

Old Iowa Administrative Code to New Iowa Administrative Code: Crosswalk for Radioactive Materials Licensees

Contents

Old IAC 641 – Chapter 37 Physical Protection of Category 1 and Category 2 Quantities of Radioactive Material	2
Old IAC 641 – Chapter 38: General Provisions for Radiation Machines and Radioactive Materials	5
Old IAC 641 – Chapter 39: Registration of Radiation Machine Facilities, Licensure of Radioactive Materials and Transportation of Radioactive Materials	7
Old IAC 641 – Chapter 40: Standards for Protection Against Radiation	14
Old IAC 641 – Chapter 41: Safety Requirements for the Use of Radiation Machines and Certain Uses of Radioactive Materials.....	20
Old IAC 641 – Chapter 45: Radiation Safety Requirements for Industrial Radiographic Operations, Particle Accelerators for Nonhuman Use, Analytical X-Ray Equipment, and Well-Logging Safety Requirements for the Use of Radiation Machines and Certain Uses of Radioactive Materials	30

Old IAC 641 – Chapter 37 Physical Protection of Category 1 and Category 2 Quantities of Radioactive Material

IAC 641 (136C) Chapter, prior to July 1, 2026	New IAC 641 (136C), July 1, 2026	Code of Federal Regulations rule (if applicable)
Old IAC 641 – Chapter 37 Physical Protection of Category 1 and Category 2 Quantities of Radioactive Material	<u>New Iowa Administrative Code—Rule 641.39.13</u> <u>Adopts 10 CFR 37 by reference</u> <u>(Read full Chapter 39)</u>	<u>Link to most applicable part of 10 CFR 37</u> <u>(Read full 10 CFR 37)</u>
641.37.1 Purpose and scope.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR Part 37 Subpart A (Aug. 1, 2025) -- General Provisions</u>
641.37.7 Communications.	<u>10 CFR 37.7 not adopted by reference.</u> <u>Contact Iowa HHS instead of NRC generally. See 39.13(2)</u>	N/A
641.37.11 Specific exemptions.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.11 (Aug. 1, 2025) -- Specific exemptions.</u>
641.37.21 Personnel access authorization requirements for category 1 or category 2 quantities of radioactive material.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.21 (Aug. 1, 2025) -- Personnel access authorization requirements for category 1 or category 2 quantities of radioactive material.</u>
641.37.23 Access authorization program requirements.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.23 (Aug. 1, 2025) -- Access authorization program requirements.</u>
641.37.25 Background investigations.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.25 (Aug. 1, 2025) -- Background investigations.</u>
641.37.27 Requirements for criminal history records checks of individuals granted unescorted access to category 1 or category 2 quantities of radioactive material.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.27 (Aug. 1, 2025) -- Requirements for criminal history records checks of individuals granted unescorted access to category 1 or category 2 quantities of radioactive material.</u>
641.37.29 Relief from fingerprinting, identification, and criminal history records checks and other elements of background	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.29 (Aug. 1, 2025) -- Relief from fingerprinting, identification, and criminal history records checks and other elements</u>

investigations for designated categories of individuals permitted unescorted access to certain radioactive materials.		<u>of background investigations for designated categories of individuals permitted unescorted access to certain radioactive materials.</u>
641.37.30 Reserved	N/A	N/A
641.37.31 Protection of information.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.31 (Aug. 1, 2025) -- Protection of information.</u>
641.37.33 Access authorization program review.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.33 (Aug. 1, 2025) -- Access authorization program review.</u>
641.37.41 Security program.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.41 (Aug. 1, 2025) -- Security program.</u>
641.37.43 General security program requirements.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.43 (Aug. 1, 2025) -- General security program requirements.</u>
641.37.45 LLEA coordination.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.45 (Aug. 1, 2025) -- LLEA coordination.</u>
641.37.47 Security zones.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.47 (Aug. 1, 2025) -- Security zones.</u>
641.37.49 Monitoring, detection, and assessment.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.49 (Aug. 1, 2025) -- Monitoring, detection, and assessment.</u>
641.37.50 Reserved	N/A	N/A
641.37.51 Maintenance and testing.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.51 (Aug. 1, 2025) -- Maintenance and testing.</u>
641.37.53 Requirements for mobile devices.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.53 (Aug. 1, 2025) -- Requirements for mobile devices.</u>
641.37.55 Security program review.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.55 (Aug. 1, 2025) -- Security program review.</u>
641.37.57 Reporting of events.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.57 (Aug. 1, 2025) -- Reporting of events.</u>
641.37.58-70 Reserved	N/A	N/A

641.37.71 Additional requirements for transfer of category 1 and category 2 quantities of radioactive material.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.71 (Aug. 1, 2025) -- Additional requirements for transfer of category 1 and category 2 quantities of radioactive material.</u>
641.37.73 Applicability of physical protection of category 1 and category 2 quantities of radioactive material during transit.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.73 (Aug. 1, 2025) -- Applicability of physical protection of category 1 and category 2 quantities of radioactive material during transit.</u>
641.37.75 Preplanning and coordination of shipment of category 1 or category 2 quantities of radioactive material.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.75 (Aug. 1, 2025) -- Preplanning and coordination of shipment of category 1 or category 2 quantities of radioactive material.</u>
641.37.77 Advance notification of shipment of category 1 quantities of radioactive material.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.77 (Aug. 1, 2025) -- Advance notification of shipment of category 1 quantities of radioactive material.</u>
641.37.79 Requirements for physical protection of category 1 and category 2 quantities of radioactive material during shipment.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.79 (Aug. 1, 2025) -- Requirements for physical protection of category 1 and category 2 quantities of radioactive material during shipment.</u>
641.37.81 Reporting of events.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.81 (Aug. 1, 2025) -- Reporting of events.</u>
641.37.101 Form of records.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.101 (Aug. 1, 2025) -- Form of records.</u>
641.37.103 Record retention.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.103 (Aug. 1, 2025) -- Record retention.</u>
641.37.105 Inspections.	<u>Iowa Administrative Code—Rule 641.39.13</u>	<u>eCFR :: 10 CFR 37.105 (Aug. 1, 2025) -- Inspections.</u>

Old IAC 641 – Chapter 38: General Provisions for Radiation Machines and Radioactive Materials

IAC 641 (136C) Chapter, prior to July 1, 2026	New IAC 641 (136C), July 1, 2026	Code of Federal Regulations rule (if applicable)
Old IAC 641 – Chapter 38: General Provisions for Radiation Machines and Radioactive Materials	New Iowa Administrative Code	
641—38.1(136C) Purpose and scope.	Iowa Administrative Code — Chapter 641.37	N/A
641—38.2(136C) Definitions.	Iowa Administrative Code — Rule 641.37.2	N/A
641—38.3(136C) Exemptions from the regulatory requirements.	Iowa Administrative Code — Rule 641.37.3	N/A
641—38.4(136C) General regulatory requirements.		N/A
38.4(1) Records.	Iowa Administrative Code — Rule 641.37.4	N/A
38.4(2) Inspections.	Iowa Administrative Code — Rule 641.37.4	N/A
38.4(3) Tests.	Iowa Administrative Code — Rule 641.37.4	N/A
38.4(4) Units of exposure and dose.	Iowa Administrative Code — Rule 641.37.5	N/A
641—38.6(136C) Prohibited uses.	Iowa Administrative Code — Rule 641.37.6	N/A
641—38.7(136C) Communications.	Iowa Administrative Code — Rule 641.37.7	N/A
641—38.8(136C) Fees.	Iowa Administrative Code — Rule 641.37.9	N/A
38.8(1) Radiation machines.	Iowa Administrative Code —Rule 641.37.9(1)	N/A
38.8(2) Radioactive material fee schedule.	Iowa Administrative Code —Rule 641.37.9(4)	N/A
38.8(3) Industrial radiography testing and certification.	N/A	N/A
38.8(4) Owner-assessed expenses.	Iowa Administrative Code—Rule 641.37.9(6) 'a.'	N/A
38.8(5) Environmental surveillance fee.	Iowa Administrative Code — Rule 641.37.9(6) 'b.'	N/A
38.8(7) Returned check and late fees.	Iowa Administrative Code — Rule 641.37.9(6) 'c.'	N/A
38.8(8) Reciprocity.	Iowa Administrative Code — Rule 641.37.9(6) 'd.'	N/A
38.8(11) Radioactive material transport fee schedule.	Iowa Administrative Code — Rule 641.37.9(5)	N/A
38.8(12) Fee waiver.	Iowa Administrative Code — Rule 641.37.9(6) 'e.'	N/A

641—38.9(136C) Administrative enforcement actions.	<u>Iowa Administrative Code — Rule 641.37.10</u>	N/A
38.9(1) Scope.	<u>Iowa Administrative Code — Rule 641.37.10</u>	N/A
38.9(2) Notice of violation.	<u>Iowa Administrative Code — Rule 641.37.10(1)</u>	N/A
38.9(3) Orders.	<u>Iowa Administrative Code — Rule 641.37.10(2)</u>	N/A
38.9(4) Settlement and compromise.	<u>Iowa Administrative Code — Rule 641.37.10(3)</u>	N/A
38.9(5) Demand for information.	<u>Iowa Administrative Code — Rule 641.37.10(4)</u>	N/A
38.9(6) Civil penalties.	<u>Iowa Administrative Code — Rule 641.37.10(5)</u>	N/A
38.9(7) Requests for action under this rule.	<u>Iowa Administrative Code — Rule 641.37.10(6)</u>	N/A
38.9(8) Impounding.	<u>Iowa Administrative Code — Rule 641.37.10(7)</u>	N/A
641—38.10(136C) Deliberate misconduct.	<u>Iowa Administrative Code — Rule 641.37.10(8)</u>	N/A
38.10(1)	<u>Iowa Administrative Code — Rule 641.37.10(8) 'a.'</u>	N/A
38.10(2)	<u>Iowa Administrative Code — Rule 641.37.10(8) 'b.'</u>	N/A
38.10(3)	<u>Iowa Administrative Code — Rule 641.37.10(8) 'c.'</u>	N/A

Old IAC 641 – Chapter 39: Registration of Radiation Machine Facilities, Licensure of Radioactive Materials and Transportation of Radioactive Materials

IAC 641 (136C) Chapter, prior to July 1, 2026	New IAC 641 (136C), July 1, 2026	Code of Federal Regulations rule (if applicable)
Old IAC 641 – Chapter 39: Registration of Radiation Machine Facilities, Licensure of Radioactive Materials and Transportation of Radioactive Materials	New Iowa Administrative Code	
641—39.1(136C) Purpose and scope.	Iowa Administrative Code—Rule 641.37.1(1)	N/A
39.1(1)	Iowa Administrative Code—Rule 641.37.1(2)	N/A
39.1(2)	Iowa Administrative Code—Rule 641.37.1(3)	N/A
39.1(3)	Iowa Administrative Code—Rule 641.39.3(4)	N/A
39.1(4)	Iowa Administrative Code—Rule 641.37.1(8)	N/A
39.1(5)	Iowa Administrative Code—Rule 641.37.1(1)	N/A
641—39.2(136C) Definitions. (Same as 38.2)	Iowa Administrative Code—Chapter 641.37(2)	N/A
641—39.3(136C) Requirements for registration of X-ray and other electronic machines that produce radiation.	Iowa Administrative Code—Rule 641.37.8	N/A
39.3(1) Exemptions.	Iowa Administrative Code—Rule 641.37.8(1)	N/A
39.3(2) Application for registration of radiation machine facilities.	Iowa Administrative Code—Rule 641.37.8(2)	N/A
39.3(3) Application for registration of servicing and services.	Iowa Administrative Code—Rule 641.37.8(3)	N/A
39.3(4) Issuance of notice of registration.	Iowa Administrative Code—Rule 641.37.8(6)	N/A
39.3(5) Expiration of notice of registration.	Iowa Administrative Code—Rule 641.37.8(7)	N/A
39.3(6) Renewal of notice of registration.	Iowa Administrative Code—Rule 641.37.8(8)	N/A
39.3(7) Report of changes.	Iowa Administrative Code—Rule 641.37.8(10)	N/A

39.3(8) Approval not implied.	Iowa Administrative Code—Rule 641.37.8(11)	N/A
39.3(9) Assembler and transfer obligation.	Iowa Administrative Code—Rule 641.37.8(12)	N/A
39.3(10) Reciprocity—out-of-state radiation machines.	Iowa Administrative Code—Rule 641.39.6(2)	N/A
641—39.4(136C) Requirements for licensing of radioactive materials.	-	N/A
39.4(1) Additional requirements.	-	N/A
39.4(2) Source material.	Iowa Administrative Code — Rule 641.39.15	eCFR :: 10 CFR 40.13 (Aug. 1, 2025) -- Unimportant quantities of source material.
39.4(3) Radioactive material other than source material.	Iowa Administrative Code — Rule 641.39.7	eCFR :: 10 CFR Part 31 (Aug. 1, 2025) -- General Domestic Licenses for Byproduct Material
a. Exempt concentrations.	Iowa Administrative Code — Rule 641.39.6	eCFR :: 10 CFR 30.14 (Aug. 1, 2025) -- Exempt concentrations.
b. Exempt quantities	Iowa Administrative Code — Rule 641.39.6	eCFR :: 10 CFR 30.18 (Aug. 1, 2025) -- Exempt quantities.
c. Exempt items.	Iowa Administrative Code — Rule 641.39.6	eCFR :: 10 CFR 30.15 (Aug. 1, 2025) -- Certain items containing byproduct material.
39.4(4) to 39.4(19) Reserved.	N/A	N/A
39.4(20) Types of licenses.	Iowa Administrative Code — Rule 641.39.6	eCFR :: 10 CFR 30.31 (Aug. 1, 2025) -- Types of licenses.
39.4(21) General licenses—source material.	Iowa Administrative Code — Rule 641.39.15	eCFR :: 10 CFR 40.22 (Aug. 1, 2025) -- Small quantities of source material.
39.4(22) General licenses—radioactive material other than source material.	Iowa Administrative Code — Rule 641.39.7	eCFR :: 10 CFR Part 31 (Aug. 1, 2025) -- General Domestic Licenses for Byproduct Material
d. Certain detecting, measuring, gauging, or controlling devices and certain devices for producing light or an ionized atmosphere.	Iowa Administrative Code — Rule 641.39.7	eCFR :: 10 CFR 31.5 (Aug. 1, 2025) -- Certain detecting, measuring, gauging, or controlling devices and certain devices for producing light or an ionized atmosphere.

e. Luminous safety devices for aircraft.	Iowa Administrative Code — Rule 641.39.7	eCFR :: 10 CFR 31.7 (Aug. 1, 2025) -- Luminous safety devices for use in aircraft.
g. Calibration and reference sources.	Iowa Administrative Code — Rule 641.39.7	eCFR :: 10 CFR 31.8 (Aug. 1, 2025) -- Americium-241 and radium-226 in the form of calibration or reference sources.
i. General license for use of radioactive material for certain in vitro clinical or laboratory testing.	Iowa Administrative Code — Rule 641.39.7	eCFR :: 10 CFR 31.11 (Aug. 1, 2025) -- General license for use of byproduct material for certain in vitro clinical or laboratory testing.
j. Ice detection devices	Iowa Administrative Code — Rule 641.39.7	eCFR :: 10 CFR 31.10 (Aug. 1, 2025) -- General license for strontium 90 in ice detection devices.
k. Certain items and self-luminous products containing radium-226.	Iowa Administrative Code — Rule 641.39.7	eCFR :: 10 CFR 31.12 (Aug. 1, 2025) -- General license for certain items and self-luminous products containing radium-226.
39.4(23) Reserved.	N/A	N/A
39.4(24) Filing application for specific licenses.	Iowa Administrative Code — Rule 641.39.6	eCFR :: 10 CFR 30.32 (Aug. 1, 2025) -- Application for specific licenses.
39.4(25) General requirements for the issuance of specific licenses.	Iowa Administrative Code — Rule 641.39.6	eCFR :: 10 CFR 30.33 (Aug. 1, 2025) -- General requirements for issuance of specific licenses.
39.4(26) Financial assurance and record keeping for decommissioning.	Iowa Administrative Code — Rule 641.39.6	eCFR :: 10 CFR 30.35 (Aug. 1, 2025) -- Financial assurance and recordkeeping for decommissioning.
39.4(27) Special requirements for issuance of certain specific licenses for radioactive material.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.11 (Aug. 1, 2025) -- Application for a specific license.
e. Use of sealed sources in industrial radiography.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.13 (Aug. 1, 2025) -- Specific license for industrial radiography.
39.4(28) Special requirements for specific licenses of broad scope.	Iowa Administrative Code — Rule 641.39.9	eCFR :: 10 CFR Part 33 (Aug. 1, 2025) -- Specific Domestic Licenses of Broad Scope for Byproduct Material
39.4(29) Special requirements for a specific license to manufacture, assemble, repair, or	Iowa Administrative Code — Rule 641.39.8	eCFR :: 10 CFR Part 32 (Aug. 1, 2025) -- Specific Domestic Licenses to Manufacture or

distribute commodities, products, or devices which contain radioactive material.		Transfer Certain Items Containing Byproduct Material
d. Licensing the manufacture and distribution of devices to persons generally licensed under 39.4(22)“d.”	Iowa Administrative Code — Rule 641.39.8	eCFR :: 10 CFR 32.51 (Aug. 1, 2025) -- Byproduct material contained in devices for use under § 31.5; requirements for license to manufacture, or initially transfer.
e. Special requirements for the manufacture, assembly, or repair of luminous safety devices for use in aircraft.	Iowa Administrative Code — Rule 641.39.8	eCFR :: 10 CFR 32.53 (Aug. 1, 2025) -- Luminous safety devices for use in aircraft: Requirements for license to manufacture, assemble, repair or initially transfer.
f. An application for a specific license to manufacture or initially transfer calibration or reference sources	Iowa Administrative Code — Rule 641.39.8	eCFR :: 10 CFR 32.57 (Aug. 1, 2025) -- Calibration or reference sources containing americium-241 or radium-226: Requirements for license to manufacture or initially transfer.
g. Reserved.	N/A	N/A
h. Manufacture and distribution of radioactive material for certain in vitro clinical or laboratory testing under general license	Iowa Administrative Code — Rule 641.39.8	eCFR :: 10 CFR 32.71 (Aug. 1, 2025) -- Manufacture and distribution of byproduct material for certain in vitro clinical or laboratory testing under general license.
i. An application for a specific license to manufacture or initially transfer ice detection devices containing strontium-90 to persons generally licensed under 39.4(22)“j”	Iowa Administrative Code — Rule 641.39.8	eCFR :: 10 CFR 32.61 (Aug. 1, 2025) -- Ice detection devices containing strontium-90; requirements for license to manufacture or initially transfer.
j. Manufacture, preparation, or transfer for commercial distribution of radioactive drugs containing byproduct material for medical use under 641—41.2(136C)	Iowa Administrative Code — Rule 641.39.8	eCFR :: 10 CFR 32.72 (Aug. 1, 2025) -- Manufacture, preparation, or transfer for commercial distribution of radioactive drugs containing byproduct material for medical use under part 35.
k. Manufacture and distribution of generators or reagent kits for preparation of	Iowa Administrative Code — Rule 641.39.8	eCFR :: 10 CFR 32.72 (Aug. 1, 2025) -- Manufacture, preparation, or transfer for commercial distribution of radioactive drugs

radiopharmaceuticals containing radioactive material.		containing byproduct material for medical use under part 35.
l. Manufacture and distribution of sources or devices containing radioactive material for medical use.	Iowa Administrative Code — Rule 641.39.8	eCFR :: 10 CFR 32.74 (Aug. 1, 2025) -- Manufacture and distribution of sources or devices containing byproduct material for medical use.
m. Requirements for license to manufacture and distribute industrial products containing depleted uranium for mass-volume applications.	Iowa Administrative Code — Rule 641.39.15	eCFR :: 10 CFR 40.34 (Aug. 1, 2025) -- Special requirements for issuance of specific licenses.
o. Acceptance sampling procedures under certain specific licenses.	Iowa Administrative Code — Rule 641.39.8	See applicable use in 10 CFR 32 for lot tolerance rules.
39.4(30) Reserved.	N/A	N/A
39.4(31) Issuance of specific licenses.		
a.		
b.	Iowa Administrative Code — Rule 641.39.15	eCFR :: 10 CFR 40.41 (Aug. 1, 2025) -- Terms and conditions of licenses.
c. Specific license for industrial radiography	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.13 (Aug. 1, 2025) -- Specific license for industrial radiography.
d. Specific licenses for well logging.	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.13 (Aug. 1, 2025) -- Specific licenses for well logging.
39.4(32) Specific terms and conditions of licenses.	N/A	N/A
a.		
b. No license issued or granted under this chapter...	Iowa Administrative Code — Rule 641.39.15	Wording most similar to eCFR :: 10 CFR 40.46 -- Inalienability of licenses.
c. Each person licensed by the agency pursuant to this chapter shall confine use and possession of the material licensed to the locations and purposes authorized in the license.	Iowa Administrative Code — Rule 641.39.6	eCFR :: 10 CFR 30.34 (Aug. 1, 2025) -- Terms and conditions of licenses.

d. Each licensee shall notify the agency in writing when the licensee decides to permanently discontinue all activities involving materials authorized under the license.	N/A	-
e.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.204 (Aug. 1, 2025) -- Permissible molybdenum-99, strontium-82, and strontium-85 concentrations.
f.		-
g. (1) Authorization under 39.4(29)“h” to produce positron emission tomography (PET) radioactive drugs for noncommercial transfer to medical use licensees in the licensee’s consortium does not relieve the licensee from complying with applicable FDA, other federal, and state requirements governing radioactive drugs	Iowa Administrative Code — Rule 641.39.8	eCFR :: 10 CFR 32.72 (Aug. 1, 2025) -- Manufacture, preparation, or transfer for commercial distribution of radioactive drugs containing byproduct material for medical use under part 35.
39.4(33) Expiration and termination of licenses and decommissioning of sites and separate buildings or outdoor areas.	Iowa Administrative Code — Rule 641.39.6	eCFR :: 10 CFR 30.36 (Aug. 1, 2025) -- Expiration and termination of licenses and decommissioning of sites and separate buildings or outdoor areas.
39.4(34) Renewal of licenses.	Iowa Administrative Code — Rule 641.39.6	eCFR :: 10 CFR 30.37 (Aug. 1, 2025) -- Application for renewal of licenses.
39.4(35) Amendment of licenses at request of licensee.	Iowa Administrative Code — Rule 641.39.6	eCFR :: 10 CFR 30.38 (Aug. 1, 2025) -- Application for amendment of licenses and registration certificates.
39.4(36) Agency action on applications to renew or amend.	Iowa Administrative Code — Rule 641.39.6	eCFR :: 10 CFR 30.39 (Aug. 1, 2025) -- Commission action on applications to renew or amend.
39.4(37) Persons possessing a license for source, byproduct, or special nuclear material in quantities not sufficient to form a critical mass on effective date of these rules.		

39.4(38) Persons possessing naturally occurring and accelerator-produced radioactive material on effective date of these rules.		
39.4(39) Requirements for license to initially transfer source material for use under a general license.	Iowa Administrative Code — Rule 641.39.15	eCFR :: 10 CFR 40.54 (Aug. 1, 2025) -- Requirements for license to initially transfer source material for use under the 'small quantities of source material' general license.
39.4(40) Conditions of licenses to initially transfer source material for use under general license: quality control, labeling, safety instructions, and records and reports.	Iowa Administrative Code — Rule 641.39.15	eCFR :: 10 CFR 40.55 (Aug. 1, 2025) -- Conditions of licenses to initially transfer source material for use under the 'small quantities of source material' general license: Quality control, labeling, safety instructions, and records and reports.
39.4(41) Transfer of material.	Iowa Administrative Code — Rule 641.39.15	eCFR :: 10 CFR 40.51 (Aug. 1, 2025) -- Transfer of source or byproduct material.
39.4(51) Modification and revocation of licenses.	Iowa Administrative Code — Rule 641.39.15	eCFR :: 10 CFR 40.71 (Aug. 1, 2025) -- Modification and revocation of licenses.
39.4(52) Records.	Iowa Administrative Code — Rule 641.39.15	eCFR :: 10 CFR 40.61 (Aug. 1, 2025) -- Records.
39.4(90) Reciprocal recognition of licenses	Iowa Administrative Code — Rule 641.39.18	eCFR :: 10 CFR 150.20 (Aug. 1, 2025) -- Recognition of Agreement State licenses.
641—39.5(136C) Transportation of radioactive material.	Iowa Administrative Code — Rule 641.39.17	eCFR :: 10 CFR Part 71 (Aug. 1, 2025) -- Packaging and Transportation of Radioactive Material
39.5(1)	Iowa Administrative Code — Rule 641.39.17	eCFR :: 10 CFR Part 71 (Aug. 1, 2025) -- Packaging and Transportation of Radioactive Material

Old IAC 641 – Chapter 40: Standards for Protection Against Radiation

IAC 641 (136C) Chapter, prior to July 1, 2026	New IAC 641 (136C), July 1, 2026	Code of Federal Regulations rule (if applicable)
Old IAC 641 – Chapter 40: Standards for Protection Against Radiation	New Iowa Administrative Code	
General Provisions	N/A	N/A
641—40.1(136C) Purpose and scope.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.1001 (Aug. 1, 2025) -- Purpose.
641—40.1(136C) Purpose and scope.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.1002 (Aug. 1, 2025) -- Scope.
641—40.2(136C) Definitions.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.1003 (Aug. 1, 2025) -- Definitions.
641—40.3(136C) Implementation.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.1008 (Aug. 1, 2025) -- Implementation.
Radiation Protection Programs	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR Part 20 Subpart B (Aug. 1, 2025) -- Radiation Protection Programs
641—40.10(136C) Radiation protection programs.	Iowa Administrative Code — Rule 641.37.11(2)	eCFR :: 10 CFR 20.1101 (Aug. 1, 2025) -- Radiation protection programs.
Occupational Dose Limits	Iowa Administrative Code — Rule 641.37.11(3)	eCFR :: 10 CFR Part 20 Subpart C (Aug. 1, 2025) -- Occupational Dose Limits
641—40.15(136C) Occupational dose limits for adults.	Iowa Administrative Code—Rule 641.37.11(3)	eCFR :: 10 CFR 20.1201 (Aug. 1, 2025) -- Occupational dose limits for adults.
641—40.16(136C) Compliance with requirements for summation of external and internal doses.	Iowa Administrative Code—Rule 641.37.11(4)	eCFR :: 10 CFR 20.1202 (Aug. 1, 2025) -- Compliance with requirements for summation of external and internal doses.
641—40.17(136C) Determination of external dose from airborne radioactive material.	Iowa Administrative Code—Rule 641.37.11(5)	eCFR :: 10 CFR 20.1203 (Aug. 1, 2025) -- Determination of external dose from airborne radioactive material.
641—40.18(136C) Determination of internal exposure.	Iowa Administrative Code—Rule 641.37.11(6)	eCFR :: 10 CFR 20.1204 (Aug. 1, 2025) -- Determination of internal exposure.

641—40.19(136C) Determination of prior occupational dose.	Iowa Administrative Code—Rule 641.37.11(7)	eCFR :: 10 CFR 20.2104 (Aug. 1, 2025) -- Determination of prior occupational dose.
641—40.20(136C) Planned special exposures.	Iowa Administrative Code—Rule 641.37.11(8)	eCFR :: 10 CFR 20.1206 (Aug. 1, 2025) -- Planned special exposures.
Radiation Dose Limits for Individual Members of the Public	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR Part 20 Subpart D (Aug. 1, 2025) -- Radiation Dose Limits for Individual Members of the Public
641—40.26(136C) Dose limits for individual members of the public.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.1301 (Aug. 1, 2025) -- Dose limits for individual members of the public.
641—40.27(136C) Compliance with dose limits for individual members of the public.	Iowa Administrative Code—Rule 641.37.11(12)	-
Radiological Criteria for License Termination	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR Part 20 Subpart E (Aug. 1, 2025) -- Radiological Criteria for License Termination
641—40.28(136C) Radiological criteria for license termination.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.1401 (Aug. 1, 2025) -- General provisions and scope.
641—40.29(136C) Radiological criteria for unrestricted use.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.1402 (Aug. 1, 2025) -- Radiological criteria for unrestricted use.
641—40.30(136C) Criteria for license termination under restricted conditions.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.1403 (Aug. 1, 2025) -- Criteria for license termination under restricted conditions.
641—40.31(136C) Alternate criteria for license termination.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.1404 (Aug. 1, 2025) -- Alternate criteria for license termination.
Testing for Leakage or Contamination of Sealed Sources	-	-
641—40.32(136C) Testing for leakage or contamination of sealed sources.		No similar provision; rules depend on context of use. Refer to specific testing requirements for the applicable sealed source device registry and application in 10 CFR

Surveys and Monitoring	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR Part 20 Subpart F (Aug. 1, 2025) -- Surveys and Monitoring
641—40.36(136C) Surveys and monitoring—general.	Iowa Administrative Code—Rule 641.37.11(13)	-
641—40.37(136C) Conditions requiring individual monitoring of external and internal occupational dose.	Iowa Administrative Code—Rule 641.37.11(14)	-
Control of Exposure from External Sources in Restricted Areas	-	-
641—40.42(136C) Control of access to high radiation areas.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.1601 (Aug. 1, 2025) -- Control of access to high radiation areas.
641—40.43(136C) Control of access to very high radiation areas.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.1602 (Aug. 1, 2025) -- Control of access to very high radiation areas.
641—40.44(136C) Control of access to very high radiation areas—irradiators.	Iowa Administrative Code—Rule 641.37.11(15)	-
Respiratory Protection and Controls to Restrict Internal Exposure in Restricted Areas	-	-
641—40.48(136C) Use of process or other engineering controls.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.1701 (Aug. 1, 2025) -- Use of process or other engineering controls.
641—40.49(136C) Use of other controls.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.1702 (Aug. 1, 2025) -- Use of other controls.
641—40.50(136C) Use of individual respiratory protection equipment.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.1703 (Aug. 1, 2025) -- Use of individual respiratory protection equipment.
Storage and Control of Licensed or Registered Sources of Radiation	-	-
1. 641—40.55(136C) Security and control of licensed or registered sources of radiation.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.1801 (Aug. 1, 2025) -- Security of stored material.
2. 641—40.55(136C) Security and control of licensed or registered sources of radiation.	Iowa Administrative Code — Rule 641.39.5	eCFR :: 10 CFR 20.1802 (Aug. 1, 2025) -- Control of material not in storage.
Precautionary Procedures	-	-

641—40.60(136C) Caution signs.	Iowa Administrative Code — Rule 641.39.5	eCFR :: 10 CFR 20.1901 (Aug. 1, 2025) -- Caution signs.
641—40.61(136C) Posting requirements.	Iowa Administrative Code — Rule 641.39.5	eCFR :: 10 CFR 20.1902 (Aug. 1, 2025) -- Posting requirements.
641—40.62(136C) Exceptions to posting requirements.	Iowa Administrative Code — Rule 641.39.5	eCFR :: 10 CFR 20.1903 (Aug. 1, 2025) -- Exceptions to posting requirements.
641—40.63(136C) Labeling containers and radiation machines.	Iowa Administrative Code — Chapter 641.42 (for radiation machines; see CFR for containers)	eCFR :: 10 CFR 20.1904 (Aug. 1, 2025) -- Labeling containers.
Waste Disposal	-	-
641—40.70(136C) General requirements.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.2001 (Aug. 1, 2025) -- General requirements.
641—40.71(136C) Method for obtaining approval of proposed disposal procedures.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.2002 (Aug. 1, 2025) -- Method for obtaining approval of proposed disposal procedures.
641—40.72(136C) Disposal by release into sanitary sewerage.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.2003 (Aug. 1, 2025) -- Disposal by release into sanitary sewerage.
641—40.73(136C) Treatment or disposal by incineration.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.2004 (Aug. 1, 2025) -- Treatment or disposal by incineration.
641—40.74(136C) Disposal of specific wastes.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.2005 (Aug. 1, 2025) -- Disposal of specific wastes.
641—40.75(136C) Transfer for disposal and manifests.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.2006 (Aug. 1, 2025) -- Transfer for disposal and manifests.
641—40.76(136C) Compliance with environmental and health protection regulations.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.2007 (Aug. 1, 2025) -- Compliance with environmental and health protection regulations.
641—40.77(136C) Disposal of certain byproduct material.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.2008 (Aug. 1, 2025) -- Disposal of certain byproduct material.
Records	39.5(1) adopts 10 CFR Part 20 by reference. Additional requirements in IAC 641.37	eCFR :: 10 CFR Part 20 Subpart L (Aug. 1, 2025) -- Records

641—40.80(136C) General provisions.	Iowa Administrative Code — Rule 641.37.12(1)	-
641—40.81(136C) Records of radiation protection programs.	Iowa Administrative Code — Rule 641.37.12(3)	-
641—40.82(136C) Records of surveys.	Iowa Administrative Code — Rule 641.37.12(4)	-
641—40.83(136C) Records of tests for leakage or contamination of sealed sources.	Iowa Administrative Code — Rule 641.37.12(5)	-
641—40.84(136C) Records of prior occupational dose.	Iowa Administrative Code — Rule 641.37.12(6)	-
641—40.85(136C) Records of planned special exposures.	Iowa Administrative Code — Rule 641.37.12(7)	-
641—40.86(136C) Records of individual monitoring results.	Iowa Administrative Code—Rule 641.37.12(8)	-
641—40.87(136C) Records of dose to individual members of the public	Iowa Administrative Code—Rule 641.37.12(9)	-
641—40.88(136C) Records of waste disposal.	Iowa Administrative Code—Rule 641.37.12(10)	-
641—40.89(136C) Records of testing entry control devices for very high radiation areas.	Iowa Administrative Code—Rule 641.37.12(11)	
641—40.90(136C) Form of records.	Iowa Administrative Code—Rule 641.37.12(12)	-
Reports	39.5(1) adopts 10 CFR Part 20 by reference. Additional requirements in IAC 641.37	eCFR :: 10 CFR Part 20 Subpart M (Aug. 1, 2025) -- Reports
641—40.95(136C) Reports of stolen, lost, or missing licensed or registered sources of radiation.	Iowa Administrative Code—Rule 641.37.13(1)	-
641—40.96(136C) Notification of incidents.	Iowa Administrative Code—Rule 641.37.13(2)	-
641—40.97(136C) Reports of exposures, radiation levels, and concentrations of radioactive material exceeding the constraints or limits.	Iowa Administrative Code — Rule 641.39.5	eCFR :: 10 CFR 20.2203 (Aug. 1, 2025) -- Reports of exposures, radiation levels, and concentrations of radioactive material exceeding the constraints or limits.
641—40.98(136C) Reports of planned special exposures.	Iowa Administrative Code — Rule 641.37.13(8)	-

641—40.99(136C) Reports of transactions involving nationally tracked sources.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.2207 (Aug. 1, 2025) -- Reports of transactions involving nationally tracked sources.
641—40.100(136C) Reports of individual monitoring.	Iowa Administrative Code—Rule 641.39.5	eCFR :: 10 CFR 20.2206 (Aug. 1, 2025) -- Reports of individual monitoring.
641—40.101(136C) Notifications and reports to individuals.	Iowa Administrative Code—Rule 641.37.14(3)	-
641—40.102(136C) Reports of leaking or contaminated sealed sources.	Iowa Administrative Code — Rule 641.39.5	Rule depends on context of use. Refer to leak testing and record requirements for the applicable sealed source device registry and the relevant application in 10 CFR
Additional Requirements		
641—40.105(136C) Vacating premises.		No similar provision.
Notices, Instructions, and Reports to Workers; Inspections	Iowa Administrative Code — Rule 641.39.4 (10 CFR 19 is adopted by reference. See IAC 641.37 for additional requirements)	eCFR :: 10 CFR Part 19 (Aug. 1, 2025) -- Notices, Instructions and Reports to Workers: Inspection and Investigations
641—40.110(136C) Posting of notices to workers	Iowa Administrative Code—Rule 641.37.14(1)	-
641—40.111(136C) Instructions to workers.	Iowa Administrative Code—Rule 641.37.14(2)	-
641—40.112(136C) Notifications and reports to individuals.	Iowa Administrative Code—Rule 641.37.14(3)	-
641—40.113(136C) Presence of representatives of licensees or registrants and workers during inspection.	Iowa Administrative Code—Rule 641.37.15(1)	-
641—40.114(136C) Consultation with workers during inspections.	Iowa Administrative Code—Rule 641.37.15(2)	-
641—40.115(136C) Requests by workers for inspections.	Iowa Administrative Code—Rule 641.37.15(3)	-
641—40.116(136C) Inspections not warranted—informal review.	Iowa Administrative Code—Rule 641.37.15(4)	-
641—40.117(136C) Employee protection.	Iowa Administrative Code—Rule 641.37.15(5)	-

Old IAC 641 – Chapter 41: Safety Requirements for the Use of Radiation Machines and Certain Uses of Radioactive Materials

IAC 641 (136C) Chapter, prior to July 1, 2026	New IAC 641 (136C), July 1, 2026	Code of Federal Regulations rule (if applicable)
Old IAC 641 – Chapter 41: Safety Requirements for the Use of Radiation Machines and Certain Uses of Radioactive Materials	<u>New Iowa Administrative Code — Rule 641.39.13 – Adopts 10 CFR 37 by reference (Click for full Chapter 39)</u>	<u>Most applicable part of 10 CFR 35 (Click for full 10 CFR 35)</u>
<i>41.1 – Concerns x-ray machines for diagnostic use and is not within the purview of the Radioactive Materials Program</i>	-	N/A. Not adopted by reference.
641—41.2(136C) Use of radionuclides in the healing arts.	<u>Iowa Administrative Code — Rule 641.39.11</u>	<u>eCFR :: 10 CFR Part 35 (Aug. 1, 2025) -- Medical Use of Byproduct Material</u>
41.2(1) Purpose and scope.	<u>Iowa Administrative Code — Rule 641.39.11</u>	<u>eCFR :: 10 CFR 35.1 (Aug. 1, 2025) -- Purpose and scope.</u>
41.2(2) Definitions.	<u>Iowa Administrative Code — Rule 641.39.11</u>	<u>eCFR :: 10 CFR 35.2 (Aug. 1, 2025) -- Definitions.</u>
41.2(3) License required.	<u>Iowa Administrative Code — Rule 641.39.11</u>	<u>eCFR :: 10 CFR 35.11 (Aug. 1, 2025) -- License required.</u>
41.2(4) License amendments.	<u>Iowa Administrative Code — Rule 641.39.11</u>	<u>eCFR :: 10 CFR 35.13 (Aug. 1, 2025) -- License amendments.</u>
41.2(5) Notifications.	<u>Iowa Administrative Code — Rule 641.39.11</u>	<u>eCFR :: 10 CFR 35.14 (Aug. 1, 2025) -- Notifications.</u>
41.2(6) Maintenance of records.	<u>Iowa Administrative Code — Rule 641.39.11</u>	<u>eCFR :: 10 CFR 35.5 (Aug. 1, 2025) -- Maintenance of records.</u>
41.2(7) ALARA program.	<u>Iowa Administrative Code — Rule 641.39.11</u>	<u>eCFR :: 10 CFR 35.24 (Aug. 1, 2025) -- Authority and responsibilities for the radiation protection program.</u>

41.2(8) Radiation safety officer.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.24 (Aug. 1, 2025) -- Authority and responsibilities for the radiation protection program.
41.2(9) Radiation safety committee.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.24 (Aug. 1, 2025) -- Authority and responsibilities for the radiation protection program.
41.2(10) Authority and responsibilities for the radiation protection program.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.24 (Aug. 1, 2025) -- Authority and responsibilities for the radiation protection program.
41.2(11) Supervision.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.27 (Aug. 1, 2025) -- Supervision.
41.2(12) Visiting authorized user, visiting authorized medical physicist, visiting ophthalmic physicist, and visiting authorized nuclear pharmacist.	-	No similar provision in 10 CFR 35. Similar wording exists in 35.24 but only for RSOs
41.2(13) Mobile nuclear medicine service administrative requirements.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.80 (Aug. 1, 2025) -- Provision of mobile medical service.
41.2(14) Records and reports of reportable medical events.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.3045 (Aug. 1, 2025) -- Report and notification of a medical event.
41.2(14)f. Report and notification of a dose to an embryo/fetus or a nursing child.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.3047 (Aug. 1, 2025) -- Report and notification of a dose to an embryo/fetus or a nursing child.
41.2(15) Suppliers. A licensee shall use for medical use only:	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.49 (Aug. 1, 2025) -- Suppliers for sealed sources or devices for medical use.
41.2(16) Quality control of imaging equipment.	-	No similar single provision in 10 CFR 35, but calibration requirements for devices are found throughout 10 CFR 35.
41.2(17) Possession, use, calibration, and check of dose calibrators.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.60 (Aug. 1, 2025) -- Possession, use, and calibration of instruments used to measure the activity of unsealed byproduct material.

41.2(18) Calibration and check of survey instruments.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.61 (Aug. 1, 2025) -- Calibration of survey instruments.
41.2(19) Assay of radiopharmaceutical dosages. A licensee shall:	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.63 (Aug. 1, 2025) -- Determination of dosages of unsealed byproduct material for medical use.
41.2(20) Authorization for calibration and reference sources.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.65 (Aug. 1, 2025) -- Authorization for calibration, transmission, and reference sources.
41.2(21) Requirements for possession of sealed sources and brachytherapy sources.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.67 (Aug. 1, 2025) -- Requirements for possession of sealed sources and brachytherapy sources.
41.2(22) Syringe shields.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.69 (Aug. 1, 2025) -- Labeling of vials and syringes.
41.2(23) Syringe labels.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.69 (Aug. 1, 2025) -- Labeling of vials and syringes.
41.2(24) Vial shields	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.69 (Aug. 1, 2025) -- Labeling of vials and syringes.
41.2(25) Vial shield labels.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.69 (Aug. 1, 2025) -- Labeling of vials and syringes.
41.2(26) Surveys for contamination and ambient radiation dose rate.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.70 (Aug. 1, 2025) -- Surveys of ambient radiation exposure rate.
41.2(27) Release of patients or human research subjects containing radiopharmaceuticals or permanent implants.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.75 (Aug. 1, 2025) -- Release of individuals containing unsealed byproduct material or implants containing byproduct material.
41.2(28) Mobile nuclear medicine service technical requirements.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.80 (Aug. 1, 2025) -- Provision of mobile medical service.
41.2(29) Storage of volatiles and gases.		No similar provision in 10 CFR 35. Volatile materials may still be a radiation safety concern. See 10 CFR Part 20 -- Standards for Protection Against Radiation

41.2(30) Decay-in-storage.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.92 (Aug. 1, 2025) -- Decay-in-storage.
41.2(31) Use of unsealed radioactive material for uptake, dilution, or excretion studies for which a written directive is not required.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.100 (Aug. 1, 2025) -- Use of unsealed byproduct material for uptake, dilution, and excretion studies for which a written directive is not required.
41.2(33) Use of unsealed RAM for imaging & localization studies WD not required	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.200 (Aug. 1, 2025) -- Use of unsealed byproduct material for imaging and localization studies for which a written directive is not required.
41.2(34) Permissible Mo-99, Sr-82, Sr-85 concentrations	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.204 (Aug. 1, 2025) -- Permissible molybdenum-99, strontium-82, and strontium-85 concentrations.
41.2(35) Control of aerosols & gases		No similar provision in 10 CFR 35. Aerosols and gasses may still be a radiation safety concern. See eCFR :: 10 CFR Part 20 -- Standards for Protection Against Radiation
41.2(37) Use of unsealed RAM for which a WD is required	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.300 (Aug. 1, 2025) -- Use of unsealed byproduct material for which a written directive is required.
41.2(38) Safety instruction for Rx therapy & hospitalization	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.310 (Aug. 1, 2025) -- Safety instruction.
41.2(39) Safety precautions for Rx therapy & hospitalization	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.315 (Aug. 1, 2025) -- Safety precautions.
41.2(41) Used of sealed sources for diagnosis	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.500 (Aug. 1, 2025) -- Use of sealed sources and medical devices for diagnosis.
41.2(43) Use of sources for manual brachytherapy	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.400 (Aug. 1, 2025) -- Use of sources for manual brachytherapy.
41.2(44) Safety instruction for manual brachytherapy	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.410 (Aug. 1, 2025) -- Safety instruction.

41.2(45) Safety precautions for manual brachytherapy	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.415 (Aug. 1, 2025) -- Safety precautions.
41.2(46) Brachytherapy sources inventory	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.406 (Aug. 1, 2025) -- Brachytherapy sources accountability.
41.2(47) Release of patients or human research subjects treated with temp. implants	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.404 (Aug. 1, 2025) -- Surveys after source implant and removal.
41.2(49) Use of a sealed source in a remote afterloader unit, teletherapy unit, or gamma stereotactic radiosurgery unit	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.600 (Aug. 1, 2025) -- Use of a sealed source in a remote afterloader unit, teletherapy unit, or gamma stereotactic radiosurgery unit.
41.2(50) Installation, maintenance, adjustment, & repair	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.605 (Aug. 1, 2025) -- Installation, maintenance, adjustment, and repair.
41.2(51) Amendments		No similar provision
41.2(52) Safety procedures and instructions for remote afterloader units, teletherapy units, & gamma stereotactic radiosurgery units	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.610 (Aug. 1, 2025) -- Safety procedures and instructions for remote afterloader units, teletherapy units, and gamma stereotactic radiosurgery units.
41.2(53) Safety precautions for remote afterloader units, teletherapy units, & gamma stereotactic radiosurgery units	Iowa Administrative Code—Rule 641.39.11	eCFR :: 10 CFR 35.615 (Aug. 1, 2025) -- Safety precautions for remote afterloader units, teletherapy units, and gamma stereotactic radiosurgery units.
41.2(55) Radiation monitoring device.	Iowa Administrative Code — Chapter 641.42	
41.2(56) Viewing system.	Iowa Administrative Code—Chapter 641.42	
41.2(57) Dosimetry equipment.	Iowa Administrative Code—Rule 641.42.14(2) 'b.'	eCFR :: 10 CFR 35.630 (Aug. 1, 2025) -- Dosimetry equipment.
41.2(58) Full calibration measurements on teletherapy units, remote afterloader units, and gamma stereotactic radiosurgery units.	Iowa Administrative Code—Rule 641.42.15(2) 'd.'	eCFR :: 10 CFR 35.632 (Aug. 1, 2025) -- Full calibration measurements on teletherapy units. eCFR :: 10 CFR 35.633 (Aug. 1, 2025) -- Full calibration measurements on remote afterloader units.

		eCFR :: 10 CFR 35.635 (Aug. 1, 2025) -- Full calibration measurements on gamma stereotactic radiosurgery units.
41.2(59) Periodic spot checks for teletherapy units, remote afterloader units, and gamma stereotactic radiosurgery units	Iowa Administrative Code — Rule 641.42.15(2) 'cc.'	eCFR :: 10 CFR 35.642 (Aug. 1, 2025) -- Periodic spot-checks for teletherapy units. eCFR :: 10 CFR 35.643 (Aug. 1, 2025) -- Periodic spot-checks for remote afterloader units. eCFR :: 10 CFR 35.645 (Aug. 1, 2025) -- Periodic spot-checks for gamma stereotactic radiosurgery units.
41.2(60) Radiation surveys for teletherapy facilities	Iowa Administrative Code — Rule 641.42.14	
41.2(61) Safety spot checks for teletherapy facilities	Iowa Administrative Code — Rule 641.42.15(2) 'g.'	
41.2(62) Modification of teletherapy unit or room before beginning a treatment program.	Iowa Administrative Code — Rule 641.42.14(2)	
41.2(63) Reports of teletherapy surveys, checks, tests, and measurements.	Iowa Administrative Code — Rule 641.42.14(1) 'd.'	
41.2(64) Full-inspection servicing for teletherapy and gamma stereotactic radiosurgery units.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.655 (Aug. 1, 2025) -- Full-inspection servicing for teletherapy and gamma stereotactic radiosurgery units.
41.2(65) Training for radiation safety officer	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.50 (Aug. 1, 2025) -- Training for Radiation Safety Officer and Associate Radiation Safety Officer.
41.2(66) Reserved.	N/A	N/A
41.2(67) Training for uptake, dilution, & excretion studies	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.190 (Aug. 1, 2025) -- Training for uptake, dilution, and excretion studies.

41.2(68) Training for imaging and localization studies	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.290 (Aug. 1, 2025) -- Training for imaging and localization studies.
41.2(69) Training for use of unsealed byproduct material for which a written directive is required.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.390 (Aug. 1, 2025) -- Training for use of unsealed byproduct material for which a written directive is required.
41.2(70) Training for use of manual brachytherapy sources.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.490 (Aug. 1, 2025) -- Training for use of manual brachytherapy sources.
41.2(71) Training for ophthalmic use of strontium-90.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.491 (Aug. 1, 2025) -- Training for ophthalmic use of strontium-90.
41.2(72) Training for use of sealed sources for diagnosis.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.590 (Aug. 1, 2025) -- Training for use of sealed sources and medical devices for diagnosis.
41.2(73) Training for use of remote afterloader units, teletherapy units, and gamma stereotactic radiosurgery units.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.690 (Aug. 1, 2025) -- Training for use of remote afterloader units, teletherapy units, and gamma stereotactic radiosurgery units.
41.2(74) Training for an authorized medical physicist.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.51 (Aug. 1, 2025) -- Training for an authorized medical physicist.
41.2(75) Training for experienced radiation safety officer, authorized medical physicist, nuclear pharmacist, authorized nuclear pharmacist, authorized users and teletherapy or medical physicists.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.57 (Aug. 1, 2025) -- Training for experienced Radiation Safety Officer, teletherapy or medical physicist, authorized medical physicist, authorized user, nuclear pharmacist, and authorized nuclear pharmacist.
41.2(76) Reserved.	N/A	N/A
41.2(77) Recentness of training.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.59 (Aug. 1, 2025) -- Recentness of training.
41.2(78) Training for an authorized nuclear pharmacist.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.55 (Aug. 1, 2025) -- Training for an authorized nuclear pharmacist.
41.2(79) Reserved.	N/A	N/A
41.2(80) Reserved.	N/A	N/A

41.2(81) Training for the oral administration of sodium iodide I-131 requiring a written directive in quantities less than or equal to 33 millicuries (1.22 gigabecquerels).	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.392 (Aug. 1, 2025) -- Training for the oral administration of sodium iodide I-131 requiring a written directive in quantities less than or equal to 1.22 gigabecquerels (33 millicuries).
41.2(82) Training for the oral administration of sodium iodide I-131 requiring a written directive in quantities greater than 33 millicuries (1.22 gigabecquerels).	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.394 (Aug. 1, 2025) -- Training for the oral administration of sodium iodide I-131 requiring a written directive in quantities greater than 1.22 gigabecquerels (33 millicuries).
41.2(83) Provisions for the protection of human research subjects.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.6 (Aug. 1, 2025) -- Provisions for the protection of human research subjects.
41.2(84) Calibration measurements of brachytherapy sources.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.432 (Aug. 1, 2025) -- Calibration measurements of brachytherapy sources.
41.2(85) Strontium-90 sources for ophthalmic treatment.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.433 (Aug. 1, 2025) -- Strontium-90 sources for ophthalmic treatments.
41.2(86) Therapy-related computer systems.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.657 (Aug. 1, 2025) -- Therapy-related computer systems.
41.2(87) Written directives	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.40 (Aug. 1, 2025) -- Written directives.
41.2(88) Other medical uses of byproduct material or radiation from byproduct material	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.1000 (Aug. 1, 2025) -- Other medical uses of byproduct material or radiation from byproduct material.
41.2(89) Training for the parenteral administration of unsealed byproduct material requiring a written directive.	Iowa Administrative Code — Rule 641.39.11	eCFR :: 10 CFR 35.396 (Aug. 1, 2025) -- Training for the parenteral administration of unsealed byproduct material requiring a written directive.
641—41.3(136C) Therapeutic use of radiation machines.	Iowa Administrative Code — Chapter 641.42	NRC does not regulate machines
41.3(3) Registration or license requirements	Iowa Administrative Code — Rule 641.42.3	N/A

41.3(4) General administrative requirements for facilities using therapeutic radiation machines.	Iowa Administrative Code — Rule 641.42.4	
41.3(5) Training for external beam radiation therapy authorized users	Iowa Administrative Code — Rule 641.42.5	
41.3(6) Training for radiation therapy physicist.	Iowa Administrative Code — Rule 641.42.6	
41.3(7) Qualifications of operators.	Iowa Administrative Code — Rule 641.42.7	
41.3(8) Written safety procedures	Iowa Administrative Code — Rule 641.42.8	
41.3(9)	Iowa Administrative Code — Rule 641.42.9	
41.3(10) Records of visiting authorized users.	Iowa Administrative Code — Rule 641.42.10	
41.3(11) Information and maintenance record and associated information.	Iowa Administrative Code — Rule 641.42.11	
41.3(12) Records retention.	Iowa Administrative Code — Rule 641.42.12	
41.3(13) Reserved.		
41.3(14) Written directives	Iowa Administrative Code — Rule 641.42.13	
41.3(15) Reports and notifications of misadministrations.	Iowa Administrative Code — Rule 641.37.13(3): A “misadministrartion” is now a “radiation incident”	
41.3(16) General technical requirements for facilities using therapeutic radiation machines	Iowa Administrative Code — Rule 641.42.14	
41.3(17) Therapeutic radiation machines of less than 500 kV	Iowa Administrative Code — Rule 641.42.15	
41.3(18) Therapeutic radiation machines— photon therapy systems (500 kV and above) and electron therapy systems (500 keV and above)	Iowa Administrative Code — Rule 641.42.16	
41.3(19) Shielding and safety design requirements.	Iowa Administrative Code — Rule 641.42.17	
41.3(20) Calibration of survey instruments.	Iowa Administrative Code — Rule 641.42.18	

<i>641—41.6(136C) X-ray machines used for screening and diagnostic mammography is not within the purview of the Radioactive Materials Program.</i>		
---	--	--

Old IAC 641 – Chapter 45: Radiation Safety Requirements for Industrial Radiographic Operations, Particle Accelerators for Nonhuman Use, Analytical X-Ray Equipment, and Well-Logging Safety Requirements for the Use of Radiation Machines and Certain Uses of Radioactive Materials

IAC 641 (136C) Chapter, prior to July 1, 2026	New IAC 641 (136C), July 1, 2026	Code of Federal Regulations rule (if applicable)
Old IAC 641 – Chapter 45: Radiation Safety Requirements for Industrial Radiographic Operations, Particle Accelerators for Nonhuman Use, Analytical X-Ray Equipment, and Well-Logging Safety Requirements for the Use of Radiation Machines and Certain Uses of Radioactive Materials	New Iowa Administrative Code	
641—45.1(136C) General requirements for industrial radiography operations.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR Part 34 (Aug. 1, 2025) -- Licenses for Industrial Radiography and Radiation Safety Requirements for Industrial Radiographic Operations
45.1(1) Purpose and scope.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.1 (Aug. 1, 2025) -- Purpose and scope.
45.1(2) Definitions.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.3 (Aug. 1, 2025) -- Definitions.
45.1(3) Exemptions.		N/A. No similar provision.
45.1(4) Receipt, transfer, and disposal of sources of radiation.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.63 (Aug. 1, 2025) -- Records of receipt and transfer of sealed sources.
45.1(5) Radiation survey instruments.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.25 (Aug. 1, 2025) -- Radiation survey instruments.
45.1(6) Quarterly inventory.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.69 (Aug. 1, 2025) -- Records of quarterly inventory.

45.1(7) Utilization logs.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.71 (Aug. 1, 2025) -- Utilization logs.
45.1(8) Inspection and maintenance.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.31 (Aug. 1, 2025) -- Inspection and maintenance of radiographic exposure devices, transport and storage containers, associated equipment, source changers, and survey instruments.
45.1(9) Permanent radiographic installations.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.33 (Aug. 1, 2025) -- Permanent radiographic installations.
45.1(10) Training and testing for radiographic personnel.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.43 (Aug. 1, 2025) -- Training.
45.1(11) Internal audits.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.43 (Aug. 1, 2025) -- Training.
45.1(12) Personnel monitoring control	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.47 (Aug. 1, 2025) -- Personnel monitoring.
45.1(13) Supervision of radiographer's assistant.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.46 (Aug. 1, 2025) -- Supervision of radiographers' assistants.
45.1(14) Access control.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.51 (Aug. 1, 2025) -- Surveillance.
45.1(15) Posting.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.53 (Aug. 1, 2025) -- Posting.
45.1(16) Temporary job site requirements.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.89 (Aug. 1, 2025) -- Location of documents and records.
45.1(17) Specific requirements for radiographic personnel performing industrial radiography.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.47 (Aug. 1, 2025) -- Personnel monitoring.
45.1(18) Notifications.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.101 (Aug. 1, 2025) -- Notifications.
45.1(19) Copies of operating and emergency procedures.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.81 (Aug. 1, 2025) -- Copies of operating and emergency procedures.

641—45.2(136C) Radiation safety requirements for the use of radiation machines in industrial radiography.	Iowa Administrative Code — Rule 641.39.10(3)	N/A. NRC does not regulate x-ray devices
45.2(1) Locking of sources of radiation.	Iowa Administrative Code — Rule 641.39.10(3)'a'	
45.2(2) Permanent storage precautions.	Iowa Administrative Code — Rule 641.39.10(3)'b'	-
45.2(3) Requirements for radiation machines used in industrial radiographic operations.	Iowa Administrative Code — Rule 641.39.10(3)'c'	-
45.2(4) Operating and emergency procedures.	Iowa Administrative Code — Rule 641.39.10(3)'d'	-
45.2(5) Radiation surveys and survey records.	Iowa Administrative Code — Rule 641.39.10(3)'e'	-
45.2(6) Special requirements and exemptions for enclosed radiography.	Iowa Administrative Code — Rule 641.39.10(3)'f'	-
45.2(7) Registration for industrial radiographic operations.	Iowa Administrative Code — Rule 641.39.10(3)'g'	-
641—45.3(136C) Radiation safety requirements for use of sealed sources of radiation in industrial radiography.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR Part 34 (Aug. 1, 2025) -- Licenses for Industrial Radiography and Radiation Safety Requirements for Industrial Radiographic Operations
45.3(1) Limits on external radiation levels from storage containers and source changers.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.21 (Aug. 1, 2025) -- Limits on external radiation levels from storage containers and source changers.
45.3(2) Locking of sources of radiation.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.23 (Aug. 1, 2025) -- Locking of radiographic exposure devices, storage containers and source changers.
45.3(3) Storage precautions.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.35 (Aug. 1, 2025) -- Labeling, storage, and transportation.

45.3(4) Performance requirements for radiography equipment.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.20 (Aug. 1, 2025) -- Performance requirements for industrial radiography equipment.
45.3(5) Leak testing, repair, tagging, opening, modification, and replacement of sealed sources.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.27 (Aug. 1, 2025) -- Leak testing and replacement of sealed sources.
45.3(6) Operating and emergency procedures.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.45 (Aug. 1, 2025) -- Operating and emergency procedures.
45.3(7) Radiation surveys and survey records.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.49 (Aug. 1, 2025) -- Radiation surveys.
45.3(8) Requirements for enclosed radiography.	Iowa Administrative Code — Rule 641.39.10	No similar provision
45.3(9) Underwater, offshore platform, and lay-barge radiography.	Iowa Administrative Code — Rule 641.39.10	eCFR :: 10 CFR 34.41 (Aug. 1, 2025) -- Conducting industrial radiographic operations.
45.3(10) Prohibitions.	Iowa Administrative Code — Rule 641.39.10	No similar provision
45.3(11) Licensing for industrial radiographic operations	N/A Rescinded IAB 4/5/00, effective 5/10/00	
641—45.4(136C) Radiation safety requirements for the use of particle accelerators for nonhuman use.	Iowa Administrative Code — Rule 641.42.19	
45.4(1) Purpose and scope.	Iowa Administrative Code — Rule 641.42.19	
45.4(2) Definitions.	Iowa Administrative Code — Rule 641.42.2	
45.4(3) Registration or license requirements.	Iowa Administrative Code — Rule 641.42.19	
45.4(4) General requirements for the issuance of a registration or license for particle accelerators.	Iowa Administrative Code — Rule 641.42.19(2)	
45.4(5) Personnel monitoring	Iowa Administrative Code — Rule 641.42.19(3)	
45.4(6) Operations.	Iowa Administrative Code — Rule 641.42.19(4)	
45.4(7) Shielding and safety design requirements.	Iowa Administrative Code — Rule 641.42.19(5)	
45.4(8) Particle accelerator controls and interlock systems.	Iowa Administrative Code — Rule 641.42.19(6)	

45.4(9) Warning devices.	Iowa Administrative Code — Rule 641.42.19(7)	
45.4(10) Operating and emergency procedures.	Iowa Administrative Code — Rule 641.42.19(8)	
45.4(11) Radiation monitoring requirements.	Iowa Administrative Code — Rule 641.42.19(9)	
45.4(12) Radiation safety officer.	Iowa Administrative Code — Rule 641.42.19(10)	
641—45.5(136C) Radiation safety requirements for analytical X-ray equipment.	Iowa Administrative Code — Rule 641.42.20	
45.5(1) Purpose and scope.	Iowa Administrative Code — Rule 641.42.20	
45.5(2) Definitions	Iowa Administrative Code — Rule 641.42.20	
45.5(3) Equipment requirements	Iowa Administrative Code — Rule 641.42.20(1)	
45.5(4) Area requirements.	Iowa Administrative Code — Rule 641.42.20(2)	
45.5(5) Operating requirements	Iowa Administrative Code — Rule 641.42.20(3)	
45.5(6) Personnel requirements.	Iowa Administrative Code — Rule 641.42.20(4)	
641—45.6(136C) Radiation safety requirements for well-logging, wireline service operations and subsurface tracer studies.	Iowa Administrative Code — Rule 641.39.14	
45.6(1) Purpose	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.1 (Aug. 1, 2025) -- Purpose and scope.
45.6(2) Scope.	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.1 (Aug. 1, 2025) -- Purpose and scope.
45.6(3) Definitions.	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.2 (Aug. 1, 2025) -- Definitions.
45.6(4) Agreement with well owner or operator	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.15 (Aug. 1, 2025) -- Agreement with well owner or operator.
45.6(5) Limits on levels of radiation		No similar provision.
45.6(6) Storage precautions	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.31 (Aug. 1, 2025) -- Labels, security, and transportation precautions.

45.6(7) Transport precautions.	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.31 (Aug. 1, 2025) -- Labels, security, and transportation precautions.
45.6(8) Radiation survey instruments.	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.33 (Aug. 1, 2025) -- Radiation detection instruments.
45.6(9) Leak testing of sealed sources.	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.35 (Aug. 1, 2025) -- Leak testing of sealed sources.
45.6(10) Quarterly inventory.	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.37 (Aug. 1, 2025) -- Physical inventory.
45.6(11) Utilization records.	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.39 (Aug. 1, 2025) -- Records of material use.
45.6(12) Design, performance, and certification criteria for sealed sources used in well-logging operations.	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.41 (Aug. 1, 2025) -- Design and performance criteria for sources.
45.6(13) Labeling.	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.31 (Aug. 1, 2025) -- Labels, security, and transportation precautions.
45.6(14) Inspection and maintenance.	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.43 (Aug. 1, 2025) -- Inspection, maintenance, and opening of a source or source holder.
45.6(15) Training requirements.	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.61 (Aug. 1, 2025) -- Training.
45.6(16) Operating and emergency procedures.	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.63 (Aug. 1, 2025) -- Operating and emergency procedures.
45.6(17) Personnel monitoring.	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.65 (Aug. 1, 2025) -- Personnel monitoring.
45.6(18) Security.	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.71 (Aug. 1, 2025) -- Security.
45.6(19) Handling tools.		No similar provision.

45.6(20) Subsurface tracer studies.	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.45 (Aug. 1, 2025) -- Subsurface tracer studies.
45.6(21) Particle accelerators.		No similar provision.
45.6(22) Radiation surveys.	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.67 (Aug. 1, 2025) -- Radiation surveys.
45.6(23) Documents and records required at field stations.	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.73 (Aug. 1, 2025) -- Documents and records required at field stations.
45.6(24) Documents and records required at temporary job sites	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.75 (Aug. 1, 2025) -- Documents and records required at temporary jobsites.
45.6(25) Notification of incidents, abandonment, and lost sources.	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.77 (Aug. 1, 2025) -- Notification of incidents and lost sources; abandonment procedures for irretrievable sources.
45.6(26) Reserved.	N/A	N/A
45.6(27) Radioactive markers.	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.47 (Aug. 1, 2025) -- Radioactive markers.
45.6(28) Uranium sinker bars.	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.49 (Aug. 1, 2025) -- Uranium sinker bars.
45.6(29) Use of a sealed source in a well without a surface casing	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.51 (Aug. 1, 2025) -- Use of a sealed source in a well without a surface casing.
45.6(30) Energy compensation source.	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.53 (Aug. 1, 2025) -- Energy compensation source.
45.6(31) Tritium neutron generator target source.	Iowa Administrative Code — Rule 641.39.14	eCFR :: 10 CFR 39.55 (Aug. 1, 2025) -- Tritium neutron generator target sources.