a model described in INFCIRC 153, are designed to enable the IAEA to detect the diversion of nuclear material from peaceful purposes to nuclear weapons uses, as well as to detect undeclared nuclear activities and material.<sup>67</sup> Safeguards include agency inspections and monitoring of declared nuclear facilities. Although comprehensive safeguards agreements give the IAEA the authority “to verify the absence of undeclared nuclear material and activities, the tools available to it to do so, under such agreements, are limited” according to the agency.<sup>68</sup>

As a practical matter, the IAEA’s ability to inspect and monitor nuclear facilities, as well as obtain information, in a particular country pursuant to that government’s comprehensive safeguards agreement is limited to facilities and activities that have been declared by the government. Additional Protocols to IAEA comprehensive safeguards agreements increase the agency’s ability to investigate undeclared nuclear facilities and activities by increasing the IAEA’s authority to

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<sup>61</sup> *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, International Atomic Energy Agency, GOV/2023/39, September 4, 2023.

<sup>62</sup> Ibid.

<sup>63</sup> *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, International Atomic Energy Agency, GOV/2023/57, November 15, 2023.

<sup>64</sup> *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, International Atomic Energy Agency, GOV/2024/7, February 26, 2024.

<sup>65</sup> *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, International Atomic Energy Agency, GOV/2024/61, November 19, 2024.

<sup>66</sup> GOV/2025/8.

<sup>67</sup> *IAEA Safeguards Glossary 2022 Edition*. Comprehensive safeguards agreements are based on a model described in INFCIRC 153, available at <http://www.iaea.org/Publications/Documents/Infircs/Others/infirc153.pdf>. According to Amano’s May 2013 report from Amano, the IAEA Board of Governors “has confirmed on numerous occasions, since as early as 1992,” that this model agreement “authorizes and requires the Agency to seek to verify both the non-diversion of nuclear material from declared activities (i.e. correctness) and the absence of undeclared nuclear activities in the State (i.e. completeness)” (*Implementation of the NPT Safeguards Agreement and Relevant Provisions of Security Council Resolutions in the Islamic Republic of Iran*, Report by the Director General, GOV/2013/27, May 22, 2013).

<sup>68</sup> *Guidance for States Implementing Comprehensive Safeguards Agreements and Additional Protocols*, IAEA Services Series 21, May 2016.



inspect certain nuclear-related facilities and demand information from member states.<sup>69</sup> Iran signed such a protocol in December 2003 and agreed to implement the agreement pending ratification. Tehran stopped adhering to its Additional Protocol in 2006.<sup>70</sup>

The IAEA's authority to investigate nuclear-weapons-related activity is limited. Then-Director General ElBaradei explained in a 2005 interview that the IAEA does not have "an all-encompassing mandate to look for every computer study on weaponization. Our mandate is to make sure that all nuclear materials in a country are declared to us."<sup>71</sup> Similarly, a February 2006 report from ElBaradei to the IAEA board stated that "absent some nexus to nuclear material the agency's legal authority to pursue the verification of possible nuclear weapons related activity is limited."<sup>72</sup> There is no requirement that there be any nexus to nuclear material in order for the IAEA to request access to a facility, but there are disagreements among IAEA member states regarding the extent of the agency's rights to access locations where nuclear material may not be present. Such disagreements could play a role if the IAEA board is required to consider a request for special inspections in Iran or another country (see **Appendix B**). Therefore, the closer the connection between nuclear material and the location in question, the more likely the board would be to approve such an inspection.

The current public controversy over Iran's nuclear program began in August 2002, when the National Council of Resistance on Iran (NCRI), an Iranian exile group, revealed information during a press conference (some of which later proved to be accurate) that Tehran had built nuclear-related facilities that it had not revealed to the IAEA. The United States had been aware of at least some of these activities, according to knowledgeable former U.S. officials.<sup>73</sup> Prior to the NCRI's revelations, the IAEA had expressed concerns that Iran had not been providing the agency with all relevant information about its nuclear programs. But the agency had never found Tehran in violation of its safeguard's agreement.

In fall 2002, the IAEA began to investigate Iran's nuclear activities at the NCRI-named sites; inspectors visited the sites the following February. Adopting its first resolution on the matter in September 2003, the IAEA board called on Tehran to increase its cooperation with the agency's investigation, suspend Iran's uranium enrichment activities, and "unconditionally sign, ratify and fully implement" an Additional Protocol.<sup>74</sup>

In October 2003, Iran concluded a voluntary agreement with the E3 to suspend its enrichment activities, sign and implement an Additional Protocol to Iran's IAEA safeguards agreement, and comply fully with the IAEA's investigation.<sup>75</sup> As a result, the agency's board decided to refrain

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<sup>69</sup> Additional Protocols for an individual IAEA member state are based on the agency's Model Additional Protocol (INFCIRC/540), available at <http://www.iaea.org/Publications/Documents/Infcircs/1997/infirc540c.pdf>.

<sup>70</sup> Iran announced that it would stop implementing the protocol two days after the IAEA Board of governors adopted a resolution in February 2006 that reported Iran's noncompliance with its IAEA safeguards agreement to the UN Security Council. Iran implemented the protocol pursuant to the JCPOA until February 2021.

<sup>71</sup> "Tackling the Nuclear Dilemma: An Interview with IAEA Director-General Mohamed ElBaradei," February 4, 2005, available at [http://www.armscontrol.org/act/2005\\_03/ElBaradei](http://www.armscontrol.org/act/2005_03/ElBaradei).

<sup>72</sup> *Implementation of the NPT Safeguards Agreement in the Islamic Republic of Iran*, Report by the Director General, GOV/2006/15, February 27, 2006.

<sup>73</sup> Gary Samore, former Senior Director for Nonproliferation and Export Controls on the National Security Council, personal communication June 5, 2008; then-Director of Central Intelligence George J. Tenet, "DCI Remarks on Iraq's WMD Programs," February 5, 2004, available at [https://www.cia.gov/news-information/speeches-testimony/2004/tenet\\_georgetownspeech\\_02052004.html](https://www.cia.gov/news-information/speeches-testimony/2004/tenet_georgetownspeech_02052004.html).

<sup>74</sup> *Implementation of the NPT Safeguards Agreement in the Islamic Republic of Iran*, Report by the Director General, GOV/2003/75, November 10, 2003.

<sup>75</sup> The text of the agreement is available at <https://fas.org/nuke/guide/iran/uk2005.pdf>.

from reporting the matter to the UN Security Council. As noted, Tehran signed this Additional Protocol in December 2003, but has never ratified it.<sup>76</sup>

Ultimately, the IAEA's investigation, as well as information Iran provided after the October 2003 agreement, revealed that Iran had engaged in a variety of clandestine nuclear-related activities, some of which violated the country's safeguards agreement (see **Appendix C**). After October 2003, Iran continued some of its enrichment-related activities, but Tehran and the E3 agreed in November 2004 to a more detailed suspension agreement.<sup>77</sup> However, Iran resumed uranium conversion in August 2005 under the leadership of then-President Mahmoud Ahmadinejad, who had been elected two months earlier.

On September 24, 2005, the IAEA Board of Governors adopted a resolution (GOV/2005/77)<sup>78</sup> that, for the first time, found Iran to be in noncompliance with its IAEA safeguards agreement. The board, however, did not report the matter to the Security Council, choosing instead to give Tehran additional time to comply with the board's demands. The resolution urged Iran

- to implement transparency measures including access to individuals, documentation relating to procurement, dual use equipment, certain military owned workshops, and research and development locations;
- to reestablish full and sustained suspension of all enrichment-related activity;
- to reconsider the construction of the research reactor moderated by heavy water;
- to ratify promptly and implement in full the Additional Protocol; and
- to continue to act in accordance with the provisions of the Additional Protocol.

No international legal obligations required Tehran to take these steps. But ElBaradei's September 2008 report asserted that, without Iranian implementation of such "transparency measures," the IAEA would "not be in a position to progress in its verification of the absence of undeclared nuclear material and activities in Iran."

Iran announced in January 2006 that Tehran would resume research and development on its centrifuges at Natanz. The next month, the IAEA Board of Governors reported Iran's case to the UN Security Council.<sup>79</sup> Tehran announced shortly after that it would stop implementing its Additional Protocol. (For details, see "Iran and the UN Security Council" below.)

## **Potential Noncompliance After September 2005**

### ***Design Information Provision***

Iran further reduced its cooperation with the IAEA in March 2007, when the government told the agency that Tehran would stop complying with a portion of the subsidiary arrangements for Iran's IAEA safeguards agreement.<sup>80</sup> That provision (called the modified code 3.1), to which Iran agreed in February 2003, requires states to provide design information for new nuclear facilities "as soon as the decision to construct, or to authorize construction, of such a facility has been taken,

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<sup>76</sup> Iran implemented the protocol pursuant to the JCPOA until February 2021.

<sup>77</sup> The text of the agreement is available at <https://fas.org/nuke/guide/iran/uk2005.pdf>.

<sup>78</sup> Available at <http://www.iaea.org/Publications/Documents/Board/2005/gov2005-77.pdf>.

<sup>79</sup> For details on the IAEA's authority to refer noncompliance cases to the Security Council, see "Iran and the UN Security Council."

<sup>80</sup> According to the IAEA Safeguards Glossary, subsidiary arrangements are "[t]he document specifying in detail how the procedures laid down in a safeguards agreement are to be applied."



whichever is earlier.” Beginning in March 2007, Iran argued that it was only obligated to adhere to the previous notification provisions of its subsidiary arrangements, which required Tehran to provide design information for a new facility 180 days before introducing nuclear material into it.<sup>81</sup>

Iran later cited this decision when withholding some information from the IAEA concerning Tehran’s nuclear program. For example, Iran had refused to provide updated design information for the heavy-water reactor under construction at Arak.<sup>82</sup> As part of the November 2013 Joint Plan of Action, Iran submitted this information to the IAEA on February 12, 2014.<sup>83</sup> Similarly, Tehran had refused to provide the IAEA with design information for a reactor that Iran intends to construct at Darkhovin. Although Iran provided the agency with preliminary design information about the Darkhovin reactor in a September 22, 2009, letter, the IAEA requested Tehran to “provide additional clarifications” of the information, according to a November 2009 report.<sup>84</sup> Amano reported in September 2010 that Iran had “provided only limited design information with respect to” the reactor.<sup>85</sup> IAEA reports since 2012 do not appear to address this issue.

Tehran has also argued, based on its March 2007 decision, that the government’s failure to notify the IAEA before September 2009 that Iran had been constructing a gas-centrifuge uranium enrichment facility, called the Fordow facility, was consistent with the government’s safeguards obligations. Exactly when Iran decided to construct the facility is unclear. Amano reported in May 2012 that the IAEA has requested information from Iran regarding the Fordow construction decision. But Tehran, according to a November 2015 report from Amano, had not provided all of this information.<sup>86</sup>

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<sup>81</sup> During a November 2011 session of the Non-Aligned Movement, Ambassador Ali Asghar Soltanieh, then Iran’s Permanent Representative to the IAEA, characterized the modified Code 3.1 as “merely a suggestion” by the IAEA Board of Governors. See “Iran Provides 20 Answers to Clarify Ambiguities about Its Nuclear Program,” *Tehran Times*, November 9, 2011. “Until 1992, the standard language” for code 3.1 “called for the state to provide the IAEA with completed design information questionnaires for new nuclear facilities as soon as possible but no later than 180 days before the introduction of nuclear material.” The IAEA subsequently adopted the current notification requirement (Michael D. Rosenthal, Lisa L. Saum-Manning, Frank Houck, and George Anzelon, *Review of the Negotiation of the Model Protocol Additional to the Agreement(s) Between State(s) and the International Atomic Energy Agency for the Application of Safeguards INFCIRC/540 (Corrected) Volume I/III Setting the Stage: 1991-1996*, Nonproliferation and National Security Department, Nonproliferation and Safeguards Division, Brookhaven National Laboratory, January 2010).

<sup>82</sup> This lack of information was “having an increasingly adverse impact on the Agency’s ability to effectively verify the design of the facility and to implement an effective safeguards approach,” according to Amano’s May 2013 report (GOV/2013/27). A November 2013 report from Amano explains that the IAEA “needs updated design information as early as possible in order ... to ensure that all possible diversion paths are identified, and appropriate safeguards measures and customized safeguards equipment are put in place.” (*Implementation of the NPT Safeguards Agreement and Relevant Provisions of Security Council Resolutions in the Islamic Republic of Iran*, Report by the Director General, GOV/2013/56, November 14, 2013.) Iran has concluded “a safeguards approach for the reactor” (*Status of Iran’s Nuclear Programme in Relation to the Joint Plan of Action*, Report by the Director General, GOV/INF/2015/8, April 20, 2015).

<sup>83</sup> *Implementation of the NPT Safeguards Agreement and Relevant Provisions of Security Council Resolutions in the Islamic Republic of Iran*, Report by the Director General, GOV/2014/10, February 20, 2014.

<sup>84</sup> *Implementation of the NPT Safeguards Agreement and Relevant Provisions of Security Council Resolutions 1737 (2006), 1747 (2007), 1803 (2008) and 1835 (2008) in the Islamic Republic of Iran*, Report by the Director General, GOV/2008/59, November 19, 2008.

<sup>85</sup> *Implementation of the NPT Safeguards Agreement in Relevant Provisions of Security Council Resolutions in the Islamic Republic of Iran*, Report by the Director General, GOV/2010/46, September 6, 2010.

<sup>86</sup> *Implementation of the NPT Safeguards Agreement and Relevant Provisions of Security Council Resolutions in the Islamic Republic of Iran*, Report by the Director General, GOV/2015/65, November 18, 2015.

Both the 2007 decision, which the IAEA asked Iran to “reconsider,” and Tehran’s refusal to provide the design information appear to be inconsistent with the government’s safeguards obligations. Although Article 39 of Iran’s safeguards agreement states that the subsidiary arrangements “may be extended or changed by agreement between” Iran and the IAEA, the agreement does not allow a state to modify or suspend unilaterally any portion of those arrangements.<sup>87</sup> The IAEA legal adviser explained in a March 2009 statement<sup>88</sup> that Tehran’s failure to provide design information for the reactors is “inconsistent with” Iran’s obligations under its subsidiary arrangements. The adviser, however, added that “it is difficult to conclude that” Tehran’s refusal to provide the information “in itself constitutes noncompliance with, or a breach of” Iran’s safeguards agreement. Nevertheless, a November 2009 report from ElBaradei described Tehran’s failures both to notify the agency of the decision to begin constructing the Fordow facility, as well as to provide the relevant design information in a timely fashion, as “inconsistent with” Iran’s safeguards obligations. The report similarly described Iran’s delay in providing design information for the Darkhovin reactor.

Iran may also have violated its safeguards agreement if the government has decided to construct other new nuclear facilities without informing the IAEA. The agency has investigated whether Iran has made such decisions. For example, the IAEA asked the government for information about Iranian statements indicating that Tehran is planning to construct new uranium enrichment facilities, designing a nuclear reactor similar to a research reactor located in Tehran, producing fuel for four new research reactors, and is planning to construct additional nuclear power reactors. Pursuant to its November 2013 agreement with the IAEA, Iran has provided at least some of this information to the agency.

Iran’s March 2007 decision regarding the provision of information to the IAEA also formed the basis for Tehran’s refusal until August 2009 to allow agency inspectors to verify design information for the Arak reactor. This action also appeared to be inconsistent with Tehran’s safeguards agreement. Article 48 of that agreement states that the IAEA “may send inspectors to facilities to verify the design information provided to the Agency”; in fact, the agency has a “continuing right” to do so, according to a November 2008 report from ElBaradei.<sup>89</sup> Moreover, the March 2009 IAEA legal adviser’s statement characterized Iran’s refusal to allow IAEA inspectors to verify the Arak reactor’s design information as “inconsistent with” Tehran’s obligations under its safeguards agreement.<sup>90</sup> IAEA inspectors visited the reactor facility in August 2009 to verify design information, according to a report ElBaradei issued the same month.<sup>91</sup>

In addition to the lapses described above, Iran’s failure to notify the IAEA of its decision to produce enriched uranium containing a maximum of 20% uranium-235 in time for agency inspectors to adjust their safeguards procedures may, according to a February 2010 report from

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<sup>87</sup> See also *Implementation of the NPT Safeguards Agreement and Relevant Provisions of Security Council Resolutions in the Islamic Republic of Iran*, Report by the Director General, GOV/2007/22, May 23, 2007. Security Council Resolution 1929 affirmed that Code 3.1 “cannot be modified nor suspended unilaterally.”

<sup>88</sup> “Statement by the Legal Adviser,” Meeting of the Board of Governors, March 2009.

<sup>89</sup> GOV/2008/59. Security Council Resolution 1929 affirmed this statement.

<sup>90</sup> Iran stated in an April 2007 letter to the IAEA that, given Tehran’s March 2007 decision regarding the subsidiary arrangements to its safeguards agreement, such visits were unjustified.

<sup>91</sup> *Implementation of the NPT Safeguards Agreement and Relevant Provisions of Security Council Resolutions 1737 (2006), 1747 (2007), 1803 (2008) and 1835 (2008) in the Islamic Republic of Iran*, Report by the Director General, GOV/2009/55, August 28, 2009.

Amano, have violated Iran's IAEA safeguards agreement.<sup>92</sup> Article 45 of that agreement requires that Tehran notify the IAEA "with design information in respect of a modification relevant for safeguards purposes sufficiently in advance for the safeguards procedures to be adjusted when necessary," according to Amano's report, which describes Iran's enrichment decision as "clearly relevant for safeguards purposes."

The IAEA board has neither found that any of the Iranian actions described above are in noncompliance with Tehran's safeguards agreement, nor reported these issues to the UN Security Council. The IAEA board adopted a resolution on November 27, 2009, describing Iran's failure to notify the agency of the Fordow facility as "inconsistent with" the subsidiary arrangements under Iran's safeguards agreement, but this statement did not constitute a formal finding of noncompliance. A September 13, 2012, IAEA board resolution expressed "serious concern" that Tehran has not complied with the obligations described in IAEA Board of Governors and UN Security Council resolutions, but that resolution also did not contain a formal finding of noncompliance.<sup>93</sup>

As noted, Iran began implementing the modified Code 3.1 pursuant to the JCPOA. However, Iran notified the IAEA on February 15, 2021, that the government would cease implementing modified Code 3.1.<sup>94</sup> According to a September 2022 report from Director General Grossi, Iran had informed the IAEA that Tehran did not "have a plan to construct a new nuclear facility in the near future" and that the government "was ready to work with" the agency "to find a mutually acceptable solution to address the issue of modified Code 3.1"<sup>95</sup> However, Iran did not provide the agency with IAEA-requested "preliminary design information" for potential new nuclear facilities to which Iranian public statements have alluded.<sup>96</sup> During an August 2023 meeting, "Iran reiterated its readiness to work with the Agency to find a mutually acceptable solution to address the issue of new nuclear facilities," according to Grossi's September 4, 2023, report.<sup>97</sup> However, in response to subsequent IAEA requests for information covered by modified Code 3.1, Tehran has informed the agency that the government will provide such information "in due time."<sup>98</sup>

### ***Undeclared Nuclear Material***

A March 3, 2020, report from IAEA Director General Grossi to the agency's Board of Governors states that the IAEA has "identified a number of questions related to possible undeclared nuclear

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<sup>92</sup> *Implementation of the NPT Safeguards Agreement and Relevant Provisions of Security Council Resolutions 1737 (2006), 1747 (2007), 1803 (2008) and 1835 (2008) in the Islamic Republic of Iran*, Report by the Director General, GOV/2010/10, February 18, 2010.

<sup>93</sup> *Implementation of the NPT Safeguards Agreement and Relevant Provisions of United Nations Security Council Resolutions in the Islamic Republic of Iran*, GOV/2012/50, September 13, 2012.

<sup>94</sup> Reports from Grossi have repeatedly noted that Iranian is legally obligated to implement modified Code 3.1 For example, a September 4, 2023, report states that "implementation of modified Code 3.1 is a legal obligation for Iran under the Subsidiary Arrangements to its Safeguards Agreement which, in accordance with Article 39 of Iran's Safeguards Agreement, cannot be modified unilaterally and that there is no mechanism in the Safeguards Agreement for the suspension of implementation of provisions agreed to in the Subsidiary Arrangement." See GOV/2023/43.

Iran explained in a September 14, 2023, letter to the IAEA that Tehran suspended implementation of modified Code 3.1 pursuant to JCPOA paragraphs 26 and 36. (INFCIRC/1131). See "The Joint Comprehensive Plan of Action" above.

<sup>95</sup> GOV/2022/39.

<sup>96</sup> GOV/2023/43.

<sup>97</sup> Ibid.

<sup>98</sup> GOV/2024/8; Communication from the Permanent Mission of the Islamic Republic of Iran to the Agency, INFCIRC/1275, March 4, 2025; *NPT Safeguards Agreement with the Islamic Republic of Iran*, Report by the Director General, GOV/2023/58, November 15, 2023.

material and nuclear-related activities” that had taken place at three undeclared Iranian locations.<sup>99</sup> <sup>100</sup> Beginning in November 2019, IAEA reports have detailed what Director General Grossi has described as “possible undeclared nuclear material and nuclear-related activities” in Iran. Specifically, IAEA inspectors have detected anthropogenic uranium particles at three undeclared Iranian locations.<sup>101</sup> Pursuant to Iran’s comprehensive safeguards agreement and additional protocol, the agency has requested information about these activities, as well as access to these locations.<sup>102</sup>

In a March 4, 2020, press interview, Grossi explained that “[t]he fact that we found traces (of uranium) is very important. That means there is the possibility of nuclear activities and material that are not under international supervision and about which we know not the origin or the intent.”<sup>103</sup> A June 2020 report from Director General Grossi explained that Tehran’s inadequate cooperation with the IAEA was “adversely affecting the Agency’s ability to clarify and resolve the questions” raised by the IAEA’s findings described above.<sup>104</sup> The IAEA Board of Governors adopted a resolution later that month calling on Iran “to fully cooperate with the Agency and satisfy the Agency’s requests without any further delay, including by providing prompt access to the locations specified by the Agency.”<sup>105</sup> This resolution does not contain a formal finding of noncompliance.

Although Iran has provided the IAEA with access to the relevant locations and provided some related information, these actions have not completely resolved the outstanding issues. A December 2021 bilateral agreement stated that Iran and the IAEA would “continue to work on remaining outstanding safeguards issues with the aim of resolving them.”<sup>106</sup> Subsequently, the two sides in February 2022 conducted “technical discussions,” which “paved the way” for a March 5, 2022, joint statement detailing a mutual agreement to “accelerate and strengthen” mutual “cooperation and dialogue aimed at the resolution of the [outstanding] issues” and specifying “a series of actions ... upon completion of which” Grossi intended to “report his conclusion” in time for the IAEA Board of Governors June 2022 meeting.<sup>107</sup> But according to a May 2022 report from Director General Grossi, the relevant safeguards issues remained outstanding.<sup>108</sup>

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<sup>99</sup>*NPT Safeguards Agreement with the Islamic Republic of Iran*, Report by the Director General, GOV/2020/15, March 3, 2020.

<sup>100</sup> Iran has suggested that these agency investigations are based on “fabricated information” from foreign intelligence services (*Communication dated 8 June 2020 received from the Permanent Mission of the Islamic Republic of Iran to the Agency*, INFCIRC/936, June 9, 2020; *Communication dated 3 June 2022 received from the Permanent Mission of the Islamic Republic of Iran to the Agency*, INFCIRC/996, June 7, 2022); INFCIRC/1131.

<sup>101</sup> According to a February 2021 report from Director General Grossi, the IAEA has “assessed that there would be no verification value in conducting a complementary access” at a fourth location where Iran may have conducted undeclared nuclear activities. The agency instead decided to conduct “additional verification activities” at a different Iranian facility. (*NPT Safeguards Agreement with the Islamic Republic of Iran*, Report by the Director General, GOV/2021/15, February 23, 2021).

<sup>102</sup> *NPT Safeguards Agreement with the Islamic Republic of Iran*, GOV/2021/42, September 7, 2021.

<sup>103</sup> Didier Lauras and Jastinder Khera, “IAEA Chief Demands ‘Clarifications’ on Iran’s Nuclear Program,” *Agence France Presse*, March 4, 2020.

<sup>104</sup> *NPT Safeguards Agreement with the Islamic Republic of Iran*, GOV/2020/30, June 5, 2020.

<sup>105</sup> *NPT Safeguards Agreement with the Islamic Republic of Iran*, GOV/2020/34, June 19, 2020.

<sup>106</sup> “IAEA and Iran Reach Agreement on Replacing Surveillance Cameras at Karaj Facility,” December 15, 2021.

<sup>107</sup> GOV/2022/5.

<sup>108</sup> *NPT Safeguards Agreement with the Islamic Republic of Iran*, Report by the Director General, GOV/2022/26, May 30, 2022.

On June 8, 2022, the IAEA Board of Governors adopted a resolution calling on Iran “to act on an urgent basis to fulfil its legal obligations and, without delay, take up” Grossi’s “offer of further engagement to clarify and resolve all outstanding safeguards issues.”<sup>109</sup> This resolution does not contain a formal finding of noncompliance. Iran “has fulfilled all its commitments in this respect and addressed all the Agency’s questions in a very substantive and cooperative manner,” according to a June 9, 2022, statement from Tehran’s mission to the UN in Vienna.<sup>110</sup> Nevertheless, according to a September 7, 2022, report from Grossi, Iran had not engaged with the Agency on the outstanding safeguards issues since the May 2022 report.<sup>111</sup>

A November 17, 2022, IAEA Board of Governors resolution states that “it is essential and urgent” for Iran to take several actions to resolve the outstanding safeguards matters.<sup>112</sup> This resolution also does not contain a formal finding of noncompliance. A March 4, 2023, report from Grossi notes that “by the end of February 2023 no progress had been made toward resolving any of the outstanding safeguard’s issues.”<sup>113</sup> According to an IAEA-AEOI joint statement issued the same day, “Iran expressed its readiness to continue its cooperation and provide further information and access to address the outstanding safeguards issues” concerning the above-described locations.<sup>114</sup>

Iran subsequently “provided a possible explanation for the presence” of nuclear material at one of the three undeclared locations, Grossi reported on May 31, 2023, adding that “the matter is no longer outstanding.”<sup>115</sup> However the safeguards issues concerning the other two sites remain outstanding.<sup>116</sup> A September 14, 2023, letter to the IAEA from Tehran asserts that the government “has exhausted all its efforts so as to discover the origin” of the uranium particles.<sup>117</sup> The lack of an explanation for the particles’ origin “would reasonably imply that possibly external elements, such as sabotage and malicious acts, have been involved in the contamination,” the letter adds.<sup>118</sup> A March 2025 letter from Iran to the IAEA asserts that the agency’s aforementioned IAEA

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<sup>109</sup> *NPT Safeguards Agreement with the Islamic Republic of Iran*, GOV/2022/34, June 8, 2022.

<sup>110</sup> Mr. Mohammad Reza Ghaebi, Acting Head of Mission and Charge d’Affaires, Iran Permanent Mission to the United Nations Office and Other International Organizations, *Statement before the IAEA Board of Governors on NPT Safeguards Agreement with the Islamic Republic of Iran* (GOV/2022/26), June 9, 2022.

<sup>111</sup> *NPT Safeguards Agreement with the Islamic Republic of Iran*, Report by the Director General, GOV/2022/42, September 7, 2022.

<sup>112</sup> *NPT Safeguards Agreement with the Islamic Republic of Iran*, GOV/2022/70, November 17, 2022. The resolution requires that Iran: provide technically credible explanations for the presence of uranium particles of anthropogenic origin at three undeclared locations in Iran; inform the Agency of the current location(s) of the nuclear material and/or of the contaminated equipment; provide all information, documentation, and answers the Agency requires for that purpose; and provide access to locations and material the Agency requires for that purpose, as well as for the taking of samples as deemed appropriate by the Agency.

<sup>113</sup> *NPT Safeguards Agreement with the Islamic Republic of Iran*, Report by the Director General, GOV/2023/9, March 4, 2023.

<sup>114</sup> “Joint Statement by the Atomic Energy Organization of Iran (AEOI) and the International Atomic Energy Agency (IAEA),” March 4, 2023.

<sup>115</sup> *NPT Safeguards Agreement with the Islamic Republic of Iran*, Report by the Director General, GOV/2023/26, May 31, 2023.

<sup>116</sup> *NPT Safeguards Agreement with the Islamic Republic of Iran*, Report by the Director General, GOV/2025/10, February 26, 2025.

<sup>117</sup> Communication from the Permanent Mission of the Islamic Republic of Iran to the Agency, INFCIRC/1131, September 14, 2023.

<sup>118</sup> *Ibid.*



assessments are “based on unreliable information and unauthentic documents provided by” Israel.<sup>119</sup>

On June 5, 2024, the IAEA Board of Governors adopted a resolution calling on Iran to take a number of actions, such as complying with the November 2022 board resolution and implementing the March 2023 joint statement.<sup>120</sup> The board warned that Iran’s failure to cooperate with the agency’s investigation of the outstanding safeguards issues could “necessitate the production” by Grossi of a “comprehensive and updated assessment on the possible presence or use of undeclared nuclear material” in Iran.

A board resolution adopted on November 21, 2024, calls on Iran to comply with the June 2024 resolution and requests Grossi

to produce a comprehensive and updated assessment on the possible presence or use of undeclared nuclear material in connection with past and present outstanding issues regarding Iran’s nuclear programme, including a full account of Iran’s cooperation with the IAEA on these issues, addressing the Agency’s ability to verify Iran’s implementation of its safeguards obligations including the non-diversion of nuclear material, based on all information available, for consideration by the March 2025 Board of Governors or at the latest by spring 2025.<sup>121</sup>

A November 22 Iranian Foreign Ministry and AEOI joint statement announced that, in response to the resolution, the AEOI had “issued directives to initiate the operation of a substantial number of advanced centrifuges of various models.”<sup>122</sup> A November 27 news report stated that, according to Eslami, Iran had begun to feed gaseous uranium hexafluoride into “several thousand advanced centrifuges.”<sup>123</sup> Grossi reported on February 26, 2025, that he will produce the board-requested report described above.<sup>124</sup>

Recent IAEA verification activities indicate that Iran may have produced additional undeclared nuclear material. Specifically, IAEA inspectors in March 2022 verified a quantity of nuclear material dissolved by Iran in the country’s uranium conversion facility; Iran had transferred “natural uranium ... in the form of solid waste and items of uranium metal transferred from the Jaber Ibn Hayan Multipurpose Laboratory (JHL).”<sup>125</sup> In the course of their verification activity, that agency inspectors “identified a discrepancy” between the amounts of IAEA-verified and Iran-declared nuclear material.<sup>126</sup>

Following subsequent discussions between IAEA and Iranian officials, Iran in February 2024 provided the agency with corrected nuclear material accounting information.<sup>127</sup> “On the basis of” this information, the IAEA “considers ... the discrepancy in the nuclear material balance to have

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<sup>119</sup> Communication from the Permanent Mission of the Islamic Republic of Iran to the Agency, INFCIRC/1183, March 7, 2024. November 2024 and March 2025 letters from Iran to the IAEA contain similar language (INFCIRC/1260; INFCIRC/1275).

<sup>120</sup> *NPT Safeguards Agreement with the Islamic Republic of Iran*, GOV/2024/39, June 5, 2024.

<sup>121</sup> *NPT Safeguards Agreement with the Islamic Republic of Iran*, GOV/2024/68, November 21, 2024.

<sup>122</sup> “Joint Statement of the Ministry of Foreign Affairs and the Atomic Energy Organization of Iran Regarding the Unjust Resolution,” November 22, 2024.

<sup>123</sup> “AEOI Head: Iran Begins Gas Injection into Advanced Centrifuges,” *Fars News Agency*, November 27, 2024.

<sup>124</sup> GOV/2025/10.

<sup>125</sup> *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/2023/8, February 28, 2023.

<sup>126</sup> *Ibid.*

<sup>127</sup> GOV/2024/8.

been rectified.”<sup>128</sup> However, the corrected Iranian information indicates that a previous Iranian declaration underreported the amount of uranium present at JHL.<sup>129</sup> In a March 7, 2024, statement to the IAEA Board of Governors, Ambassador Laura Holgate explained that “the ultimate question remains whether there is some quantity of uranium metal that remains unaccounted for in Iran and, more importantly, to what purpose was that metal put?”<sup>130</sup> Iran and the IAEA “continue discussing ways to resolve the issue,” according to Director General Grossi’s November 19 report.<sup>131</sup> Grossi reported on February 26 that there had been no subsequent progress “towards resolving the discrepancy.”<sup>132</sup>

Iranian officials have expressed Tehran’s willingness to cooperate with the IAEA investigation. A December 10 Iranian news agency reported that, according to Foreign Minister Abbas Araghchi, Iran “remains ready and willing to cooperate constructively with the Agency within the defined technical framework.”<sup>133</sup> Similarly, AEOI head Eslami stated on December 14 that Iran “will engage with the agency on the remaining two sites” that the IAEA has been investigating.<sup>134</sup> Iranian Deputy Foreign Minister Kazem Gharibabadi wrote on March 17, 2025, that Tehran “remains committed to cooperating with the IAEA within the framework of its safeguards’ obligations.”<sup>135</sup>

### *Fordow Cascades*

In a separate incident, Iran acted in a manner “contrary” to its IAEA safeguards agreement, Grossi reported on March 4, 2023.<sup>136</sup> Specifically, Iran began to operate two centrifuge cascades in the Fordow facility in a manner inconsistent with the design information that Iran had provided to the IAEA.<sup>137</sup> Subsequently, Tehran agreed to increased “frequency and intensity” of IAEA verification activities at the facility; Iran also provided the IAEA with updated information to reflect the aforementioned cascade operation.<sup>138</sup>

## **Iran and the UN Security Council**

As noted, Iran announced in January 2006 that Tehran would resume research and development on its centrifuges at Natanz. In response, the IAEA board adopted a resolution (GOV/2006/14)<sup>139</sup>

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<sup>128</sup> GOV/2024/8. Iran’s March 2024 letter to the IAEA asserts that the “discrepancy resulted from recovery activities due to nature of conversion processes” (INFCIRC/1183).

<sup>129</sup> Iran made this declaration in 2003-2004 (GOV/2024/8).

<sup>130</sup> U.S. Mission to International Organizations in Vienna, “Agenda Item 6c – IAEA Board of Governors Meeting – March 2024,” March 7, 2024.

<sup>131</sup> *NPT Safeguards Agreement with the Islamic Republic of Iran*, Report by the Director General, GOV/2024/62, November 19, 2024.

<sup>132</sup> GOV/2025/10.

<sup>133</sup> “Iran Ready to Cooperation with IAEA Within Defined Technical Framework: FM,” *Islamic Republic News Agency*, December 10, 2024.

<sup>134</sup> “No Barriers to IAEA Inspections in Iran: Nuclear Chief,” *Islamic Republic News Agency*, December 14, 2024.

<sup>135</sup> “Iran Calls for ‘External Political Pressures’ on IAEA to Be Removed,” *X (formerly Twitter) in Persian*, March 17, 2025.

<sup>136</sup> GOV/2023/9.

<sup>137</sup> According to a February 2025 report from IAEA Director General Grossi, centrifuge cascades “are considered to be operating if they have been fed with” uranium hexafluoride “for enrichment of collected product.” (GOV/2025/8).

<sup>138</sup> *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, International Atomic Energy Agency, GOV/2023/24, May 31, 2023

<sup>139</sup> *Implementation of the NPT Safeguards Agreement in the Islamic Republic of Iran*, GOV/2006/14, February 4, 2006.



on February 4, 2006, reporting the matter to the Security Council and reiterating its call for Iran to take the measures specified in the September resolution. Two days later, Tehran announced that the government would stop implementing its Additional Protocol.

On March 29, 2006, the UN Security Council President issued a statement, which was not legally binding, that called on Iran to “take the steps required” by the February IAEA board resolution. The council subsequently adopted six resolutions concerning Iran’s nuclear program: 1696 (July 2006), 1737 (December 2006), 1747 (March 2007), 1803 (March 2008), 1835 (September 2008), and 1929 (June 2010). The second, third, fourth, and sixth resolutions imposed a variety of restrictions on Iran.

The Security Council adopted Resolution 1696 under Article 40 of Chapter VII of the UN Charter. That article empowers the council to “call upon” governments “to comply with such provisional measures as it deems necessary or desirable” before the council decides upon or recommends responses addressing threats “to the peace, breach of the peace, or act of aggression.” Except for Resolution 1835, the council adopted the remaining resolutions, as well as Resolution 2231, under Article 41 of Chapter VII. This article enables the Security Council to adopt “measures not involving the use of armed force,” including sanctions, “to give effect to its decisions” concerning “threats to the peace, breaches of the peace, and acts of aggression.”

Resolution 1696 was the first to place legally binding Security Council requirements on Iran with respect to its nuclear program. That resolution made mandatory the IAEA-demanded suspension and called on Tehran to implement the transparency measures called for by the IAEA board’s February 2006 resolution. Resolution 1737 reiterated these requirements but expanded the suspension’s scope to include “work on all heavy water-related projects.” It is worth noting that the Security Council has acknowledged (in Resolution 1803, for example) Iran’s rights under Article IV of the NPT, which states that parties to the treaty have “the inalienable right ... to develop research, production and use of nuclear energy for peaceful Purposes.” As noted, Resolution 1929 also required Tehran to refrain from “any activity related to ballistic missiles capable of delivering nuclear weapons” and to comply with the modified Code 3.1 of its subsidiary arrangement.

Resolution 2231, which the UN Security Council adopted on July 20, 2015, states that all of the previous resolutions’ requirements would be terminated when the council receives a report from the IAEA stating that Iran has implemented the nuclear-related measures by Implementation Day, as described by the July 2015 JCPOA. As noted, Implementation Day took place on January 16, 2016. The resolution stipulates that the council, which has been seized of the “Iranian nuclear issue” since 2006, is to end its consideration of the matter in 2025. The resolution’s “snapback” mechanism described below will then cease to be operational.

Resolution 2231 also “reaffirms that Iran shall cooperate fully as the IAEA requests to be able to resolve all outstanding issues, as identified in IAEA reports.” The aforementioned IAEA Board of Governors’ December 2015 resolution noted that the board had closed its consideration of the “outstanding issues regarding Iran’s nuclear programme.”

The JCPOA spells out a process for Iran or the P5+1 to resolve disputes over alleged breaches of their JCPOA commitments pursuant to the agreement. Both the JCPOA and Resolution 2231 contain a “snapback” mechanism to reimpose sanctions should Iran fail to resolve satisfactorily a P5+1 claim regarding Iranian JCPOA noncompliance. This mechanism provides that any permanent UN Security Council member would be able to veto a Security Council resolution that would preserve UN sanctions relief in the event of Iranian noncompliance. The JCPOA specifies that, in such a case, “the provisions of the old U.N. Security Council resolutions would be re-imposed, unless the U.N. Security Council decides otherwise.”

Resolution 2231 provides that only a “JCPOA participant state” may bring a noncompliance finding to the Security Council; U.S. officials have stated that the United States is no longer participating in the agreement.<sup>140</sup> In an August 20, 2020, letter to then-Security Council President Indonesian Ambassador Dian Triansyah Djani, Secretary of State Michael Pompeo initiated the snapback process by notifying the council that Iran “is in significant non-performance” of its JCPOA commitments. However, Djani explained in an August 21 letter to the council that the “United States cannot invoke the snapback mechanism ... because it has withdrawn from” the JCPOA.<sup>141</sup> Consequently, he added, the August 20, 2020, letter “has no legal effect.” According to a September 19, 2020, letter from UN Secretary General António Guterres, the “majority” of Security Council members have argued that Pompeo’s letter did not constitute the notification necessary for snapback. The resulting uncertainty, he added, required the Secretary to refrain from proceeding on the matter.

On February 18, 2021, Acting U.S. Ambassador to the UN Richard Mills sent a letter to Security Council President U.K. Ambassador Barbara Woodward “reversing the previous administration’s position on the ... sanctions snapback issue,” a State Department official told reporters the same day, adding that “the United States is affirming that” Resolution 2231 “remains in full effect.”<sup>142</sup>

## Authority for IAEA and UN Security Council Actions

The legal authority for the actions taken by the IAEA Board of Governors and the UN Security Council is found in both the IAEA Statute and the UN Charter. The following sections discuss the relevant portions of those documents.

### IAEA Statute<sup>143</sup>

Two sections of the IAEA Statute govern IAEA responses in the event that an IAEA member state is found to be in noncompliance with its safeguard’s agreement.<sup>144</sup> Article III B. 4. of the statute states that the IAEA is to submit annual reports to the UN General Assembly and, “when appropriate,” to the UN Security Council. If “there should arise questions that are within the competence of the Security Council,” the article adds, the IAEA “shall notify the Security Council, as the organ bearing the main responsibility for the maintenance of international peace and security.”

Additionally, Article XII C. states that IAEA inspectors are to report noncompliance issues to the agency’s Director General, who is to report the matter to the IAEA Board of Governors. The board is then to “call upon the recipient State or States to remedy forthwith any non-compliance

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<sup>140</sup> For more information, see CRS In Focus IF11583, *Iran’s Nuclear Program and U.N. Sanctions Reimposition*, by Paul K. Kerr.

<sup>141</sup> *Letter Dated 21 August 2020 from the Permanent Representative of Indonesia to the United Nations Addressed to the President of the Security Council*, S/2020/824.

<sup>142</sup> “Briefing with Senior State Department Officials on Diplomacy to Constrain Iran’s Nuclear Program,” February 18, 2021.

<sup>143</sup> The IAEA Statute is not self-executing; the Agency implements safeguards agreements reached with individual governments and certain regional organizations. As noted, comprehensive safeguards agreements are based on a model described in INFCIRC 153.

<sup>144</sup> The text of the IAEA Statute is available at <https://www.iaea.org/about/statute>.

which it finds to have occurred,” as well as “report the non-compliance to all members and to the Security Council and General Assembly of the United Nations.”

In the case of Iran, the September 24, 2005, IAEA board resolution (GOV/2005/77) stated that the board

found that Iran’s many failures and breaches of its obligations to comply with its NPT Safeguards Agreement, as detailed in GOV/2003/75 [a November 2003 report from then-Director General ElBaradei], constitute non compliance in the context of Article XII.C of the Agency’s Statute;

According to the resolution, the board also found

that the history of concealment of Iran’s nuclear activities referred to in the Director General’s report [GOV/2003/75], the nature of these activities, issues brought to light in the course of the Agency’s verification of declarations made by Iran since September 2002 and the resulting absence of confidence that Iran’s nuclear programme is exclusively for peaceful purposes have given rise to questions that are within the competence of the Security Council, as the organ bearing the main responsibility for the maintenance of international peace and security.

ElBaradei issued the report cited by the resolution, GOV/2003/75, in November 2003.<sup>145</sup> The report described a variety of Iranian nuclear activities, detailed in **Appendix C**, that violated Tehran’s safeguards agreement. ElBaradei subsequently reported that Iran has taken corrective measures to address these safeguards breaches. As noted above, the 2005 resolution called on Iran to take a variety of actions that Tehran was not legally required to implement.

## UN Charter and the Security Council

Several articles of the UN Charter, which is a treaty, describe the Security Council’s authority to impose requirements and sanctions on Iran.<sup>146</sup> Article 24 confers on the council “primary responsibility for the maintenance of international peace and security.” The article also states that the “specific powers granted to the Security Council for the discharge of these duties are laid down” in several chapters of the charter, including Chapter VII, which describes the actions that the council may take in response to “threats to the peace, breaches of the peace, and acts of aggression.” Article 25 of the UN Charter obligates UN members “to accept and carry out the decisions of the Security Council.” Moreover, Article 103 of the Charter states that

[i]n the event of a conflict between the obligations of the Members of the United Nations under the present Charter and their obligations under any other international agreement, their obligations under the present Charter shall prevail.

Chapter VII of the charter contains three articles relevant to the Iran case. Security Council resolutions that made mandatory the IAEA’s demands concerning Iran’s nuclear program invoked Chapter VII. Article 39 of that chapter states that the council

shall determine the existence of any threat to the peace, breach of the peace, or act of aggression and shall make recommendations, or decide what measures shall be taken in accordance with Articles 41 and 42, to maintain or restore international peace and security.

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<sup>145</sup> *Implementation of the NPT Safeguards Agreement in the Islamic Republic of Iran*, Report by the Director General, GOV/2003/75, November 10, 2003.

<sup>146</sup> The text of the charter is available at <http://www.un.org/en/sections/un-charter/un-charter-full-text/>.

Resolution 1696 invoked Article 40 of Chapter VII “in order to make mandatory the suspension required by the IAEA.” As noted, that resolution did not impose any sanctions on Iran. Article 40 states that

the Security Council may, before making the recommendations or deciding upon the measures provided for in Article 39 [of Chapter VII], call upon the parties concerned to comply with such provisional measures as it deems necessary or desirable.

Resolutions 1737, 1747, 1803, and 1929, which did impose sanctions, invoked Article 41 of Chapter VII. According to Article 41, the Security Council

may decide what measures not involving the use of armed force are to be employed to give effect to its decisions, and it may call upon the Members of the United Nations to apply such measures. These may include complete or partial interruption of economic relations and of rail, sea, air, postal, telegraphic, radio, and other means of communication, and the severance of diplomatic relations.

As noted, Security Council resolution 1835 did not impose new sanctions, but reaffirmed the previous resolutions and called on Iran to comply with them.

The IAEA also has an obligation to cooperate with the Security Council, “[b]y virtue of its Relationship Agreement with the United Nations.”<sup>147</sup> As noted, Security Council Resolution 2231 requests the IAEA Director General “to undertake the necessary verification and monitoring of Iran’s nuclear-related commitments for the full duration of those commitments under the JCPOA.”

## **Has Iran Violated the NPT?<sup>148</sup>**

Whether Iran has violated the NPT is unclear. The treaty does not contain a mechanism for determining that a state-party has violated its obligations. Moreover, there does not appear to be a formal procedure for determining such violations. An NPT Review Conference would, however, be one venue for NPT states-parties to make such a determination.

The UN Security Council has never declared Iran to be in violation of the NPT; neither the council nor the UN General Assembly has a responsibility to adjudicate treaty violations. However, the lack of a ruling by the council on Iran’s compliance with the NPT has evidently had little practical effect because, as noted, the council has taken action in response to the IAEA Board of Governors’ determination that Iran has violated its safeguards agreement.

Iran’s violations of its safeguard’s agreement appear to constitute violations of Article III, which requires NPT nonnuclear-weapon states-parties to accept IAEA safeguards, in accordance with the agency’s statute, “for the exclusive purpose of verification of the fulfillment of its obligations assumed under this Treaty with a view to preventing diversion of nuclear energy from peaceful uses to nuclear weapons or other nuclear explosive devices.” Tehran may also have violated provisions of Article II which state that nonnuclear-weapon states-parties shall not “manufacture or otherwise acquire nuclear weapons or other nuclear explosive devices” or “seek or receive any assistance in the manufacture of nuclear weapons or other nuclear explosive devices.”

As noted, the IAEA investigated evidence of what then-IAEA Director General Mohamed ElBaradei described in June 2008 as “possible military dimensions to Iran’s nuclear programme.” Such activities may indicate that Tehran has violated both Article II provisions described above.

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<sup>147</sup> GOV/2013/27. The agreement is contained in INFCIRC/11.

<sup>148</sup> Portions of this section are based on interviews with UN and State Department officials.

Moreover, a November 2007 National Intelligence Estimate (NIE) stated that “until fall 2003, Iranian military entities were working under government direction to develop nuclear weapons.”<sup>149</sup> A December 2, 2015, report from then-Director General Amano assesses that “before the end of 2003, an organizational structure was in place in Iran suitable for the coordination of a range of activities relevant to the development of a nuclear explosive device.”<sup>150</sup> Some Iranian nuclear weapons-related activities “took place after 2003,” the report adds, noting that these activities “were not part of a coordinated effort.”<sup>151</sup> This past Iranian program could be a violation of Article II.

A 2005 State Department report regarding states’ compliance with arms control and nonproliferation agreements argued that Iran had violated Article II of the NPT:

The breadth of Iran’s nuclear development efforts, the secrecy and deceptions with which they have been conducted for nearly 20 years, its redundant and surreptitious procurement channels, Iran’s persistent failure to comply with its obligations to report to the IAEA and to apply safeguards to such activities, and the lack of a reasonable economic justification for this program leads us to conclude that Iran is pursuing an effort to manufacture nuclear weapons, and has sought and received assistance in this effort in violation of Article II of the NPT.<sup>152</sup>

The report also stated that Iran’s “weapons program combines elements” of Tehran’s declared nuclear activities, as well as suspected “undeclared fuel cycle and other activities that may exist, including those that may be run solely by the military.”

The State Department’s 2005 reasoning appears to be based on an interpretation of the NPT which holds that a wide scope of nuclear activities could constitute violations of Article II. The 2005 report states that assessments regarding Article II compliance “must look at the totality of the facts, including judgments as to” a state-party’s “purpose in undertaking the nuclear activities in question.” The report also includes a list of activities which could constitute such noncompliance.<sup>153</sup>

The 2005 State Department report cites testimony from then-Arms Control and Disarmament Agency Director William Foster during a 1968 Senate Foreign Relations Committee hearing.<sup>154</sup> Foster stated that “facts indicating that the purpose of a particular activity was the acquisition of a nuclear explosive device would tend to show non-compliance” with Article II. He gave two examples: “the construction of an experimental or prototype nuclear explosive device” and “the production of components which could only have relevance” to such a device. However, Foster

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<sup>149</sup> *Iran: Nuclear Intentions and Capabilities*, National Intelligence Estimate, November 2007. Subsequent U.S. official statements have been consistent with the NIE.

<sup>150</sup> GOV/2015/68

<sup>151</sup> *Ibid.*

<sup>152</sup> *Adherence to and Compliance with Arms Control, Nonproliferation and Disarmament Agreements and Commitments*, Department of State, August 2005.

<sup>153</sup> According to the report, such activities can include (1) the presence of undeclared nuclear facilities; (2) procurement patterns inconsistent with a civil nuclear program (e.g., clandestine procurement networks, possibly including the use of front companies, false end-use information, and fraudulent documentation); (3) security measures beyond what would be appropriate for peaceful, civil nuclear installations; (4) a pattern of Article III safeguards violations suggestive not of mere mistake or incompetence, but of willful violation and/or systematic deception and denial efforts aimed at concealing nuclear activities from the IAEA; and (5) a nuclear program with little (or no) coherence for peaceful purposes, but great coherence for weapons purposes.

<sup>154</sup> *Nonproliferation Treaty*, Senate Committee on Foreign Relations, Joint Committee on Atomic Energy [Part 1] July 10-12, 17, 1968; Session 90-2 (1968). The complete statement regarding Article II violations is in **Appendix E**.

also noted that a variety of other activities could also violate Article II, adding that the United States believed it impossible “to formulate a comprehensive definition or interpretation.”

It is worth noting that the 2005 State Department report’s arguments appear to rely heavily on the notion that a state’s apparent intentions underlying certain nuclear-related activities can be used to determine violations of Article II. This interpretation is not shared by all experts.<sup>155</sup> The 2005 report “primarily reflected activities from January 2002 through December 2003.” A version of the report released in 2010, which primarily reflected activities from January 1, 2004, through December 31, 2008, states that “the issues underlying” the 2005 report’s conclusion regarding Iran’s Article II compliance “remain unresolved.”<sup>156</sup>

Subsequent versions of the report reiterated the 2010 report’s assessment until 2016, when the State Department assessed that “previous issues leading to NPT noncompliance findings [regarding Iran] had been resolved.”<sup>157</sup> As noted, the 2007 NIE assessed that Iran halted its nuclear weapons program in 2003; subsequent U.S. official statements have consistently reiterated that Tehran has not yet decided to build nuclear weapons.<sup>158</sup>

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<sup>155</sup> Personal communication with Andreas Persbo, Senior Researcher, the Verification Research, Training and Information Centre.

<sup>156</sup> Quotations are from *Adherence to and Compliance with Arms Control, Nonproliferation, and Disarmament Agreements and Commitments*, Department of State, July 2010.

<sup>157</sup> *Adherence to and Compliance with Arms Control, Nonproliferation, and Disarmament Agreements and Commitments*, Department of State, April 2016.

<sup>158</sup> See, for example, Director of National Intelligence James R. Clapper, *Statement for the Record, U.S. Intelligence Community Worldwide Threat Assessment*, February 26, 2015. For a more recent such assessment, see *Adherence to and Compliance with Arms Control, Nonproliferation and Disarmament Agreements and Commitments*, Department of State, April 2024, and Office of the Director of National Intelligence, *Annual Threat Assessment of the U.S. Intelligence Community*, March 25, 2025.



## Appendix A. Iranian Adherence to JCPOA Nuclear Program Restrictions<sup>159</sup>

Iran's number of installed centrifuges, low-enriched uranium (LEU) stockpile, the uranium-235 (u-235) concentration of that stockpile, as well as enrichment locations exceed JCPOA-mandated limits. Tehran is also conducting JCPOA-prohibited research and development (R&D), as well as centrifuge installation. In addition, Iran has produced uranium metal in violation of the JCPOA.

### Operating Centrifuges

Under the JCPOA, Iran is to use only its commercial-scale facility at Natanz for enriching uranium. Tehran is to use no more than 5,060 IR-1 centrifuges for this purpose. Iran has retained these centrifuges and installed additional IR-1 centrifuges. Tehran has also installed JCPOA-prohibited IR-2m, IR-4, and IR-6 centrifuges in the facility and is using all three types of centrifuges for enriching uranium. In addition, Iran is using IR-2m, IR-4, IR-5, and IR-6, centrifuges to produce enriched uranium at Tehran's pilot enrichment facility. Iran is also enriching uranium using IR-1 and IR-6 centrifuges in Iran's Fordow enrichment facility.

### Enriched Uranium Limits<sup>160</sup>

The JCPOA requires that Iran's enriched uranium stockpile must not exceed 300 kilograms of uranium hexafluoride containing 3.67% u-235 "or the equivalent in other chemical forms." This quantity of uranium hexafluoride "corresponds to 202.8 kg of uranium."<sup>161</sup> Iran has been producing uranium containing up to 2% u-235, up to 5% u-235, up to 20% u-235, and up to 60% u-235.<sup>162</sup> The IAEA estimates Tehran's total stockpile of uranium hexafluoride containing more than 2% u-235 to be 4,537 kilograms.

### Centrifuge Manufacturing

Iran has manufactured centrifuges for prohibited R&D activities and also manufactured centrifuge components using carbon fiber that has not received the required approval from the JCPOA-established Joint Commission.

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<sup>159</sup> Unless otherwise noted, this appendix is based on IAEA reports and the JCPOA text. Iran's February 2021 decision to stop implementing JCPOA "voluntary transparency measures" has impeded the IAEA's ability to monitor Iran's implementation of the agreement. The IAEA explained in a February 2024 report that "Iran stopped implementing its [JCPOA] nuclear-related commitments" beginning on May 8, 2019, until February 23, 2021, when Tehran "stopped implementing them altogether" (GOV/2024/61).

<sup>160</sup> Since February 16, 2021, the IAEA "has not been able to verify Iran's total enriched uranium stockpile precisely on any given day, needing to rely instead on a small proportion of the total being based on Iran's estimates" (GOV/2025/10).

<sup>161</sup> GOV/2021/39.

<sup>162</sup> From August 2019 (GOV/2019/32) and November 2020 (GOV/2020/51), IAEA reports state that Iran had produced uranium enriched up to 4.5% U-235, rather than 5% U-235.

IAEA inspectors detected highly enriched uranium particles in the Fordow facility containing up to 83.7% u-235. Iranian officials told the IAEA that Iran had produced the particles unintentionally. The IAEA has assessed that information provided by Iran to the agency "was not inconsistent with Iran's explanation for the origin of these particles." The agency has "no further questions on the matter" (GOV/2023/24).



## Research and Development

The JCPOA permits R&D with uranium using only several specified types of centrifuges and allows Iran to operate only one test cascade containing a maximum of 10 IR-4 centrifuges. Iran's current enrichment R&D activities include JCPOA-prohibited centrifuge types, locations, and configurations.

## Uranium Metal

The JCPOA prohibits Iran from “producing or acquiring plutonium or uranium metals or their alloys” and “conducting R&D on plutonium or uranium (or their alloys) metallurgy, or casting, forming, or machining plutonium or uranium metal.” Producing uranium or plutonium metals is a key step in producing nuclear weapons. These prohibitions' duration is 15 years. Iran has produced natural and enriched uranium metal, but IAEA reports indicate that Tehran has halted these activities.<sup>163</sup>

## Heavy Water

As noted, Iran's stock of heavy water exceeded the JCPOA-required limit of 130 metric tons on two occasions since the P5+1 began implementing the agreement. Beginning in November 2019, IAEA reports have noted that Iran has on several additional occasions exceeded this limit. The IAEA “has lost continuity of knowledge in relation to the production and current inventory” of heavy water in Iran.<sup>164</sup>

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<sup>163</sup> GOV/2021/39; GOV/2022/24. Iran has not since resumed these activities, according to subsequent reports from Grossi.

<sup>164</sup> GOV/2025/8.

## Appendix B. IAEA Special Inspections

As noted, Iran's obligations under its Additional Protocol to provide access to certain locations are unclear; Tehran may refuse to grant the IAEA access to certain facilities. In such a case, the IAEA Director General could call for a special inspection; the inspection could require approval from the IAEA Board of Governors. According to the IAEA, an inspection is deemed to be special when it is executed in addition to IAEA routine inspections, "involves access to information or locations" that the state has not identified to the IAEA as part of the agency's implementation of safeguards in that country, or if the agency "considers that information made available" by the state, including government explanations and "information obtained from routine inspections, is not adequate for the IAEA to fulfil its responsibilities under the [comprehensive safeguards] agreement."<sup>165</sup> Such inspections "are foreseen in all Agency safeguards agreements, principally as a means for the Agency to resolve unforeseen verification problems," according to a 1991 IAEA document.<sup>166</sup> Paragraph 73 of the model safeguards agreement, INFCIRC 153, states that comprehensive safeguards agreements should provide for the IAEA's ability to "make special inspections," subject to certain procedures, if the agency

considers that information made available by the State, including explanations from the State and information obtained from routine inspections, is not adequate for the Agency to fulfill its responsibilities under the Agreement.

According to the 1991 document, a special inspection could be triggered by the IAEA's receipt of "plausible information, which is not adequately explained by the State or otherwise resolved" by other IAEA inspections that the country has "nuclear material in a nuclear activity" outside of IAEA safeguards, or that the state has an undeclared nuclear facility that it had been required to report to the agency.

The IAEA Director General "has the authority ... to determine the need for, and to direct the carrying out of, special inspections," according to another 1991 IAEA paper.<sup>167</sup> In the event that the IAEA argues for a special inspection in a country, the agency and the government "must hold immediate consultations," according to the 1991 paper. Any dispute regarding the inspection request must be resolved according to dispute settlement provisions described in INFCIRC 153. However, paragraph 18 of INFCIRC 153 states that

if the Board, upon report of the Director General, decides that an action by the State is essential and urgent in order to ensure verification that nuclear material subject to safeguards under the Agreement is not diverted to nuclear weapons or other nuclear explosive devices the Board shall be able to call upon the State to take the required action without delay, irrespective of whether procedures for the settlement of a dispute have been invoked.

If the state refuses the inspection, the IAEA Board of Governors can take action according to paragraph 19 of INFCIRC 153, including reporting the matter to the UN Security Council.<sup>168</sup>

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<sup>165</sup> *IAEA Safeguards Glossary*. According to that glossary, special inspections can also be used "to verify the information contained in special reports." States with comprehensive safeguards agreements are required to submit a special report to the IAEA if there is a "loss of nuclear material exceeding specified limits" or if "containment and surveillance measures have been unexpectedly changed from those specified in the Subsidiary Arrangements." The IAEA negotiates changes to such arrangements with the state if alterations to the country's nuclear facilities necessitate such changes.

<sup>166</sup> GOV/INF/613, May 29, 1991.

<sup>167</sup> GOV/2554, November 12, 1991.

<sup>168</sup> *Ibid.*

## Appendix C. Iranian Noncompliance with Its IAEA Safeguards Agreement

The November 2003 report (GOV/2003/75) from then-IAEA Director General ElBaradei to the agency's Board of Governors details what the September 2005 board resolution described as "Iran's many failures and breaches of its obligations to comply with its safeguards agreement."

The report stated that

Iran has failed in a number of instances over an extended period of time to meet its obligations under its Safeguards Agreement with respect to the reporting of nuclear material and its processing and use, as well as the declaration of facilities where such material has been processed and stored.

The report detailed some of these failures and referenced other failures described in two earlier reports (GOV/2003/40 and GOV/2003/63) from ElBaradei to the IAEA board.<sup>169</sup>

According to GOV/2003/40, Iran failed to declare the following activities to the agency:

- The importation of natural uranium, and its subsequent transfer for further processing.
- The processing and use of the imported natural uranium, including the production and loss of nuclear material, and the production and transfer of resulting waste.

Additionally, Iran failed to

- declare the facilities where nuclear material (including the waste) was received, stored, and processed;
- provide in a timely manner updated design information for a research reactor located in Tehran; as well as
- provide in a timely manner information on two waste storage sites.

GOV/2003/63 stated that Iran failed to report uranium conversion experiments to the IAEA.

According to GOV/2003/75, Iran failed to report the following activities to the IAEA:

- The use of imported natural uranium hexafluoride for the testing of centrifuges, as well as the subsequent production of enriched and depleted uranium.
- The importation of natural uranium metal and its subsequent transfer for use in laser enrichment experiments, including the production of enriched uranium, the loss of nuclear material during these operations, and the production and transfer of resulting waste.
- The production of a variety of nuclear compounds from several different imported nuclear materials, and the production and transfer of resulting wastes.
- The production of uranium targets and their irradiation in the Tehran Research Reactor, the subsequent processing of those targets (including the separation of plutonium), the production and transfer of resulting waste, and the storage of unprocessed irradiated targets.

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<sup>169</sup> Those reports are available at <http://www.iaea.org/Publications/Documents/Board/2003/gov2003-40.pdf> and <http://www.iaea.org/Publications/Documents/Board/2003/gov2003-63.pdf>.

Iran also failed to provide the agency with design information for a variety of nuclear-related facilities, according to the report. These included the following:

- A centrifuge testing facility.
- Two laser laboratories and locations where resulting wastes were processed.
- Facilities involved in the production of a variety of nuclear compounds.
- The Tehran Research Reactor (with respect to the irradiation of uranium targets), the hot cell facility where the plutonium separation took place, as well as the relevant waste handling facility.

In addition, the report cited Iran's "failure on many occasions to co-operate to facilitate the implementation of safeguards, through concealment" of its nuclear activities.

## Appendix D. IAEA Reports Cited

Relevant IAEA JCPOA reports published beginning July 1, 2019:

- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/INF/2019/8, July 1, 2019
- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/INF/2019/9, July 8, 2019
- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/2019/32, August 30, 2019
- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Acting Director General, GOV/2019/55, November 11, 2019
- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Acting Director General, GOV/INF/2019/17, November 18, 2019
- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/2020/5, March 3, 2020
- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/2020/26, June 5, 2020
- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/2020/41, September 4, 2020
- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/2020/51, November 11, 2020
- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/2021/10, February 23, 2021
- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/2021/28, May 31, 2021
- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/2021/39, September 7, 2021
- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/2021/51, November 17, 2021
- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/2022/4, March 3, 2022

- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/2022/24, May 30, 2022
- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/2022/39, September 7, 2022
- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/2022/62, November 10, 2022
- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, GOV/2023/8, February 28, 2023
- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, International Atomic Energy Agency, GOV/2023/24, May 31, 2023
- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, International Atomic Energy Agency, GOV/2023/39, September 4, 2023
- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, International Atomic Energy Agency, GOV/2023/57, November 15, 2023
- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, International Atomic Energy Agency, GOV/2024/7, February 26, 2024
- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, International Atomic Energy Agency, GOV/2024/26, May 27, 2024
- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, International Atomic Energy Agency, GOV/2024/41, August 29, 2024
- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, International Atomic Energy Agency, GOV/2024/61, November 19, 2024
- *Verification and Monitoring in the Islamic Republic of Iran in Light of United Nations Security Council Resolution 2231 (2015)*, Report by the Director General, International Atomic Energy Agency, GOV/2025/8, February 26, 2025.

## **Appendix E. Extended Remarks by William Foster Regarding Possible NPT Article II Violations**

On July 10, 1968, then-Arms Control and Disarmament Agency Director William Foster testified before the Senate Foreign Relations Committee about the NPT. In response to a question regarding the type of nuclear activities prohibited by Article II of the treaty, Foster supplied the following statement:

### **Extension of Remarks by Mr. Foster in Response to Question Regarding Nuclear Explosive Devices**

The treaty articles in question are Article II, in which non-nuclear-weapon parties undertake “not to manufacture or otherwise acquire nuclear weapons or other nuclear explosive devices,” and Article IV, which provides that nothing in the Treaty is to be interpreted as affecting the right of all Parties to the Treaty “to develop research, production and use of nuclear energy for peaceful purposes...in conformity with Articles I and II of this Treaty.” In the course of the negotiation of the Treaty, United States representatives were asked their views on what would constitute the “manufacture” of a nuclear weapon or other nuclear explosive device under Article II of the draft treaty. Our reply was as follows:

“While the general intent of this provision seems clear, and its application to cases such as those discussed below should present little difficulty, the United States believe [sic] it is not possible at this time to formulate a comprehensive definition or interpretation. There are many hypothetical situations which might be imagined and it is doubtful that any general definition or interpretation, unrelated to specific fact situations could satisfactorily deal with all such situations.

“Some general observations can be made with respect to the question of whether or not a specific activity constitutes prohibited manufacture under the proposed treaty. For example, facts indicating that the purpose of a particular activity was the acquisition of a nuclear explosive device would tend to show non-compliance. (Thus, the construction of an experimental or prototype nuclear explosive device would be covered by the term ‘manufacture’ as would be the production of components which could only have relevance to a nuclear explosive device.) Again, while the placing of a particular activity under safeguards would not, in and of itself, settle the question of whether that activity was in compliance with the treaty, it would of course be helpful in allaying any suspicion of non-compliance.

“It may be useful to point out, for illustrative purposes, several activities which the United States would not consider per se to be violations of the prohibitions in Article II. Neither uranium enrichment nor the stockpiling of fissionable material in connection with a peaceful program would violate Article II so long as these activities were safeguarded under Article III. Also clearly permitted would be the development, under safeguards, of plutonium fueled power reactors, including research on the properties of metallic plutonium, nor would Article II interfere with the development or use of fast breeder reactors under safeguards.”



## Author Information

Paul K. Kerr  
Specialist in Nonproliferation

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