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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.¹

Activities Related to Enrichment

2. As previously reported, on 4 January 2021, Iran started the production of UF₆ enriched up to 20% U-235 at the Fordow Fuel Enrichment Plant (FFEP) in Unit 2 using six cascades configured as three sets of two interconnected cascades containing a total of 1044 of IR-1 centrifuges.²

3. On 28 January 2021, the Agency received from Iran an updated design information questionnaire (DIQ) for FFEP. According to the updated DIQ, Iran plans to use eight cascades of IR-1 and/or IR-6 centrifuges to enrich uranium in Unit 2 at FFEP.³ The DIQ indicates that these cascades may be operated in any one of the following three modes:

- a. Eight cascades of IR-1 and/or IR-6 centrifuges enriching UF₆ up to 5% U-235.
- b. Four sets of two interconnected cascades of IR-1 centrifuges enriching UF₆ up to 20% U-235.

¹ GOV/2020/51, GOV/INF/2020/16, GOV/INF/2020/17, GOV/INF/2021/1, GOV/INF/2021/2, GOV/INF/2021/3 and GOV/INF/2021/8.

² GOV/INF/2021/2, para. 5.

³ JCPOA, 'Annex I – Nuclear-related measures', Section H.

- c. Two cascades of IR-6 centrifuges enriching UF_6 up to 5% U-235 and feeding one or more of the interconnected cascades to enrich UF_6 up to 20% U235.
4. In a letter dated 1 February 2021, Iran informed the Agency that two cascades of IR-6 centrifuges would be installed in Unit 2 at FFEP. These two IR-6 cascades will be fed with natural UF_6 to produce UF_6 enriched up to 5% U-235 to directly feed the cascades enriching up to 20% U-235, i.e. to be operated in mode (c) above.
5. The updated DIQ also indicated that a second feed station will be installed at FFEP for operational mode (c).