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1968

STATE OF NEW JERSEY,
STATE DEPARTMENT OF HEALTH,
Commission on Radiation Protection.

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TAKE NOTICE, That the Commission on Radiation Protection of the State Department of Health, pursuant to the provisions of the Radiation Protection Act, will hold a public hearing on certain proposed amendments to Chapter I and to Chapter II of the New Jersey Radiation Protection Code, on Wednesday, September 18, 1968, beginning at 10:00 a.m., at the Auditorium on the first floor of the New Jersey State Health and Agriculture Building, John Fitch Plaza, Trenton, New Jersey.

It is recommended that at the time of the public hearing, or prior thereto, a brief or briefs be submitted to the Commission on Radiation Protection on all matters desired to be brought to the attention of said Commission concerning the provisions of the proposed amendments to Chapter I or to Chapter II of the New Jersey Radiation Protection Code. Copies of the proposals may be obtained from and briefs may be sent to Dr. Frank G. Dunnington, Chairman, Commission on Radiation Protection, P. O. Box 1540, Trenton, New Jersey 08625.

The proposed amendments refer to changes in present sections or entirely new sections as follows:

NEW JERSEY RADIATION PROTECTION CODE

CHAPTER I

GENERAL REQUIREMENTS

- Section 5 - Licensing
- Section 7 - Permissible Dose Rates, Radiation Levels and Concentrations
- Section 9 - Records
- Section 10 - Radioactive Contamination Control
- Section 13 - Disposal of Radioactive Materials

CHAPTER II

SPECIAL REQUIREMENTS

- Section 18 - Medical Diagnostic X-ray Installations
- Section 19 - Dental Radiographic Installations
- Section 23 - Major Nuclear Facilities

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STATE OF NEW JERSEY
COMMISSION ON RADIATION PROTECTION
STATE DEPARTMENT OF HEALTH
PUBLIC HEARING - September 18, 1968

The New Jersey Commission on Radiation Protection will hold a public hearing on September 18, 1968, concerning proposed changes in the New Jersey Radiation Protection Code. The proposed changes are detailed below.

CHAPTER I

GENERAL REQUIREMENTS

Section 5 - Licensing

5.18 Generally Licensed Quantities

Zinc 65 (Zn 65) (Correction of spelling)

Section 7 - Permissible Dose Rates,

Radiation Levels and Concentrations

7.5 Maximum Permissible Average Concentrations of Radioactive Materials in Air and Water

Radionuclide		Occupational 40-hr. Week		Non-Occupational	
		Water uc/ml	Air uc/ml	Water uc/ml	Air uc/ml
Column		A	B	C	D
Uranium 232	(sol.) (insol.)	2x10 ⁻⁵		8x10 ⁻⁷ 3x10 ⁻⁵	
Uranium 233	(sol.)	10 ⁻⁴		4x10 ⁻⁶	
Uranium 234	(sol.)	10 ⁻⁴		4x10 ⁻⁶	
Uranium 235	(sol.)	10 ⁻⁴		4x10 ⁻⁶	
Uranium 236	(sol.)	10 ⁻⁴		5x10 ⁻⁶	
Uranium 238	(sol.)	2x10 ⁻⁵		6x10 ⁻⁷	
Uranium 240	(sol.) (insol.)	1x10 ⁻³ 1x10 ⁻³	2x10 ⁻⁷ 2x10 ⁻⁷	3x10 ⁻⁵ 3x10 ⁻⁵	8x10 ⁻⁹ 6x10 ⁻⁹
Uranium natural	(sol.)	2x10 ⁻⁵	7x10 ⁻¹¹	6x10 ⁻⁷	3x10 ⁻¹²
Xenon 133m	imm.		1x10 ⁻⁵		3x10 ⁻⁷

Section 9 - Records

9.1.3 (Reworded)

At the request of an individual formerly employed by the owner, each owner shall furnish such individual a report of his exposure to radiation, including bio-assays, as shown in records maintained by the owner pursuant to Section 9.1.1. Such report shall be furnished within 30 days from the time the request is made, or within 60 days from termination of employment, whichever is later. The report shall cover each calendar quarter of the individual's employment involving exposure to radiation.

9.4 Records of Sealed Source Testing (a new section)

Records of the results of sealed source testing shall be kept at least two years.

9.5 Records from Discontinued Installations

(The present Section 9.4, renumbered)

Section 10 - Radioactive Contamination Control

10.4 Sealed Source Testing

Last sentence to be deleted and replaced by the following:

Records of all sealed source testing shall be kept in accordance with Section 9.4.

Section 13 - Disposal of Radioactive Materials

(Present 13.3 reworded to specifically include discharges into ground waters)

13.3 Disposal by Discharges into the Air, Ground Waters or Surface Waters

13.3.1 - An owner may dispose of radioactive material into the air outside a controlled area provided the concentration at the point where the material leaves the controlled area is not in excess of the concentration specified in Section 7.5, Column D, or prorated values if more than one isotope is discharged. Where the material is discharged through a

stack, tube, pipe, or similar conduit, the determination may be made with respect to the point where the material leaves such conduit. For purposes of this paragraph, concentrations may be averaged over periods not greater than one year.

13.3.2 (New section)

No owner shall dispose of radioactive material into surface waters or into ground waters without specific, prior permission in writing from the Department.

Section 18 - Medical Diagnostic X-ray Installations

18.3.1.2 (Substantially altered)

Diaphragms or cones shall be provided for collimating the useful beam and shall provide the same degree of protection as is required of the housing. After July 1, 1969, all new or used x-ray machines sold or otherwise transferred shall be equipped with adjustable, rectangular collimators fitted with a light beam system for delineating the edges of the collimated x-ray beam.

Section 19 - Dental Radiographic Installations

19.1 Prohibited Use (a new section)

No registrant shall operate or permit the operation of x-ray equipment used in the practice of dentistry unless the equipment and installation meet the applicable requirements of these regulations.

19.2 Equipment (renumbered and altered)

19.2.1 The tubing housing shall be of a diagnostic type. (renumbered)

19.2.2 (Present 19.1.2 renumbered and altered)

Diaphragms or cones shall be used for collimating the useful beam and shall provide the same degree of protection as the housing. The diameter of the useful beam at the end of the cone in contact with the patient shall be no greater than

2.75 inches. All new and used machines purchased after July 1, 1969, shall use only open-end cones.

19.2.3 to 19.2.7 (Present 19.1.3 to 19.1.7 to be renumbered)

19.3 Structural Shielding (Present 19.2 renumbered)

19.4 Operating Procedures (Present 19.3 renumbered)

(Section 23 - entirely new section)

Section 23 - Major Nuclear Facilities

23.0 Scope

This section contains special requirements for major nuclear facilities including nuclear reactors, nuclear fuel fabrication plants, nuclear fuel reprocessing plants, and nuclear waste handling or disposal facilities. The intent of the section is to insure that individuals outside of these facilities receive no radiation exposures from environmental contamination or direct radiation that are in excess of the limits of Section 7.2 and 7.3.

23.1 Other Requirements

The requirements of this section are in addition to all other applicable sections of this Code.

23.2 Required Monitoring Program

Any person desiring to operate a major nuclear facility within this State shall develop an adequate program of radiological monitoring consistent with the hazard from actual or potential discharges. The proposed program shall be submitted to the Department for evaluation as to its adequacy; for new facilities this shall be done not less than six months prior to start of construction. The proposal shall include:

(a) A general description of the proposed facility;

- (b) The nature of and the proposed rates of discharge of radioactive contaminants to the environment and/or the nature of and amounts of radioactive materials subject to temporary or permanent storage;
- (c) The proposed methods of limiting the discharge of radioactive contaminants to the atmosphere;
- (d) The proposed methods of limiting the discharge of radioactive contaminants to ground or surface waters;
- (e) The proposed methods of disposal of radioactively contaminated materials;
- (f) The proposed radiological monitoring program which shall include an analysis of the ability of the in-facility effluent monitoring system to measure the quantities and kinds of radioactive materials discharged under normal and under accident conditions, shall include an analysis of the ability to predict the effect of such releases on environmental contamination and radiation levels, and shall also include a description of the off-site environmental monitoring system, if any, with the kinds of instruments, their sensitivity, and use.

23.3 Operation

23.3.1 Operation of a new facility and its monitoring program shall be consistent with all provisions of this Code.

23.3.2 The owner of an existing facility shall submit the monitoring program required in Section 23.2 within one month of (the effective date of this Section) if he has not already done the effective equivalent of this.

23.4 Emergency Plans

The owner of every major nuclear facility shall make emergency operational plans in accordance with Section 15. These shall be submitted to the Department prior to the start of operation

23.5 Radiation Incidents

The owner of every major nuclear facility shall report any radiation incident in accordance with Section 16.

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