2008
RATIONALE FOR REVISIONS
PART A
GENERAL PROVISIONS

Introduction

The Nuclear Regulatory Commission continues to revise its Standards for Protection Against Ionizing Radiation found in 10 CFR Part 19, 20, & 30. The applicable revisions from these Parts are incorporated in Part A of the *Suggested State Regulations for Control of Radiation* are as follows:

Compatibility Requirements

The revisions to Part 20 were published in the following Federal Register notices:
1: 67 FR 16298 and became effective on April 5, 2002 (RATS ID 2002-1)
2: 71 FR 15005 and became effective on March 27, 2006 (RATS ID 2006-1)
3: 71 FR 65685 and became effective on February 6, 2007 (RATS ID 2006-2)
4: 71 FR 65685 and became effective on January 31, 2006 (RATS ID 2006-3)
5: 72 FR 55864 and became effective on November 30, 2007 (RATS ID 2007-3)
6. 72 FR 55864 and became effective on February 15, 2008 (RATS ID 2008-1)

The Nuclear Regulatory Commission considers the adoption of these regulations a matter of compatibility for all Agreement States. The compatibility designations are noted at the end of each specific provision listed.

Other editorial changes consistent with the Conference of Radiation Control Program Directors, Inc., *Policies and Procedures for the Preparation and Publication of the Suggested State Regulations for Control of Radiation* will not specifically be noted in the rationale discussion for each section.

Specific Provisions

Sec. A.2 - Definitions.

The following definitions are being updated or added to remain consistent and/or compatible with the applicable sections of the 10 CFR:

"Accelerator-produced radioactive material"; "Background radiation"; "Byproduct material"; "Discrete source (new def)"; "Nationally tracked source (new def)"; "Sealed source"; "Shallow-dose equivalent"; "Total effective dose equivalent"; "Waste"

"Quarter"-we have deleted "Calendar quarter" and rely on the NRC compatible definition of "Quarter"

The following definitions are being included in Part A as they appear in Parts A, D & O:

"Decommission"; "Decommissioning plan"; "Facility"; "Final radiation survey"; "Licensee"; "Principal activity"; "Restricted use"; "Site"; "Unrestricted use"

The following definitions are being removed as they are specific to one Part or are no longer necessary:

"Licensing state": With the issuance of the expanded definition of byproduct material, there no longer is a need for this designation. Therefore this is being removed.

"Pharmacist" & "Physician": these are currently listed in, and unique to, Part G.

The committee also reviewed the following "Matters for Future Consideration" from the March 2003 rule change.

1. "Presently, the Food and Drug Administration is considering replacing "exposure" with the term "air kerma" in the diagnostic x-ray system performance standard (21 CFR, Subchapter J). Air kerma is currently in use by the National Council on Radiation Protection and Measurements and international organizations. The Suggested State Regulations should be amended when the federal definition is amended."

   Committee response: *The committee discussed this item and decided that we will review what the USFDA and NCRP has documented and make a decision in the near future as to what to do about this comment.*

2. "The Working Group recommended that the definition of "waste" be referred to the Working Group for Part M to consider inclusion of NARM and NORM waste.

   Committee response: *The committee discussed this item and decided that with the issuance of the expanded definition of byproduct material regulation, this has already been addressed with the current rule change.*

3. "When Part U has been approved, the Working Group will revise the definition of "byproduct material.""

   Committee response: *The committee discussed this item and decided that with the issuance of the expanded definition of byproduct material regulation, this has already been addressed with the current rule change.*

4. "The Working Group has decided to consider the following changes during 1994: "Exposure" means either:*

the quotient of dQ divided by dm where "dQ" is the absolute value of the total charge of the ions of one sign produced in air when all the electrons (negatrons and positrons) liberated by photons in a volume element of air having mass "dm" are completely stopped in air. (See A.14 for the SI unit coulomb per kilogram (C/kg) and the special unit roentgen (R).); or

irradiation by ionizing radiation or radioactive material.

* The context makes clear which is the appropriate definition.

Committee response: *The committee discussed this item and decided that this term has already been adopted but we will move the term <u>exposure</u> to Part F and X as it is exclusive to those Parts.*

5. "The Working Group will consider new definitions for the following:"
   industrial radiography,
   qualified expert (e.g., MQSA of 1992 and AAPM),
   worker,
   manufacturing
   distribution
   commercial distribution
   processing

   Committee response: *The committee discussed the items above and decided that, except for "processing", at this time there is no need to define or expand the above terms. "processing will be defined in Part U and will be incorporated into Part A when Part U is updated.*

6. "The Working Group is considering the consolidation of the Qualified Expert (QE) definitions in various Parts into Part A."

   Committee response: *The committee discussed this item and decided to keep the definitions separate as there may be distinct differences between the qualifications for a QE used in x-ray versus the qualifications for a QE in radioactive materials.*

7. "The Working Group will consider input from other SR workgroups to create an all encompassing document for all definitions found in the SSRCRS's. This will enable a licensee to only have to go to one location to find a definition."

   Committee response: *The committee discussed this item and decided that this will be a continuing work in progress. There are currently a lot of pros and cons in this area.*

8. "The working group will look at intravascular depending upon Part G requirements"

Committee response: *The committee discussed this item and decided to remove this and leave it up to the Part G committee.*

Current Matters For Future Consideration

1: Move all definitions into Part A? Do we want to create a one-stop shopping for all definitions or do we just leave this alone. To be determined at a later date.