

Radiology Compliance Branch

RADIATION PROTECTION SECTION



Division of Health Service Regulation • N.C. Department of Health and Human Services

THErapy RADIATION PROTECTION PROGRAM GUIDE

Each registrant shall develop, document, and implement a Radiation Protection Program commensurate with the scope and extent of registered activities to ensure compliance with the provisions of **10A NCAC 15 [.1600]**. In accordance with Rule **[.1603 (c)]**, the registrant shall annually review the radiation protection program content and implementation.

[N.C. Radiation Dictionary](#)

[N.C. Radiation Regulations](#)

REQUIREMENTS TO INCLUDE IN RADIATION PROTECTION PROGRAM AND SAFETY PROCEDURES

Radiation Protection Program: [.1603(a)]

ALARA (As Low As Reasonably Achievable) [Radiation Protection Principles](#)

- Describe procedures and engineering controls used, based upon sound radiation principles to achieve occupational doses, and doses to members of the public ALARA. **[.1603(b)]**

Personnel

- Describe how individuals are notified if occupational doses exceed 1 mSv (100 mrem) TEDE or 1 mSv (100 mrem) to any individual organ or tissue. **[.1004]** *(effective date 1/1/14)*
- State the facilities annual occupational dose limits. **[.1604(a)]** [Dose Limits](#)
- Explain how doses that an individual may receive in the current year are reduced by the occupational exposures received while employed by another person. **[.1604(f)]**
- State the dose limits to an Embryo/Fetus? **[.1610]** **[.1614(1)(c)]**
- Explain the facilities personnel voluntary declared pregnancy policy. **[.1640(f)]** [Pregnancy Policy](#)
- Describe the facilities personnel monitoring exposure policy. **[.1614]**
 - *If personnel monitoring not provided to operators, explain how facility met compliance to the regulations.*
- Describe the facilities process to obtain prior occupational dose for new workers. **[.1638(a)(1)&(2)]**
- Explain the facilities retention period for exposure records. **(keep all dosimetry reports)**
[.1640(a)(1)&(g)]

Exceeding Exposure Limits [.1647)] [Dose Limits](#)

- Identify the facilities reporting process for when a dose limit is exceeded? **[.1646][.1647]**
- Describe how data of the affected person is reported to both the individual and to Radiation Protection. **[.1647(b)(c)(d)(e)]** **[.0111]**
 - Estimated dose
 - Cause of elevated exposure
 - Corrective Action
 - Name & Date of Birth
 - The Last 4 of the Social security number and/or employee identifier

REVIEW OF RADIATION PROTECTION PROGRAM

In accordance with Rule .1603 (c), the registrant shall annually review the radiation protection program content and implementation.

Signature

Date

_____	_____
_____	_____
_____	_____
_____	_____

<i>The N.C. Radiation link</i> http://www.ncradiation.net/Xray/reference.htm has the following information:	
Inspection Check List	Information the inspectors ask to see during an inspection
Tips For Answering Violations	How to reply to violations
Reference Guides For Facilities	Information to help the facilities write their own safety program
Plan Reviews & Surveys	Registered service providers that are qualified to provide this service
Registration Requirements	Requirements for new and existing facilities
Steps To Install X-Ray Equipment or Register	Guide for installing equipment
Registration Forms	Form to register a facility/X-ray machines or amend a registration
Registration: Owning or Possessing X-Ray Equipment	Guide for Owning or Possessing X-Ray Equipment in N.C.
Postings	Documents that need to be posted in the facility

Links of Interest:

AAPM Reports	http://www.aapm.org/pubs/reports/
AAPM Medical Physics Practice Guidelines	http://www.aapm.org/pubs/MPPG/
CT Protocols	http://www.aapm.org/pubs/CTProtocols/