# NUCLEAR SAFETY AND RADIATION PROTECTION ACT, 1995 (REPEAL AND RE-ENACTMENT) BILL, 2019 ARRANGEMENT OF SECTIONS

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Commencement

# **FOR**

AN ACT TO REPEAL THE NUCLEAR SAFETY AND RADIATION PROTECTION ACT No. 19 OF 1995, AND RE-ENACT THE SAFETY AND RADIATION BILL, 2019 BY RE-ESTABLISHING THE NIGERIAN NUCLEAR REGULATORY AUTHORITY IN ORDER TO PROVIDE FOR NUCLEAR SECURITY AND SAFEGUARDS, AND FOR RELATED MATTERS

Sponsored by Hon. Anayo Edwin.

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4	BE IT ENACTED by the National Assembly of the Federal	
	Republic of Nigeria as follows-	
1	PART I - OBJECTIVES OF THE BILL	
2	1(1) The objectives of this Bill are to:	Objectives of
3	(a) allow for the beneficial and peaceful uses of nuclear energy and	the Bill
4	its applications;	
5	(b) provide an effective legal and regulatory framework for nuclear	
6	safety, nuclear security, safeguards of nuclear materials and radiation	
7	protection;	
8	(c) ensure adequate protection of people and the environment from	
) .	harmful effects of ionising radiation and other radiation risks, and the safety	
0	and security of radiation sources;	
1	(d) establish the Nigerian Nuclear Regulatory Authority with the	
2	functions and responsibilities set forth in this Bill for the purpose of	•
3	exercising regulatory control over the peaceful uses of ionising radiation	
4	and to guarantee its independence;	
5	(e) authorise the provision of a regulatory framework for civil	
6	liability for nuclear incidents or damage, and	
7	(f) enable Nigeria to fulfill its obligations under relevant	
8	international instruments.	

	l	PART II - ESTABLISHMENT OF THE NIGERIAN NUCLEAR REGULATORY
	2	AUTHORITY AND ITS GOVERNING BOARD
Establishment	3	2(1) There is hereby established a body which shall be known as the
of the Nigerian Regulatory Authority	4 .	Nigerian Nuclear Regulatory Authority (in this Bill referred to as "the
Authority	5	Authority")
•	6	(2) The Authority-
	7	(a) shall be a body corporate with perpetual succession and, a
•	8	common seal;
	9	(b) shall have financial autonomy;
	. 10	(c) may sue and be sued in its corporate name; and
	11	(d) may acquire, hold or dispose of any property, movable or
·	12	immovable for the purpose of carrying out any of its functions under this Bill.
	13	(3) The Authority shall be-
	14	(a) effectively independent in its safety-related decision-making;
	15	(b) able to make independent regulatory judgements and decisions at
	16	all stages in the lifetime of facilities and the duration of activities until release
	17	from regulatory control, under operational states and in accidents;
	18	(c) free from any pressure associated with political circumstances or
* = *	19	economic conditions, or pressure from government ministries, departments
	20	and agencies, authorised parties or other organisations;
	21	(d) able to give independent advice and provide reports to
	22	government ministries, departments and agencies, and governmental bodies
	23	on matters relating to the safety of facilities and activities.
	24	(4) The staff of the Authority shall have no direct or indirect interest in
	25	facilities and activities or authorised party beyond the interest necessary for
	26	regulatory purposes.
Establishment	27	3(1) There is hereby established for the Authority a Governing
and Membership of the Governing Borad	28	Board (in this Bill referred to as "the Board").
ar 44 666	29	(2) The Board shall consist of-

i	(a) the President as the Chairman (in the Bill referred to as the "the	•
2	Chairman";	
3	(b) the Director-General of the Authority, who shall be appointed	
4	by the President; and	
5	(c) the Ministers charged with responsibility for the following	1 No.
6	matters, that is-	·
7	(i) Defence;	
8	(ii) Interior;	
9	(iii) Mines and Steel development;	
10	(iv) Petroleum resources;	
11	(v) Energy;	
12	(vi) Environment;	
13	(vii) Finance;	
14	(viii) Justice ;and	•
15	(ix) Health.	
16	(d) National Security Adviser;	
17	(e) three (3) eminent Nigerians with practical experience in the	
18	Nuclear field who shall be appointed by the President.	
19	(3) The appointment of the members of the Board specified in	
20	subsection 2 (e) of this section shall be subject to confirmation by the Senate.	
21.	(4) The Board shall have a Secretary, who shall be a Legal	
22	Practitioner with not less than ten (10) years experience, to be appointed by	
23	the Director-General from the staff of the Authority.	
24	(5) The members of the Board shall be paid such allowances as	
25	applicable to Federal Boards, commissions and agencies	·
26	(6) The provisions of the Schedule to this Bill shall have effect with	
27	respect to the proceedings of the Board and the other matters mentioned	
28	therein.	
29	4(1) The Members of the Board shall serve for a term of four (4)	Tenure of Board
30	years and may, subject to satisfactory performance, be re-appointed for a	Members

	1 further term of four (4) years and no more.
	2 (2) The Members of the Board referred to in section 3(2)(e) shall serve
	3 on part-time basis.
acancy on	4 5(1) The office of a Member of the Board shall become vacant
e Board	5 where-
	6 (a) he resigns his appointment by notice addressed to the Chairman;
	7 (b) he becomes of unsound mind;
	8 (c) he becomes bankrupt or makes a compromise with his creditors;
	9 (d) he is convicted of a felony or of any other offence involving
	10 dishonesty or corruption;
	(e) he becomes incapable of carrying on the functions of his office
	12 either arising from an infirmity of mind or body;
	13 (f) he dies;
	14 (g) he completes his tenure of office; or
	(h) he is removed by the Chairman, being satisfied that it is not in the
	16 interest of the Authority or in the interest of the public for the person to continue
	as a Member of the Board.
	18 (2) Where a vacancy occurs in the Membership of the Board, it shall
	19 be filled by the appointment of a successor to hold office for the remainder of
÷	20 the term of office of his predecessor.
Functions of	21 6,-(1) The Board shall have responsibility for:
the Board	22 (a) the supervision of policy formulation by the Authority;
	23 (b) Considering and approving regulations proposed by the
	24 Authority;
	25 (c) Considering and approving annual reports and statement o
	26 accounts of the Authority;
	27 (d) appointing and approving fees for auditors:
	28 (e) considering and approving the audited accounts and annua
And the second section of the second	29 reports of the Authority; and
	30 (f) performing other functions as provided under this bill.

(c) establish standards for the protection of life, property and the

environment from the potentially harmful effects of ionising radiation,

while allowing beneficial practices involving exposure to ionising

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radiation;

1	(d) establish and maintain a system of authorisation of practices
2	involving nuclear materials, radioactive sources and equipment generating
3	ionising radiation;
4	(e) establish and implement, in cooperation with the relevant
5	ministries, departments and agencies, a system of control over the import
6	export, transit and trans-shipment of nuclear materials, radioactive sources,
7	ionising radiation generating machines, information and technology in order to
8	prevent diversion from their authorised uses;
9	(f) define and grant exemptions and clearances;
10	(g) monitor the existence and use of ionising radiation anywhere in
11	Nigeria;
12	(h) carry out inspections and any appropriate investigation and
13	enforce compliance with this Bill by concern persons and bodies in line with
14	the conditions of their authorisation;
15	(i) take enforcement measures where there has been a violation of this
16	Bill, applicable regulations or the terms and conditions of authorisations;
17	(j) define the obligations, of persons or entities authorised to conduct
18	activities or practices;
19	(k) prescribe fees payable for authorisations and other services
20	rendered under this Bill;
21	(l) publish a list of exposures that are subject of exclusion, which list
22	shall be available to the public;
23	(m) establish and maintain a system of records or registry for all
24	authorised practices and for material accountability for safety and safeguard
25	purposes;
26	(n) establish and maintain a national register for each category of
27	sources or practices involving ionising radiation and of persons authorised to
28	carry out an activity or practice, including records of all nuclear installations
29	and radiological facilities such as maps, diagrams, photographs, showing the
30	position and limits of these installations and facilities;

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1	(o) cooperate with the International Atomic Energy Agency in the
2	application of safeguards in accordance with the Safeguards Agreement
3 .	and any protocols thereto, between Nigeria and the International Atomic
4	Energy Agency, including conducting inspections and visits, carrying ou
5	complementary access and providing any assistance or information required
6	by designated International Atomic Energy Agency inspectors in the
7	fulfillment of their responsibilities;
8	(p) establish regulatory measures for the security of nuclear and
9	other radioactive material, and their associated facilities, including
10	measures for the detection, prevention and response to unauthorised or
11	malicious acts involving such material, or facilities;
12	(q) participate in the definition of the Design Basis Threat (DBT
13	for the implementation of security provisions;
14	(r) establish, in cooperation with other competent nationa
15	authorities, plans and procedures which shall be periodically tested and
16	assessed for coping with any radiation emergency and abnormal occurrence
17	involving nuclear material and radiation sources;
18	(s) regulate the safe promotion of nuclear research and
19	development, and radiation safety and security necessary to implement its
20	functions;
21	(t) liaise and foster cooperation with relevant national and
22	international bodies or institutions having similar objectives for the
23	effective performance of its functions under this Bill;
24,	(u) establish appropriate mechanism and procedures for informing
25	the public and other stakeholders about the regulatory process, and the
26	safety, health and environmental aspects of regulated activities and
27	practices, including incidents, accidents and abnormal occurrences;
28	(v) regulate the possession and application of radioactive
20	substances and devices emitting ionising radiation.

(w) regulate the introduction of radiation sources, associated

	facilities and activities, exposure of workers and the general public to ionising
	2 radiation;
	3 (x) perform all necessary functions to enable Nigeria meet its national
	4 and international safety, security and safeguards obligations in the application
	5 of nuclear energy and ionising radiation and in particular, establish and
	6 maintain a national system of accounting for and control of nuclear materials;
	7 (y) provide training, information and guidance on nuclear safety,
•	8 security, safeguards and radiation protection and approve radiation protection
	9 training programmes of all users and handlers of ionising radiation; and
•	10 (z) perform such other functions which are necessary for the full and
	11 efficient discharge of its functions under this Bill.
Powers of the	9(1) The Authority shall have power to:
Authority	(a) categorise practices and activities involving exposure to ionising
,	14 radiation;
	(b) acquire offices and other premises and establish such number of
	200 zonal and other offices as it may deem necessary with the approval of the Board
	17 for the proper performance of its functions under this Bill;
•	18 (c) notwithstanding the provisions of the Nigerian Minerals and
•	19 Mining Act or any other law, the Authority shall have power to regulate, as
	20 appropriate, the exploration, mining and milling of radioactive ores and other
	ores associated with the presence of radioactive substances;
	22 (d) accredit radiation safety service providers and approve their
	23 radiation protection training and other programmes;
•	24 (e) impose and review fines.
	25 (f) prescribe exposure limits and constraints for the purpose of
	26 limiting accidents and ensuring compliance;
	27 (g) obtain information, documents and opinions from private and
	28 public organizations or persons as may be necessary and appropriate for the
	29 conduct of its functions;
	30 (h) specify safety and security requirements for:

1	(i) short-term storage, for example by a user on its premises prior to	
2	further management option, including the time limit for such short-term	
3	storage;	
4	(ii) safety and security requirements for reuse or recycling of	•
5	disused sources; and	
6	(iii) long-term storage and disposal of disused sources.	
7	(2) The Authority shall, subject to the approval of the Board, have	
8	powers to enter into contracts or partnership with any international	
9	organisation, national governmental body, company, firm or person, which	
10	in its opinion shall facilitate the discharge of its functions.	
11	(3) The Authority may make regulations with respect to civil	
12.	liability for nuclear damage, prompt payment of compensation to the	.*
13	victims of nuclear accidents, establishment of Nuclear Damage Claims	
14	Committee and related matters.	
15	(4) The Authority shall, in furtherance of sections 8 and 9 of this	. 5.
16	Bill, on its own, carry out investigations of practices, radiation facilities and	•
17	any other nuclear installations including, exploration, mining and milling of	
18	radioactive ores to forestall any emergency or contingency.	
19	PART IV - MANAGEMENT, STAFF AND STRUCTURE OF THE AUTHORITY	
20	10(1) There shall be for the Authority, a Director-General, who	Appointment
21	shall be the chief adviser to the Board.	of the Directe General
22	(2) There shall be appointed by the President of the Federal	* * * * * * * * * * * * * * * * * * *
23	Republic of Nigeria for the Authority, a Director-General who shall be the	٠.
24	Chief Executive of the Authority and be responsible for the day-to-day	
25	administration of the affairs of the Authority.	
26	(3) The Director-General shall be a person of proven integrity and	
27	shall have not less than 12 years practical regulatory experience in the	
28	application of nuclear energy and ionising radiation in science and	e je se

technology, nuclear safety and radiation protection.

Tenure of Office and Removal	.1	11(1) The Director-General shall hold office:
of the Director- General	2	(a) for a term of five (5) years in the first instance and may be re-
	3	appointed for a further team of five (5) years; and
	4	(b) on such terms and conditions as may be specified in his letter of
	5	appointment.
	6	(2) Notwithstanding the provisions of subsection (1) of this section,
	7	the Director-General may:
	8	(a) resign his appointment by a notice in writing, addressed to the
•	9.	President through the Board; or
	10	(b) be removed by the President for inability to discharge the
	.11	functions of his office (whether arising from infirmity of mind or body or any
	12	other cause) or for misconduct or corruption;
	13	provided that the removal of the Director-General shall not take effect without
	14	the approval of the Senate.
Other Staff of the Authority	. 15	12(1) The Authority may, subject to the approval of the Board,
	16	appoint such other staff as it may deem necessary and expedient for the proper
	. 17	and efficient performance of the functions of the Authority; and on such terms
	18	and conditions as may be determined by the Board.
•	. 19	(2) Notwithstanding the provisions of subsection (1) of this section,
	20	employees of the Authority may also be appointed by way of transfer or
	21	secondment from any of the public services of the Federation or by contract.
Conditions of Service	22	13. Service in the Authority shall be subject to the provisions of the
	23	Pension Reform Act, Corporate Policy and Procedure Guide and such
	24	conditions of service as approved by the Board Accordingly, officers and
	25	employees of the Authority shall be entitled to pensions, gratuities and other
	26	retirement benefits as are prescribed under the Pension Reform Act as
e .	27	approved by the board.
Structure of the Authority	28	14(1) There shall be established within the Authority, the following
	29	departments:
•	30	(i) Department of Authorization and Enforcement;

2019	Nuclear Safety and Radiation Protection Act, 1995 (Repeal and Re-Enactment) Bill, 2	019 C 5131
1	(ii) Department of Nuclear Safety:	\$1.85 1
2	(iii) Department of Nuclear Security and Safeguards;	
3	(iv) Department of Medical and Industrial Application Safety;	
4	(v) Department of Waste, Transport and Environmental Safety;	
5	(vi) Department of Finance and Account;	
6	(vii) Department of Administration and Human Resources;	
7	(viii) Department of Planning, Research and Statistics;	
8	(ix) such other department as may be approved by the Board on the	
9	recommendation of the Director-General	
10	(2) Each department shall be headed by a General Manager who	
11	shall be appointed by the Authority on the recommendation of the Director-	
12	General or by way of promotion.	
13	PART <b>V</b> - FINANCIAL PROVISIONS	
14	15(1) There is established for the Authority fund in this Bill	Fund of the
15	referred to as ("the Fund") comprising:	Authority
16	(a) budgetary allocations from the Federal Government;	
17	(b) gifts, testamentary dispositions or grants, provided that such	•
18	are not inconsistent with the objectives and functions of the Authority;	
19	(c) all other financial assets that may, from time to time, be vested	•
20	in or accrue to the Authority in the course of performing its functions	
21	pursuant to this Bill;	· ·
22	(d) monies borrowed and capital raised by the Authority under this	
23	Bill or other enactments subject to the approval of the National Assembly;	
24	and and the second of the seco	
25	(e) all such other sums as may be received by the Authority from	
26	other sources provided that such are not inconsistent with the objectives and	
27	functions of the Authority.	
28	16(1) The Authority shall pay from the Fund established under	Application
29	section 15 of this Bill-	of the Fund
.30	(a) the cost of administration of the Authority;	

1	18. The Authority shall prepare and submit to the National	Annual and
2	Assembly not later than 31st March in each year a report on the activities of	audited reports
3	the Authority during the immediate preceding year, and shall include in the	•
4 .	report a copy of the audited accounts of the Authority for that year and of the	
5	auditor's report.	•
6	PART VI - ESTABLISHMENT OF THE NATIONAL NUCLEAR SECURITY	
7.	COMMITTEE	
8	19(1) There is established a National Nuclear Security	Establishment
9	Committee (in this Bill referred to as "the Nuclear Security Committee")	of the National Nuclear Security Committee
10	20(1) The Nuclear Security Committee shall consist of:	Composition of
11	(a) the National Security Adviser as the Chairman;	the Nuclear Securi Committee
12	(b) the Chief of Defence Staff as the Vice-Chairman;	
13	(c) the Solicitor-General of the Federation;	
14	(d) the Director-General of the National Intelligence Agency;	
15	(e) the Director-General of the Department of State Service;	· .
16	(f) the Inspector-General of the Nigerian Police Force;	
17	(g) the Comptroller-General of the Nigerian Customs Service;	
18	(h) the Comptroller-General of the Nigerian Immigration Service;	
19	(I) the Commandant-General of the Nigerian Security and Civil	
20	Defence Corps;	
21	(j) the Corps Marshal of the Federal Road Safety Corp;	
22	(k) the Director-General of the Authority;	
23	(1) the Chief Executive Officer of the Nigerian Atomic Energy	
24	Commission;	
25	(m) a representative of each of the following:	
26	(i) the Ministry of Foreign Affairs;	
27	(iii) the National Emergency Management Agency; and	***
28	(iv) one (1) other person to be appointed from within the Authority	
29	by the Director-General.	
20	(2) The Nuclear Security Committee shall meet at least twice	

	1	yearly provided that an emergency meeting may be convened as needed.
	2	(3) The quorum of the meeting of the Nuclear Security Committee is
	3	six (6) members.
	4	(4) The Chairman of the Nuclear Security Committee shall preside a
	5	meetings and in the absence of the Chairman, the Vice-Chairman, and in the
	6	absence of both, a member of the Committee elected by the members present
	7	from among their number, shall preside.
	8	(5) For the purpose of a meeting, a member may be represented by a
	9	proxy, not below the rank of a Director or its equivalent.
	10	(6) The Committee may request the presence of any person as it may
	11	deem necessary
unctions of ne Nuclear	12	21(1) The Nuclear Security Committee shall, in collaboration with
ecurity Committee	. 13	the Authority:
	14	(a) consider issues referred to it by the Director-Generalor any other
	15	member of the committee that may affect the security of the country, regarding
	16	nuclear and radiological installations and radioactive materials;
	17	(b) participate in conducting threat assessment to provide the basis for
	18	determining physical protection measures; and
-	19	© define and develop a response strategy to nuclear security
	20	incidences.
	-21	PART VII - NATIONAL RESEARCH INSTITUTE FOR NUCLEAR SAFETY AND
	22 -	RADIATION PROTECTION
stablishment the National	23	22(1) The Authority shall establish a "National Institute for Nuclear
stitute for uclear Safety	24	Safety and Radiation Protection(in this Bill referred to as "the Institute") either
d Radiation otection	25	independently or in collaboration with any University or other institution,
ppointment General	26	23(1) The Authority shall, with the approval of the Board, appoint
anager and her Staff of	27	for the Institute, a General Manager who shall be responsible to the Authority
e Institute	28	for the administration of the Institute.
	29	(2) The General Manager shall-
÷ **	30	(a) be a holder of a qualification not less than a Doctorate degree in

•		
	1	section, the Management Board may co-opt relevant stakeholder(s) or
	2	expert(s) to attend its meetings but the person(s) so co-opted shall not have a
	3	counting vote or be counted towards quorum.
Structure of the Institute and	4	26(1) The structure, staffing and other matters relating to the
Annual Reports	. 5	Institute shall be as determined by the Institute and approved by the Authority.
	6	(2) The Institute shall submit to the Authority for approval, such
	77	programmes as are in line with its functions.
	8	(3) The Institute shall, not later than the 31st day of January in each
	9	year, submit to the Authority, an estimate of its income and expenditure for the
	10	next succeeding year which estimate shall form an integral part of the budget
· •	11	
Functions and Powers of the	12	
Institute	13	Authority shall have the functions and powers to-
•	14	(a) carry out research on matters relating to radiation protection,
	15	nuclear safety, security, safeguards and nuclear law;
	16	(b) provide certified training programmes in radiation protection,
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	17	nuclear safety, security, safeguards and nuclear law;
	18	(c) review safety assessments as a means of evaluating compliance
	19	with safety requirements for all facilities and activities and to determine the
	20	measures that need to be taken to ensure safety as may be directed by the
	21	Director-General;
	22	(d) operate standard laboratories for sampling, calibration and
	23	analyses of radioactivity and radiation sources; and
	24	(e) charge reasonable and commensurate fees for its services.
	25	PART VIII - AUTHORISATION
Graded approach	26	28(1) The Authority shall apply the principle of graded approach in
	27	granting authorisation.
Authorisation	28	29(1) No practice mentioned in this Bill shall be conducted or
	29.	undertaken unless so authorised or exempted by the Authority.
	30	(2) Justified practices shall be authorised.
ę.		The state of the s

1	(3) Subject to the provisions of this Bill, the procedure and
2	requirements for authorisation shall be established through regulations
3	which shall-
4	(a) be made in respect to all activities and facilities;
5	(b) establish the instances when authorisation may be required and
6	the exemptions;
7.	(c) be updated whenever it becomes necessary; and
8	(d) be available to the public free of charge.
9	(4) An application for authorisation shall be made in the manner
10	prescribed in the guideline for authorisation as may be issued from time to
11	time by the Authority under this Bill.
12	(5) Any person who intends to make an application for
13	authorisation to undertake any practice mentioned in this Bill, shall notify
14	the Authority of the intention through a letter addressed to the Director-
15	General and the applicant shall be required to furnish the Authority with
16	such information as the Authority may prescribe.
17	(6) An application for authorisation under this Bill shall be made to
18	the Authority specifying:
19	(a) the premises to which the application relates;
20	(b) the undertaking or the purposes of which those premises are
21	used;
22	(c) the description of the source of ionising radiation proposed to
23	be kept or used;
24	(d) the premises and the maximum quantity of radioactive material
25	or source of ionising radiation, the strength and the output of the source to be
26	kept or used there at any time;
27	(e) the manner in which the source of ionising radiation is proposed
28	to be used in the premises; and
29	(f) such other information as may be prescribed by the Authority.
30	(7) Upon receipt of an application under subsection (4) of this

	1 section, the General Managers of the relevant Departm	ent or any other officer
	2 directed by him shall inspect the premises to which the	
•	3 carry out such other investigations as required in section	
	4 (8) The Authority may-	
	5 (a) where it is satisfied with the information	tion submitted by the
	6 applicant, grant the authorisation subject to such r	egulations, terms and
	7 conditions as may be determined by the Authority from t	time to time: or
•	8 (b) refuse an application for authorisation, but	
	9 for the refusal, in writing.	
	10 (9) Where an application is granted, the Author	ity shall-
	(a) register the applicant in respect of those pre	the state of the s
	12 the keeping and use thereon of the radioactive materia	
· .	13 radiation of the description to which the application relat	
·	(b) Where the application relates to two or mo	· ·
.*	15 radiation; register the applicant in respect of the keepi	ng and use thereon of
	16 such one or more sources of ionising radiation as ma	av be specified in the
	17 registration.	y as opposited in the
	18 (10) On authorising a source or practice under	this section in respect
•	19 of any premises, the Authority shall furnish the registr	
	20 containing all particulars of the authorisation and sha	Il send a copy of the
	21 certificate to the relevant organs of government.	or and a dopy of the
Restriction on Transfer	22 30(1) No person shall assign, transfer or rec	eive, either totally or
	23 partially, any right or obligation specified in any licence is	under this Rillwithout
	24 authorisation from the Authority	and Difficulting
Validity of Authorisation	25 31(1) Authorisation granted pursuant to an	application shall be
	26 valid for the period stipulated in the licence unless otherw	ise determined by the
	27 Authority.	and the same of the
	28 (2) Any application for renewal of a licence shall	be submitted at least
	29 three months before the expiration of the licence.	Zaomittou de least
	30 (3) Issuance or renewal of a licence may be gra	anted in advance and

l , -	such licence shall take effect on the date of expiry of the current licence.	
2 .	32-(1) The Authority shall make publicly available, information on	Invalidation
3	the procedures and requirements for suspension, modification, revocation	of Licence
4.	or relinquishment of authorisation	
5	(2) The Authority may revoke, cancel, invalidate or suspend a	
6	licence granted by it where a licensee:	
7	(a) has obtained it by making a fraudulent or incorrect statement;	· ·
8	(b) has failed to comply with the written directives of the	
9	Authority;	
10	(c) has violated or omitted to comply with the conditions of the	
11	authorisation;	
12	(d) has failed to comply with the provisions of this Bill or any order	
13	issued for their implementation;	
14	(e) is prevented from performing his duty as authorised as a result	
15	of incapacity or for any other reason;	
16	(f) has exposed the public or the environment to doses of ionising	
17.	radiation beyond dose limits or constraints without the written consent of	
18	the Authority or has exposed the public or the environment to doses of	
19	ionising radiation beyond dose limits or constraints prescribed by the	
20	Authority; or	
21	(g) for whatever reason, is no longer entitled to the authorisation.	
22	33(1) No person shall site, construct, operate, or decommission a	Nuclear
23	nuclear installation without a licence issued by the Authority in accordance	Installations
24	with this Bill and the regulations made thereunder.	- de
25	(2) Upon receipt of an application under subsection (1) of this	÷
26	section, the following procedure shall ensue:	• .
27	(a) the applicant shall ensure that notice of the application is	
28	published in 3 national dailies not more than 7 days after the submission of	
29	the application, with an invitation to any person who is likely to be affected	
20	by the greating of a nuclear installation ligance nursuant to subsection (1) of	

1	this section to make representation to the Authority on the health, safety and
2	environmental issues connected with the application within 30 days of the date
3	of publication of the application;
4	(b) The Head of the relevant department or any other officers directed
5	by him shall inspect the site to which the application relates and carry out such
6	other investigations as required in furtherance of this Bill;
7	(c) an applicant for a licence to site a nuclear facility shall perform a
8	baseline survey of the site, including environmental impact assessment and
9	evaluation of radiological conditions prior to construction so as to develop
10	information for comparison at any time during the operation of the facility and
11	during incident or end life or decommissioning; and
12	(d) at the design stage of a nuclear facility, the applicant for
13	authorisation to construct and operate a nuclear facility shall prepare
14	decommissioning plans for approval by the Authority.
15	(3) Pursuant to subsection (2) of this section, an applicant for
16	authorisation to construct and operate a nuclear installation shall-
17	(a) Demonstrate to the Authority that adequate financial resources are
18	available to cover the costs associated with safe decommissioning, including
19	the management of resulting waste; and
20	(b) Provide financial assurances as may be defined by the Authority
21	before initial operation of an installation is authorised.
22	(4) Financial requirements to ensure proper decommissioning shall
23	be reviewed and updated as required by the Authority.
24	(5) The Authority shall submit a copy of any authorisation granted
25	pursuant to subsection (1) of this section to-
26	(a) the relevant State that is likely to be affected by the activity, action
27	or step of the applicant; or
28.	(b) such other persons and agencies that are likely to be affected as the
29	Authority may, from time to time, determine.
30	(6) The Authority may at any time during the construction of an

(3) The Nigerian Maritime Administration and Safety Agency or

(4) In the event of an emergency landing in Nigeria, of an aircraft

(5) The Nigerian Civil Aviation Authority shall in turn immediately

(6) The Authority shall have the power to inspect all vehicles.

any other relevant government agency shall in turn immediately notify the

Authority of the fact that a vessel is propelled by nuclear power or has on

which is propelled by nuclear power or which has on board any nuclear

material, the operator of the aircraft shall notify the Nigerian Civil Aviation

Authority that it is propelled by nuclear power or has on board nuclear

notify the Authority of the fact that an aircraft is propelled by nuclear power

vessels and aircrafts within the jurisdiction of Nigeria for nuclear or

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35.-(1) The production or supply to the public, of consumer products capable of causing exposure to ionising radiation without the express authorisation of the Authority is hereby prohibited:

Provided that where such authorisation is granted, it is the responsibility of the operator to ensure that those to whom the consumer products are being sold or supplied, are fully aware of the potential exposure to ionising radiation and of the full consequences of it.

- (2) The provisions of this section do not apply to consumer products that are exempted.
- (3) The Authority may issue a licence only where it is satisfied that the use of the consumer products shall not result to an undue radiation exposure to the users or to the environment.
- (4) An applicant for a licence shall furnish detailed information on the product, its intended use and the function to be served by the radionuclides and such other information as may be specified by the Authority.

Mining and Milling of Radioactive Ores

- **36.-**(1) Activities involving mining or milling of ores containing radioactive material are hereby prohibited except a licence to perform these activities is issued by the Authority.
- (2) The issuance of a licence for siting, construction, operation, decommissioning of a mine, processing facility, exploration, excavation, mining and milling of ores containing radioactive material, as well as the transport and storage of the product of the mining and milling activities and radioactive waste management shall be subject to the appropriate regulations as may be laid down by the Authority.
- (3) An applicant for a licence to conduct mining and milling of ores containing radioactive material shall submit to the Authority for approval, all plans, programmes and drawings related thereto, including radiation protection of personnel, the public and the environment, radioactive waste management, and decommissioning.
  - (4) The licence to be granted by the Authority shall be without

(b) requiring the person to whom the licence or registration relates, at such times and in such manner as may be specified in the registration, to furnish 2 the Authority with information as to the removal of nuclear material, 3 radioactive sources or equipment generating ionising radiation from those 4 5 premises to any other premises; (c) prohibiting nuclear material, prescribed and radioactive 6 substances or any source of ionising radiation from being sold or otherwise 7 supplied from those premises unless it or the container in which it is supplied 8 bears a label or other mark indicating that it is such a radiation source, or 9 nuclear material and describing the class or category to which it belongs, and in 10 either case complying with any requirements specified in the conditions in 11 12 relation to it; and (d) any licence required for sources of ionising radiation, and 13 practices mentioned in this Bill may be limited to a specific radiation source or 14 in relation to the nature and purpose of the activity or the practice specified for a 15 16 given installation. 17 PART IX - INSPECTIONS 41.-(1) The Authority shall designate inspectors who shall possess 18 required qualifications and training and shall issue them with appropriate 19 credentials indicating their legal status under this Bill. 20 21 (2) The Authority shall establish qualifications for inspectors and a training programme to ensure required high level of competence for the 22 23 inspectors (3) The Authority shall develop an inspection plan that includes 24 programmed and reactive inspection which may be announced or 25 26 unannounced. (4) The inspectors shall inspect licensed or proposed nuclear or 27 radiological installations, practices, nuclear material and other ionising 28 radiation sources; and facilities of radiation safety service providers in the 29 country to monitor compliance with the requirements of this Bill, any 30

Appointments

and Powers of Inspectors (b) inspect any plans, drawings, records, registers or documents

(i) the siting, design, construction, testing, development,

(ii) the health, safety, security or environmental aspects of any

(c) carry out tests and take samples, measurements and

(d) direct the owner or operator of any vehicle, ship or aircraft to

(e) direct operators of nuclear power installations, research

42. The inspector shall submit a report of the inspection or

Inspection Report

provide such information relating to the vehicle, ship or aircraft as he may

reactors and other facilities to carry out emergency drills and stop unsafe

investigation to the Authority for necessary or appropriate action within

commissioning, operation, decommissioning or abandonment of a facility

(iii) any matter relevant to the enforcement of this Bill;

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or an installation,

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activity covered by this Bill,

photographs of any installation;

operation and practices.

		1	such period as may be determined by the Authority.
	•	2	PART X - ENFORCEMENT POWERS
Enforcement Team		3	43(1) there shall be constituted by the Authority, an Enforcement
		4	Team which shall be responsible for the enforcement of this Bill.
		5	(2) The members of the Enforcement Team shall comprise-
		6	(a) Inspectors of the Authority;
	٠. '	7	(b) Legal officers; and
		8	(c) Law enforcement and security personnel.
		9	(3) Upon request by the Director-General, the Inspector-General of
		10	Police or any other law enforcement or security agency shall second or deploy
		11	to the Authority such number of officers as may from time to time be required
		12	to supplement the Enforcement Team of the Authority.
w		13	(4) The Enforcement Team shall assist the Authority to-
		14	(a) carry out investigation into any matter under this Bill;
		15	(b) arrest any person that contravenes the provisions of this Bill;
		.16	(c) in furtherance of this Bill, with or without warrant, enter into and
		17	search any premises in respect of which the Authority or the officer reasonably
		- 18	suspects that an activity contrary to the provisions of this Bill is being or is
		19	about to be carried on and assist in confiscating any material for such purpose
		20	found there; and
		- 21	(d) seal any facility involving the use or storage of nuclear material,
		22	radioactive sources or ionising radiation sources without authorisation as
		23	provided for under this Bill.
		24	(5) Members of the Enforcement Team shall be specially trained and
		25	certified on radiation protection and safety by the Authority for the purposes of
		26	this Bill.
Enforcement Measures		27	44(1) Where an authorised person or entity is found to be in
		28	violation of this Bill, applicable regulations or the terms and conditions of the
		29	authorisation, an inspector shall take the necessary enforcement actions
		30	commensurate with the seriousness of the violation and shall within 24 hours

1	of taking such measures submit a report to his immediate superior officer.
2	(2) In all cases, the person or entity subject to enforcement action
3	shall, within the time stipulated by the Authority, take such remedial
4	measures as the Authority may prescribe.
5	(3) Where there is a violation that is of minor safety or security
6	concern, the Authority may issue a warning in writing and determine the
7	period of time during which remedial action must be taken.
8	(4) Where there is an immediate safety or security hazard to people
9	or the environment, the Authority may require the person or entity subject to
10	enforcement action to suspend its activities until the situation has been
11	corrected; in such cases, the Authority may also suspend, revoke or modify
12	the terms and conditions of the authorisation.
13	(5) Where there is persistent or grave violation of the terms and
14	conditions of an authorisation or in cases of significant release of radioactive
15	material into the environment, the Authority may revoke the authorisation
16	and require the authorised person to remedy any unsafe condition.
17	(6) Enforcement action may also include one or more of the
18	following:
19	(a)corrective actions including verbal instructions from inspectors
20	imposition of additional regulatory requirements and conditions, and
21	written warnings;
22	(b) sanctions which may be administrative such as monetary fines
23	or administrative charges or criminal sanctions;
24	(c) an order for the authorised person or entity to prohibit worker
25	who do not meet the applicable requirements from engaging in the activity
26	or practice;
27	(d) confiscation of materials, sealing of premises and facilities o
28	closing down any authorised or unauthorised activities.
29	(7) Enforcement actions taken under this section shall remain is
30	force unless and until:

Regulations

and Guides

1 (a) withdrawn, reversed or modified by an action of the Authority; or 2 (b) altered through an administrative appeal or judicial review. 3 (8) The monetary fines shall be as specified in a list of penalties issued 4 from time to time by the Authority. 5 (9) All expenses incurred by the Authority in the process of confiscation, sealing, seizure, closure and management as a result of non-6 compliance shall be the responsibility of the violator of the Bill. 7 (10) Where an enforcement action is taken, any confiscated materials 8 shall be secured and managed by the Waste Management Organisation under 9 10 this Bill. 11 PART XI - REGULATIONS AND GUIDES 12 45.-(1) the Authority shall establish or adopt regulations and guides to specify the principles, requirements and associated criteria upon which its 13 regulatory judgement, decisions and actions are based. 14 15 (2) the regulations and guides referred to in subsection (1) shall be reviewed and revised as necessary to keep them updated and in accordance 16 with the relevant international safety standards, technical standards and 17 18 relevant experience gained. 19 (3) the Authority shall notify interested parties and the public of the 20 principles and associated criteria for safety established in its regulations and 21 guides and make all such regulations and guides free of charge and readily 22 available. 23 (4) the regulations and guides shall provide the framework for the regulatory requirement and conditions to be incorporated into individual 24 authorisations or applications for authorisation and identify the criteria to be 25 26 used in accessing compliance. 27 (5) The regulations and guides shall be kept consistent and comprehensive, and shall provide adequate coverage commensurate with 28 radiation risks associated with the facilities and activities, in accordance with a 29 30 graded approach.

(2) The following practices are not justified:

(a) practices, except for justified practices involving medical

exposure, that result in an increase in activity, by the deliberate addition of

radioactive substances or by activation, in food, feed, beverages, cosmetics

or any other commodity or product intended for ingestion, inhalation or

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	1	percutaneous intake by, or application to, a person;
	2	(b) practices involving the frivolous use of radiation or radioactiv
.*	3	substances in commodities or in consumer products such as toys and persona
	4	jewellery or adornments, which result in an increase in activity, by th
	5	deliberate addition of radioactive substances or by activation; and
•	6	(c) human imaging using radiation that is performed as a form of art of
	7	for publicity purposes.
	8	(3) The provisions of this section shall apply, in general, to all
	9	activities and facilities involving radiation exposure.
Basic requirements	10	48(1) The Authority shall-
exposure	11	(a) require that health professionals with responsibilities for medica
	12	exposures are specialised in the appropriate area and that they fulfill the
	13	requirements for education, training and competence in the relevant specialty
	14	and
	15	(b) ensure that the authorisation for medical exposures to be
	16	performed at a particular medical radiation facility allows qualified personne
	17	(radiological medical practitioners, medical physicists, radiographers and any
	18	other health professionals with specific duties in relation to the radiation
	19	protection of patients) to assume the responsibilities specified in this Bil
	20	where they:
	21	(i) are specialised in the appropriate area;
	22	(ii) meet the respective requirements for education, training and
	23	competence in radiation protection, as may be prescribed by the Authority; and
	24	(iii) are named in the registry maintained and updated by the relevant
•	25	professional bodies
sic requirements Occupational	26	49(1) The Authority shall establish and enforce requirements to
posure	27	ensure that protection and safety is optimised and shall enforce compliance
	28	with dose limits or established dose constraints for occupational exposure as
	29	specified in the regulation.
	30	(2) The Authority shall establish the responsibilities of employers and

- licensees shall make special arrangements for:
- (a) female workers, as necessary, for protection of the embryo or fetus and breastfed infants; and

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(b) protection and safety for persons under 18 years of age.

50.-(1) The Authority shall establish the responsibilities of relevant parties that are specific to public exposure, establish and enforce requirements for optimisation, and establish and enforce compliance with dose limits for public exposure.

Basic requirements for Public Exposure

- (2) The Authority shall establish the responsibilities of licensees, of suppliers, and of providers of consumer products in relation to the application of requirements for public exposure in planned exposure situations.
- (3) The Authority shall establish and enforce requirements for the optimisation of protection and safety for situations in which individuals are or could be subject to public exposure.

the results of optimisation of protection and safety;

(a) licencees, or the person or organisation responsible for facilities

(b) employers, in relation to occupational exposure;

and activities for which notification only is required;

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. •	1	(c) radiological medical practitioners, in relation to medical
	. 2	exposure; or
	3 -	(d) those persons or organisations designated to deal with emergency
	4	exposure situations or existing exposure situations.
	5	(4) Other parties who shall have specified responsibilities in relation
	6	to protection and safety:
•	7	(a) Suppliers of sources, providers of equipment and software, and
	8	providers of consumer products;
	9	(b) Radiation protection officers;
	10	(i) Referring medical practitioners;
	11	(ii) Medical physicists;
	12	(iii) Radiographers;
	13	(iv) Qualified experts or any other party to whom a principal party has
	14	assigned specific responsibilities;
	15	(v) Workers other than workers listed in (a)-(f) in this paragraph; or
	16	(vi) Ethics committees as may be provided in regulations made by the
	17	Authority.
Obligation to Report	18	52(1) Where a nuclear or radiological emergency occurs, any person
report	19	shall immediately report such incident or accident to the Authority.
	20	(2) Where the occurrence of a nuclear or radiological emergency is so
	21	reported to the Authority as mentioned in subsection (1) of this section, the
•	22	Authority shall-
	23	(a) immediately investigate such emergency and its causes,
	24	circumstances and effects;
	25	(b) in such manner as it thinks fit, define particulars of the period
	26	during which and the area within which, in its opinion, the risk of nuclear
	27	damage connected with the incident or accident exceeds the safety standard
	28	and regulatory practices made pursuant to this Bill;
	29	(c) direct the operator in question to obtain the names, addresses and

1	•	identification features of all persons who were within that area during such	
2		period;	
3 .		(d) publish by notice in the Federal Gazette, two national	
1 - '		newspapers in circulation in that area, or such other means, including digital	
5		media, the fact that a nuclear emergency has occurred during that period	
6	•	within that area; and	. *
7		(e) In the event of a nuclear or radiological emergency posing a risk	
3		of radioactive contamination that could spread beyond the territorial	
)		boundaries of Nigeria, the Authority shall immediately notify the	
10		International Atomic Energy Agency, the Board and the relevant agencies of	
l I		any State that may be physically affected or to which the emergency could	
12		be of radiological significance.	•
13		Part XIII - Orphan Sources	
14		53(1) The Authority shall be responsible for-	Recovery of
15		(a) the search, recovery and ensuring proper control of orphan	orphan sources
16		sources; and	·
17		(b) the development of a national strategy for improving control	
18		over vulnerable sources.	
19		(2) The following steps shall be carried out in the development	
20		phase of a national strategy for regaining control over orphan sources:	
21		(a) listing the problems or potential issues identified in the	•
22		assessment phase;	
23		(b) developing actions that will solve each problem, or where it is a	• .
24	-	complex situation, identifying the first steps towards a solution to the	
25		problem;	
26		(c) prioritising these actions and presenting them in a format that is	
27		suitable for review by decision makers; and	
28		(d) identifying the various departments within the Authority and	
29		Waste Management Organisation involved in and achieving agreement on	
30		assignment of responsibilities.	

	1	(3) Upon discovery of orphan sources, the Authority shall transfer
•	- 2	such sources to a Waste Management Organisation to develop a national
	3	strategy for taking control of orphan sources.
	4	(4) Anyone who finds or encounters an orphan source shall
	5	immediately report them to the Authority.
Practices not	6.	54(1) Where a practice involving exposure to radiation is not
covered by this Bill	7	covered by this Bill or any regulation made under the Bill, the person
	8	concerned with the practice shall:
	9	(a) consult with the Authority with a view to ensuring adequate
	10	protection of life, health, property and the environment; and
1.1	11	(b) be under a duty to comply with any guidelines or directives as may
	12	be issued, from time to time, by the Authority in respect of such practice.
	13	(2) The Authority may, from time to time, modify or issue new
	14	categories of sources and practices for the purposes of this Act or any
	15	regulation made pursuant to the Bill.
	16	PART XIV -DECOMMISSIONING
Requirements for	17	55(1) The Authority shall establish requirements for the
Decommissioning	18	decommissioning of nuclear installations and high activity radiological facility
	19	where high activity sources are used, including:
	20	(a) remediation of the environment to its original state: and
	21	(b) criteria for clearance from regulation following
	22	decommissioning.
	23	(2) An applicant for authorisation under this Bill shall include in its
	24	application, a decommissioning plan which shall be submitted to the Authority
	25	and updated as is required by the Authority.
Determination	26	56(1) The Authority shall establish criteria for determining when a
for Shut-Down and Release	27	nuclear installation or part thereof should be permanently shut down.
_	28	(2) The Authority shall evaluate the end state of the installation after
	29	decommissioning activities have been completed to ensure that relevant
	30	regulatory requirements have been met.

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1	(3) The installation shall not be released by the Authority from	
2	regulatory control until the licensee has demonstrated that the end state in	
3	the decommissioning plan has been reached and that any other additional	
4	regulatory requirements have been met.	
5	PART XV - NUCLEAR EMERGENCY PREPAREDNESS	
6	57(1) The Authority shall ensure that every authorised party	Emergency Preparedness
7	makes adequate arrangements for emergency preparedness and response	and Response
8	which arrangement shall include clear assignment of the responsibility to	
9	immediately notify the Authority of an emergency.	
10	(2) In performing its functions under subsection (1), the Authority	
11	shall have regard for the need to suspend authorisation for the purpose of	
12	timely emergency response, if necessary.	
13	(3) The Authority shall collaborate with other response agencies to	
14	make preparations and arrangements for dealing with the consequences of	•
15	incidents in facilities and activities that affect or may potentially affect the	
16	public or the environment including action to be taken during an emergency	
17	and its aftermath.	
18	(4) In all cases, the Authority shall ensure that measures which are	
19	proportionate with the radiation risks are in place to adequately inform the	
20	general public and persons who are affected for emergency preparedness.	
21	and response.	-
22	58(1) No authorisation to conduct an activity or practice, operate	Emergency Pla and Procedures
23	a facility, possess or use a source may be granted unless and until an	
24	appropriate emergency preparedness and response plan has been developed	
25	by the applicant and approved by the Authority.	
26	(2) The Authority in collaboration with other competent nationa	
27	agencies shall develop a National Emergency Plan and Procedures, which	
28	shall be periodically tested and assessed for coping with any nuclear and	d
29	- radiological emergencies.	

(3) In preparing the National Emergency Plan and in the event of an

emergency, the Authority shall advice the Federal Government and Response 1 2 agencies, and shall provide expert services in accordance with its functions 3 under the Bill. 4 (4) The National Emergency Plan and Procedures for nuclear or radiological emergencies shall include an allocation of responsibilities and 5 6 actions among relevant agencies. (5) Every operator shall develop an emergency plan and procedure 8 which shall be periodically tested and assessed for coping with any nuclear and 9 radiological emergencies. Loss of Control 10 59. Any person who manages a facility connected with radioactive or nuclear material and other radiological installations shall, immediately, report 11 to the Authority any theft or loss of radioactive or nuclear material under his 12 13 possession or control. 60.-(1) The Authority shall, for any activity capable of resulting in 14 Operator's Intervention Plan accidental exposure of workers or members of the public to nuclear material or 15 ionising radiation sources, require the operator to establish an intervention plan 16 which shall deal with any foreseeable situation and organise emergency drills 17 for demonstrating the efficacy of the planned counter-measures. 18 19 (2) Where a nuclear or radiological incident or accident capable of affecting the public occurs, the Authority shall direct the operator, to-20 21 (a) immediately submit its emergency plan showing the roles and 22 responsibilities of the relevant stakeholders; and 23 (b) cover the costs for the establishment, implementation and management of such emergency plan insofar as it relates to the relevant nuclear 24 installation or any action contemplated under this Bill 25 26 (3) The Authority, prior to issuing a licence shall assess that such plans are effective and practicable for the protection of persons in case of any 27 28 nuclear or radiological emergency. Implementation 29 61.-(1) Where a nuclear or radiological incident or accident occurs, of Emergency Plans the operator shall implement the emergency plan as approved by the Authority. 30

responsible for all damages to workers and the general public arising from

waste stored in transit shall be stored and handled in accordance with the

(5) Any nuclear and other radioactive material and radioactive

inaccurate, wrong or incomplete notification and information.

provisions of the appropriate regulations.

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1 PART XVII - RADIOACTIVE WASTE AND SPENT FUEL MANAGEMENT 2 64.-(1) The Authority shall develop a national policy for radioactive National Policy and Strategic on Radioactive Waste 3 waste and spent fuel management in collaboration with other relevant agencies and Spent Fuel Management and bodies. Such policy shall be subject to the approval of the Federal 4 5 Executive Council. 6 (2) The Authority shall ensure the implementation of the policy in a 7 manner that reflects Nigeria's international commitment under the Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management. 9 Control of 10 65.-(1) No person or entity shall operate a radioactive waste or spent Radioactive Waste and Spent Fuel fuel management facility without an authorisation issued by the Authority. 11 Management 12 (2) The holder of an authorisation for any nuclear or radiological 13 installation shall prepare and submit to the Authority adequate plans and 14 procedure for the safe storage and management of radioactive waste or spent 15 fuel generated by his activities. 16 (3) The Authority shall ensure the continuous regulatory control of 17 radioactive waste and spent fuel management from generation to disposal. 18 (4) To ensure the safe and secure management of radioactive waste and spent fuel in Nigeria, the Authority shall establish applicable safety and 19 security requirements and regulations for the protection of people and the 20 environment from adverse impacts of radioactive waste and spent fuel 21 management activities in accordance with the Joint Convention on the Safety 22 23 of Spent Fuel Management and on the Safety of Radioactive Waste 24 Management. 25 66.-(1) The prime responsibility for ensuring the safety and security Responsibility 26 of radioactive waste and spent fuel rests with the holder of the relevant 27 authorisation. (2) The responsibility for ensuring the safety and security of 28

radioactive waste or spent fuel for which no licensee or entity can be

determined shall rest with the Authority.

for Safety and Security of Radioactive waste

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section, the operator of a facility or carrier of radioactive waste, who is

responsible for an incident resulting in radioactive contamination of the

environment shall be liable on conviction, for the restoration of the

environment or for the cost of such activities as are necessary for the

restoration of the environment to its original state.

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ĺ PART XVIII - INSURANCE AND FINANCIAL RESPONSIBILITY Insurance cover 2 72.-(1) every operator of a nuclear installation shall maintain an 3 insurance cover with a qualified insurer designated by the Minister of Finance and accredited by the Authority or provide other financial guarantee adequate 4 5 to cover his civil liability for any nuclear damage imposed on him by this Bill to not less than the equivalent in Naira of 300 million SDRs for any one nuclear 6 damage. 8 (2) Based upon the approval of the Authority, the liability of the 9 operator for any one nuclear damage may be limited to less than the equivalent in Naira of 300 million SDRs, but not less than equivalent in Naira of 150 10 million SDRs, provided that the difference up to at least the equivalent in Naira 11 12 of 300 million SDRs shall be made available by the Federal Government via 13 appropriation by the National Assembly with a view to covering nuclear 14 damage under this Bill. 15 (3) The insurance cover referred to in subsections (1) and (2) of this section, shall be made available for at least categories 1 and 2 radioactive 16 sources as provided for in the Second Schedule of this Bill. 17 Nuclear Damage 18 73.-(1) Provision shall be made in the Appropriation Act for a nuclear Compensation ' Fund 19 damage compensation fund which shall be held by the CBN and managed by 20 the Authority. 21 (2) Nuclear Damage Claims Fund from which it shall be granted not less than the initial equivalent in Naira of 450 million SDRs, the financial 22. guarantee required to be made available by the Federal Government of Nigeria 23 24 with a view to covering nuclear damage, to the extent that the yield of insurance 25 or other financial security is inadequate to satisfy such claims pursuant to this 26 Bill. 27 (3) Where the Authority is satisfied that the total amount of claims of 28 compensation against an operator of a nuclear installation that is unpaid

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exceeds the amount of security given by such operator under this Bill with

respect to such claims, the Authority shall-

rights to compensation by one single action, without having to bring

separate proceedings according to the origin of the funds provided for such

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1 compensation. Financial 2 77.-(1) The Federal Government shall enforce the payment of claims Guarantees 3 against any operator liable for nuclear damage under this Bill. 4 (2) Where the yield of insurance or other financial guarantee maintained by the operator under this Part falls short of satisfying such claims 5 referred to in subsection (1) the Federal Government shall make additional 6 provision in respect of such claims; provided that in no case shall the civil 7 · liability of the Federal Government be less than the equivalent in Naira of 300 8 9 million SDRs Responsibility 10 78. Radiological damage other than nuclear damage shall be dealt of operator with in accordance with relevant national tort laws. 11 Computation 12 79. Where a damage is caused by a nuclear or radiological incident or of Period 13 accident arising from nuclear material or radioactive source which at the time of the incident or accident was stolen, lost, jettisoned or abandoned, the period 14 established under this Bill shall be computed from the date of the incident or 15 accident, provided that the period shall in no case exceed twenty years from the 16 date of the theft, loss, jettison or abandonment. 17 Compensation<sup>1</sup> 80.-(1) Where a person who is employed in any capacity by or on 18 of Staff of the Authority behalf of the Authority, while so performing services, suffers a personal injury 19 or contracts a disease attributable to ionising radiation from any radioactive 20 material or to the flammable, explosive, poisonous or special properties of 21 radioactive material, or to the ionising radiation produced by any apparatus and 22 in respect of which no liability can be established under this Bill, the Authority 23 24 shall: 25 (a) defray all reasonable expenses incurred by or on behalf of such person in respect of any medical treatment including, but not limited to the 26 supply and maintenance of any artificial part of the body or other device, 27 necessitated by such injury or disease; and 28 29 (b) pay any compensation in respect of disablement or death caused 30

by such injury or disease.

1 (2) Nothing in this section shall preclude an employee of the 2 Authority from claiming any benefit other than the compensation under this 3 Bill. PART XIX - LIABILITY FOR NUCLEAR DAMAGE 4 81.-(1) An operator shall be absolutely and exclusively liable for 5 Absolute Liability 6 injury or damage done to any person or property upon proof that such for Nuclear and Radiological Damages damage has been caused by a nuclear or radiological incident or accident-7 8 (a) in a nuclear installation by anything being present or which is 9 done or by nuclear material, adioactive material or material contaminated 10 with radioactive activity which has been discharged or released in any form from any regulated practice or activity; and 11 12 (b) by any nuclear material, radioactive material or material contaminated with radioactivity, while in the possession of or under the 13 control of the operator during the conveyance from the nuclear or 14 radiological installations, to any other place in Nigeria or in the territorial 15 waters in Nigeria from or to any place outside Nigeria 16 17 (2) where liability under this Bill in respect of the same injury or damage is incurred by two or more operators, the liability of the operators 18 shall, to the extent that the injury or damage attributable to a breach of duty 19 imposed on each by this Bill is not reasonably separable, be treated as joint 20 21 and several. 22 (3) where two or more operators are under a duty under this bill, the respective liability of each of them shall be clearly defined in a contractual 23 24 document. 25 (4) in the case of transport of nuclear or radioactive material, the consignor is liable for nuclear damage until the consignee has taken charge 26 of the material involved, unless the consignor and the consignee enter into a 27 contract to shift liability at another stage of transport. 28 29 82.-(1) An operator is not liable for injury or damage of any kind Exceptions described under this Bill where the nuclear or radiological incident resulting 30

Limitations of the Right to Compensation

	in the injury or damage occurred as a direct result of an act of armed conflict in
	the course of war, invasion or insurrection.
	(2) An operator is not liable for injury or damage suffered by any
1	person where the nuclear or radiological incident results from the gross
;	negligence of the claimant or an intentional act of the claimant to cause harm.
, .	(3) Where a nuclear or radiological incident or accident resulting in
7	any injury or damage described under this Bill occurred wholly or partly as a
3	result of an unlawful act or omission of any person done or omitted to be done
)	with intent to cause injury or damage, any right of recourse of an operator shall
0	be against that person.
1	83(1) Nothing in this Bill shall be construed as limiting or restricting
2	any right or obligation of any person arising under-
13	(a) any contract of insurance, including any insurance required in
14	furtherance of this Bill to be maintained by an operator;
15	(b) any scheme or systems of health or hospitalisation insurance,
16	employees' compensation or occupational disease compensation; or
17	(c) any survivorship or disability provision of or governing any
18	superannuation or pension fund or plan.
19	(2) A person is barred from making a claim for compensation for
20	nuclear damage under this Bill, if the action to establish the claim is not brought
21	within:
22	(a) three years from the date on which the person suffering damage
23	had knowledge or ought reasonably to have had knowledge and of the operator
24	liable for the damage, but in any case not more than thirty (30) years after the
25	incident causing the damage:
26	(b) thirty (30) years from the date of the nuclear incident in the case of
27	loss of life or personal injury: or
28	(c) Ten (10) years from the date of the nuclear incident, in case of any
29.	other form of nuclear damage.
30	(3) Any person who has suffered nuclear or radiological damage and

	.1	(vi) records and reports systems for all material balance areas; and
	2	(vii) procedures for reporting to the International Atomic Energy
	3	Agency (IAEA).
Prohibition on	4 .	86(1) In accordance with Nigeria's commitment to the full
Possession of Nuclear Explosives	5	implementation of the African Nuclear Weapons Free Zone Treaty (Pelindaba
	6	Treaty):
٠	7	(a) no person shall receive from any transferor of nuclear weapons or
	8	other nuclear explosive devices or control over such weapons or explosive
	9	devices, directly or indirectly to manufacture or otherwise acquire nuclear
•	10	weapons or other nuclear explosive devices, or receive any assistance in the
	11	manufacture of nuclear weapons or other nuclear explosive devices;
	12	(b) no person shall provide any form of support to non-state actors to
. 4	13	develop, acquire, manufacture, possess, transport, transfer, use or threaten to
	14	use nuclear weapons or explosive devices or radiological dispersal devices.
	15	(c) persons intending to carry out research and development activities
	16	related to the nuclear fuel cycle shall provide the Authority information on
	17	these activities prior to the commencement, regardless of whether these
	18	activities involve nuclear material; and
	19	(d) any person performing activities subject to the Safeguards
	20	Agreement and the Additional Protocol, shall submit to the Authority
	21	information and data necessary for compliance with the undertaking by
<i>:</i> .	22	Nigeria arising from such instruments.
	23	PART XXI - IMPORT AND EXPORT CONTROL
Requirements	24	87(1) The Authority shall not issue any import licence under this Bill
for Import and Export	25	except with the prior notification by the person exporting or the exporting
	26	country of the category of radioactive sources or nuclear material to be
	27	imported to the country.
	28	(2) The Authority shall implement the provisions of the Code of
	. 29	Conduct on the Safety and Security of Radioactive Sources and its associated
4	30	Guidance on the Import and Export of Radioactive Sources.

1	(3) The Authority shall establish an import and export	
2	authorisation regime for all categories of sources, by requesting for consent,	
3	evaluation of request, notification prior to shipment as a means of ensuring	•
4	safety and security as provided for in the regulations.	
5	(4) The import of some categories of radioactive sources may only	
6	be authorised where there is a contract with the supplier for the return of the	
7	source to the country of origin at the end of its useful life.	
8	88, -(1) The Authority shall-	Monitoring of
9	(a) in collaboration with the Nigeria Customs Service and such	Import and Export
10	other relevant agencies and bodies, designate land, air and sea ports as entry	
11	points through which radioactive sources, nuclear material and sources	
12	emitting ionising radiation shall be imported into Nigeria;	
13	(b) in collaboration with such other agencies and bodies, monitor	
14	all land, air and sea ports designated as entry points for import, transit and	
15	transshipment or export of radioactive sources, nuclear materials, devices	
16	generating ionising radiation, equipment and technology; and	
17	(c) take such steps as are necessary to monitor all scrap metal	
18	dealers, steel recycling and rolling plants in the country including the import	
19	and export of scrap metal.	
20	89(1) The Authority shall establish and publish a national list of	List of Controlled
21	controlled items, including nuclear material, pursuant to Nigeria's	Items
22	international obligations	
23	(2) The import of some categories of radioactive sources may only	
24	be authorised when there is a contract with the supplier for the return of the	
25	source to its country of origin at the end of its useful life.	
26	PART XXII - NUCLEAR SECURITY AND NATIONAL CENTRE FOR	N
27	NUCLEAR SECURITY	
28	90(1) Any person authorised by the Authority for any nuclear	Prime
29	installation, radioactive waste management facility, practices or ionising	responsibility for safety and security
30	radiation sources shall have the prime responsibility for the safety and	

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security of the installation, facility, practice or source.

2 (2) Prior to commencing any activity, a licensee shall submit to the Authority a plan to deal with cyber security threats and shall establish, 3 4 implement and maintain a cyber-security plan that shall include measures for 5 incident response and recovery from cyber attacks. (3) Any person whose licence is revoked or invalidated or suspended 6 7 shall continue to have the prime responsibility for the safety and security of any 8 nuclear material and radiation sources under his custody. 9 (4) The Authority shall take appropriate measures necessary for safety culture and for security culture with respect to radioactive sources in a 10 11 manner consistent with the provisions of the regulations and this Bill. 12 Requirements 91.-(1) The Authority shall establish requirements for the physical for security and physical protection 13 protection of nuclear installations, radiological facilities, nuclear materials and 14 radioactive sources, including: 15 (a) a categorisation of material based on an assessment of damage that could result from theft or diversion of a certain type and quantity of material 16 from authorised uses or sabotage of a facility utilising that material; 17 18 (b) physical protection measures necessary for different categories of 19 radioactive material either in use, storage or transportation, 20 (c) a system of authorisation including licence conditions for physical protection: 21 22 (d) a system of inspection and monitoring to verify compliance with 23 applicable physical protection requirements; and (e) enforcement measures in case of non-compliance or violation of-24 25 applicable regulations or licence conditions. 26 92.-(1) A person authorised to conduct activities or practices utilising Responsibility of authorised nuclear material and other radioactive material and related facilities shall-27 persons 28 (a) primarily be responsible for ensuring the security and physical protection of such materials pursuant to applicable regulations and licence 29 30 conditions;

1	(b) ensure that the implementation of safety and security	
2	requirements satisfies both safety and security objectives;	
3	(c) be responsible for managing the implementation of safety	
4	requirements and security requirements by ensuring close cooperation	
5	between safety managers and security managers, with the objective of	
6	minimising risks; and	•
7	(d) ensure that safety and security measures are designed and	
8	implemented in such a manner that they do not compromise each other and	٠.
9	also establish mechanisms to resolve potential conflicts and to manage	•
10	safety-security interfaces.	
11	(2) No person shall engage in illicit trafficking of any nuclear	
12	material or other radioactive material and related facilities.	
13	93(1) No person shall demand radioactive or nuclear material or a	Threat or Use
14	device by threat, or by use of force, or by any other form of intimidation.	of Force
15	(2) No person shall receive, possess, transfer, alter, damage or	
16	dispose of radioactive/nuclear material or possess a device with the intent to	
17	cause death, serious bodily injury, substantial damage to property or to the	
18	environment or which causes or is likely to cause death or serious injury to	
19	any person or substantial damage to property or to the environment.	
20	(3) No person shall use or damage a nuclear facility or interfere	
21	with its operation, or commit any other act directed against a nuclear facility	
22	in a manner which releases or risks the release of radioactive material.	
23	(4) No person shall make a threat to-	
24	(a) use nuclear material to cause death or serious injury to any	
25	person or substantial property damage, or	·
26	(b) commit an offence described in subsection (4) (a) of this section	
27	in order to compel a natural or legal person, international organisation or	*.
28	Nigeria to do or to refrain from doing any act;	
20	94 (1) Where there has been a thaff threat of thaff or loss of	

	1	nuclear material or other radioactive material from a facility, the licensee shall-
	2	(a) notify the Authority immediately of the circumstances of the
	3	incident;
	4	(b) provide written information, including particulars, to the
	<b>5</b> ,	Authority within 48 hours after the notification; and
	6	© provide the Authority with any additional information as may be
	7	requested
National Centre for Nuclear	8.	95(1) There shall be established a National Centre for Nuclear
Safety	9 ;	Security.
	10	(2) The functions of the National Centrefor Nuclear Security shall
	,11	include:
•	12	(a) supporting and facilitating the systematic development of
	13	sustainable human resources through the implementation of a tailored National
•	14	Nuclear Security Training Programme;
	15	(b) ensuring and enhancing sustainability in national nuclear security
	16	human resource development by cooperating with other national and
	17	international institutions;
	18	(c) ensuring that the Centre provides technical support services for
	19	life cycle equipment management and scientific support for the prevention,
	20	detection of and response to nuclear security events;
	21	(d) collaborate with other national and international institutions with
	22	similar objectives; and
	23	(e) Carry out any other functions as may be determined by the Nuclear
•	24	Security Committee.
	25	(3) The structure, designation and other matters relating to the Centre
	26	shall be as determined by the National Nuclear Security Committee.
	27	PART XXIII - APPEAL IN RESPECT OF LICENCE AND DISPUTE RESOLUTION
Appeal in respect	28	96(1) Any person may appeal to the Authority against a decision
of needse	29	relating to a licence or to an application for a license or for renewal.
	30	(2) Where such person is not satisfied with the decision of the

98. No suit shall be commenced against the Authority, a member of the Board, the Director-General or any officer or employee of the Authority in their official capacity unless one month notice of intention to commence the suit has been served upon the Authority by the intending plaintiff or his agent; and the notice shall clearly and explicitly state the cause of action, the particulars of the claim, the name and address of the intending plaintiff and the relief which he claims

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99. The Authority shall have power to prosecute offences under this Bill

100. Any sum of money which by the judgment of any court has been awarded against the Authority shall, subject to any direction given by the court, where no notice of appeal against the judgment has been given, be paid from the Fund of the Authority

Power to prosecute

Defrayment of Judgment sum Indemnity of 101. A member of the Board, the Director-General or any officer or staff employee of the Authority shall be indemnified out of the assets of the 2 3 Authority against any liability incurred by him in defending any proceeding, whether civil or criminal, where the proceeding is brought against him in his 4 capacity as a member of the Board, Director-General, officer or other 5 employee of the Authority. 7 PART XXV - JURISDICTION Competent court 102. The Federal High Court shall have exclusive jurisdiction over 9 all claims on nuclear materials, nuclear or radiological incidents or accident, or for civil or criminal liability relating to these matters. 10 11 Non-103. In the event of nuclear or radiological incident or accident discrimination affecting victims of States other than the incident state, there shall be no 12 13 discriminatory treatment based on nationality, domicile or place of residence in 14 the payment of compensation. 15 PART XXVI - OFFENCES AND PENALTIES 104.-(1) Any person who contravenes any of the provisions of this Offences and 16 Penalties Bill, or does not comply with a limitation or condition subject to which he is 17 authorised under this Bill is guilty of an offence and liable on conviction to 18 imprisonment for not less than 1 year or a fine of not less than N1,000,000 or to 19 20 such fine and imprisonment. 21 (2) Any person who undertakes any practice or services involving 22 nuclear material and/or radiation sources on any premises in Nigeria without due authorisation commits an offence and shall-23 (a) in the case of an individual, be liable on conviction to 24 imprisonment for a term of not less than 2 years or an option of fine of not less 25 than N2,000,000 or to both such fine and imprisonment; 26 27 (b) in the case of a body corporate, be liable on conviction to a fine of 28 not less than N10,000,000 and 29 (c) any offending Director or officer of the body corporate shall on

conviction be liable to imprisonment for a term of not less than 2 years.

1 .	(b) in the case of a body corporate, be liable on conviction to a fine of
2	not less than N20,000,000 and
3	(c) The offending Director or officer of the body corporate shall o
4	conviction be liable to imprisonment for a term of not less than 5 years or a
5	option of fine of not less than N5,000,000 or to both such fine an
6	imprisonment
7	(6) Any operator of nuclear installation under this Bill, who fails t
8	take measures to secure any nuclear material in such manner as to result i
9	unauthorised access, theft or loss of control of such materials or sources
10	commits an offence and shall-
11	(a) in the case of an individual, be liable on conviction to
12	imprisonment for a term of not less than 5 years or a fine of not less than
13	N10,000,000 or to both such fine and imprisonment; or
14	(b) in the case of a body corporate, be liable on conviction to a fine o
15	not less than N50,000,000; and
16	(c) any offending Director or officer of the body corporate shall or
17	conviction be liable to imprisonment for a term of not less than 5 years or a fin-
18	of not less than N10,000,000 or to both such fine and imprisonment.
19	(7) Any person who carries out any activity referred to in this Bill and
20	at the end of the activity abandoned, decommissioned or rehabilitated the
21	installations thereof without a licence issued by the Authority commits an
22.	offence and shall:
23	(a) in the case of an individual, be liable on conviction to
24	imprisonment for a term of not less than 5 years or a fine of not less than
25	N5,000,000 or to both such fine and imprisonment; or
26	(b) in the case of a body corporate, be liable on conviction to a fine of
27	not less than N25,000,000 and
28 .	(c) any offending Director or officer of the body corporate shall or
29	conviction be liable to imprisonment for a term of not less than 5 years or a fine
30	of not less than N5,000,000 or to both such fine and imprisonment.

(8) Any person who contravenes the provisions of section 87 of this Bill commits an illicit trafficking offence and shall be liable on conviction: 2 3 (a) in the case of an individual, to imprisonment for a term of not less than 5 years or a fine of not less than N5,000,000 or to both such fine and 4 5 imprisonment; (b) in the case of a body corporate, to a fine of not less than 7 N25,000,000; and (c) any offending Director or officer of the body corporate shall on 8 9 conviction be liable to imprisonment for a term of not less than 5 years or a fine of not less than N5,000,000 or to both such fine and imprisonment. 10 11 (9) Any person who, by any electronic means, compromises the 12 security of any nuclear or other high activity installations commits an offence and shall be liable on conviction to a term of imprisonment for 5 13 14 years. 15 (10) A consignor, consignee, transporter and/or freight forwarder 16 (by air, land or sea) of nuclear material, radioactive material or wastes that 17 breaches the provisions of section 63 of this Bill commits an offence and shall be liable financially or otherwise for all incidents or accidents during 18 19 transportation or storage in transit of the nuclear material, radioactive 20 sources and/or wastes. 21 (11) Any person who contravenes the nuclear non-proliferation 22 status of Nigeria commits an offence and shall be liable on conviction to a term of imprisonment of not less than 25 years. In the case of a body 23 24 corporate, to a fine of not less than N100,000,000. 25 (12) Any person who sabotages the safety or security of any nuclear installation, nuclear material or other radioactive material in use, 26 27 storage or transportation or who sabotages any detection equipment such 28 that the act endangers or is likely to endanger national security or poses 29 danger to health or the environment, commits an offence and shall-30 (a) in the case of an individual, be liable on conviction to a term of

1	imprisonment of not less than 25 years without an option of fine; or
2	(b) in the case of a body corporate, the offending Director or officer of
3	the body corporate shall be liable on conviction to a term of imprisonment of
4	not less than 25 years without an option of fine.
5	(13) Any person who receives, uses, possesses, transfers, alters,
6	disposes or who obtains by theft, robbery or fraudulent means, any radioactive
7	or nuclear material with the intent to cause-
8	(a) death or serious bodily injury,
.9	(b) substantial damage to property or to the environment; or
10	(c) which causes or is likely to cause death or serious injury to any
11	person or substantial damage to property, facility or the environment commits
12	an offence and shall be liable on conviction to life imprisonment.
13	(14) Any person who demands radioactive or nuclear material or a
14	device by threat of grievous harm or by use of force, or by any other form of
15	intimidation commits an offence and is liable on conviction to life
16	imprisonment.
17	(15) Any person who participates in the financing, planning
18	preparation or perpetration of nuclear terrorist acts or in supporting terrorist act
19	commits an offence and is liable to life imprisonment.
20	(16) Any person who, having had his licence revoked or invalidated or
21	suspended, pursuant to section 44, fails to maintain primary responsibility for
22	the safety and security of any nuclear material and radiation sources under his
23	custody commits an offence and shall-
24	(a) in the case of an individual, to a term of imprisonment for 5 years
25	or a fine of not less than N5,000,000 or both such fine and imprisonment; or
26	(b) in the case of a body corporate, to a fine of not less than
27	N25,000,000; and
28	(c) any offending Director or officer of the body corporate shall or
29	conviction be liable to imprisonment for 10 years or a fine of not less than
30	N5,000,000 or to or to both such fine and imprisonment.

- 1 protection or safety;
- 2 "activities and facilities" is a general term encompassing nuclear facilities,
- 3 uses of all sources of ionising radiation, all radioactive waste management
- 4 activities, transport of radioactive material and any other practice or
- 5 circumstances in which people may be exposed to radiation from naturally
- 6 occurring or artificial sources;
- 7 "authorisation" means permission granted in a document by the Authority to a
- 8 legal person who has submitted an application to carry out a practice or any
- 9 other action described in the Bill or regulations made thereunder. The
- 10 authorisation can take the form of a registration or a licence;
- 11 "authorised officer" includes qualified persons employed or engaged by the
- 12 Authority to carry out any function under this Bill;
- 13 "clearance" means the removal of radioactive material or radioactive objects
- 14 within authorised practices from any further control by the Authority:
- 15 "code of conduct" means International Atomic Energy Agency Code of
- 16 Conduct on the Safety and Security of Radioactive Sources
- 17 (IAEA/CODEOC/2004);
- 18 "Authority" means the Nigerian Nuclear Regulatory Authority established
- 19 under section 2 of this Bill;
- 20 "contamination" means the presence of radioactive substances in or on a
- 21 material or the human body or other place where they are undesirable or could
- 22 be harmful;
- 23 "decommissioning" means all steps leading to the release of a facility, other
- 24 than a disposal facility, from regulatory control other than confirming the
- 25 decommissioned status of a facility. These steps include the processes of
- 26 decontamination and dismantling;
- 27 "disposal" means the emplacement of spent fuel or radioactive waste in an
- 28 appropriate facility without the intention of retrieval;
- 29 "emergency plan" means a set of procedures to be implemented in the event of
- 30 an accident;

2019	Nuclear Safety and Radiation Protection Act, 1995 (Repeal and Re-Enactment) Bill, 2019 C	5181
1	"IAEA" means the International Atomic Energy Agency;	
2	"IAEA GSR Part 3" refers to the Radiation Protection and Safety of	
3	Radiation Sources: International Basic Safety Standards: General Safety	
4	Requirements Part 3 No. GSR Part 3;	
5	"exclusion" means exposures that are not amenable to regulatory control	
6	such as those from natural sources like cosmic rays;	
7	"exemption" means the determination by the Authority that a source or	
8	practice need not be subject to some or all aspects of regulatory control on	
9	the basis that the exposure (including internal exposure) due to the source or	
10	practice is too small to warrant the application of those aspects or that it is the	
11	optimum option for protection irrespective of the actual level of the doses or	
12	risks;	
. 13	"facilities and activities" means nuclear facilities, uses of all sources of	
14	ionising radiation, all radioactive waste management activities, transport of	
15	radioactive material and any other practice or circumstances in which	•
16	people may be exposed to radiation from naturally occurring or artificial	
17	sources;	:
18	"Graded approach" means for a system of control, such as a regulatory	•
19	system or a safety system, a process or method in which the stringency of the	
20	control measures and conditions to be applied is commensurate, to the	
21	extent practicable, with the likelihood and possible consequences of, and the	
22	level of risk associated with, a loss of control;	
23	"incident" means any unintended event, including operating errors,	٠
24	equipment failures, initiating events, accident precursors, near misses or	
25	other mishaps, or unauthorised act, malicious or non-malicious, the	
26	consequences or potential consequences of which are not negligible from	
27	the point of view of protection or safety;	
28	"Licence" means a legal document issued by the Authority granting	
29	authorisation to perform specified activities related to a facility or activity;	
30	"Licensee" means the holder of a current licence granted by the Authority	

I for an activity or practice who has recognised rights and duties for the activity 2 or practice, particularly in relation to safety and security; 3 "medical exposure" means exposure incurred by patients for the purposes of medical or dental diagnosis or treatment; by carers and comforters; and by 4 5 volunteers subject to exposure as part of a programme of biomedical research. 6 "meeting" includes video conference meeting: 7 "notification" means a document submitted to the Authority by a legal person 8 to notify an intention to carry out a practice involving nuclear and/or 9 radioactive material; 10 "nuclear accident" means any accident involving facilities or activities from 11 which a release of radioactive material occurs or is likely to occur and which 12 has resulted or may result in an international transboundary release that could be of radiological safety significance for another State; 13 14 "nuclear damage" means-15 (a) loss of life or personal injury: 16 (b) loss of or damage to property; and each of the following to the 17 extent determined by the law of the competent court:: 18 (c) economic loss arising from loss or damage referred to in sub-19 paragraph (a) or (b) of this paragraph, insofar as not included in those 20 paragraphs, if incurred by a person entitled to claim in respect of such loss or 21 damage; 22 (d) the costs of measures of reinstatement of impaired environment, 23 unless such impairment is insignificant, if such measures are actually taken or to be taken, and insofar as not included in sub-paragraph (b) of this paragraph; 24 25 (e) loss of income deriving from an economic interest in any use or enjoyment of the environment, incurred as a result of a significant impairment 26 of that environment, and insofar as not included in sub-paragraph (b) of this 27 28 paragraph; 29 (f) the costs of preventive measures, and further loss or damage caused by such measures; and

1 - ,		(g) any other economic loss, other than any caused by the
2		impairment of the environment, if permitted by the general law on civil
3		liability of the competent court, in the case of sub-paragraphs (a) to (e) and
4		(f) of this paragraph, to the extent that the loss or damage arises out of or
5		results from ionising radiation emitted by any source of radiation inside a
6		nuclear installation, or emitted from nuclear fuel or radioactive products or
7		waste in, or of nuclear material coming from, originating in, or sent to, a
8 .	4.	nuclear installation, whether so arising from the radioactive properties of
9		such matter, or from a combination of radioactive properties with toxic,
10		explosive or other haz irdous properties of such matter;
11 .		"nuclear fuel" means Pissionable nuclear material in the form of fabricated
12		elements for loading into the reactor core of a civil nuclear power plant or
13		research reactor;
14 .		"nuclear fuel cycle" means all operations associated with the production of
15		nuclear energy, including mining, milling, processing and enrichment of
16		uranium or thorium; manufacture of nuclear fuel, operation of nuclear
17	•	reactors; reprocessing of nuclear fuel; decommissioning; and any activity
18		for radioactive waste management and any research and development
19		activity related to any of the foregoing;
.20		"nuclear incident" means any occurrence or series of occurrences having the
21		same origin which causes nuclear damage or, but only with respect to
22	•	preventive measures, creates a grave and imminent threat of causing such
23		damage;
24		"nuclear installation" means a nuclear fuel fabrication plant, research
25		reactor (including subcritical and critical assemblies), nuclear power plant,
26	`.	spent fuel storage facility, enrichment plant or reprocessing facility;
27		"nuclear material" means Plutonium except that with isotopic concentration
28		exceeding 80% in plutonium-238; uranium-233; uranium enriched in the
29		isotope 235 or 233; uranium containing the mixture of isotopes as occurring
30		in nature other than in the form of ore or ore residue; any material containing

- 1 one or more of the foregoing;
- 2 "nuclear material capable of causing nuclear damage" see "nuclear material",
- 3 "nuclear damage"
- 4 "nuclear reactor" means any structure containing nuclear fuel in such an
- 5 arrangement that a self-sustaining chain process of nuclear fission can occur
- 6 therein without an additional source of neutrons;
- 7 "nuclear safety" means the achievement of proper operating conditions,
- 8 prevention of accident and mitigation of accident consequences, resulting in
- 9 protection of workers, the public and the environment from undue radiation
- 10 risks;
- 11 "nuclear security" means the prevention and detection of, and response to,
- 12 criminal or intentional unauthorised act involving nuclear material, other
- 13 radioactive material, associated facilities or associated activities;
- 14 "operator" means any organisation or person applying for authorisation or
- 15 authorized and/or responsible for safety when undertaking activities or in
- 16 relation to any nuclear facilities or sources of ionising radiation;
- 17 "orphan source" means a radioactive source that is not under regulatory
- 18 control, either because it has never been under regulatory control or because it
- 19 has been abandoned, lost, misplaced, stolen or otherwise transferred without
- 20 proper authorization;
- 21 "practice" means any human activity that introduces additional sources of
- 22 exposure or exposure pathways or extends exposure to additional people or
- 23 modifies the network of exposure pathways from existing sources, so as to
- 24 increase the exposure or the likelihood of exposure of people or the number of
- 25 people exposed;
- 26 "premises" includes any land whether covered by a building or not and includes
- 27 any underground and any land covered by water;
- 28 "President" means the President of the Federal Republic of Nigeria;
- 29 "providers of consumer products" includes the designers, manufacturers,
- 30 producers, constructors, installers, distributors, sellers, and importers and

	exporters of consumer products;
2	"radiation source" means a radiation generator, or a radioactive source or
3	other radioactive material outside the nuclear fuel cycles of research and
4	power reactors;
5	"radioactive material" means a material designated in this Act and by the
6	Authority as being subject to regulatory control because of its radioactivity;
7	"radioactive source" means radioactive materials that is permanently scaled
8	in a capsule or closely bonded, in a solid form and which is not exempt from
9	the Authority's control; it also means any radioactive material released if the
10	radioactive source is leaking or broken, but does not mean material
11	encapsulated for disposal, or nuclear material within the nuclear fuel cycles
12	of research reactors;
13	"radioactive waste management" means All administrative and operational
14	activities involved in the handling, pretreatment, treatment, conditioning.
15	transport, storage and disposal of radioactive waste;
16	"radioactivity" means the phenomenon whereby atoms undergo
17	spontaneous random disintegration, usually accompanied by the emission
18	of radiation;
19	"radiological installation" means installations other than nuclear
20	installations;
21	"registration" means a form of authorisation for practices of low or moderate
22	risk whereby the legal person responsible for the practice has, as
23	appropriate, prepared and submitted a safety assessment of the facilities and
24	equipment to the Authority. The practice or use is authorised with conditions
25	or limitations as appropriate;
26	"regulations" means a collection of instructions for the handling and use of
27	nuclear materials, equipment and various sources of ionising radiation
28	formulated by the Authority;
29	"reprocessing" means a process or operation, the purpose of which is to
30	extract radioactive isotopes from spent fuel for further use;

sabotage means any deliberate act directed against a nuclear facility
2000 nuclear material in use, storage or transport which could directly or indirect
and 3 movendangers the health and safety of personnel; the public and the environment
4 by exposure to radiation or release of radioactive substances;
and vs ban safety culture means the assembly of characteristics and attitudes i
6 organisations and individuals which establishes that, as an overriding priorit
balast villa protection and safety issues receive the attention warranted by the
g in a capacite at closely bonded; in a solid form and weenhinging to the
odi li o sassi safety requirement means the generally applicable requirements to b
10 Mulfilled in safety assessment for facilities and activities, as published in the
112 IAEA Safety Standards for protecting people and the environment: Safet
12 Assessment for Facilities and Activities General Safety Requirements No
homingomogsrpair4(revity), it a runom "momogumum openar ovitomolber"
gain 14 har security cultures means characteristics and attitudes in organisations and o
15 individuals which establish that security issues receive the attention warrante
ograbile by their significance; us to make an every contraction of
missil7. " source of tomsing radiation" means any source of radiation, for the purpose
18 of radiation protection, capable of producing ion pairs in biological material(s)
ากปังเสรา เลา special fissionable material means plutonium-239, ปกลักษัตร-233: Uranium
20 enriched in the isotope 235 or 233; any material containing one or more of the
21 Toregoing, and such other fissionable material as determined by the IAEA. The
22 cerm "special fissionable material" does not include source material;
23 source" Anything that may cause radiation exposure a such as by emitting
240 lonising radiation or by releasing radioactive substances or radioactive
25 material - and can be treated as a single entity for purposes of protection and
การละ <b>26</b> m S <b>safety</b> al รทีกรด์) ลอดโดยกรดิสต ใก คอดโดยโดร ต ลดสอดก "ลดสมสมัยสา" 💢 🙃
27 a "source material" means Uranium containing the mixture of isotopes occurring
28 in nature; Uranium depleted in the isotopes 235; Thorium; any of the foregoing
29 in the form of metal alloy, chemical compound or concentrate; any of other
30 material containing one or more of the foregoing in such concentration as the

1	IAEA may determine: general y nerralea 1923	
<b>2</b> 波图 15	"SDR" refers to Special Drawing Right which is the unit of account defined	
3 -07 Yo	by the International Monetary Fund and used by it for its own operations and	
<b>4</b> aoi abi	establishing the Nigerian Nuclear Regulatory Authority Renoitasangna	
5	"strong background" refers to the characteristic of being well-informed,	-
6	knowledgeable, scholarly or erudite as well as having up to a decade worth	
7	of experience in a field, and being regarded as an authority within that field;	;
8	"threat assessment" means the process of analysing systematically the	
9	hazards associated with facilities, activities or sources within or beyond the	
10	borders of Nigeria in order to identify:	
11	(a) those events and the associated areas for which protective	
12	actions may be required within Nigeria,	
13	(b) the actions that would be effective in mitigating the	
14	consequences of such events;	
15	"waste" include:	
16	(a) substance which constitute scrap material or an effluent or other	
17	unwanted surplus substance arising from the application or any process and	
18	also includes any substance or article which is required to be disposed of as	** .
19	being broken, worn out, contaminated or otherwise spoilt;	
20	(b) any substance or article which in the course of carrying on any	<b>3.</b>
21	process provided for in this Act is discharged, discarded or otherwise dealt	
22	with as if it were waste shall for the purposes of this Act be presumed to be	
23	waste unless the contrary.	
24	"WMO" means - Waste Management Organisation	
25	108. This Bill may be cited as the Nuclear Safety and Radiation	Short title
26	Protection Act, 1995 (Repeal and Re-Enactment) Bill, 2019.	

## **EXPLANATORY MEMORANDUM**

This Bill seeks to repeal the Nuclear Safety and Radiation Protection Act No. 19 of 1995, and Re-Enact the Safety and Radiation Bill, 2019 by reestablishing the Nigerian Nuclear Regulatory Authority in order to provide for Nuclear Security and Safeguards.