

IRAN'S NUCLEAR PROGRAM: PRE- AND POST-INTERIM DEAL

November 2013

Fordow Enrichment Plant

	<i>Pre-Deal</i>	<i>Post-Deal</i>
696 operating IR-1* centrifuges	Enriching to 20%	Allowed to enrich but not above 5%
2,710 installed IR-1 centrifuges	Not operating	Not allowed to operate, not allowed to link cascades

Natanz Enrichment Plant

	<i>Pre-Deal</i>	<i>Post-Deal</i>
8,840 operating IR-1 centrifuges	Enriching to 3.5%	Allowed to enrich but not above 5%
6,620 installed IR-1 centrifuges	Not operating	Not allowed to operate
1,004 IR-2m** centrifuges	Not operating	Not allowed to operate
		No further centrifuges installed; some existing centrifuges to be replaced with same type of machine

* First generation Iranian centrifuge, all enrichment currently being done from this model

**Second generation Iranian centrifuge, supposedly capable of enriching up to five times as fast as IR-1 model

Other Terms

20% enriched uranium	Pre-Deal 133.1 kilogram stockpile as UF ₆ *	Post-Deal No more produced; of existing stockpile half diluted to 3.5%, half converted into uranium oxide for use as reactor fuel (can be reconverted back into enrichable form)
3.5% enriched uranium	Pre-Deal 4,872 kilogram stockpile as UF ₆	Post-Deal Stockpile remains; production continues. New 3.5% to be converted into uranium oxide for reactor fuel
Arak heavy water reactor	Pre-Deal Construction underway	Post-Deal Activation and testing of reactor not allowed, but construction continues
International inspections	Pre-Deal Limited in time and location; usually occurred every one or two weeks at known facilities	Post-Deal Now allowed daily at Fordow and Natanz; still limited to declared facilities
Time to produce 20kg HEU**	Pre-Deal 59 days using just operating centrifuges; 31 if using all installed capacity	Post-Deal 95 days using just operating centrifuges; 46 if using all installed capacity

These terms will be in place for six months, after which they can be renewed by mutual consent.

*Uranium hexafluoride; compound used, in gas form, in the enrichment process

**Highly-enriched uranium; uranium enriched above 90%, suitable for use as fissile material in a nuclear weapon