

Table A4. Approximate quantities of material subject to Agency safeguards at the end of 2008

Type of material	Quantity of material (SQs) <sup>a</sup>			Quantity in SQs
	Comprehensive safeguards agreements <sup>b</sup>	INFCIRC/66 <sup>c</sup> type agreement	Voluntary offer agreements	
<b>Nuclear material</b>				
Plutonium <sup>d</sup> contained in irradiated fuel and in fuel elements in reactor cores	105 657	1 070	15 154	121 881
Separated plutonium outside reactor cores	1 429	5	10 009	11 443
HEU (equal to or greater than 20% <sup>235</sup> U)	267	1	49	317
LEU (less than 20% <sup>235</sup> U)	15 006	146	795	15 947
Source material <sup>e</sup> (natural and depleted uranium and thorium)	7 576	108	1 379	9 063
U-233	19	—	—	19
<b>Total significant quantities</b>	<b>129 954</b>	<b>1 330</b>	<b>27 386</b>	<b>158 670</b>
<b>Non-nuclear material<sup>f</sup></b>				
Heavy water (tonnes)	0.7	449.3	—	—

<sup>a</sup> SQ: significant quantity. Defined as the approximate amount of nuclear material for which the possibility of manufacturing a nuclear explosive device cannot be excluded. Significant quantities take into account unavoidable losses due to conversion and manufacturing processes and should not be confused with critical masses. They are used in establishing the quantity component of the Agency's inspection goal.

<sup>b</sup> Covering safeguards agreements pursuant to the NPT and/or the Treaty of Tlatelolco and other CSAs; includes facilities in Taiwan, China.

<sup>c</sup> Covering facilities in India, Israel and Pakistan.

<sup>d</sup> The quantity includes an estimated 11 520 SQs of plutonium in irradiated fuel, which is not yet reported to the Agency under the reporting procedures agreed to (the non-reported plutonium is contained in irradiated fuel assemblies to which item accountancy and containment/surveillance measures are applied), and plutonium in fuel elements loaded into cores.

<sup>e</sup> This table does not include material within the terms of subparagraphs 34(a) and (b) of INFCIRC/153 (Corrected).

<sup>f</sup> Non-nuclear material subject to Agency safeguards under INFCIRC/66/Rev.2 type agreements.