

APPROVED 1540 COMMITTEE MATRIX

The information in the matrices originates primarily from national reports and is complemented by official government information, including that made available to inter-governmental organizations. The matrices are prepared under the direction of the 1540 Committee.

The 1540 Committee intends to use the matrices as a reference tool for facilitating technical assistance and to enable the Committee to continue to enhance its dialogue with States on their implementation of Security Council Resolution 1540.

The matrices are not a tool for measuring compliance of States in their non-proliferation obligations but for facilitating the implementation of Security Council Resolutions 1540 (2004), 1673 (2006), 1810 (2008), 1977 (2011), 2055 (2012) and 2325 (2016). They do not reflect or prejudice any ongoing discussions outside of the Committee, in the Security Council or any of its organs, of a State's compliance with its non-proliferation or any other obligations. Information on voluntary commitments is for reporting purpose only and does not constitute in any way a legal obligation arising from resolution 1540 or its successive resolutions.

Matrix entries are only indicators of fact and not indicators of the degree of compliance under resolution 1540 (2004) and its successor resolutions. Thus:

An “X” in any data field signifies only that the 1540 Committee considers that a State has taken the steps required, and/or has provided specific references to the applicable legal basis or executive behaviour as evidence of such steps. An “X” against any data field does not necessarily signify that a State has met in full its 1540 obligations for that data field.

A “?” in any data field signifies that the references to legislative or other measures may not be directly relevant or are incomplete.

A “NA” (Not Applicable) in any data field signifies that the data field is not applicable to that State where through legally binding instruments States specified that they do not possess related materials or facilities.

A blank in any data field signifies that there is insufficient information available to enter an “X” or “?” against a particular data field.

State:	Republic of Ghana
Date of Report:	5 November 2004
Dates of Additional Reports:	2 March 2015
Date of Approval:	9 December 2020

I. OP 1 and related matters from OP 5, OP 8 (a), (b), (c) and OP10

Adherence to legally binding instruments, membership of organisations, participation in arrangements and statements made.	Relevant information (i.e. signing, deposit of instrument of accession, ratification, etc)	Remarks (information refers to the page of the English version of the national report or an official web site)	
1	Nuclear Non-Proliferation Treaty (NPT)	Deposit 4 May 1970	
2	Nuclear Weapons Free Zone/ Protocol(s)	Treaty of Pelindaba: Deposit 27 June 2011	
3	International Convention for the Suppression of Acts of Nuclear Terrorism	Signed 6 November 2006	
4	Convention on Physical Protection of Nuclear Material (CPPNM)	Deposit 16 October 2002	
5	2005 Amendment to the CPPNM	Deposit 12 December 2012	
6	Comprehensive Nuclear-Test-Ban Treaty (CTBT) (not in force)	Deposit 14 June 2011	
7	Chemical Weapons Convention (CWC)	Deposit 9 July 1997	
8	Biological Weapons Convention (BWC)	Deposit 6 June 1975	
9	Geneva Protocol of 1925	Deposit 3 May 1967	
10	1997 International Convention for the Suppression of Terrorist Bombings	Deposit 6 September 2002	
11	1999 International Convention for the	Deposit 6 September 2002	

	Suppression of the Financing of Terrorism		
12	2005 Protocol to the Convention for the suppression of unlawful acts against the safety of maritime navigation		
13	2005 Protocol to the Protocol for the suppression of unlawful acts against the safety of fixed platforms located on the continental shelf		
14	2010 Convention on the Suppression of Unlawful Acts Relating to International Civil Aviation	Deposit 4 June 2018	
15	Other relevant regional legally binding instruments	Bamako Convention on the Ban of the Import into Africa and the Control of Transboundary Movement and Management of Hazardous Wastes within Africa, signed 2 July 2004 OAU Convention on the Prevention and Combating of Terrorism, deposit 6 November 2002 Protocol to the OAU Convention on the Prevention and Combating of Terrorism, signed 28 January 2005	
16	International Atomic Energy Agency (IAEA)	Since 28 September 1960	
17	Directly relevant Arrangements	HCoC	
18	Statement on non-provision of WMD and related materials to non-State actors	Stated that “Ghana remains committed to the global effort to achieve a world free of nuclear weapons”; “It is only through the universal adherence to the international nuclear disarmament and non-proliferation regimes that the spread of nuclear weapons can be curbed and the preservation of mankind can be guaranteed”; “Ghana has resolved to comply with Resolution 1540 adopted under Chapter VII of the UN Charter”.	
19	Membership in relevant international, regional or sub-regional organisations	African Union (AU) Economic Community of West African States (ECOWAS) Inter-Governmental Action Group against Money Laundering in West Africa (GIABA) Egmont Group of Financial Intelligence Units International Maritime Organization (IMO) World Health Organization (WHO) World Customs Organization (WCO) and Signed WCO Declaration on implementation of Framework of Standards to secure and facilitate global trade (SAFE Framework of Standards) World Organisation for Animal Health (OIE) International Criminal Police Organization (INTERPOL) State party to the 2005 Revised Cotonou Agreement, as revised (ACP member)	

II. OP 2 - Nuclear Weapons (NW), Chemical Weapons (CW) and Biological Weapons (BW)

National legislation which prohibits persons or entities to engage in one of the following activities and its enforcement		National legal framework						Enforcement and civil/criminal penalties			Remarks
		X / ?			Source document of national implementation law	X / ?			Source document		
		N W	C W	B W		N W	C W	B W			
1	manufacture	X			NW: Nuclear Regulatory Authority Act 895 of 2015, Section 56 (manufacture) Radiation Protection Board Legislative Instrument (LI 1559) of 1993, Sections 5 and 9 (Control and use of radiation sources / radioactive material / license to manufacture radioactive material)	X			NW: Nuclear Regulatory Authority Act 895 of 2015, Section 78 (alters)		
2	acquire	X	X	X	NW/CW/BW: Anti-Terrorism Act 762 of 2008, as amended, Section 10 (acquires terrorist property) NW: Nuclear Regulatory Authority Act 895 of 2015, Section 56 (acquire) Radiation Protection Board Legislative Instrument (LI 1559) of 1993, Section 9 (License to acquire radioactive material) BW: The Prevention and Control of Pests and Diseases of Plants Act, 1965, Part II	X	X	X	NW/CW/BW: Anti-Terrorism Act 762 of 2008, as amended, Section 10 (penalty) NW: Nuclear Regulatory Authority Act 895 of 2015, Section 78 (receives) Radiation Protection Board Legislative Instrument 1993 (LI 1559), Section 15 (importation) BW: The Prevention and Control of Pests and Diseases of Plants Act, 1965, Part III (Penalty)		
3	possess	X	X	X	NW/CW: Criminal Code Act 29 of 1960, as amended, Section 192 (Explosives & every other substance) Anti-Terrorism Act 762 of 2008, as amended, Section 8 (possesses property for use in terrorist act)	X	X	X	NW/CW: Criminal Code Act 29 of 1960, as amended, Section 192 (First Degree Felony – penalty proscribed in Section 296 of Criminal Procedure Act 30 of 1960) Anti-Terrorism Act 762 of 2008, as amended, Section 8 (penalty)		

					<p>NW: Nuclear Regulatory Authority Act 895 of 2015, Section 56 (possess) Radiation Protection Board Legislative Instrument (LI 1559) of 1993, Sections 5 and 9 (possess device or radioactive material; licence to own)</p> <p>BW: The Prevention and Control of Pests and diseases of Plants Act, 1965, Part I (keep – disease) Anti-Terrorism Act 762 of 2008, as amended, Section 8 (possesses property for use in terrorist act)</p>				<p>NW: Nuclear Regulatory Authority Act 895 of 2015, Section 78 (??) Radiation Protection Board Legislative Instrument 1993 (LI 1559), Section 15 (failure to produce licence)</p> <p>BW: The Prevention and Control of Pests and diseases of Plants Act, 1965, Part III (Penalty) Anti-Terrorism Act 762 of 2008, as amended, Section 8 (penalty)</p>	
4	develop									
5	transport	X	X	X	<p>NW/CW/BW: Maritime Security Act 675, 2004, art. 61 (an explosive, incendiary, biological or chemical substance or device or any other injurious substance or device that may be used to endanger the safety) Criminal Code Act 29 of 1960, as amended by the Criminal Offences (Amendment) Act 849 of 2012, Section 192A (Trafficking in Explosives) Anti-Terrorism Act 762 of 2008, as amended, Sections 17 (vessel; aircraft), 40 (defines conveyance; property & weapon)</p> <p>NW: Atomic Energy Commission Act (Act 588) of 2000, Section 14 (Regulations) Radiation Protection Board Legislative Instrument (LI 1559) of 1993, Section 5</p> <p>BW: The Prevention and Control of Pests and diseases of Plants Act, 1965, Part I</p>	X	X	X	<p>NW/CW/BW: Maritime Security Act. 675, 2004, art. 5 (Appointment of security recognized organizations that possess knowledge in respect of the identification and detection of weapons, dangerous substances and devices and art. 63 (Power to seize and detain items) Criminal Code Act 29 of 1960, as amended by the Criminal Offences (Amendment) Act 849 of 2012, Section 192A (Ten years imprisonment) Anti-Terrorism Act 762 of 2008, as amended, Sections 17 (penalty), 24 (detain conveyance)</p> <p>NW: Radiation Protection Board Legislative Instrument (LI 1559) of 1993, Section 15</p> <p>BW: The Prevention and Control of Pests and diseases of Plants Act, 1965, Part III (Penalty)</p>	
6	transfer	X	X	X	<p>NW/CW/BW: Anti-Terrorism Act 762 of 2008, as amended, Section 6 (provides, makes available)</p>	X	X	X	<p>NW/CW/BW: Anti-Terrorism Act 762 of 2008, as amended, Section 6 (penalty)</p>	

				<p>Export and Import Act, 1995 (Act 503), Section 12 (restrictions of export and import)</p> <p>NW: Nuclear Regulatory Authority Act 895 of 2015, Section 78 (transfers) Radiation Protection Board Legislative Instrument (LI 1559) of 1993, Sections 5 (sell, dispose of or lease, loan) and 9 (licence to sell)</p> <p>BW: The Prevention and Control of Pests and diseases of Plants Act, 1965, Part I</p>			<p>Export and Import Act, 1995 (Act 503), Section 14 (penalty)</p> <p>NW: Nuclear Regulatory Authority Act 895 of 2015, Section 78 (penalty) Radiation Protection Board Legislative Instrument 1993 (LI 1559), Section 15 (penalty)</p> <p>BW: The Prevention and Control of Pests and diseases of Plants Act, 1965, Part III (Penalty) Export and Import Act, 1995 (Act 503), Section 14</p>			
7	use	X	X	X	<p>NW/CW/BW: Anti-Terrorism Act 762 of 2008, as amended, Section 1(1) (prohibition of terrorist act), 2(f) (radioactive or harmful substances; toxic chemicals; microbial or biological agents or toxins), 40 (definitions)</p> <p>NW: Nuclear Regulatory Authority Act 895 of 2015, Section 56 (1) (use) Atomic Energy Commission Act (Act 588) of 2000, Section 14 (Regulations) Radiation Protection Board Legislative Instrument (LI 1559) of 1993, Sections 5 (licence for use) and 9 (uses device or radioactive material)</p> <p>BW: The Prevention and Control of Pests and diseases of Plants Act, 1965, Part I</p>	X	X	X	<p>NW/CW/BW: Anti-Terrorism Act 762 of 2008, as amended, Section 1(2) (penalty)</p> <p>NW: Nuclear Regulatory Authority Act 895 of 2015, Section 78, 79 (penalties for use) Radiation Protection Board Legislative Instrument 1993 (LI 1559), Section 15 fail to produce licence)</p> <p>BW: The Prevention and Control of Pests and diseases of Plants Act, 1965, Part III (Penalty)</p>	
8	attempt to engage in abovementioned activities	X	X	X	<p>NW/CW/BW: Criminal Procedure Code, Section 153 (attempt to commit an offence)</p>	X	X	X	<p>NW/CW/BW: Criminal Procedure Code, Section 153 (penalty)</p>	
9	participate as an accomplice in	X	X	X	<p>NW/CW/BW: Criminal Code Act 29 of 1960, as amended, Section 20 (Abetment of Crime)</p>	X	X	X	<p>NW/CW/BW: Criminal Code Act 29 of 1960, as amended, Section 20 (Penalty same as for Crime)</p>	

	abovementioned activities				Anti-Terrorism Act 762 of 2008, as amended, Sections 11-18 (support; harbouring; providing lethal device; recruit; provide training; incite, promote, solicit property; provide facilities; arrange meetings) Anti-Terrorism regulations, L.I.2181 of 2012, Section 2 (Organisation associated with proliferation of weapons of mass destruction) Economic and Organised Crime Act 804, 2010 (defines "serious offence")				Anti-Terrorism Act 762 of 2008, as amended, Sections 11-18 (Penalties) Anti-Terrorism regulations, L.I.2181 of 2012, Section 10 (Penalties) Economic and Organised Crime Act 804, 2010 (Penalties)	
10	assist in abovementioned activities	X	X	X	NW/CW/BW: Criminal Code Act 29 of 1960, as amended, Section 20 (Abetment of Crime) Anti-Terrorism Act 762 of 2008, as amended, Section 11-18 Anti-Terrorism regulations, L.I.2181 of 2012, Section 2 (Organisation associated with proliferation of weapons of mass destruction) Nuclear Regulatory Authority Act 895 of 2015, Section 56 Economic and Organised Crime Act 804, 2010 (defines "serious offence")	X	X	X	NW/CW/BW: Criminal Code Act 29 of 1960, as amended, Section 20 (Abetment of Crime) Anti-Terrorism Act 762 of 2008, as amended, Section 11-18 Anti-Terrorism regulations, L.I.2181 of 2012, Section 10 (Penalties) Economic and Organised Crime Act 804, 2010 (Penalties)	
11	finance abovementioned activities	X	X	X	NW/CW/BW: Anti-Terrorism Act (Act 762), 2008, as amended, Sections 7 and 10 Anti-Terrorism Regulations, L.I.2181 of 2012, Sections 1 and 2 (Organisation associated with proliferation of weapons of mass destruction) Anti-Money Laundering Act 749 of 2008, Section 1 (Terrorist Act) Anti-Money Laundering Regulations, L.I.1987 of 2011 Economic and Organised Crime Act 804, 2010, Section 74 (terrorist financing is "serious offence")	X	X	X	NW/CW/BW: Anti-Terrorism Act (Act 762), 2008, as amended, Sections 7 and 10 Anti-Terrorism Regulations, L.I.2181 of 2012, Sections 6 (Freezing of Funds) and 10 (Penalties) Anti-Money Laundering Act 749 of 2008, Sections 3 (Penalty), 4 (Financial Intelligence Centre), 47 (Freezing of funds) Anti-Money Laundering Regulations, L.I.1987 of 2011 Economic and Organised Crime Act 804, 2010 (Penalties)	
12	abovementioned activities related to means of delivery ¹									

1. Means of delivery: missiles, rockets and other unmanned systems capable of delivering nuclear, chemical, or biological weapons that are specially designed for such use.

III. OP 3 (a) and (b) - Account for/Secure/Physically protect NW, CW and BW, including Related Materials ²

Measures to establish domestic controls to prevent the proliferation of NW, CW, BW, and their means of delivery; controls over related materials		National legal and/or regulatory framework					Enforcement and civil/criminal penalties					Remarks
		X / ?			Source document	X / ?			Source document			
		N W	C W	B W *		N W	C W	B W				
1	Measures to account for production	X	?	?	<p>NW: INFCIRC/226 (Safeguards Agreement and Additional Protocol) Atomic Energy Commission Act n. 588, 2000 Radiation Protection Board Legislative Instrument 1993 (LI 1559) Sections 7 (notifications of sale; acquisition, storage, installation, use & type of facility), 9 (licence) Nuclear Regulatory Authority Act 895 of 2015, Section 21 (an activity as defined in Section 93)</p> <p>CW: Environmental Protection Agency Act n. 490, 1994 (regulate import, export, manufacture, distribution, sale and use of Chemicals / Pesticides)</p> <p>BW: Biosafety Act 831 of 2011, Sections 2, 11, 12 (Genetically modified organisms)</p>	X	?	?	<p>NW: Radiation Protection Board Legislative Instrument 1993 (LI 1559), Section 15 (Penalties) Guide No. GRPB-G7: Enforcement of Regulations Nuclear Regulatory Authority Act 895 of 2015, Sections 71-79 (Nuclear Regulatory Authority)</p> <p>CW: Environmental Protection Agency Act n. 490, 1994, Section 13 (Penalties) Hazardous Chemicals Committee, Section 10</p> <p>BW: Biosafety Act 831 of 2011, Sections 3, 4 (National Biosafety Authority), 33, 34 (Inspectors), 41 (Offences and Penalties)</p>			
2	Measures to account for use	X	?	?	<p>NW: INFCIRC/226 (Safeguards Agreement and Additional Protocol) Atomic Energy Commission Act n. 588, 2000 Radiation Protection Board Legislative Instrument 1993 (LI 1559) Nuclear Regulatory Authority Act 895 of 2015, Section 21</p>	X	?	?	<p>NW: Regulatory Authority Information System (RAIS) Radiation Protection Board Legislative Instrument 1993 (LI 1559), Section 15 Guide No. GRPB-G7: Enforcement of Regulations; Nuclear Regulatory Authority Act 895 of 2015, Sections 71-79 (Nuclear Regulatory Authority)</p>			

				<p>CW: Environmental Protection Agency Act n. 490, 1994 (Chemicals / Pesticides) Plants and Fertilizer Act 803 of 2010</p> <p>BW: Biosafety Act 831 of 2011, Sections 2, 11, 12 Plants and Fertilizer Act 803 of 2010 (quarantine of pests/diseases) Public Health Act 851 of 2012, Parts I, III, Section 133 (reporting/keep record of certain diseases), 134 (food borne diseases), Seventh Schedule (WHO Regulations)</p>			<p>CW: Environmental Protection Agency Act n. 490, 1994 (Chemicals/ Pesticides) Hazardous Chemicals Committee Plants and Fertilizer Act 803 of 2010</p> <p>BW: Biosafety Act 831 of 2011, Sections 3, 4 (National Biosafety Authority), 33, 34 (Inspectors), 41 (Offences and Penalties) Plants and Fertilizer Act 803 of 2010 Public Health Act 851 of 2012, Section 165</p>	
3	Measures to account for storage	X	?	<p>NW: INFCIRC/226 (Safeguards Agreement and Additional Protocol) Atomic Energy Commission Act n. 588, 2000, Section 14 Radiation Protection Board Legislative Instrument 1993 (LI 1559), Sections 5, 9, 10 (conditions of storage) Nuclear Regulatory Authority Act 895 of 2015, Section 21 (any activity involving nuclear material)</p> <p>CW: Environmental Protection Agency Act n. 490, 1994 (Chemicals/ Pesticides) Plants and Fertilizer Act 803 of 2010</p> <p>BW: Plants and Fertilizer Act 803 of 2010 Biosafety Act 831 of 2011, Sections 12, 13</p>	X	?	<p>NW: Radiation Protection Board Legislative Instrument 1993 (LI 1559), Section 15 Guide No. GRPB-G7: Enforcement of Regulations Nuclear Regulatory Authority Act 895 of 2015, Sections 71-79 (Nuclear Regulatory Authority)</p> <p>CW: Environmental Protection Agency Act n. 490, 1994 (Chemicals/ Pesticides) Hazardous Chemicals Committee Plants and Fertilizer Act 803 of 2010</p> <p>BW: Plants and Fertilizer Act 803 of 2010 Biosafety Act 831 of 2011, Sections 3, 4 (National Biosafety Authority), 33, 34 (Inspectors), 41 (Offences and Penalties)</p>	
4	Measures to account for transport	X	?	<p>NW: Atomic Energy Commission Act n. 588, 2000 (regulations to secure safe transport)</p>	X	?	<p>NW: Radiation Protection Board Legislative Instrument 1993 (LI 1559), Section 15 Guide No. GRPB-G6: Safe Transport of Radioactive Material</p>	

				<p>Radiation Protection Board Legislative Instrument 1993 (LI 1559) Section 5 (transport), 10 (conditions of transport)</p> <p>Nuclear Regulatory Authority Act 895 of 2015, Sections 28, 51 (Requirements for transportation of radioactive material)</p> <p>Road Traffic Act 683 of 2004, Sections 84-86 (hazardous goods)</p> <p>CW: Environmental Protection Agency Act n. 490, 1994 (Chemicals/ Pesticides) Road Traffic Act 683 of 2004, Sections 84-86 (hazardous goods) Plants and Fertilizer Act 803 of 2010</p> <p>BW: Plants and Fertilizer Act 803 of 2010 Road Traffic Act 683 of 2004, Sections 84-86 (hazardous goods) Biosafety Act 831 of 2011, Section 15</p>			<p>Guide No. GRPB-G7: Enforcement of Regulations Nuclear Regulatory Authority Act 895 of 2015, Sections 71-79 (Nuclear Regulatory Authority)</p> <p>Road Traffic Act 683 of 2004, Sections 85, 87, 132 (hazardous goods)</p> <p>CW: Environmental Protection Agency Act n. 490, 1994 (Chemicals/ Pesticides) Hazardous Chemicals Committee Road Traffic Act 683 of 2004, Sections 85, 87, 132 (hazardous goods) Plants and Fertilizer Act 803 of 2010</p> <p>BW: Plants and Fertilizer Act 803 of 2010 Road Traffic Act 683 of 2004, Sections 85, 87, 132 (hazardous goods) Biosafety Act 831 of 2011, Sections 3, 4 (National Biosafety Authority), 33, 34 (Inspectors), 41 (Offences and Penalties)</p>			
5	Measures to secure production	X	?	?	X	?	?	<p>NW: Atomic Energy Commission Act n. 588, 2000 Radiation Protection Board Legislative Instrument 1993 (LI 1559) Nuclear Regulatory Authority Act 895 of 2015, Section 21, 23</p> <p>CW: Environmental Protection Agency Act n. 490, 1994 (Chemicals /Pesticides)</p> <p>BW: Biosafety Act 831 of 2011, Sections 12, 19, Fourth Schedule (risk assessment)</p>	<p>NW: Guide no. GRPB-G4: Inspection Guide No. GRPB-G7: Enforcement of Regulations; Nuclear Regulatory Authority Act 895 of 2015, Sections 71-79 (Nuclear Regulatory Authority)</p> <p>CW: Environmental Protection Agency Act n. 490, 1994 (Chemicals/Pesticides) Hazardous Chemicals Committee</p> <p>BW: Biosafety Act 831 of 2011, Sections 3, 4 (National Biosafety Authority), 33, 34 (Inspectors), 41 (Offences and Penalties)</p>	

6	Measures to secure use	X	?	?	<p>NW: Atomic Energy Commission Act n. 588, 2000 Radiation Protection Board Legislative Instrument 1993 (LI 1559) Nuclear Regulatory Authority Act 895 of 2015, Section 21, 23</p> <p>CW: Environmental Protection Agency Act n. 490, 1994 (Chemicals/Pesticides)</p> <p>BW: Biosafety Act 831 of 2011, Sections 12, 19, Fourth Schedule (risk assessment) Public Health Act 851 of 2012, Parts I, III, Section 133, 134, Seventh Schedule (WHO Regulations)</p>	X	?	?	<p>NW: Guide no. GRPB-G4: Inspection Guide No. GRPB-G7: Enforcement of Regulations; Nuclear Regulatory Authority Act 895 of 2015, Sections 71-79 (Nuclear Regulatory Authority)</p> <p>CW: Environmental Protection Agency Act n. 490, 1994 (Chemicals/Pesticides) Hazardous Chemicals Committee</p> <p>BW: Biosafety Act 831 of 2011, Sections 3, 4 (National Biosafety Authority), 33, 34 (Inspectors), 41 (Offences and Penalties) Public Health Act 851 of 2012, Section 165</p>
7	Measures to secure storage	X	?	?	<p>NW: Atomic Energy Commission Act n. 588, 2000 Radiation Protection Board Legislative Instrument 1993 (LI 1559) Nuclear Regulatory Authority Act 895 of 2015, Section 21, 35, 46 (radioactive waste)</p> <p>CW: Environmental Protection Agency Act n. 490, 1994 (Chemicals/Pesticides)</p> <p>BW: Biosafety Act 831 of 2011, Sections 12, 19, Fourth Schedule (risk assessment)</p>	X	?	?	<p>NW: Guide no. GRPB-G4: Inspection Guide No. GRPB-G7: Enforcement of Regulations; Nuclear Regulatory Authority Act of 2015, Sections 71-79 (Nuclear Regulatory Authority)</p> <p>CW: Environmental Protection Agency Act n. 490, 1994 (Chemicals/Pesticides) Hazardous Chemicals Committee</p> <p>BW: Biosafety Act 831 of 2011, Sections 3, 4 (National Biosafety Authority), 33, 34 (Inspectors), 41 (Offences and Penalties)</p>
8	Measures to secure transport	X	?	?	<p>NW: Guide no. GRPB-G6: Safe Transport of Radioactive Material Nuclear Regulatory Authority Act 895 of 2015, Section 21, 51 (Requirements for transportation of radioactive material) Road Traffic Act 683 of 2004, Sections 84-86 (hazardous goods)</p>	X	?	?	<p>NW: Guide No. GRPB-G6: Safe Transport of Radioactive Material Guide No. GRPB-G7: Enforcement of Regulations; Nuclear Regulatory Authority Act 895 of 2015, Sections 71-79 (Nuclear Regulatory Authority) Road Traffic Act 683 of 2004, Sections 85, 87,</p>

				<p>CW: Environmental Protection Agency Act n. 490, 1994 (Chemicals/Pesticides) Road Traffic Act 683 of 2004, Sections 84-86 (hazardous goods)</p> <p>BW: Road Traffic Act 683 of 2004, Sections 84-86 (hazardous goods) Biosafety Act 831 of 2011, Section 13, Third Schedule</p>			<p>132 (hazardous goods)</p> <p>CW: Environmental Protection Agency Act n. 490, 1994 (Chemicals/Pesticides) Hazardous Chemicals Committee Road Traffic Act 683 of 2004, Sections 85, 87, 132 (hazardous goods)</p> <p>BW: Road Traffic Act 683 of 2004, Sections 85, 87, 132 (hazardous goods) Biosafety Act 831 of 2011, Sections 3, 4 (National Biosafety Authority), 33, 34 (Inspectors), 41 (Offences and Penalties)</p>	
9	Physical protection measures	X	?	<p>NW: Nuclear Regulatory Authority Act 895 of 2015, Section 40 (assessment of adequacy of physical protection measures before commissioning of installation)</p> <p>BW: Biosafety (Management of Biotechnology) Regulations, 2007 (L.I. 1887)</p>	X	?	<p>NW: Nuclear Regulatory Authority Act 895 of 2015, Sections 76-85 (Offences, penalties and appeals)</p> <p>BW: Biosafety (Management of Biotechnology) Regulations, 2007 (L.I. 1887)</p>	
10	Personnel Reliability	?		<p>NW: Atomic Energy Commission Act 588 of 2000, Section 14 Radiation Protection Board Legislative Instrument 1993 (LI 1559)</p>	?		<p>NW: Guide no. GRPB-G1: Qualification and Certification of radiation protection personnel</p>	

2. Related materials: materials, equipment and technology covered by relevant multilateral treaties and arrangements, or included on national control lists, which could be used for the design, development, production or use of nuclear, chemical and biological weapons and their means of delivery.

* Information required in this section may also be available in the State's Confidence Building Measures report, if submitted to the BWC Implementation Support Unit (online at: [http://www.unog.ch/80256EE600585943/\(httpPages\)/4FA4DA37A55C7966C12575780055D9E8?OpenDocument](http://www.unog.ch/80256EE600585943/(httpPages)/4FA4DA37A55C7966C12575780055D9E8?OpenDocument))

IV. OP 3 (a) and (b) - Account for/Secure/Physically protect NW including Related Materials (NW specific)

Measures to establish domestic controls to prevent the proliferation of NW, and their means of delivery; controls over related materials		Source document	Remarks
1	National regulatory authority	Ghana Atomic Energy Commission (GAEC) Atomic Energy Commission Act n. 588, 2000 Nuclear Regulatory Authority Nuclear Regulatory Authority Act 895 of 2015, Section 3	
2	Licensing of nuclear installations/entities/ use of materials	Atomic Energy Commission Act 588 of 2000 Radiation Protection Board Legislative Instrument 1993 (LI 1559) Guide no. GRPB-G2: Notification and Authorization by licensing Nuclear Regulatory Authority Act 895 of 2015, Section 21, Sections 71-79 (Nuclear Regulatory Authority)	
3	IAEA Safeguards Agreements	Safeguards Agreement in force 17 February 1975 Additional Protocol in force 11 June 2004	
4	IAEA Code of Conduct on Safety and Security of Radioactive Sources	Notification pursuant to GC(47)/RES/7.B1 Ghana Atomic Energy Commission (PoC)	
5	Supplementary Guidance on the Import and Export of Radioactive Sources of the Code of Conduct on the Safety and Security of Radioactive Sources		
6	IAEA Incident and Trafficking Database	Participates in the database	
7	Integrated Nuclear Security Support Plan (INSSP) / International Physical Protection Advisory Service (IPAS)	INSSP Approved	

8	Applying the physical protection recommendations in INFCIRC/225/Rev.5		
9	Other Agreements related to IAEA	<p>Agreement on the Privileges and Immunities of the IAEA, acceptance 16 December 1963</p> <p>Convention on Early Notification of a Nuclear Accident, deposit 5 September 2016</p> <p>Convention on Assistance in the Case of a Nuclear Accident or Radiological Emergency, 5 September 2016</p> <p>Convention on Nuclear Safety, deposit 1 June 2011</p> <p>Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management, deposit 1 June 2011</p> <p>Revised Supplementary Agreement Concerning the Provision of Technical Assistance by the IAEA (RSA), signature 30 January 1989</p> <p>African Regional Co-operative Agreement for Research, Development and Training Related to Nuclear Science and Technology (AFRA) - Fourth Extension, acceptance 21 April 2011</p> <p>Forum of Nuclear Regulatory Bodies in Africa</p>	
10	National legislation and regulations related to nuclear material including CPPNM	<p>The Security and Intelligence Agencies Act (Act 526) 1996</p> <p>Guides No. GRPB-G3, G5, G8 and G9</p> <p>Customs Division of Ghana Revenue Authority and Bureau of National Investigations collaborates in enforcement</p>	

V. OP 3 (a) and (b) - Account for/Secure/Physically protect CW including Related Materials (CW specific)

Measures to establish domestic controls to prevent the proliferation of CW, and their means of delivery; controls over related materials		Source document	Remarks
1	National CWC authority	Ministry of Environment, Science, Technology & Innovation (MESTI)	
2	Licensing/registration of installations/facilities/ persons/entities/use/ handling of related materials	Environmental Assessment Regulations of 1999, Part I(1), Schedule 1 (Agricultural chemicals and other chemical products and chemicals), Section 29 (Offence and penalty) Plants and Fertilizer Act 803 of 2010/ Plant Protection and Regulatory Services Directorate	
3	Old or abandoned chemical weapons		

VI. OP 3 (a) and (b) - Account for/Secure/Physically protect BW including Related Materials (BW specific)

Measures to establish domestic controls to prevent the proliferation of BW, their means of delivery; controls over related materials	Source document	Remarks
1 Licensing/registration of installations/facilities/ persons/entities/use/ handling of materials	Biosafety Act 831 of 2011, Sections 3, 4 (National biosafety Authority), 11, 12, 13, 33, 34 (Inspectors), 41 (Offences and Penalties) Plants and Fertilizer Act 803 of 2010 / Plant Protection and Regulatory Services Directorate Ministry of Environment, Science, Technology & Innovation (MESTI) is the focal point for the BWC	

VII. OP 3 (c) and (d) and related matters from OP 6 - Controls of NW, CW and BW, including Related Materials

Border controls and export and trans-shipment controls to prevent the proliferation of nuclear, chemical and biological weapons and their means of delivery including related materials		National legal framework					Enforcement and civil/criminal penalties					Remarks
		X / ?			Source document	X / ?			Source document			
		N W	C W	B W		N W	C W	B W				
1	Border control to detect, deter, prevent and combat illicit trafficking	X	X	X	<p>NW/CW/BW: Ghana Revenue Authority Act 791 of 2009 The Customs, Excise and Preventive Service (Management) Act, 1993 (P.N.D.C.L 330) Maritime Security Act 675 of 2004 The Immigration Act 573 of 2000 The Security and Intelligence Agencies Act (Act 526) 1996, Section 12</p> <p>CW: Environmental Protection Agency Act 490 of 1994 Plants and Fertilizer Act 803 of 2010</p> <p>BW: Environmental Protection Agency Act 490 of 1994 Animals (Control of Importation) Act 36 of 1952, Sections 2, 3 Plants and Fertilizer Act 803 of 2010 Public Health Act 851 of 2012</p>	X	X	X	<p>NW/CW/BW: Ghana Revenue Authority (Customs Division) Ghana Immigration Service Bureau of National Investigations</p> <p>CW: Environmental Protection Agency Environmental Protection Agency Act 490 of 1994, Part II Plant Protection and Regulatory Services Directorate</p> <p>BW: Environmental Protection Agency National Biosafety Authority Environmental Protection Agency Act 490 of 1994, Part II Plant Protection and Regulatory Services Directorate</p>			
2	Law enforcement to detect, deter, prevent and combat illicit trafficking	X	X	X	<p>NW/CW/BW: Ghana Revenue Authority Act 791 of 2009 The Customs, Excise and Preventive Service (Management) Act, 1993 (P.N.D.C.L 330) Maritime Security Act 675 of 2004 The Immigration Act 573 of 2000</p>	X	X	X	<p>NW/CW/BW: Ghana Revenue Authority (Customs Division) Ghana Immigration Service Bureau of National Investigations</p>			

				The Security and Intelligence Agencies Act (Act 526) 1996, Section 12				
3	Border control detection measures				X	X	?	<p>NW: Gamma Ray Scanner Personal Radiation Detectors for Customs Officials Ghana Communication Network (GC-NET)</p> <p>CW: Customs Chemical Analytical Laboratory Handheld Chemical Agent Detectors Ghana Communication Network (GC-NET)</p> <p>BW: Ghana Communication Network (GC-NET)</p>
4	Control of brokering							
5	Export control legislation in place	X	?	<p>NW: Radiation Protection Board Legislative Instrument 1993 (LI 1559), Section 5 Nuclear Regulatory Authority Act 895 of 2015, Sections 28, 29 Export and Import Act 1995 (Act 503) as amended by Export and Import amendment Act 585 of 2000, Section 6</p> <p>CW: Environmental Protection Agency Act 490 of 1994, Part II Plants and Fertilizer Act 803 of 2010 Export and Import Act 1995 (Act 503) as amended by Export and Import amendment Act 585 of 2000, Section 6</p> <p>BW: Biosafety Act 831 of 2011,(Genetically modified organisms) Section 14 Export and Import Act 1995 (Act 503) as amended by Export and Import amendment Act 585 of 2000</p>	X	?	?	<p>NW: Radiation Protection Board Legislative Instrument 1993 (LI 1559), Section 15 Nuclear Regulatory Authority Act 895 of 2015, Sections 71-79 (Nuclear Regulatory Authority Export and Import Act 1995 (Act 503) as amended by Export and Import amendment Act 585 of 2000;</p> <p>CW: Certificate by the Environment Protection Agency for exports of chemicals Environmental Protection Agency Act 490 of 1994, Part II Export and Import Act 1995 (Act 503) as amended by Export and Import amendment Act 585 of 2000</p> <p>BW: Biosafety Act 831 of 2011, Section 41 / National Biosafety Authority Export and Import Act 1995 (Act 503) as amended by Export and Import amendment Act 585 of 2000</p>

6	Licensing provisions and Authority	X	?	?	<p>NW: Nuclear Regulatory Authority Act 895 of 2015, Sections 28, 29 Atomic Energy Commission Act (Act 588) of 2000, Sec 9A (1) as Amended (Act 204) 1963) Radiation Protection Board Legislative Instrument 1993 (LI 1559), Section 5 Export and Import Act 1995 (Act 503) as amended by Export and Import amendment, Section 6</p> <p>CW: Environmental Protection Agency Act 490 of 1994, Part II Plants and Fertilizer Act 803 of 2010 Export and Import Act 1995 (Act 503) as amended by Export and Import amendment, Section 6</p> <p>BW: Plants and Fertilizer Act 803 of 2010 Biosafety Act 831 of 2011, (Genetically modified organisms), Sections 2, 3, 4, 13, 14, 15 Export and Import Act 1995 (Act 503) as amended by Export and Import amendment, Section 6</p>	X	?	?	<p>NW: Nuclear Regulatory Authority Act 895 of 2015, Sections 71-79 (Nuclear Regulatory Authority Radiation Protection Board Legislative Instrument 1993 (LI 1559), Section 15</p> <p>CW: Environmental Protection Agency Act 490 of 1994, Part II Plants and Fertilizer Act 803 of 2010</p> <p>BW: Plants and Fertilizer Act 803 of 2010 Ministry of Food and Agriculture Biosafety Act 831 of 2011, Section 41 / National Biosafety Authority</p>
7	Control lists of materials, equipment and technology	X	?	?	<p>NW: Nuclear Regulatory Authority Act 895 of 2015, Section 28, 29 Radiation Protection Board Legislative Instrument (LI 1559) 1993, Section 16</p> <p>CW: Environmental Protection Agency Act, 1994 Act 490, Section 63</p> <p>BW: Biosafety Act, 2011, (Act 831) Section 44</p>	X	?	?	<p>NW: Nuclear Regulatory Authority Act 895 of 2015 Sections 71-79 (Nuclear Regulatory Authority</p> <p>CW: Environmental Protection Agency Act, 1994 Act 490</p> <p>BW: Biosafety Act, 2011, (Act 831)</p>
8	Intangible technology transfers								

9	Inclusion of means of delivery								
10	End-user controls	X			NW: Nuclear Regulatory Authority Act 895 of 2015, Section 29 Radiation Protection Board Legislative Instrument (LI 1559) 1993, Sec 7 and 9	X			NW: Nuclear Regulatory Authority Act of 2015, Sections 71-79 (Nuclear Regulatory Authority Radiation Protection Board Legislative Instrument (LI 1559) 1993, Sec 7 and 9
11	Catch all clause								
12	Transit control	X	?		NW: Nuclear Regulatory Authority Act 895 of 2015, Section 28 BW: Biosafety Act 831 of 2011, (Genetically modified organisms) Section 15	X		?	NW: Nuclear Regulatory Authority Act 895 of 2015, Sections 71-79 (Nuclear Regulatory Authority) BW: Biosafety Act 831 of 2011, Section 41 / National Biosafety Authority
13	Trans-shipment control	X			NW: Nuclear Regulatory Authority Act 895 of 2015, Section 28	X			NW: Nuclear Regulatory Authority Act 895 of 2015, Sections 71-79 (Nuclear Regulatory Authority)
14	Re-export control								
15	Control over financing of exports/transshipments that would contribute to proliferation	X	X	X	NW/CW/BW: Anti-Terrorism Act 762, 2008 Anti-Terrorism Regulations, L.I.2181 of 2012, Sections 1 and 2 (Organisation associated with proliferation of weapons of mass destruction) Anti-Money Laundering Act 749 of 2008, Section 1 (Terrorist Act) Anti-Money Laundering Regulations, L.I.1987 of 2011 Economic and Organised Crime Act, 2010 (Terrorist financing)	X	X	X	NW/BW/CW: Anti-Terrorism Regulations, L.I.2181 of 2012, Sections 6 (Freezing of Funds) and 10 (Penalties) Anti-Money Laundering Act 749 of 2008, Sections 3 (Penalty), 4 (Financial Intelligence Centre), 47 (Freezing of funds) Anti-Money Laundering Regulations, L.I.1987 of 2011 Economic and Organised Crime Act, 2010
16	Control over services related to exports/transshipments that would contribute to	X	?	?	NW: Nuclear Regulatory Authority Act 895 of 2015, Section 28 ,29 Road Traffic Act, 2004 (Act 683) Part III, IV & V	X	?	?	NW: Nuclear Regulatory Authority Act 895 of 2015, Sections 71-79 (Nuclear Regulatory Authority Road Traffic Act, 2004 (Act 683) Part III, IV & V

	proliferation including transportation			CW: Road Traffic Act, 2004 (Act 683) Part III, IV & V BW: Road Traffic Act, 2004 (Act 683) Part III, IV & V			CW: Road Traffic Act, 2004 (Act 683) Part III, IV & V BW: Road Traffic Act, 2004 (Act 683) Part III, IV & V	
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VIII. OP 7 and 8 (d) - Assistance, Work with and inform Industry and Public, and other Information

1	Assistance offered	
2	Assistance Point of Contact (for assistance providers only)	
3	Assistance requested	
4	Action taken to work with and inform industry	Public education and awareness among the general populace, especially industry and commerce, whose activities include chemical or radiation processes. Activities will be undertaken through workshops, demonstrations and short drills and information dissemination through media. Offers training programmes in nuclear security and nuclear weapons disarmament protocols and issues.
5	Action taken to work with and inform the public	Public education and awareness among the general populace, especially industry and commerce, whose activities include chemical or radiation processes. Activities will be undertaken through workshops, demonstrations and short drills and information dissemination through media. Organizes awareness campaigns to sensitise public to report any suspicious activities.
6	Point of Contact	Ghana Atomic Energy Commission
7	Voluntary National Implementation Action Plan (NAP)	Submitted 29 April 2016 for the period 2015 to 2020
8	1540 Committee visits to States	Visit to Ghana from 12-15 October 2015 by the 1540 Group of Experts to assist Ghana, at their invitation, with the development of a voluntary National Implementation Action Plan