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ARMY REGULATION
No. 40-27

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 11 June 1969

**MEDICAL SERVICES
PERSONNEL RADIATION EXPOSURES**

Effective 15 July 1969

Local limited supplementation of this regulation is permitted but is not required. If supplements are issued, Army Staff agencies and major Army commands will furnish one copy of each to the Deputy Chief of Staff for Logistics, ATTN: LOG/PE-ISB; other commands will furnish one copy of each to the next higher headquarters.

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1. General. *a.* The Atomic Energy Commission recently amended 10 CFR, Part 20, "Standards for Protection Against Radiation," concerned with reporting requirements on radiation exposures to personnel.

b. The amended regulations became effective on 17 February 1969, and require an annual report to be submitted. Reports will show the number of individuals for whom personnel monitoring was required or provided during the year, and any individual whose annual external exposure exceeds the quarterly limit as defined in Part 20. In addition, individual reports are required within a specified time on radiation exposure to individuals subject to Part 20 control who terminate employment.

2. Applicability. The new rules apply only to those licenses conducting industrial type activities involving the handling of substantial quantities of radioactive material. They do not apply to research and other types of activities where experience has shown that exposure potential is low.

3. Procedures. *a.* The amended regulation is reproduced in the appendix.
b. The required report is to be submitted direct to the Director of Regulations, U.S. Atomic Energy Commission, Washington, DC 20545. A copy of each report so submitted will be forwarded to:

The Surgeon General
ATTN: MEDPS-PO
Department of the Army
Washington, DC 20315

c. The title of the report is "Personnel Radiation Exposure" and is assigned Reports Control Symbol AEC-1007.

APPENDIX

PART 20—STANDARDS FOR PROTECTION AGAINST RADIATION

§ 20.407 Personnel exposure and monitoring reports.

(a) This section applies to each person licensed by the Commission to:

(1) Operate a nuclear reactor designed to produce electrical or heat energy pursuant to § 50.21(b) or § 50.22 of this chapter or a testing facility as defined in § 50.2(r) of this chapter;

(2) Possess or use byproduct material for purposes of radiography pursuant to Parts 30 and 34 of this chapter;

(3) Possess or use at any one time, for purposes of fuel processing, fabrication, or reprocessing, special nuclear material in a quantity exceeding 5,000 grams of contained uranium-235, uranium-233, or plutonium or any combination thereof pursuant to Part 70 of this chapter; or

(4) Possess or use at any one time, for processing or manufacturing for distribution pursuant to Part 30, 32 or 33

of this chapter, byproduct material in quantities exceeding any one of the following quantities:

Radionuclide ¹	Quantity in curies
Cesium-137	1
Cobalt-60	1
Gold-198	100
Iodine-131	1
Iridium-192	10
Krypton-85	1,000
Promethium-147	10
Technetium-99m	1,000

¹The Commission may require, as a license condition, or by rule, regulation or order pursuant to § 20.502, reports from licensees who are licensed to use radionuclides not on this list, in quantities sufficient to cause comparable radiation levels.

(b) Each person described in paragraph (a) of this section shall, within the first quarter of each calendar year, submit to the Director of Regulation, U.S. Atomic Energy Commission, Washington, D.C. 20545, the following reports, applicable to the described licensed activities, covering the preceding calendar year:

(1) A report of either (i) the total number of individuals for whom personnel monitoring was required under § 20.202(a) or § 34.33(a) of this chapter during the calendar year, or (ii) the total number of individuals for whom personnel monitoring was provided during the calendar year: *Provided*, That such total includes at least the number of individuals required to be reported under subdivision (i) of this subparagraph. The report shall indicate whether it is submitted in accordance with subdivision (i) or (ii) of this subparagraph.

²The report for calendar year 1953 shall be submitted within 90 days of the effective date of this rule. A licensee whose license expires or terminates prior to, or on the last day of the calendar year, shall submit reports at the expiration or termination of the license, covering that part of the year during which the license was in effect.

(2) A report on individuals for whom personnel monitoring was required under § 20.202(a) or § 34.33(a) of this chapter, which contains, for each individual 18 years of age or over whose annual radiation dose exceeded the applicable quarterly numerical values specified in § 20.101(a), and, for each individual under 18 years of age whose annual radiation dose exceeded 10 percent of the applicable quarterly numerical values specified in § 20.101(a), the information recorded by the licensee pursuant to § 20.401(a).

§ 20.408 Reports of personnel exposure on termination of employment or work.

When an individual terminates employment with a licensee subject to § 20.407, or an individual assigned to work in such a licensee's facility, but not employed by the licensee, completes his work assignment in the licensee's facility, the licensee shall furnish to such individual and to the Director of Regulation, U.S. Atomic Energy Commission, Washington, D.C. 20545, a report of the individual's exposure to radiation and radioactive material, incurred during the period of employment or work assignment in the licensee's facility, containing information recorded by the licensee pursuant to §§ 20.401(a) and 20.108. Such report shall be furnished within 30 days after the exposure of the individual has been determined by the licensee or 90 days after the date of termination of employment or work assignment, whichever is earlier.

established in the regulations in this part, as it deems appropriate or necessary to protect health or to minimize danger to life or property.

ENFORCEMENT

§ 20.601 Violations.

An injunction or other court order may be obtained prohibiting any violation of any provision of the act or any regulation or order issued thereunder. Any person who willfully violates any provision of the act or any regulation or order issued thereunder may be guilty of a crime, and upon conviction, may be punished by fine or imprisonment or both, as provided by law.

EXCEPTIONS AND ADDITIONAL REQUIREMENTS

§ 20.501 Applications for exemptions.

The Commission may, upon application by any licensee or upon its own initiative, grant such exemptions from the requirements of the regulations in this part as it determines are authorized by law and will not result in undue hazard to life or property.

§ 20.502 Additional requirements.

The Commission may, by rule, regulation, or order, impose upon any licensee such requirements, in addition to those

The proponent agency of this regulation is the Office of the Deputy Chief of Staff for Logistics. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications) to Deputy Chief of Staff for Logistics, ATTN: LOG/PE-15B, Department of the Army, Washington, DC 20310.

By Order of the Secretary of the Army:

W. C. WESTMORELAND,
*General, United States Army,
 Chief of Staff.*

Official:
 KENNETH G. WICKHAM,
*Major General, United States Army,
 The Adjutant General.*

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