

Arkansas Regulatory Reporting Requirements

Reporting requirements are contained in multiple Sections of the Rules and Regulations for Control of Sources of Ionizing Radiation. The following provides a listing of the most commonly encountered *radioactive material* reporting requirements. See Department regulations for a complete and current list. Please note that some incidents may trigger more than one reporting requirement.

	RH- [10 CFR]	Telephone Notification	Written Notification	Summary of Reporting Requirement
Section 2, Licensing of Radioactive Materials	106. [30.9]	Telephone or written within 2 working days of identifying the information	Telephone or written within 2 working days of identifying the information	Information identified by an applicant or licensee as having for the regulated activity a significant implication for public health and safety or property. Not applicable to information which is already required to be provided to the Department by other reporting or updating requirements.
	409.g. [30.34(h)]	None	Immediately following filing	Filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code by or against: the licensee; an entity controlling the licensee or listing the license or licensee as property of the estate; or an affiliate of the licensee – for all specific licensees and RH-402.a. general licensees required to register by RH-402.c.13.
	410.d. [30.36(d)]	None	60 days of the occurrence	License has expired pursuant to RH-410.a. or b.; or Licensee has decided to permanently cease principal activities at the entire site or in any separate building or outdoor area that contains residual radioactivity such that the building or outdoor area is unsuitable for release in accordance with Department requirements; or No principal activities under the license have been conducted for a period of 24 months; or No principal activities have been conducted for a period of 24 months in any separate building or outdoor area that contains residual radioactivity such that the building or outdoor area is unsuitable for release in accordance with Department requirements.
	601.a. [30.50(a)]	Immediate (ASAP but not later than 4 hours after discovery)	30 days following telephone report (601.c.2.)	Events that prevent immediate protective actions necessary to avoid exposures to radiation or radioactive materials, or releases of radioactive material, that could exceed regulatory limits.

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	601.b.1. [30.50(b)(1)]	24 hours	30 days following initial report (601.c.2.)	Events involving unplanned contamination. (See paragraphs b.1.A.-C. for conditions that apply.)
	601.b.2. [30.50(b)(2)]	24 hours	30 days following initial report (601.c.2.)	Events in which equipment is disabled or fails to function as designed. (See paragraphs b.2.A.-C. for conditions that apply.)
	601.b.3. [30.50(b)(3)]	24 hours	30 days following initial report (601.c.2.)	Events requiring unplanned medical treatment at a medical facility of an individual with spreadable radioactive contamination on the individual's clothing or body.
	601.b.4. [30.50(b)(4)]	24 hours	30 days following initial report (601.c.2.)	Events involving unplanned fire or explosion damaging any licensed material or any device, container, or equipment containing licensed material. (See paragraphs b.4.A. and B. for conditions that apply.)
Part D of Section 2, RH-402., General Licenses – Radioactive Material Other Than Source Material	402.c.5. [31.5(c)(5)]	None	30 days	NOTE: For all Part D general licenses, reporting requirements are specific to each type of general license. Failure of, or damage to, or any indication of a possible failure of or damage to, the device's shielding for the radioactive material or the on-off mechanism or indicator, or detection of 185 Bq (0.005 microcurie) or more of removable radioactive material – for RH-402.a. generally licensed devices. (See also RH-601. and any other reporting requirements that would apply.)
	402.c.8. [31.5(c)(8)]	None	30 days after transfer	Transfers or disposals of RH-402.a. generally licensed devices to specific licensees.

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	402.c.9. [31.5(c)(9)]	None	30 days after transfer	Transfers of RH-402.a. generally licensed devices to another general licensee – allowed only if the device remains in use at a particular location or the device is held in storage by an intermediate person in the original shipping container at its intended location of use prior to initial use by a general licensee.
	402.c.14. [31.5(c)(14)]	None	30 days of effective date of the change	Changes to the mailing address for the location of use (including change in name of general licensee) for RH-402.a. generally licensed devices. For a portable device, a report of address change is only required for a change in the device's primary place of storage.
	402.c.15. [31.5(c)(15)]	None	30 days prior to end of 24 months of nonuse	Submission of plan for future use of RH-402.a. generally licensed devices kept in standby, for Department review. If approved, 24 month time limit for devices kept in standby would not apply. (See paragraph c.15. for other requirements.)
Section 3, Standards for Protection Against Radiation	1307.e. [20.1906(d)]	Immediate (Department and <i>final delivery carrier</i>)	Immediate by telegram, mailgram or fascimile	Package received with removable radioactive surface contamination exceeding limits stated in paragraph e.1. or external radiation levels exceeding limits stated in paragraph e.2.
	1501.a.1.A. [20.2201(a)(1)(i)]	Immediate	30 days after telephone notification (1501.b.)	Lost, stolen, or missing licensed material \geq 1000 X Appendix H to Section 3 value under such circumstances that it appears to the licensee that an exposure could result to persons in unrestricted areas.
	1501.a.1.B. [20.2201(a)(1)(ii)]	30 days after occurrence becomes known, if still missing	30 days after telephone notification (1501.b.)	Lost, stolen, or missing licensed material $>$ 10 X Appendix H to Section 3 value, that is still missing 30 days after occurrence becomes known.

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	1501.c. [20.2201(d)]	None	30 days after learning information	Additional substantive information (including the source has been recovered) on the loss or theft, subsequent to filing the written report.
	1502.a.1. [20.2202(a)(1)]	Immediate	30 days of learning of the occurrence (1504.a.1.)	Exposure (real or threatened) \geq TEDE of 25 rem (0.25 Sv), or lens dose equivalent \geq 75 rem (0.75 Sv), or shallow dose equivalent (skin/extremities) \geq 250 rads (2.5 Gy).
	1502.b.1. [20.2202(b)(1)]	24 hours	30 days of learning of the occurrence (1504.a.1.)	Exposure (real or threatened) \geq TEDE of 5 rem (0.05 Sv), or lens dose equivalent \geq 15 rem (.15 Sv), or shallow dose equivalent (skin/extremities) \geq 50 rems (0.5 Sv), in a period of 24 hours.
	1502.a.2. [20.2202(a)(2)]	Immediate	30 days of learning of the occurrence (1504.a.1.)	Release where individual could have intake \geq 5 X ALI over 24 hours.
	1502.b.2. [20.2202(b)(2)]	24 hours	30 days of learning of the occurrence (1504.a.1.)	Release where individual could have intake $>$ 1 X ALI over 24 hours.
	1503. [20.2204]	None	30 days following the PSE	Conducting of a planned special exposure in accordance with RH-1205.
	1504.a. [20.2203(a)]	None	30 days of learning of the occurrence	Radiation doses, levels, and concentrations of radioactive material and releases exceeding constraints or limits.

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	RH- [10 CFR]	Telephone Notification	Written Notification	Summary of Reporting Requirement
	1505.b. [20.2205]	None	30 days to the <i>individual</i>	Exposure of an identified occupationally exposed individual, or an identified member of the public, where notification of the Department was required pursuant to RH-1503. or RH-1504. – report on his/her exposure data to the individual.
	1508.	None	5 days of test exceeding threshold	Test for leakage and/or contamination reveals the presence of 0.005 microcuries (185 Bq) or more of removable contamination.
	1509.b. [20.2206(b)]	None	Retain annual report of results but only submit if requested by the Department	Results of individual monitoring carried out by industrial radiography licensees pursuant to Part I of Section 3 or licensees who possess or use at any time, for processing or manufacturing for distribution pursuant to Section 2 or 9, radioactive material in quantities exceeding “Table to RH-1509.a.2.” values.
Part I of Section 3, Licenses for Industrial Radiography and Radiation Safety Requirements for Industrial Radiographic Operations	1801.f.4. [34.27(d)]	None	5 days of test exceeding threshold	Tests for leakage and/or contamination are ≥ 0.005 microcurie (185 Bq).
	1801.f.5. [34.27(e)]	None	5 days of test exceeding threshold	Depleted uranium contamination test results ≥ 0.005 microcurie (185 Bq) for exposure devices using DU shielding and an “S” tube configuration.
	1801.k. [34.101(a)]	None	30 days of the occurrence	Radiography source disconnection, inability to retract source, or component failure (critical to safe operation of device). (See also RH-601. and any other reporting requirements that would apply.)
	1801.k.3. [34.101(c)]	Telephone or written prior to exceeding 180 days	Telephone or written prior to exceeding 180 days	Conducting radiographic operations or storing radioactive material at any location not listed on the license for a period in excess of 180 days in a calendar year.

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	RH- [10 CFR]	Telephone Notification	Written Notification	Summary of Reporting Requirement
Part J of Section 3, Licenses and Radiation Safety Requirements for Wireline Service Operations and Subsurface Tracer Studies	1935.d.2. [39.35(d)(2)]	None	5 days of receiving the results	Leak testing reveals the presence of 0.005 microcuries (185 Bq) or more of removable radioactive material.
	1977.a. [39.77(a)]	Immediate	30 days, subsequent to telephone notification	Rupture of sealed source – known or licensee has reason to believe.
	1977.b. [39.77(b)]	As required by RH-601., 1501., 1502., and 1504.	As required by RH-601., 1501., 1502., and 1504.	Theft or loss of radioactive materials, radiation overexposures, excessive levels and concentrations of radiation, and certain other accidents as required by RH-601., RH-1501., RH-1502., and RH-1504..
	1977.c. [39.77(c)]	When becomes apparent that efforts won't be successful or abandonment implemented already due to immediate threat	30 days after source has been classified as irretrievable (1977.d.)	Sealed source becomes lodged in a well.
	1977.c.3. [39.77(c)(3)]	Telephone or written 30 days after source has been classified as irretrievable	Telephone or written 30 days after source has been classified as irretrievable	Requests for an extension of time if unable to complete abandonment procedures within the 30 day timeframe.

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	RH- [10 CFR]	Telephone Notification	Written Notification	Summary of Reporting Requirement
Section 4, Transportation of Radioactive Materials	3508. [71.95]	None	60 days of the event or discovery of the event	Any instance in which there is a significant reduction in the effectiveness of any packaging during use; details of any defects with safety significance in any packaging, after first use; or any instance in which the conditions of approval in the Certificate of Compliance were not observed in making a shipment.
	49 CFR 171.15(a)	As soon as practical but no later than 12 hours after the incident, to <i>DOT's National Response Center</i>	30 days after discovery of the incident – 49 CFR 171.16	<p>RH-3005. [71.5] provides that licensees shall comply with the applicable requirements of the U.S. Department of Transportation regulations in 49 CFR. (Common carriers are exempt from AR/NRC licensing though are subject to DOT requirements.)</p> <p>49 CFR 171.15(b)(1) describes “reportable incidents” requiring reporting pursuant to paragraph (a). Notifications are required whenever any of the following occurs during the course of transportation in commerce (including loading, unloading, and temporary storage): as a direct result of a hazardous material (includes radioactive material) – a person is killed or receives an injury requiring admittance to a hospital, the general public is evacuated for one hour or more, a major transportation artery or facility is closed or shut down for one hour or more, or the operational flight pattern or routine of an aircraft is altered.</p> <p>49 CFR 171.15(b)(2) delineates other “reportable incidents” requiring reporting pursuant to paragraph (a) including occurrences of fire, breakage, spillage, or suspected radioactive contamination involving a radioactive material.</p>
Section 8, Licenses and Radiation Safety Requirements for Irradiators	7083.a. [36.83(a)]	24 hours (601.c.1.)	30 days following initial report (601.c.2.)	Stuck sources, fire/explosions, damage to source racks, cable or drive mechanism failure, access control system inoperability, detection of radiation source by the product exit monitor, contamination from licensed material, structural damage to the pool liner or walls, abnormal water loss or leakage from the source storage pool, and pool water conductivity exceeding 100 microsiemens per centimeter – if not reported under other Department reporting requirements. (See paragraph a.)

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	RH- [10 CFR]	Telephone Notification	Written Notification	Summary of Reporting Requirement
Section 9, Use of Radionuclides in the Healing Arts	8020.a. [35.14(a)]	None	30 days after date licensee permits individual to work	Permitting individuals to work as an authorized user, an authorized nuclear pharmacist, or an authorized medical physicist, under RH-8011.b.
	8020.b.1. [35.14(b)(1)]	None	30 days after the change	An authorized user, an authorized nuclear pharmacist, a Radiation Safety Officer, or an authorized medical physicist permanently discontinues performance of duties under the license or has a name change.
	8020.b.2. [35.14(b)(3)]	None	30 days after the change	Licensee's mailing address changes.
	8020.b.4. [35.14(b)(4)]	None	30 days after the change	Licensee's name changes, but the name change does not constitute a transfer of control of the license as described in RH-409.b.
	8800.c. [35.3045(c)]	Next calendar day after discovery of the mis- administration	15 days after discovery of the mis- administration (8800.d.)	Events in which the administration of radioactive material or radiation from radioactive material result in doses described in paragraph a., other than events that result from intervention by a patient or human research subject. (See paragraph a.) Notifications to the <i>referring physician</i> and the <i>individual</i> who is the subject of the misadministration must be made in accordance with paragraph e.
	8800.c. [35.3045(c)]	Next calendar day after discovery of the mis- administration	15 days after discovery of the mis- administration (8800.d.)	Events resulting from intervention of a patient or human research subject in which the administration of radioactive material or radiation from radioactive material results, or will result in, unintended permanent functional damage to an organ or physiological system, as determined by a physician. (See paragraph b.) Notifications to the <i>referring physician</i> and the <i>individual</i> who is the subject of the misadministration must be made in accordance with paragraph e.

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	RH- [10 CFR]	Telephone Notification	Written Notification	Summary of Reporting Requirement
	8801.c. [35.3047(c)]	Next calendar day after discovery	15 days after discovery (8801.d.)	Dose to an embryo/fetus that is > 5 millisievert (500 mrem) dose equivalent that is a result of an administration of radioactive material or radiation from radioactive material to a pregnant individual unless the dose to the embryo/fetus was specifically approved, in advance, by the authorized user. (See paragraph a.) Notifications to the <i>referring physician</i> and the <i>pregnant individual</i> must be made in accordance with paragraph e.
	8801.c. [35.3047(c)]	Next calendar day after discovery	15 days after discovery (8801.d.)	Dose to a nursing child, that was not specifically approved, in advance, by the authorized user, that is a result of an administration of radioactive material to a breast-feeding individual that is > 5 millisievert (500 mrem) TEDE or has resulted in unintended permanent functional damage to an organ or a physiological system of the child, as determined by a physician. (See paragraph b.) Notifications to the <i>referring physician</i> and the <i>mother</i> must be made in accordance with paragraph e.
	8802. [35.3067]	None	5 days of receiving the results	Leakage test reveals the presence of 185 Bq (0.005 microcurie) or more of removable contamination.
Section 12, Physical Protection of Category 1 and 2 Quantities of Radioactive Material	11041.a.3. [37.41(a)(3)]	None	90 days prior to aggregating as indicated	Determination that any licensee that has not previously implemented the security requirements (i.e., license conditions put in place by the Department to implement interim security measures) or been subject to the provisions of Part C to Section 12 will aggregate radioactive material to a quantity that equals or exceeds the category 2 threshold.
	11045.b. [37.45(b)]	None	3 business days	Coordination with local law enforcement agency (LLEA) has failed, either because the LLEA has not responded to the request for coordination within 60 days of the coordination request or because the LLEA does not plan to participate in coordination activities.

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	RH- [10 CFR]	Telephone Notification	Written Notification	Summary of Reporting Requirement
	11057.a. [37.57(a)]	ASAP (but not at the expense of causing delay or interfering with the LLEA response), but no later than 4 hours after discovery	30 days of telephone notification (11057.c.)	Determination that an unauthorized entry resulted in an actual or attempted theft, sabotage, or diversion of a category 1 or category 2 quantity of radioactive material. First, <i>LLEA</i> must be immediately notified, then the Department.
	11057.b. [37.57(b)]	ASAP, but no later than 4 hours after notifying the <i>LLEA</i>	None	Assessment of any suspicious activity related to possible theft, sabotage, or diversion of category 1 or category 2 quantities of radioactive material. The <i>LLEA</i> is to be notified "as appropriate." If it is not appropriate to notify the <i>LLEA</i> , then Department notification is not required.
	11081.a. [37.81(a)]	Within 1 hour of shipping licensee's determination, notify Department and <i>LLEA</i>	30 days of telephone notification (11081.g.)	Determination that a shipment of category 1 quantities of radioactive material is lost or missing in transport. Also, the shipping licensee will provide agreed upon updates to the Department on the status of the investigation.

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	11081.b. [37.81(b)]	Within 4 hours of shipping licensee's determination and after 24 hours of the determination if the material has not been located and secured	30 days of telephone notification (11081.g.)	Determination that a shipment of category 2 quantities of radioactive material is lost or missing in transport.
	11081.c. [37.81(c)]	ASAP after notifying LLEA	30 days of telephone notification; except no written report required for suspicious activities (11081.g.)	Discovery of any actual or attempted theft or diversion of a shipment or suspicious activities related to the theft or diversion of a shipment of a category 1 quantity of radioactive material in transport. First, designated <i>LLEA</i> along the shipment route must be notified ASAP upon discovery, and then the Department must be notified.
	11081.d. [37.81(d)]	ASAP upon discovery	30 days of telephone notification; except no written report required for suspicious activities (11081.g.)	Discovery of any actual or attempted theft or diversion of a shipment, or any suspicious activity related to the shipment, of a category 2 quantity of radioactive material in transport.

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	11081.e. [37.81(e)]	ASAP, notify the Department and <i>LLEA</i>	None	Recovery of any lost or missing category 1 quantities of radioactive material.
	11081.f. [37.81(f)]	ASAP	None	Recovery of any lost or missing category 2 quantities of radioactive material.
	11081.h. [37.81(h)]	None	30 days after licensee learns of information	Additional substantive information on the events described in paragraphs a. through d., subsequent to filing the written report required by paragraph g.