

Legend: (Proposed Amendment(s))

Single Underline = Proposed new language

[Bold, Print, and Brackets] = Current language proposed for deletion

Regular Print = Current language

(No change.) = No changes are being considered for the designated subdivision

§289.253. Radiation Safety Requirements for Well Logging Service Operations and Tracer Studies.

(a) (No change.)

(b) Scope. This section applies to all persons who use sources of radiation for well logging service operations, radioactive markers, mineral exploration and tracer studies. In addition to the requirements of this section, persons are subject to the requirements of §289.201 of this title (relating to General Provisions for Radioactive Material), §289.202 of this title (relating to Standards for Protection Against Radiation from Radioactive Materials **[Material]**), §289.203 of this title (relating to Notices, Instructions, and Reports to Workers; Inspections), §289.204 of this title (relating to Fees for Certificates of Registration, Radioactive Material Licenses, Emergency Planning and Implementation, and Other Regulatory Services), §289.205 of this title (relating to Hearing and Enforcement Procedures), §289.226 of this title (relating to Registration of Radiation Machine Use and Services), §289.229 of this title (relating to Radiation Safety Requirements for Accelerators, Therapeutic Radiation Machines, and Simulators), §289.231 of this title (relating to General Provisions and Standards for Protection Against Machine-Produced Radiation), §289.252 of this title (relating to Licensing of Radioactive Material), and §289.257 of this title (relating to Packaging and Transportation of Radioactive Material).

(c) Definitions. The following words and terms when used in this section shall have the following meaning unless the context clearly indicates otherwise.

(1) Energy compensation source (ECS)--A small sealed source with an activity not exceeding 100 microcuries **[microcurie]** (μCi) (3.7 megabecquerel (MBq)), used within a logging tool or other tool component **[components]**, to provide a reference standard to maintain the tool's calibration when in use.

(2) - (8) (No change.)

(9) Radiation safety officer--An individual named by the licensee or registrant and listed on the license or certificate of registration who has a knowledge of, responsibility for, and authority to enforce appropriate radiation protection rules, standards, and practices on behalf of the licensee and/or registrant, **[;]** and who meets the requirements of subsection (r) of this section.

(10) - (24) (No change.)

(d) - (k) (No changes.)

(l) Design and performance criteria for sealed sources used in well logging operations.

(1) Each sealed source used in well logging applications shall meet the following minimum criteria.

(A) - (B) (No change.)

(C) The sealed source meets one of the following requirements:

(i) (No change.)

(ii) for a sealed source manufactured after July 14, 1989, the oil-well logging requirements from the American National Standards **[Standard]** Institute/Health Physics Society (ANSI/HPS) N43.6-1997, "Sealed Radioactive Sources-Classification;" or

(iii) (No change.)

(2) - (3) (No change.)

(m) - (y) (No change.)

(z) Tritium neutron generator target source.

(1) Use of a tritium neutron generator target source, containing quantities not exceeding 30 curies (Ci) (1,110 GBq **[MBq]**) and in a well with a surface casing to protect fresh water aquifers, is subject to the requirements of this section, except subsections (d), (l), and (cc) of this section.

(2) Use of a tritium neutron generator target source, containing quantities exceeding 30 Ci (1,110 GBq **[MBq]**) or in a well without a surface casing to protect fresh water aquifers, is subject to the requirements of this section, except subsection (l) of this section.

(aa) - (cc) (No change.)

(dd) Appendices.

(1) Subjects to be included in training courses for well logging service operations and/or tracer studies are as follows:

(A) fundamentals of radiation safety that include:

(i) - (vi) (No change.)

(vii) discussion of ingestion, inhalation pathways; **[.]**

(B) (No change.)

(C) equipment to be used that specifies;

(i) - (iv) (No change.)

(v) maintenance of equipment; [.]

(D) - (G) (No change.)

(2) - (5) (No change.)