



**IAEA**

*Atoms for Peace and Development*

## Board of Governors

**GOV/INF/2021/28**

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# Verification and monitoring in the Islamic Republic of Iran in light of United Nations Security Council resolution 2231 (2015)

*Report by the Director General*

1. This report of the Director General to the Board of Governors and, in parallel, to the United Nations Security Council (Security Council), is on the Islamic Republic of Iran's (Iran's) implementation of its nuclear-related commitments under the Joint Comprehensive Plan of Action (JCPOA) in relation to its enrichment-related activities. It provides an update on developments since the Director General's previous reports.<sup>1</sup>

## Activities Related to Enrichment

2. As previously reported,<sup>2</sup> on 17 April 2021, the Agency verified at the Pilot Fuel Enrichment Plant (PFEP) at Natanz that Iran had begun the production of UF<sub>6</sub> enriched up to 60% U-235 by feeding UF<sub>6</sub> enriched up to 5% U-235 simultaneously into the two cascades of IR-4 centrifuges and IR-6 centrifuges in research and development (R&D) lines 4 and 6, respectively.<sup>3</sup> According to Iran's declaration to the Agency on that date, the enrichment level of the UF<sub>6</sub> produced at PFEP was 55.3% U-235. The Agency took a sample of the produced UF<sub>6</sub> for destructive analysis to independently verify the enrichment level declared by Iran.

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<sup>1</sup> GOV/2021/10, GOV/INF/2021/17, GOV/INF/2021/19, GOV/INF/2021/20, GOV/INF/2021/21, GOV/INF/2021/22, GOV/INF/2021/23, GOV/INF/2021/24, GOV/INF/2021/26 and GOV/INF/2021/27.

<sup>2</sup> GOV/INF/2021/26.

<sup>3</sup> Using the mode of production described in GOV/INF/2021/22, para. 3, first bullet.

3. On 21 April 2021, the Agency verified that Iran had changed the mode by which it was producing UF<sub>6</sub> enriched up to 60% U-235 at PFEP. The Agency verified that Iran was feeding UF<sub>6</sub> enriched up to 5% U-235 into the cascade of IR-6 centrifuges in R&D line 6 to produce UF<sub>6</sub> enriched up to 60% U-235 and feeding the tails produced from this cascade into the cascade of IR-4 centrifuges in R&D line 4 to produce UF<sub>6</sub> enriched up to 20% U-235.<sup>4</sup> Iran declared to the Agency that it had been using this mode of production since 18 April 2021. Iran also declared that the enrichment levels of the UF<sub>6</sub> samples it had taken from R&D lines 4 and 6 on 20 April 2021 were 20.3% U-235 and 59.6% U-235, respectively. However, according to Iran, fluctuations of the enrichment levels of UF<sub>6</sub> were experienced for both product streams.

4. The destructive analysis (DA) sample of the enriched UF<sub>6</sub> taken by the Agency at PFEP on 17 April 2021 is still to be analysed.<sup>5</sup> On 22 April 2021, the Agency took environmental samples from a sampling point at PFEP, for analysis. Over the next few days, the Agency will take further DA samples of the enriched UF<sub>6</sub> produced at PFEP, for analysis. The Agency will report the results of its analysis of the samples, as necessary.

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<sup>4</sup> Using the mode of production described in GOV/INF/2021/22, para. 3, second bullet.

<sup>5</sup> GOV/INF/2021/26, para. 3.