# SAFETY, SECURITY AND SAFEGUARDS BILL, 2019 ARRANGEMENT OF SECTIONS

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## A BILL

#### FOR

AN ACT TO REPEAL THE NUCLEAR SAFETY AND RADIATION PROTECTION ACT NO. 19 OF 1995, ENACT THE NUCLEAR SAFETY, SECURITY AND SAFEGUARDS ACT AND RE-ESTABLISH THE NIGERIAN NUCLEAR REGULATORY AUTHORITY; AND FOR RELATED MATTERS

Sponsored by Senator Boroffice, Robert Ajayi Commencement BE IT ENACTED by the National Assembly of the Federal Republic of Nigeria as follows-PART I - OBJECTIVES OF THE BILL 1 1.-(1) The objectives of this Bill are to: 2 Objectives of the Bill (a) allow for the beneficial and peaceful uses of nuclear energy and 3 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; (c) ensure adequate protection of people and the environment from 8 harmful effects of ionising radiation and other radiation risks, and the safety 9 and security of radiation sources; 10 (d) establish the Nigerian Nuclear Regulatory Authority with the 11 12 functions and responsibilities set forth in this Bill for the purpose of exercising regulatory control over the peaceful uses of ionising radiation 13 14 and to guarantee its independence; (e) authorise the provision of a regulatory framework for civil 15 liability for nuclear incidents or damage, and 16 (f) enable Nigeria to fulfill its obligations under relevant 17 18 international instruments.

	1	PART II - ESTABLISHMENT OF THE NIGERIAN NUCLEAR REGULATORY
	2	AUTHORITY AND ITS GOVERNING BOARD
Establishment of the Nigerian	3	2(1) There is hereby established a body which shall be known as the
Nuclear Regulatory Authority	4	Nigerian Nuclear Regulatory Authority (in this Bill referred to as "the
	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
4.	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 and Membership	27	3(1) There is hereby established for the Authority a Governing
of the Governing Board	28	Board (in this Bill referred to as "the Board").
	29	(2) The Board shall consist of-

1	(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	
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.	Ą
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 Members
30	years and may, subject to satisfactory performance, be re-appointed for a	

	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.
Vacancy on the Board	4	5(1) The office of a Member of the Board shall become vacant
oara .	5	where-
	6	(a) he resigns his appointment by notice addressed to the Chairman or
	7	(b) he becomes of unsound mind; or
	8	(c) he becomes bankrupt or makes a compromise with his creditors; or
	9	(d) he is convicted of a felony or of any other offence involving
	10	dishonesty or corruption; or
	11	(e) he becomes incapable of carrying on the functions of his office
	12	either arising from an infirmity of mind or body; or
	13	(f) he dies; or
	14	(g) he completes his tenure of office; or
	15	(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
	17	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.
unctions of he Board	21	6(1) The Board shall have responsibility for:
	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 of
	26	accounts of the Authority;
	27	(d) appointing and approving fees for auditors;
	28	(e) considering and approving the audited accounts and annual
	29	reports of the Authority; and
· · · · · · · · · · · · · · · · · · ·	30	(f) performing other functions as provided under this Bill.
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l	7(a) A member of the Board shall disclose in writing any personal	Disclosure of
2	interest or otherwise that the member has in the activities or practices	interest
3	regulated by the Authority.	
4	(b) A member of the board who has an interest in a matter for	
5	consideration shall:	
6 .	(i) disclose the nature of the interest and the disclosure shall form	
7	part of the records of the consideration of the matter; and	ř
8	(ii) not participate in the deliberations of the board in respect of that	
9	matter.	
10	(c) A member ceases to be a member of the Board if that member	
11	has an interest in a matter before the Board and:	-
12	(i) fails to disclose that interest; or	
13	(ii) participates in the deliberations of the Board in respect of that	
14	matter.	
15	PART III - FUNCTIONS AND POWERS OF THE AUTHORITY	
16	8(1) Subject to the provisions of this Bill, the Authority shall be	Functions of
17	charged with the responsibility for the control of activities and practices	the Authority
18	identified in this Bill and, without prejudice to the foregoing, the Authority	
19	shall:	
20	(a) provide advice or assistance to the Federal Government in the	
21	development of national policies and measures for the regulatory control of	
22	activities and practices under this Bill;	
23	(b) issue rules, regulations and guidelines as prescribed under this	
24	Bill, which shall be binding on all users of radioactive sources, operators of	
25	nuclear installations, operators of prescribed substances and other practices,	
26	and operators of sources involving exposure to ionising radiation;	
27	(c) establish standards for the protection of life, property and the	
28	environment from the potentially harmful effects of ionising radiation,	
29	while allowing beneficial practices involving exposure to ionising	
30	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	(1) 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	authorisedpractices 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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application of safeguards in accordance with the Safeguards Agreement, and any protocols thereto, between Nigeria and the International Atomic Energy Agency, including conducting inspections and visits, carrying out complementary access and providing any assistance or information required by designated International Atomic Energy Agency inspectors in the fulfillment of their responsibilities;  (p) establish regulatory measures for the security of nuclear and other radioactive material, and their associated facilities, including measures for the detection, prevention and response to unauthorised or malicious acts involving such material, or facilities;  (q) participate in the definition of the Design Basis Threat (DBT) for the implementation of security provisions;  (r) establish, in cooperation with other competent national authorities, plans and procedures which shall be periodically tested and assessed for coping with any radiation emergency and abnormal occurrence involving nuclear material and radiation sources;  (s) regulate the safe promotion of nuclear research and development, and radiation safety and security necessary to implement its functions;  (t) liaise and foster cooperation with relevant national and international bodies or institutions having similar objectives for the effective performance of its functions under this Bill;  (u) establish appropriate mechanism and procedures for informing the public and other stakeholders about the regulatory process, and the safety, health and environmental aspects of regulated activities and practices, including incidents, accidents and abnormal occurrences;		
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development, and radiation safety and security necessary to implement its functions;  (t) liaise and foster cooperation with relevant national and international bodies or institutions having similar objectives for the effective performance of its functions under this Bill;  (u) establish appropriate mechanism and procedures for informing the public and other stakeholders about the regulatory process, and the safety, health and environmental aspects of regulated activities and practices, including incidents, accidents and abnormal occurrences;	17	involving nuclear material and radiation sources;
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(t) liaise and foster cooperation with relevant national and international bodies or institutions having similar objectives for the effective performance of its functions under this Bill;  (u) establish appropriate mechanism and procedures for informing the public and other stakeholders about the regulatory process, and the safety, health and environmental aspects of regulated activities and practices, including incidents, accidents and abnormal occurrences;	19	development, and radiation safety and security necessary to implement its
international bodies or institutions having similar objectives for the effective performance of its functions under this Bill;  (u) establish appropriate mechanism and procedures for informing the public and other stakeholders about the regulatory process, and the safety, health and environmental aspects of regulated activities and practices, including incidents, accidents and abnormal occurrences;	20	functions;
effective performance of its functions under this Bill;  (u) establish appropriate mechanism and procedures for informing the public and other stakeholders about the regulatory process, and the safety, health and environmental aspects of regulated activities and practices, including incidents, accidents and abnormal occurrences;	21	(t) liaise and foster cooperation with relevant national and
(u) establish appropriate mechanism and procedures for informing the public and other stakeholders about the regulatory process, and the safety, health and environmental aspects of regulated activities and practices, including incidents, accidents and abnormal occurrences;	22	international bodies or institutions having similar objectives for the
the public and other stakeholders about the regulatory process, and the safety, health and environmental aspects of regulated activities and practices, including incidents, accidents and abnormal occurrences;	23	effective performance of its functions under this Bill;
safety, health and environmental aspects of regulated activities and practices, including incidents, accidents and abnormal occurrences;	24	(u) establish appropriate mechanism and procedures for informing
practices, including incidents, accidents and abnormal occurrences;	25	the public and other stakeholders about the regulatory process, and the
	26	safety, health and environmental aspects of regulated activities and
(v) regulate the possession and application of radioactive	27	practices, including incidents, accidents and abnormal occurrences;
	28	(v) regulate the possession and application of radioactive

substances and devices emitting ionising radiation;

(w) regulate the introduction of radiation sources, associated

Powers of the Authority

1.	racinues 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.
12	9(1) The Authority shall have power to:
13	(a) categorise practices and activities involving exposure to ionising
14	radiation;
15	(b) acquire offices and other premises and establish such number of
16	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
21	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	(b) 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	
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	
20	THE AUTHORITY	
21	10(1) There shall be for the Authority, a Director-General, who	Appointment of the Director-
22	shall be the chief adviser to the Board.	General
23	(2) There shall be appointed by the President of the Federal	
24	Republic of Nigeria for the Authority, a Director-General who shall be the	
25	Chief Executive of the Authority and be responsible for the day-to-day	
26	administration of the affairs of the Authority.	
27	(3) The Director-General shall be a person of proven integrity and	
28	shall have not less than 12 years practical regulatory experience in the	
29	application of nuclear energy and ionising radiation in science and	71 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
30	technology, nuclear safety and radiation protection.	

Tenure of Office
and Removal of
the Director-
General

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11	~(1) Th	e Director	-Genera	Ishallho	dd office:

- (a) for a term of five (5) years in the first instance and may be reappointed for a further term of five (5) years; and
- (b) on such terms and conditions as may be specified in his letter of appointment.
- (2) Notwithstanding the provisions of subsection (1) of this section, the Director-General may:
  - (a) resign his appointment by a notice in writing, addressed to the 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;
  - provided that the removal of the Director-General shall not take effect without the approval of the Senate.

#### Other Staff of the Authority

- 12.-(1) The Authority may, subject to the approval of the Board, appoint such other staff as it may deem necessary and expedient for the proper and efficient performance of the functions of the Authority; and on such terms and conditions as may be determined by the Board.
- (2) Notwithstanding the provisions of subsection (1) of this section, employees of the Authority may also be appointed by way of transfer or secondment from any of the public services of the Federation or by contract.

## Conditions of Service

13. Service in the Authority shall be subject to the provisions of the Pension Reform Act. Corporate Policy and Procedure Guide and such conditions of service as approved by the Board. Accordingly, officers and employees of the Authority shall be entitled to pensions, gratuities and other retirement benefits as are prescribed under the Pension Reform Act as approved by the board.

# Structure of the Authority

- 14.-(1) There shall be established within the Authority, the following departments:
- 30 (i) Department of Authorization and Enforcement;

1	(ii) Department of Nuclear Safety;	
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 V - Financial Provisions	
14	15(a) 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	<b>%</b>
17	(b)gifts, testamentary dispositions or grants, provided that such are	
18	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	
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 of the Fund
29	section 15 of this Bill-	Ato r filled
30	(a) the cost of administration of the Authority;	

Annual Estimates, Accounts and Audits

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Auditor-General of the Federation.

1	(b) anowances and benefits of members of the Board and for
2	reimbursing members of the Board or of any committee set up by the Board and
3	for such expenses as may be expressly authorised by the Board;
4	(c) the salaries, fees or other remuneration or allowances, and
5	pensions, and other benefits payable to the staff and other employees of the
6	Authority;
7	(d) for the development and maintenance of any property vested in or
8	owned by the Authority;
9	(e) for maintaining general financial reserves subject to general or
10	special directives that may be given in that behalf by the Board in accordance
11	with the provisions of this Bill; and
12	(f) for, or in connection with, all or any of its functions under this Bill.
13	(2) Any monies generated or collected by the Authority from the
14	sources listed in subsection (1) of section 15 which are in excess of its budget as
15	approved by the National Assembly shall be paid into the Consolidated
16	Revenue Fund of the Federation.
17	(3) The Authority shall set aside a minimum of 10% of its fund for
18	staff entitlements as specified in the Corporate Policy and Procedure Guide
19	subject to review by the Board, for the purpose of providing recognition for
20	long service to the Authority and such fund shall be invested in an interest-
21	yielding account subject to the recommendation of the National Pension
22	Authority,
23	17(1) The Authority shall submit to the Board an estimate of its
24	expenditure and income (including payments to the Fund) for the next
25	succeeding year not later than 28th February each year.
26	(2) The Authority shall keep proper accounts in respect of each year
27	and proper records in relation to those accounts and shall cause its accounts to
28	be audited not later than three months after the end of each year by auditors

appointed from the list and in accordance with the guidelines supplied by the

$A^{*}$	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		
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		
7	SECURITY COMMITTEE		
8	19(1) There is established a National Nuclear Security	Establishment of the National	
9	Committee (in this Bill refired to as "the Nuclear Security Committee").	Nuclear Security Committee	
10	20(1) The Nucle of Security Committee shall consist of:	Composition of	
11 .	(a) the National Security Adviser as the Chairman;	the Nuclear Security Committée	
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	(I) 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	(ii) the National Emergency Management Agency; and		
28	(iii) one (1) other person to be appointed from within the Authority		
29	by the Director-General.	•	
30	(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 at
	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 deem
	11	necessary
Functions of the Nuclear	12	21(1) The Nuclear Security Committee shall, in collaboration with
Security Committee	13	the Authority:
	14	(a) consider issues referred to it by the Director-Generalor any other
en e	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	(c) define and develop a response strategy to nuclear security
**	. 20	incidences.
•	21	PART VII - NATIONAL RESEARCH INSTITUTE FOR NUCLEAR SAFETY
	22	AND RADIATION PROTECTION
Establishment of the National	23	22(1) The Authority shall establish a "National Institute for Nuclear
Institute for Nucléar Safety	24	Safety and Radiation Protection (in this Bill referred to as "the Institute") either
and Radiation Protection	25	independently or in collaboration with any University or other institution.
Appointment of General	26	23(1) The Authority shall, with the approval of the Board, appoint
Manager and other Staff of	27	for the Institute, a General Manager who shall be responsible to the Authority
the 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	the field of nuclear science or engineering, or radiation sciences with not	V .
2	less than ten (10) years cognate experience; or	
3	(b) possess practical experience of not less than ten (10) years in	
4	research, administration, training, and the application of nuclear energy,	
5	nuclear and radiation safety.	
6	(3) The General Manager shall hold office-	
7	(a) for a term of four (4) years in the first instance and may be	
8	reappointed for a further term of four (4) years, subject to satisfactory	
9	performance; and	
10	(b) on such terms and conditions as may be specified in his letter of	
11	appointment.	
12	(4) The Institute may, with the approval of the Authority, appoint	
13	such other employees and agents as it may deem necessary for the efficient	
14	performance of its functions under this Bill.	
15	24(1) The General Manager may-	Removal of
16	(a) resign his appointment by a notice in writing, addressed to the	General Manager
17	Director-General of the Authority; or	
18	(b) be removed by the Director-General upon approval of the	
19	Board, for inability to discharge the functions of his office (whether arising	
20	from infirmity of mind or body or any other cause) or for misconduct or	
21	corruption.	
22	25(1) The Authority shall establish a Management Board for the	Management Board of the
23	Institute which shall be chaired by the Director-General of the Authority.	Institute
24	(2) Other members of the Management Board referred to in	
25	subsection (1) of this section, shall consist of-	
26	(a) two General Managers of the Authority responsible for	
27	radiation protection and nuclear safety;	
28	(b) one member representing each host institution to the Institute.	•
29	(c) the General Manager of the Institute.	
30	(3) Notwithstanding the provisions of subsection (2) of this	

,		
	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
	7	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	estimate of the Authority for that year.
Functions and Powers of the	12	27(1) The Institute as a Technical Support Organisation (TSO) to the
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,
	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.

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 $\Lambda$ uthority.
30	(7) Upon receipt of an application under subsection (4) of this

	1	section, the General Managers of the relevant Department or any other officer
	2	directed by him shall inspect the premises to which the application relates and
	3	carry out such other investigations as required in section 41(4) of this Act.
	4	(8) The Authority may-
	- 5	(a) where it is satisfied with the information submitted by the
	6	applicant, grant the authorisation subject to such regulations, terms and
	7	conditions as may be determined by the Authority from time to time; or
	8	(b) refuse an application for authorisation, but shallstate the reason(s)
	. 9	for the refusal, in writing.
	10	(9) Where an application is granted, the Authority shall-
	11	(a) register the applicant in respect of those premises and in respect of
	12	the keeping and use thereon of the radioactive material or source of ionising
	13	radiation of the description to which the application relates; or
	14	(b) Where the application relates to two or more sources of ionising
	15	radiation; register the applicant in respect of the keeping and use thereon of
	16	such one or more sources of ionising radiation as may be specified in the
	17	registration.
	18	(10) On authorising a source or practice under this section in respect
	19	of any premises, the Authority shall furnish the registrant with a certificate
	20	containing all particulars of the authorisation and shall send a copy of the
	21	certificate to the relevant organs of government.
Restriction on Fransfer	22	30(1) No person shall assign, transfer or receive, either totally or
	23	partially, any right or obligation specified in any licence under this Bill without
	24	authorisation from the Authority.
Validity of Authorisation	25	31(1) Authorisation granted pursuant to an application shall be valid
	26	for the period stipulated in the licence unless otherwise determined by the
•	27	Authority.
	28	(2) Any application for renewal of a licence shall be submitted at least
	29	three months before the expiration of the licence.
	30	(3) Issuance or renewal of a licence may be granted in advance and

1	such licence shall take effect on the date of expiry of the current licence.				
2	32(1) The Authority shall make publicly available, information	Invalidation of Licence			
3	on the procedures and requirements for suspension, modification,	Licence			
4	revocation 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.	ą			
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				
30	by the granting of a nuclear installation licence 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.

(6) The Authority may at any time during the construction of an

1	installation, request such information as it deems necessary to evaluate the	<i>&gt;.</i> '
2	health, safety, security or environmental aspects of the construction and	
3	future operation of the installation.	•
4	34(1) Any vessel that is propelled by nuclear power or which has	Restriction on
5	on board any nuclear material shall not-	Vessels propelled by Nuclear Power
6	(a) anchor or sojourn in the territorial waters, Exclusive Economic	<del>व</del> -
7	Zone, or other zone within the jurisdiction of Nigeria; or	•
8	(b) enter any port in Nigeria unless it possesses a nuclear vessel	•
9	license.	•
10	(2) Where a vessel referred to in subsection (1) anchors or sojourns	
11	in the territorial waters, Exclusive Economic Zone, or other zone within the	
12	jurisdiction of Nigeria, the operator of the vessel shall notify the Nigerian	
13	Maritime Administration and Safety Agency or any other relevant	
14	government agency that is propelled by nuclear power or has on board	
15	nuclear material.	
16	(3) The Nigerian Maritime Administration and Safety Agency or	
17	any other relevant government agency shall in turn immediately notify the	
18	Authority of the fact that a vessel is propelled by nuclear power or has on	
19	board any nuclear material.	· ·
20	(4) In the event of an emergency landing in Nigeria, of an aircraft	
21	which is propelled by nuclear power or which has on board any nuclear	
22	material, the operator of the aircraft shall notify the Nigerian Civil Aviation	
23	Authority that it is propelled by nuclear power or has on board nuclear	
24	material.	
25	(5) The Nigerian Civil Aviation Authority shall in turn immediately	•
26	notify the Authority of the fact that an aircraft is propelled by nuclear power	
27	or has on board any nuclear material.	•
28	(6) The Authority shall have the power to inspect all vehicles,	
29	vessels and aircrafts within the jurisdiction of Nigeria for nuclear or	
30	radioactive material	

Consumer Products

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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.
- 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

Mining and Milling of

Radioactive Ores

1	prejudice to the requirements contained in any applicable national laws on			
2	mining.			
3 -	37(1) The sources of ionising radiation shall be as categorised in	Categorisation		
4	the Second Schedule of this Bill.			
5	38(1) The Authority shall convene a public hearing on any	Public Hearings		
6	application to site a nuclear installation in any part of the Federation;			
7	provided that notice of same shall be published in 3 national dailies not less			
8	than 60 days before the public hearing.			
9	(2) Pursuant to subsection (1) of this section, announcements shall			
10	be made in 3 different radio stations in the proposed location of the facility.	•		
11	(3) Where the Authority is of the opinion that further public hearing			
12	or inquiry is necessary, it shall arrange for such hearing or inquiry to			
13	consider health, safety, security or environmental issues, as may be			
14	determined, from time to time.			
15	(4) Notice is deemed to have been given in compliance with this			
16	Bill once subsections (1) and (2) of this section have been complied with.			
17	39(1) Without prejudice to the powers of the Authority under this	Exemptions		
18 -	Bill, the Authority may exempt from regulatory requirements, practices and			
19	sources which comply with the exemption criteria established by the	-		
20	Authority.			
21	(2) The Authority shall not grant exemption for practices deemed			
22	not to be justified.	•		
23	40(1) No person shall use nuclear material or ionising radiation	Limitations and Conditions		
24	sources for purposes other than those specified in the authorisation.	Conditions		
25	(2) Any registration under this section in respect of any premises	•		
26	may be subject to such limitations or conditions as:	%		
27	(a) including requirements for structural or other alterations in			
28	respect of any apparatus, equipment or appliance, nuclear material,			
29	radioactive substances or a source of ionising radiation from which			
30	radioactive waste is likely to arise;			

Appointments and Powers of Inspectors

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

radiological installations, practices, nuclear material and other ionising

radiation sources; and facilities of radiation safety service providers in the

country to monitor compliance with the requirements of this Bill, any

A PART X - PAROROHAN NAVIRES	
applicable regulations, and the terms and conditions of authorisation issued	. 6 **
more that as variating the constitute of the condition of	ร์ดอส <b>อราช</b> ใช้สี เมษาร์
Ilid eid for morpositing address indicates and liede dold ward?  3 (5) The Authority shall station inspectors at the site of an activity or	
seingrees links med the memore) if a station was the common of the company of the second section is a second section of the second section in the common of the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the section is a second section in the section is a section in the section in the section is a section in the section in the section is a section in the section in the section is a section in the section in the section is a section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section in the section is a section in the secti	
4 practice where this is determined to be necessary.	
. 5 (a) inspectors of the Authority:	
5 (6) An inspector appointed in furtherance of the provisions of buggested in furtherance of the provisions of	
6 subsection (1) shall have the powers to-	
7 (c) Law enforcement and security personnel	
7 (a) enter, without hindrance, at any time approved by the Authority.	
to be bronder of the Director-Coneral with the premises, vehicle, ship or aircraft to which this section applies, with	
any premises, venicie, sint of aneith to which this second appress, while the second or deploy.	
9 such equipment as the inspector requires for the performance of such duty as	•
(0) to the Authority such number of officers as may, from time to time be required	
10 specified under this Bill:	
11 to supplement the Enforcement Team of the Authority.	
(b) inspect any plans, drawings, records, registers or documents	
12 (4) The Enforcement Team shall assist the Authority to	
13 - I arry out investigation into any matter under this Hill.	
(i) the siting, design, construction, testing, development,	
<ul> <li>i4 (b) arrest any person that contravenes the provisions of this Bill;</li> </ul>	
14 commissioning, operation, decommissioning or abandonment of a facility	
is (c) in furtherance of this Bill, with or without warrant, cuter into and	
the senior and president of the Authority of the respect of which the Authority of the resemble of the senior of the Authority of the respondent of the senior of the seni	
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in the neath, safety, security or environmental aspects of any simple and additional aspects of a simple additional aspects of a simple and additional aspects of a simple additional aspects of a simple additional addition	
17 activity covered by this Bill,	
18 about to be carried on and assist in confiscating any material for such purpose	•
18 (iii) any matter relevant to the enforcement of this Bill;	
19 found there, and	
bns stremeruseem, resignes each take streme (d) seal any incitity involving the use or storage of nuclear material,	
20 photographs of any installation;	
21 radioactive sources or ionishy radiation sources without authorisation as	
21 (d) direct the owner or operator of any vehicle, ship or aircraft to	
22 provided for under this Bill.	
provide such information relating to the vehicle, ship or aircraft as he may	
Das Gamer (througs of their madi memoroted off to stadmaM (8) SS 23 require; and	
24 certified on radiation protection and safety by the Authoracy for the purposes of	
(e) direct operators of nuclear power installations, research	
23 this Bill.	
reactors and other facilities to carry out emergency drills and stop unsafe	
26 44-(1) Where an authorised person or maily is found to be in	programme in f
26 operation and practices, entries equivalent to the analysis of the solution and practices, entries equivalent to the analysis of the solution and the soluti	a weekling with
27 42. The inspector shall submit a report of the inspection or	Inspection Report
- z tados infoncestilas Venenoban pali odus Hade redopped na encaratevaldas - 🐒 - 💎	makasum izaban
28 investigation to the Authority for necessary or appropriate action within	
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29 such period as may be determined by the Authority.	

Enforcement Team

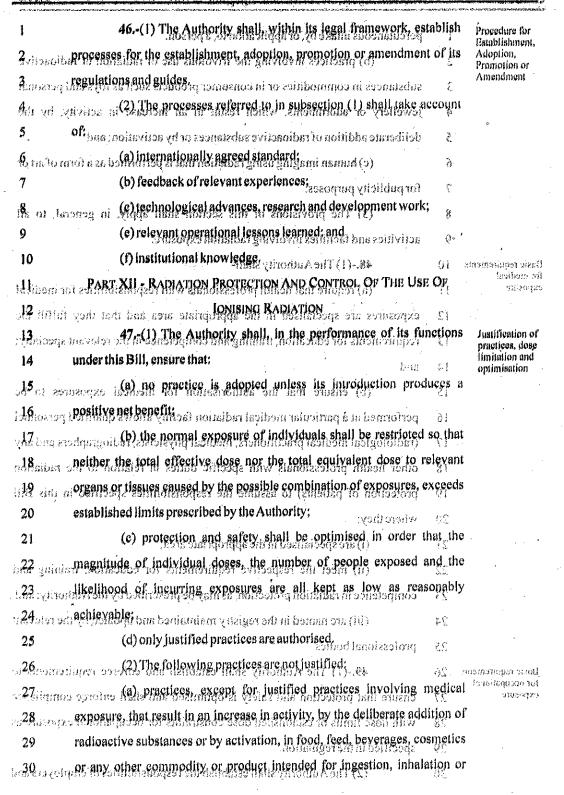
Enforcement Measures

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

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

(a) withdrawn, reversed or modified by an action of the Authority; or

(b) altered through an administrative appeal or judicial review (2) in all cases, the person or entity subject to entirecement action (8) The monetary fines shall be as specified in a list of penalties issued shall, within the time stipulated by the Authority, take such remedial measures from time to time by the Authority. as the Authority may prescribe. (9) All expenses incurred by the Authority in the process of (1) Where there is a violation that is of minor safety or security confiscation, sealing, seizure, closure and management as a result of nonconcern, the Authority may issue a warting in writing and determine the period compliance shall be the responsibility of the violator of the Bill. of time during which remedial action must be taken. (10) Where an enforcement action is taken, any confiscated materials (4) Wherethere is an immediate safety or security hazard to people or shall be secured and managed by the Waste Management Organisation under the environment, the Authority may require the person or entity subject to this Bill. enforcement action to suspend its activities until the shuation has been PART XI - REGULATIONS AND GUIDES 10 corrected; in such cases, the Authority may also suspend, revoke or modify the 45.-(1) the Authority shall establish or adopt regulations and guides to Regulations terms and conditions of the amborismion and Guides specify the principles, requirements and associated criteria upon which its 12 (3) Where there is poisistent of grave violation of the tenns and regulatory judgement, decisions and actions are based. 13 conditions of an authorisation or in cases of significant release of radioactive (2) the regulations and guides referred to in subsection (1) shall be 14 material into the cavironment, the Authority joay revoke the authorisation and reviewed and revised as necessary to keep them updated and in accordance 15 require the authorised person to remedy any unrafe condition with the relevant international safety standards, technical standards and 16 (6) infercement action may also include one or more of the relevant experience gained. 17 Latti wolfen. (3) the Authority shall notify interested parties and the public of the 18 (a) corrective actions including verbal instructions from inspectors. principles and associated criteria for safety established in its regulations and 19 imposition of additional regulatory requirements and conditions, and written guides and make all such regulations and guides free of charge and readily 20 BUILDING available. 21 (b) sanctions which may be administrative such as monetary facts or (4) the regulations and guides shall provide the framework for the 22 ลสอบไทยให้เราเก็ด อาการเกี่ยว ดา ดาโทยโทยให้เกียวให้เล regulatory requirement and conditions to be incorporated into individual 23 (c) as order for the authorized perion or entity to prohibit workers authorisations or applications for authorisation and identify the criteria to be 24 to givitan adı megrapayan medi amamaninişir aldıkadıng mi team team team de aldır. 25 used in accessing compliance. phibarc (5) The regulations and guides shall be kept consistent and (d) confidention of materials, scaling of promises and facilities or comprehensive, and shall provide adequate coverage commensurate with 27 closing down any authorised or unauthorised activities. radiation risks associated with the facilities and activities, in accordance with a (7) inforcement actions taken ander this section sight remain at torce graded approach. 29 diama bana azolan 40 (a) with town, reversed or modified by squanion of the Anthority, or OK.



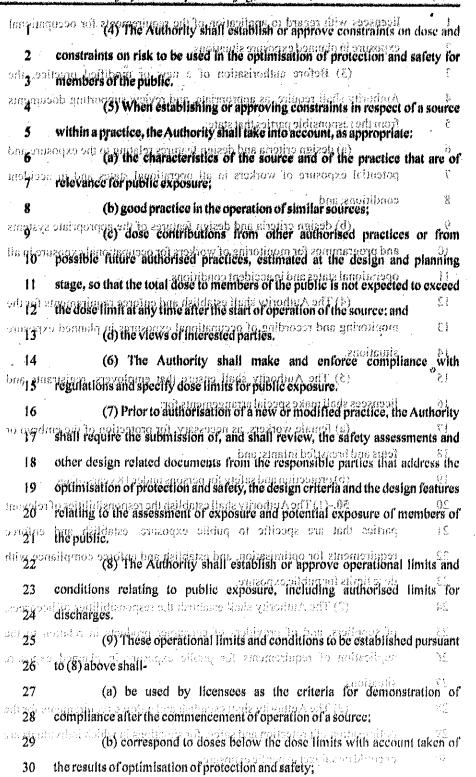
•	1	percutaneous intake by, or application to, a person.
	2	(b) practices involving the frivolous use of radiation or radioactive
•	3	substances in commodities or in consumer products such as toys and personal
. •	4	jewellery or adornments, which result in an increase in activity, by the
	5	deliberate addition of radioactive substances or by activation; and
	6	(c) human imaging using radiation that is performed as a form of art or
	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 for medical	10	48(1) The Authority shall-
exposure	11	(a) require that health professionals with responsibilities for medical
	12	exposures are specialised in the appropriate area and that they fulfill the
. •	13	requirements for education, training and competence in the relevant specialty;
4	14.	and
	15	(b) ensure that the authorisation for medical exposures to be
	16	performed at a particular medical radiation facility allows qualified personnel
•	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 Bill
	20	where they:
<b>.</b>	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
Basic requirements for occupational	26	49(1) The Authority shall establish and enforce requirements to
exposure	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

1	licensees with regard to application of the requirements for occupational
2	exposure in planned exposure situations.
3. ,.	(3) Before authorisation of a new or modified practice, the
4	Authority shall require, as appropriate, and review supporting documents
5	from the responsible parties that state:
6	(a) design criteria and design features relating to the exposure and
7	potential exposure of workers in all operational states and in accident
8	conditions; and
9 :	(b) design criteria and design features of the appropriate systems
10	and programmes for monitoring of workers for occupational exposure in all
11	operational states and in accident conditions.
12	(4) The Authority shall establish and enforce requirements for the
13	monitoring and recording of occupational exposures in planned exposure
14	situations.
15	(5) The Authority shall ensure that employers, registrants and
16	licensees shall make special arrangements for:
17	(a) female workers, as necessary, for protection of the embryo or
18	fetus and breastfed infants; and
19	(b) protection and safety for persons under 18 years of age.
20	50(1) The Authority shall establish the responsibilities of relevant Basic requirements
21	parties that are specific to public exposure, establish and enforce
22	requirements for optimisation, and establish and enforce compliance with
23	dose limits for public exposure.
24	(2) The Authority shall establish the responsibilities of licensees.
25	of suppliers, and of providers of consumer products in relation to the
26	application of requirements for public exposure in planned exposure
27	situations.
28	(3) The Authority shall establish and enforce requirements for the
<u>19</u>	optimisation of protection and safety for situations in which individuals are

or could be subject to public exposure.

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1	(c) reflect good practice in the operation of similar facilities or		
2	activities;		
3	(d) allow for operational flexibility; and		
4	(e) consider the result of the prospective assessment for		
5	radiological environmental impacts undertaking in accordance with		
6	requirements of the Authority		
7	(10) When a source within a practice could cause public exposure	•	
8	outside Nigeria or in areas beyond the jurisdiction or control of Nigeria, the		
9	Authority shall -		
10	(a) ensure that the assessment for radiological impacts includes		
11	those impacts outside Nigeria or in areas beyond the jurisdiction or control		
12	of Nigeria;	•	
13	(b) to the extent possible, establish requirements for the control of		
14	discharges;		
15	(c) arrange with the affected foreign State the means for the		
16	exchange of information and consultations, as appropriate.		
17	(d) The Authority shall ensure that all relevant parties shall apply		
18	the system of protection and safety to protect members of the public against		Commen
19	public exposure.		
20	51(1) The authorised persons or organisations responsible for	Basic obligations	
21	facilities and activities that give rise to radiation risks shall have the prime	for authorised persons	
22	responsibility for protection and safety; other parties shall have specified		
23	responsibilities for protection and safety.		
24	(2) The authorised persons or organisations responsible for any		
25	facility or activity that gives rise to radiation risks shall have the prime		
26	responsibility for protection and safety, which cannot be delegated.		
27	(3) The principal parties responsible for protection and safety are -		
28	(a) licencees, or the person or organisation responsible for facilities		
29	and activities for which notification only is required;		
30	(b) employers in relation to occupational exposure		

Obligation to Report

1	(c) radiological medical practitioners, in relation to medica
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.
18	52(1) Where a nuclear or radiological emergency occurs, any person
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	
4	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	
8	of radioactive contamination that could spread beyond the territorial	
9	boundaries of Nigeria, the Authority shall immediately notify the	
10	International Atomic Energy Agency, the Board and the relevant agencies of	
11	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:	4
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.	

	i	(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 covered by this	6	54(1) Where a practice involving exposure to radiation is not
Bill 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
	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.

30

radiological emergencies.

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
7	makes adequate arrangements for emergency preparedness and response	preparedness and response
8	which arrangement shall include clear assignment of the responsibility to	
9	immediately notify the Authority of an emergency.	
10	(2) In perforning 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 Plan
23	a facility, possess or use a source may be granted unless and until an	and Procedures
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 national	
27	agencies shall develop a National Emergency Plan and Procedures, which	
28	shall be periodically tested and assessed for coning with any nuclear and	

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

	1	emergency, the Authority shall advice the Federal Government and Respons
	2	agencies, and shall provide expert services in accordance with its function
	- 3	under the Bill.
	4	(4) The National Emergency Plan and Procedures for nuclear of
	5	radiological emergencies shall include an allocation of responsibilities and
÷	6	actions among relevant agencies.
	7	(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
	11	nuclear material and other radiological installations shall, immediately, report
	12	to the Authority any theft or loss of radioactive or nuclear material under his
	13	possession or control.
Operator's Intervention plan	14	60(1) The Authority shall, for any activity capable of resulting in
	15	accidental exposure of workers or members of the public to nuclear material or
	16	, ionising radiation sources, require the operator to establish an intervention plan
	17	which shall deal with any foreseeable situation and organise emergency drills
	18	for demonstrating the efficacy of the planned counter-measures.
	19	(2) Where a nuclear or radiological incident or accident capable of
	20	affecting the public occurs, the Authority shall direct the operator, to-
	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
	24	management of such emergency plan insofar as it relates to the relevant nuclear
	25	installation or any action contemplated under this Bill
	26	(3) The Authority, prior to issuing a licence shall assess that such
	27	plans are effective and practicable for the protection of persons in case of any
•	28	nuclear or radiological emergency.
Implementation of Emergency	- 29	61(1) Where a nuclear or radiological incident or accident occurs,
Plans	30	the operator shall implement the emergency plan as approved by the Authority.

provisions of the appropriate regulations.

1	62(1) The Authority shall-	Maintenance
2	(a) keep and maintain records of the details of every nuclear	and Removal from Records
3	incident or accident;	.*
4	(b) retain such records for at least 50 years from the date of the	
. 5	incident or accident; and on the request of any person, upon a court order to	
6	that effect, make such records available to such person provided that such a	
7	person endorses a confidentiality statement	
8	(2) Where in the opinion of the Authority, a risk of nuclear damage	
9	arising from anything done being done or purported to have been done, or	
10	which has been or is present in any nuclear installation in respect of which a	
11	nuclear installation licence is no longer in force, is within safety standards	•
12	made pursuant to this Bill, the Authority may expunge the particulars in	
13	connection to it from the record,	
14	PART XVI - TRANSPORTATION OF RADIOACTIVE MATERIAL	•
15	63(1) All authorised persons under this Bill have the primary	Requirements
16	responsibility for the safety and security of nuclear and other radioactive	for Transportation
17	material and radioactive waste.	
18	(2) The Authority shall establish requirements for the safe and	•
19	secure transport of nuclear and other radioactive material and radioactive	
20	waste.	
21	(3) A consignor, carrier and consignee of radioactive material and	
22	radioactive waste shall obtain a licence from the Authority and notify the	
23	Authority well in advance and prior to the delivery, transport and receipt of	
24	any such material.	
25	(4) During transportation, the consignor or the carrier shall be	-
26	responsible for all damages to workers and the general public arising from	
27	inaccurate, wrong or incomplete notification and information.	
28	(5) Any nuclear and other radioactive material and radioactive	
29	waste stored in transit shall be stored and handled in accordance with the	

1 PART XVII - RADIOACTIVE WASTE AND SPENT FUEL MANAGEMENT National Policy 2 64.-(1) The Authority shall develop a national policy for radioactive and Strategy on Radioactive 3 waste and spent fuel management in collaboration with other relevant agencies Waste and Spent Fuel Management 4 and bodies. Such policy shall be subject to the approval of the Federal 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 8 Convention on the Safety of Spent Fuel Management and on the Safety of 9 Radioactive Waste Management, Control of 10 65,-(1) No person or entity shall operate a radioactive waste or spent Radioactive Waste and Spent Fuel 11 fuel management facility without an authorisation issued by the Authority. 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 radioactive waste and spent fuel management from generation to disposal. 17 18 (4) To ensure the safe and secure management of radioactive waste 19 and spent fuel in Nigeria, the Authority shall establish applicable safety and 20 security requirements and regulations for the protection of people and the 21 environment from adverse impacts of radioactive waste and spent fuel

Responsibility for Safety and Security of Radioactive waste 22

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Management.

**66.-**(1) The prime responsibility for ensuring the safety and security of radioactive waste and spent fuel rests with the holder of the relevant authorisation.

management activities in accordance with the Joint Convention on the Safety

of Spent Fuel Management and on the Safety of Radioactive Waste

(2) The responsibility for ensuring the safety and security of radioactive waste or spent fuel for which no licensee or entity can be determined shall rest with the Authority.

l	67(1) The licensee of a nuclear waste disposal facility shall	Disposal Plan
2	prepare a plan for the closure of that facility that includes both active and	
3	passive institutional controls and submit same to the Authority for approval	•
4 .	prior to the operation of that facility.	
5	68(1) No person shall import any radioactive waste generated	Prohibition of Import of
6	outside the territory of Nigeria into the country.	Radioactive Waste
7	(2) No license shall be given for the importation of any radioactive	
8	source unless an agreement to return the spent source to the manufacturer is	
9	made prior to importation.	
10	69(1) Radioactive waste or spent fuel generated within Nigeria	Restriction on
11	shall be exported only upon the issuance of an authorisation by the Authority	Export of Radioactive Waste
12	and in line with requisite terms and conditions as the Authority shall deem	
13	necessary.	
14	(2) The Authority shall have due regards to international	
15	conventions and practices with respect to exportation of such materials.	
16	70(1) Radioactive waste or spent fuel in transit shall be stored and	Packaging and Storage of
17	handled in accordance with regulations to be issued by the Authority	Radioactive Waste and Spent Fuel
18	(2) A person who intends to dispatch radioactive waste shall carry	Management in transit
19	out the packaging of the radioactive waste in compliance with the packaging	•
20	and testing requirements as laid down in the Transport Regulations	
21	71(1) The Carrier of radioactive waste shall be liable financially	Liability of Carrier
22	or otherwise for all incidents and accidents during transportation or storage	waste
23	in transit of the radioactive waste.	
24	(2) Notwithstanding the provisions in subsection (1) of this	
25	section, the operator of a facility or carrier of radioactive waste, who is	
26	responsible for an incident resulting in radioactive contamination of the	
27	environment shall be liable on conviction, for the restoration of the	
28	environment or for the cost of such activities as are necessary for the	
29	restoration of the environment to its original state.	

Insurance cover

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## PART XVIII - INSURANCE AND FINANCIAL RESPONSIBILITY

- 72.-(1) every operator of a nuclear installation shall maintain an insurance cover with a qualified insurer designated by the Minister of Finance and accredited by the Authority or provide other financial guarantee adequate 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 damage.
- (2) Based upon the approval of the Authority, the liability of the 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 million SDRs, provided that the difference up to at least the equivalent in Naira of 300 million SDRs shall be made available by the Federal Government via appropriation by the National Assembly with a view to covering nuclear damage under this Bill.
- (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 sources as provided for in the Second Schedule of this Bill.

73.-(1) Provision shall be made in the Appropriation Act for a nuclear damage compensation fund which shall be held by the CBN and managed by the Authority.

(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 guarantee required to be made available by the Federal Government of Nigeria with a view to covering nuclear damage, to the extent that the yield of insurance or other financial security is inadequate to satisfy such claims pursuant to this Bill.

(3) Where the Authority is satisfied that the total amount of claims of compensation against an operator of a nuclear installation that is unpaid exceeds the amount of security given by such operator under this Bill with respect to such claims, the Authority shall-

Nuclear Damage Compensation Fund

1	(a) submit a report to the President of the Federal Republic of	
2	Nigeria requesting for approval to pay from funds of the Nuclear Damage	
3	Claims Fund appropriated by the National Assembly on the nuclear damage	
4	in question, so as to render financial assistance to the operator to the amount	
5	by which the claims exceed or are likely to exceed the financial security; and	
6	(b) by notice published in the Federal Gazette, suspend the	
7	obligation to pay the claims in respect of the nuclear damage until the	
8	National Assembly has decided on the recommendation.	
9	(3) The liability of a person who has provided or shall provide	
10	financial security shall not be affected by any appropriation under	
11	subsection (2) of this section.	
12	74(1) For a ten - year period from the date of entry into force of	Limitation of
13	this Bill, upon approval of the Authority, the liability of the operator may be	Liability
14	limited to less than the equivalent in Naira of 100 million SDRs in respect of	
15	a nuclear damage occurring within that period, provided that the difference	
16	up to the equivalent in Naira of 200 million SDRs shall be made available by	
17	the Federal Government via appropriation of the National Assembly, with a	
18	view to covering nuclear damage under this Bill.	_
19	(2) Every operator of a nuclear installation shall maintain	ħ
20	insurance cover with a Federal Government of Nigeria approved insurer	
21	acceptable to the Authority or provide other financial guarantees adequate to	
22	cover his civil liability for any nuclear damage imposed on him by this Bill	
23	to not less than the equivalent in Naira of 1 million SDRs for any one nuclear	
24	damage	
25	75. Interest and cost that may be awarded by a court in actions for	Interest and Cos
26	compensation of nuclear damage shall be payable in addition to the amounts	
27	pursuant to this Bill.	
28	76. Persons who have suffered nuclear damage may enforce their	Enforcement of
29	rights to compensation by one single action, without having to bring	rights
30	separate proceedings according to the origin of the funds provided for such	

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

l.	(2) Woulding in this section shall preclude an employee of the	
2	Authority from claiming any benefit other than the compensation under this	•
3	Bill.	
<b>‡</b>	PART XIX - LIABILITY FOR NUCLEAR DAMAGE	
5	81(1) An operator shall be absolutely and exclusively liable for	Absolute liability
5	injury or damage done to any person or property upon proof that such	for Nuclear Radiological
7	damage has been caused by a nuclear or radiological incident or accident-	Damages
3	(a) in a nuclear installation by anything being present or which is	
)	done or by nuclear material, radioactive material or material contaminated	
10	with radioactive activity which has been discharged or released in any form	
11	from any regulated practice or activity; and	
12	(b) by any nuclear material, radioactive material or material	
13	contaminated with radioactivity, while in the possession of or under the	
14	control of the operator during the conveyance from the nuclear or	
15	radiological installations, to any other place in Nigeria or in the territorial	
16	waters in Nigeria from or to any place outside Nigeria	
17	(2) where liability under this Bill in respect of the same injury or	
18	damage is incurred by two or more operators, the liability of the operators	
19	shall, to the extent that the injury or damage attributable to a breach of duty	
20	imposed on each by this Bill is not reasonably separable, be treated as joint	
21	and several.	
22	(3) where two or more operators are under a duty under this bill, the	
23	respective liability of each of them shall be clearly defined in a contractual	
24	document.	
25	(4) in the case of transport of nuclear or radioactive material, the	
26	consignor is liable for nuclear damage until the consignee has taken charge	
27	of the material involved, unless the consignor and the consignee enter into a	
28	contract to shift liability at another stage of transport.	
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

Limitations of

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the Right to Compensation

in the injury or damage occurred as a direct result of an act of armed conflict in 1 2 the course of war, invasion or insurrection. 3 (2) An operator is not liable for injury or damage suffered by any person where the nuclear or radiological incident results from the gross 4 negligence of the claimant or an intentional act of the claimant to cause harm. 5 6 (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 8 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 9 10 be against that person 11 83.-(1) Nothing in this Bill shall be construed as limiting or restricting 12 any right or obligation of any person arising under-(a) any contract of insurance, including any insurance required in 13 14 furtherance of this Bill to be maintained by an operator; 15 (b) any scheme or systems of health or hospitalisation insurance, employees' compensation or occupational disease compensation; or 16 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 nuclear damage under this Bill, if the action to establish the claim is not brought 20 21 within: 22 (a) three years from the date on which the person suffering damage had knowledge or ought reasonably to have had knowledge and of the operator 23 24 liable for the damage, but in any case not more than thirty (30) years after the 25 incident causing the damage; (b) thirty (30) years from the date of the nuclear incident in the case of 26 loss of life or personal injury: or 27 28 (c) Ten (10) years from the date of the nuclear incident, in case of any 29 other form of nuclear damage.

(3) Any person who has suffered nuclear or radiological damage and

1	who has brought an action for compensation, may amend his claim to take	
2	into account any aggravation of damage, even after the expiry of that period,	
3	provided that judgment has not been entered by the competent Court.	·
4	PART XX - NUCLEAR SAFEGUARDS	
5 6	84(1) In accordance with Nigeria's international obligations, the	Implementation of Nuclear
	Authority shall -	Safeguards Regir
7	(a) implement the Comprehensive Safeguards Agreement and the	
8	Protocol Additional to the Safeguards Agreement signed between Nigeria	
9	and the International Atomic Energy Agency on all sources or special	
10	fissionable material in all peaceful nuclear activities within Nigeria for the	."
11	purpose of verifying that such material is not diverted to nuclear weapons or	
12	other nuclear explosive devices;	
13	(b) cooperate with the International Atomic Energy Agency to	
14	facilitate the implementation of safeguards under the Safeguards Agreement	
15	and the Additional Protocol;	
16	(c) establish and maintain a State System of Accounting for and	
17	Control of all nuclear material subject to safeguards;	
18	(d) provide the International Atomic Energy Agency with	
19	information concerning nuclear material subject to safeguards and the	•
20	features of installations relevant to safeguarding such material; and	
21	(e) take all necessary steps to ensure that International Atomic	
22	Energy Agency inspectors can effectively discharge their functions under	
23	the Safeguards Agreement and Additional Protocol.	
24	85. The Authority shall ensure effective conduct of safeguards in	Nuclear Safeguard
25	Nigeria by establishing and implementing -	Measurements
26	(i) a measurement system;	
27	(ii) a system for the evaluation of measurement accuracy;	
28	(iii) procedures for reviewing measurement differences;	
29	(iv) procedures for carrying out physical inventories;	
30	(v) a system for evaluation of unmeasured inventories;	

Prohibition on Possession of Nuclear Explosives

Requirements for Import and

Export

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

Requirements for security and physical protection

Responsibility of Authorised persons

1	security of the installation, facility, practice or source.
2	(2) Prior to commencing any activity, a licensee shall submit to the
3	Authority a plan to deal with cyber security threats and shall establish,
4	implement and maintain a cyber-security plan that shall include measures for
5	incident response and recovery from cyber attacks.
6	(3) Any person whose licence revoked or invalidated or suspended
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
10	safety culture and for security culture with respect to radioactive sources in a
Ħ	manner consistent with the provisions of the regulations and this Bill.
12	91(1) The Authority shall establish requirements for the physical
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
16	could result from theft or diversion of a certain type and quantity of material
17	from authorised uses or sabotage of a facility utilising that material;
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
21	protection;
22	(d) a system of inspection and monitoring to verify compliance with
23	applicable physical protection requirements; and
24	(e) enforcement measures in case of non-compliance or violation of
25	applicable regulations or licence conditions.
26	92(1) A person authorised to conduct activities or practices utilising
27	nuclear material and other radioactive material and related facilities shall-
28	(a) primarily be responsible for ensuring the security and physical
29	protection of such materials pursuant to applicable regulations and licence
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	
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.	
29	94(1) Where there has been a theft, threat of theft or loss of	Duty to Report

National Centre for Nuclear Security

Appeal in respect of license

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
5	Authority within 48 hours after the notification; and
6	(c) provide the Authority with any additional information as may be
7	requested
8	95(1) There shall be established a National Centre for Nuclear
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
28	96(1) Any person may appeal to the Authority against a decision
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
	•

l	Authority, he may further appeal to the Board, giving reasons against such a	
2	decision in writing.	
3	(3) Provided that such an appeal shall not have the effect of	•
4	suspending the regulatory decision until the appeal is decided	
5	97(1) The operators and persons subject to this Bill shall be	Dispute resolution
6	bound by the provisions of the guidelines made under this Bill.	•
7	(2) The Authority shall have powers to resolve disputes between	
8	persons who are subject to this Bill regarding any matter under this Bill or its	÷
9	subsidiary legislation.	
10	(3) A party shall not have recourse to litigation until he has	
11	exhausted the dispute resolution mechanisms provided in this Bill or the	
12	Guidelines under this Bill.	
13	(4) The period spent on alternative dispute resolution under this	
14	Bill shall not be counted in determining the limitation time under the	
15	relevant Limitation Laws.	
16	PART XXIV - LEGAL PROCEEDINGS	
17	98. No suit shall be commenced against the Authority, a member	Pre-action notice
18	of the Board, the Director-General or any officer or employee of the	
19	Authority in their official capacity unless one month notice of intention to	
20	commence the suit has been served upon the Authority by the intending	
21	plaintiff or his agent; and the notice shall clearly and explicitly state the	
22	cause of action, the particulars of the claim, the name and address of the	
23	intending plaintiff and the relief which he claims	
24	99. The Authority shall have power to prosecute offences under	Power to
25	this Bill	prosecute
26	100. Any sum of money which by the judgment of any court has	Defrayment of
27	been awarded against the Authority shall, subject to any direction given by	Judgment sum
28	the court, where no notice of appeal against the judgment has been given, be	
29	paid from the Fund of the Authority	

Indemnity of staff	1	101. A member of the Board, the Director-General or any officer o
stair	2	employee of the Authority shall be indemnified out of the assets of the
•	3	Authority against any liability incurred by him in defending any proceeding
	4	whether civil or criminal, where the proceeding is brought against him in his
	. 5	capacity as a member of the Board, Director-General, officer or othe
•	6	employee of the Authority.
	<b>-</b> 7	PART XXV - JURISDICTION
Competent court	8	102. The Federal High Court shall have exclusive jurisdiction ove
	9	all claims on nuclear materials, nuclear or radiological incidents or accident, o
	10	for civil or criminal liability relating to these matters.
Non-discrimnation	11 -	103. In the event of nuclear or radiological incident or acciden
• •	12 -	affecting victims of States other than the incident state, there shall be no
	13	discriminatory treatment based on nationality, domicile or place of residence in
	14	the payment of compensation.
•	15	PART XXVI - OFFENCES AND PENALTIES
Offences and	16	104(1) Any person who contravenes any of the provisions of this
Penalties	17	Bill, or does not comply with a limitation or condition subject to which he is
•	18	authorised under this Bill is guilty of an offence and liable on conviction to
	19	imprisonment for not less than 1 year or a fine of not less than N1,000,000 or to
	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 withou
	23	due authorisation commits an offence and shall-
•	24	(a) in the case of an individual, be liable on conviction to
.* ,	25	imprisonment for a term of not less than 2 years or an option of fine of not less
,	26	than N2,000,000 or to both such fine and imprisonment;
	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
	30	conviction be liable to imprisonment for a term of not less than 2 years.

1	(3) Any person who imports or exports any radioactive source
2	without a licence from the Authority, commits an offence and shall-
3	(a) in the case of an individual, be liable on conviction to
4	imprisonment for a term of not less than 2 years or an option of fine of not
5	less than N2,000,000 or to both such fine and imprisonment;
6	(b) in the case of a body corporate, be liable on conviction to a fine
7	of not less than N10,000,000 and
. 8	(c) any offending Director or officer of the body corporate shall on
9	conviction be liable to imp isonment for a term of not less than 2 years or an
10	option of fine of not les: than N2,000,000 or to both such fine and
11	imprisonment.
12	(4) Any operator of a radiological facility under this Bill, who fails
13	to take measures to secure any radioactive source in such manner as to result
14	in unauthorised access, theft or loss of control of such sources, commits an
15	offence and shall -
16	(a) in the case of an individual, be liable on conviction to
17	imprisonment for a term of not less than 2 years or a fine of not less than
18	N3,000,000 or to both such fine and imprisonment; or
19	(b) in the case of a body corporate, be liable on conviction to a fine
20	of not less than N10,000,000; and
21	(c) any offending Director or officer of the body corporate shall
22	each on conviction be liable to imprisonment for a term of not less than 2
23	years or an option of fine of not less than N3,000,000 or to both such fine and
24	imprisonment.
25	(5) Any person who imports or exports any nuclear material or
26	proscribed substances without a licence from the Authority, commits an
27	offence and shall-
28	(a) in the case of an individual, be liable on conviction to
29	imprisonment for a term of not less than 5 years or an option of fine of not
30	less than N5,000,000 or to both such fine and imprisonment; or

1	(b) in the case of a body corporate, be hable on conviction to a rine of
2	not less than N20,000,000 and
3	(c) The offending Director or officer of the body corporate shall or
4	conviction be liable to imprisonment for a term of not less than 5 years or an
5	option of fine of not less than N5,000,000 or to both such fine and
6	imprisonment
7	(6) Any operator of nuclear installation under this Bill, who fails to
8	take measures to secure any nuclear material in such manner as to result in
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 fine
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 o
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 find
30	of not less than N5,000,000 or to both such fine and imprisonment.

ŀ	(8) Any person who contravenes the provisions of section 87 of this
2	Bill commits an illicit trafficking offence and shall be liable on conviction:
3	(a) in the case of an individual, to imprisonment for a term of not
1	less than 5 years or a fine of not less than N5,000,000 or to both such fine and
5	imprisonment; or
5	(b) in the case of a body corporate, to a fine of not less than
7	N25,000,000; and
3	(c) any offending Director or officer of the body corporate shall on
9	conviction be liable to imprisonment for a term of not less than 5 years or a
10	fine of not less than N5,000,000 or to both such fine and imprisonment.
11	(9) Any person who, by any electronic-means, compromises the
12	security of any nuclear or other high activity installations commits an
13	offence and shall be liable on conviction to a term of imprisonment for 5
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
18	shall be liable financially or otherwise for all incidents or accidents during
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
23	term of imprisonment of not less than 25 years. In the case of a body
24	corporate, to a fine of not less than N100,000,000.
25	(12) Any person who sabotages the safety or security of any
26	nuclear installation, nuclear material or other radioactive material in use,
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, he liable on conviction to a term of

ı	imprisonment of not less than 25 years without an option of fine; of
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 on
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	(17) The fine payable under this Bill shall be reviewed every Five	9
2	(5) years by the Authority and the reviewed fines shall take effect from the	<u>.</u>
3	date of publication in the Federal Gazette.	
4	(18) in all cases, the courts, in imposing any punishment under this	i
5	Bill shall be guided by the sentencing guideline provided in the	
6	Administration of Criminal Justice Act, 2015.	
7.	105(1) In furtherance to provisions of section 41 of this Bill, no	Obstruction
8	person shall-	and/or False Declaration
9	(a) knowingly make a false or misleading statement to an	to Inspector
10	inspector; or	
11	(b) deliberately obstruct or hinder or attempt to obstruct or hinder	
12	an inspector from carrying out his functions under this Bill.	
13	(2) Where an inspector from the Authority identifies himself to an	
14	operator, the operator shall immediately allow the inspector access to the	
15	facility.	
16	(3) It shall be an offence punishable under the Bill for an operator to	
17	obstruct, delay, deny or hinder an inspector from performing his duties	
18	under the Bill.	
19	106(1) Upon entry into force of this Bill, its provisions shall be	Savings and
20	applied to pending applications for authorisation.	transition %
21	(2) All authorisations granted under The Nuclear Safety and	
22	. Radiation Protection Act No.19 of 1995shall be considered to have been	
23	granted under this law, until such time as such authorisation has been	
24	reissued, renewed, suspended, revoked or otherwise modified by the	
25	Authority pursuant to applicable laws and regulations.	
26	PART XXVII - MISCELLANEOUS	
27	107. Inuhis Act-	Interpretation
28	"accident" means any unintended event, including operating errors,	
29	equipment failures and other mishaps, the consequences or potential	
30	consequences of which are not negligible from the point of view of	

- 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 Act or regulations made thereunder. The
- authorisation can take the form of a registration or a licence;
- "authorised officer" includes qualified persons employed or engaged by the
- 12 Authority to carry out any function under this Act;
- 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 Act;
- 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
- 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
- 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;

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

1	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
4	medical or dental diagnosis or treatment; by carers and comforters; and by
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
il	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
1,3	be of radiological safety significance for another State;
1,4 .	"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
24	to be taken, and insofar as not included in sub-paragraph (b) of this paragraph;
25	(e) loss of income deriving from an economic interest in any use or
26	enjoyment of the environment, incurred as a result of a significant impairment
27	of that environment, and insofar as not included in sub-paragraph (b) of this
28	paragraph;
29 .	(f) the costs of preventive measures, and further loss or damage
30	caused by such measures; and

I		(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		nuclear installation, whether so arising from the radioactive properties of
9		such matter, or from a c mbination of radioactive properties with toxic,
10		explosive or other hazardous properties of such matter;
11		"nuclear fuel" means Fissionable 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;
- "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
- increase the exposure or the likelihood of exposure of people or the number of
- 25 people exposed;

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- 26 "premises" includes any land whether covered by a building or not and includes
- 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

Ĭ	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;

- 1 "sabotage" means any deliberate act directed against a nuclear facility or
- 2 nuclear material in use, storage or transport which could directly or indirectly
- 3 endangers the health and safety of personnel, the public and the environment
- 4 by exposure to radiation or release of radioactive substances;
- 5 "safety culture" means the assembly of characteristics and attitudes in
- 6 organisations and individuals which establishes that, as an overriding priority.
- 7 protection and safety issues receive the attention warranted by their
- 8 significance;
- 9 "safety requirement" means the generally applicable requirements to be
- 10 fulfilled in safety assessment for facilities and activities, as published in the
- 11 IAEA Safety Standards for protecting people and the environment: Safety
- 12 Assessment for Facilities and Activities General Safety Requirements No.
- 13 GSR Part 4 (Rev. 1);
- 14 "security culture" means characteristics and attitudes in organisations and of
- 15 individuals which establish that security issues receive the attention warranted
- 16 by their significance;
- 17 "source of ionising radiation" means any source of radiation, for the purposes
- 18 of radiation protection, capable of producing ion pairs in biological material(s)
- 19 "special fissionable material" means plutonium-239, Uranium-233; Uranium
- 20 enriched in the isotope 235 or 233; any material containing one or more of the
- 21 foregoing; and such other fissionable material as determined by the IAEA. The
- 22 term "special fissionable material" does not include source material;
- 23 "source" Anything that may cause radiation exposure such as by emitting
- 24 ionising radiation or by releasing radioactive substances or radioactive
- 25 material and can be treated as a single entity for purposes of protection and
- 26 safety;
- 27 "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;	
2	"SDR" refers to Special Drawing Right which is the unit of account defined	
3	by the International Monetary Fund and used by it for its own operations and	
4	transactions;	
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	4 -
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	
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, Security and	Short title
26	Safeguards Bill, 2019.	
	EXPLANATORY MEMORANDUM	
	This Bill seeks to repeal the Nuclear Safety and Radiation Protection Act	
	No. 19 of 1995, enact the Nuclear Safety, Security and Safeguards Act and	

Re-Establish the Nigerian Nuclear Regulatory Authority.

