



BIPARTISAN POLICY CENTER

NOVEMBER 16, 2012 IAEA REPORT OVERVIEW					
	NATANZ FUEL ENRICHMENT PLANT	NATANZ PILOT FUEL ENRICHMENT PLANT			FORDOW FUEL ENRICHMENT PLANT
		IR-1	IR-2M	IR-4	
CENTRIFUGES ENRICHING	9,156	328	176	176	696
TOTAL CENTRIFUGES INSTALLED	10,414	328	176	176	2,784
PRODUCT ENRICHMENT	3.5%	19.7%	N/A	N/A	19.7%
PRODUCED SINCE LAST REPORT	503kg	8.9kg	N/A	N/A	20.4kg
TOTAL PRODUCED	5,145kg	92.8kg	N/A	N/A	64.5kg
ENRICHMENT RATE	161kg/month	3.3kg/month	N/A	N/A	6.8kg/month
HIGHEST ENRICHMENT RATE	161kg/month (current)	3.3kg/month (current)	N/A	N/A	6.8kg/month (current)
TOTAL 3.5% STOCKPILE		3,881kg			
TOTAL 20% STOCKPILE		91.2 kg			

TIME TO PRODUCE 20 KG HEU AT NATANZ USING TWO-STEP BATCH RECYCLING (assuming 7,027 SWU/ year)					
CYCLE	FEEDSTOCK ENRICHMENT	FEEDSTOCK QUANTITY	PRODUCT ENRICHMENT	PRODUCT QUANTITY	TIME
FIRST	3.5%	734 kg	19.7%	62 kg	16 days
SECOND	19.7%	153.2 kg (62 kg from 1 st cycle + 91.2 kg from stockpile)	90%	20 kg	8 days
TOTAL					28 days

TIME TO PRODUCE 20 KG HEU AT NATANZ USING THREE-STEP BATCH RECYCLING					
CYCLE	FEEDSTOCK ENRICHMENT	FEEDSTOCK QUANTITY	PRODUCT ENRICHMENT	PRODUCT QUANTITY	TIME
FIRST	3.5%	3,739 kg	19.7%	316 kg	79 days
SECOND	19.7%	407 kg (316 kg from 1 st cycle + 91.2 kg from stockpile)	55.4%	71.4 kg	13 days
THIRD	55.4%	71.4 kg	86.3%	21 kg	4 days
TOTAL					103 days

TIME TO PRODUCE 20 KG HEU AT NATANZ FROM 20% ENRICHED URANIUM (assuming 7,027 SWU/ year)					
CYCLE	FEEDSTOCK ENRICHMENT	FEEDSTOCK QUANTITY	PRODUCT ENRICHMENT	PRODUCT QUANTITY	TIME
FIRST	19.7%	155 kg	90%	20 kg	8 days