

TITLE 32: ENERGY
CHAPTER II: ILLINOIS EMERGENCY MANAGEMENT AGENCY
SUBCHAPTER d: LOW LEVEL RADIOACTIVE WASTE/TRANSPORTATION

PART 609
ACCESS TO FACILITIES FOR TREATMENT, STORAGE,
OR DISPOSAL OF LOW-LEVEL RADIOACTIVE WASTE

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AUTHORITY: Implementing and authorized by Sections 8 and 9 of the Illinois Low-Level Radioactive Waste Management Act [420 ILCS 20/8 and 9], the Radioactive Waste Tracking and Permitting Act [420 ILCS 37], the Central Midwest Low-Level Radioactive Waste Compact Act [45 ILCS 140], the Radioactive Waste Compact Enforcement Act [45 ILCS 141] and the federal Low-Level Radioactive Waste Policy Amendments Act of 1985 (P.L. 99-240).

SOURCE: Adopted at 20 Ill. Reg. 13944, effective October 11, 1996; amended at 24 Ill. Reg. 18191, effective December 1, 2000; recodified from the Department of Nuclear Safety to the Illinois Emergency Management Agency at 27 Ill. Reg. 13641; amended at 38 Ill. Reg. 12088, effective May 29, 2014.

Section 609.10 Purpose and Applicability

- a) This Part establishes one of the systems for the regulation of the use of facilities in the State of Illinois to:
 - 1) Collect, store, treat or dispose of low-level radioactive waste;
 - 2) Maintain a data base as to the location of all such waste in the State of Illinois; and

- 3) Implement some of the requirements, prohibitions and mandates of the Compact, the Radioactive Waste Compact Enforcement Act [45 ILCS 141], the Radioactive Waste Tracking and Permitting Act [420 ILCS 37] and the Illinois Low-Level Radioactive Waste Management Act [420 ILCS 20].
- b) This Part establishes a system for monitoring and tracking shipments of low-level radioactive waste into, out of or within the State of Illinois for the purpose of tracking the points of origin of the shipments, as transported to the places of destination of the shipments.
- c) This Part establishes an enforcement and verification system directed to the movements of low-level radioactive waste into, out of or within the State of Illinois.
- d) This Part applies to any generator, broker, owner or operator of any treatment or disposal facility, or to any person who sends low-level radioactive waste into, within or out of the State of Illinois.
- e) This Part does not apply to:
 - 1) Shipments of low-level radioactive waste that are sent or transported through the State of Illinois but do not originate in the State of Illinois and are not accepted for treatment, storage, collection or disposal at a location in the State of Illinois;
 - 2) Naturally occurring radioactive materials, unless required to be licensed by the Agency;
 - 3) Radioactive materials exempt from licensing by the Agency based upon regulatory or statutory determinations; and
 - 4) Radioactive materials authorized for disposal under 32 Ill. Adm. Code 340.1030 and 340.1050.
- f) This Part does not relieve any person from compliance with any other state, Commission or Federal requirements, including transport or licensing requirements, pertaining to the packaging, transportation, disposal, storage or delivery of low-level radioactive materials or wastes.
- g) This Part does not relieve any person from compliance with any order, directive or rule of the Central Midwest Interstate Low-Level Radioactive Waste

Commission, pursuant to its authority under the provisions of the Central Midwest Radioactive Waste Compact Act [45 ILCS 140].

(Source: Amended at 38 Ill. Reg. 12088, effective May 29, 2014)

Section 609.20 Definitions

Except when otherwise indicated, or when the context clearly requires a different definition, the following terms shall have the following meanings for purposes of this Part.

"Acceptance" means taking possession of waste. Waste is not "accepted" for purposes of this Part if it is delivered to a facility, and the owner or operator of the facility refuses to take possession and promptly so informs both the person sending the waste and the Agency of the refusal.

"Agency" means the Illinois Emergency Management Agency.

"Broker" means any person who takes possession of low-level radioactive waste for purposes of consolidation and shipment. [420 ILCS 20/3]

"Carrier" means a person who transports low-level radioactive waste into, out of or within the State of Illinois.

"Commission" means the Central Midwest Interstate Low-Level Radioactive Waste Commission.

"Compact" means the Central Midwest Interstate Low-Level Radioactive Waste Compact.

"Consolidated Waste" means waste from more than one generator that has been consolidated into a single shipment of waste. However, separate containers of waste would not be classified as "consolidated waste".

"Dispose" or "Disposal" means the isolation of waste from the biosphere in a permanent facility designed for that purpose. [45 ILCS 141/15]

"Electronic Data Transmission" or "EDT" means files that are comprised of a variety of record types, which are used based on the type and source of the shipment of low-level radioactive waste (original shipment versus a consolidated shipment, in or out-of-state shipment, etc.). These files are ASCII files with comma delimited records.

"Facility" means a parcel of land or site, together with the structures, equipment

and improvements on or appurtenant to the land or site, that is used or is being developed by the owners or operators for the generation, collection, treatment, storage or disposal of low-level radioactive waste. [45 ILCS 141/15]

"Generator" means any person who produces or possesses low-level radioactive waste in the course of or incident to manufacturing, power generation, processing, medical diagnosis and treatment, research, education or other activity. [420 ILCS 20/3]

"Low-Level Radioactive Waste" or "LLRW" or "Waste" means radioactive waste not classified as:

high-level radioactive waste,

transuranic waste,

spent nuclear fuel, or

by-product material as defined in Section 11e(2) of the Atomic Energy Act (42 USC 2021).

This definition shall apply notwithstanding any declaration by the federal government or any state that any radioactive material is exempt from any regulatory control. [45 ILCS 141/15]

"Permit" means the license authority issued by the Agency upon application which authorizes the person identified by that number to either send waste to a facility for treatment, storage, consolidation or disposal or to receive waste at a facility for treatment, storage, consolidation or disposal.

"Person" means any individual, corporation, business enterprise or other legal entity, public or private and any legal successor, representative, agent or agency of that individual, corporation, business enterprise or legal entity. [45 ILCS 141/15]

"Region" means the geographical area of the State of Illinois and the Commonwealth of Kentucky. [45 ILCS 141/15]

"Regional Facility" means any facility as defined in the Radioactive Waste Compact Enforcement Act that is located in Illinois and established by Illinois pursuant to designation of Illinois as a host state by the Commission.

"Shipper" means a person, whether located within or outside of the Region that

offers waste for transportation into, within or out of the State of Illinois.

"Storage" means the temporary holding of radioactive material for treatment or disposal. [45 ILCS 141/15]

"Transaction Reference Number" means a number issued by the Agency under this Part that acknowledges the shipper's submittal of, and the Agency's acceptance as complete of, shipment specific information required under this Part.

"Transport" means the movement of waste into, within or out of the State of Illinois.

"Treatment" means any method, technique or process, including storage for radioactive decay, designed to change the physical, chemical, or biological characteristics of the radioactive material in order to render the radioactive material safe for transport or management, amenable to recovery, convertible to another usable material, or reduced in volume. [45 ILCS 141/15]

(Source: Amended at 38 Ill. Reg. 12088, effective May 29, 2014)

Section 609.30 Prohibited Activities

- a) Unless the shipment of the waste is authorized by the Central Midwest Interstate Low-Level Radioactive Waste Commission, no person shall:
 - 1) Send waste from any point located outside of the State of Illinois to any facility located within the State of Illinois, regardless of its origin.
 - 2) Accept at any facility in the State of Illinois any waste from outside the Region, regardless of origin.
 - 3) Deposit at any Regional Facility in the State of Illinois any waste that is owned or generated by the United States Department of Energy, owned or generated by the United States Navy as a result of decommissioning of vessels of the United States Navy, or owned or generated as the result of any research, development, testing or production of any atomic weapon.
 - 4) Accept at any Regional Facility in the State of Illinois any waste that is owned or generated by the United States Department of Energy, owned or generated by the United States Navy as a result of decommissioning of vessels of the United States Navy, or owned or generated as the result of any research, development, testing or production of any atomic weapon.

- 5) Send any waste from the State of Illinois outside the State of Illinois, other than waste that is owned or generated by the United States Department of Energy, owned or generated by the United States Navy as a result of decommissioning of vessels of the United States Navy, or owned or generated as the result of any research, development, testing or production of any atomic weapon.
 - 6) Dispose of any waste in the State of Illinois other than at a regional disposal facility.
- b) No person shall send to any facility in Illinois or accept at any facility in Illinois any waste that has as its place of origin the disposal facility located at Maxey Flats, Kentucky.
 - c) No generator, broker, facility or other person shall send any waste into, out of or within the State of Illinois or accept any waste without complying with the requirements of this Part, including all Agency notification requirements.

(Source: Amended at 38 Ill. Reg. 12088, effective May 29, 2014)

Section 609.40 Permit Requirements and Application Procedures

Each person who ships waste into, out of or within the State of Illinois or accepts waste shall apply to the Agency for a Permit.

- a) A person applying for a Permit shall submit the application to the Illinois Emergency Management Agency, 1035 Outer Park Drive, Springfield, Illinois 62704. The person shall provide to the Agency at the time of the application the following information in writing, on paper bearing the name, current address and current telephone number of the person making the application and signed in ink by a person authorized to make the application:
 - 1) The name of a contact person for the applicant and the current address and phone number of that contact person if different from that of the applicant.
 - 2) The radioactive materials license number currently issued to the applicant and the name of the entity issuing the license.
 - 3) The name and location of the applicant's facility that would be recorded under any assigned Permit.
- b) A person shall be eligible to receive a Permit only if the person is:

- 1) A generator or broker registered by the Agency under Section 4 of the Low-Level Radioactive Waste Management Act;
 - 2) A facility licensed by the Agency under Section 8 of the Low-Level Radioactive Waste Management Act;
 - 3) A generator, broker, treatment facility or other person located outside of the State of Illinois. The out-of-state entity must be a party to an agreement with the Compact that is in effect on the date of the Permit application, or as otherwise authorized by the Commission. The agreement with the Compact must provide that waste from the unaffiliated state or regional compact is currently permitted to be treated, stored or disposed of at a facility in the Region and that the Commission has not revoked the permission granted to that person, state or regional compact allowing these shipments;
 - 4) A generator, broker, treatment facility or other person located outside of the State of Illinois that is allowed to send waste for treatment or storage in Illinois, pursuant to an agreement entered into by the Commission;
 - 5) A generator, broker, treatment facility or other person located outside of the State of Illinois that is allowed to send waste for disposal in Illinois, pursuant to an agreement entered into by the Commission and approved by law in Illinois;
 - 6) A generator, broker, treatment facility or other person located in the Commonwealth of Kentucky; or
 - 7) A generator that is an agency of the United States government that is located in the Region.
- c) A generator applying for a Permit must certify to the Agency in the written application for the Permit that it will make lawful and suitable arrangements for the final disposition of the waste, or that it will retrieve and reclaim physical possession of such waste in the event final disposition or storage has not been arranged.
- d) Within 14 calendar days from the receipt by the Agency of the application, the Agency will issue, in writing, a Permit to an eligible applicant whose application complies with all of the relevant requirements of this Section. Denial by the Agency of any application within this same time period shall also be in writing, citing the reason for the action.

(Source: Amended at 38 Ill. Reg. 12088, effective May 29, 2014)

Section 609.50 Waste Shipment Tracking Process

- a) Each person sending a shipment of waste into, within or out of the State of Illinois shall provide the Agency with an EDT file formatted and containing the information prescribed in Appendix A at the time of the shipment. All EDT file submittals shall be made in a manner that allows the Agency to incorporate the transmission into the Agency's electronic data base. Waste brokers may provide the EDT file on behalf of the generator.
- b) All in-state receiving facilities that store waste for decay in storage shall report to the Agency the placement of waste into decay in storage according to the procedures outlined in Appendix A. The receiving facilities shall also report to the Agency when the containers are removed from the decay in storage inventory utilizing the procedures identified in Appendix A.
- c) All in-state receiving facilities that process waste in a manner that no waste, either direct or residual, is attributable back to the shipper shall report those affected containers according to the procedures identified in Appendix A.
- d) Each person needing to correct information previously provided to the Agency pursuant to this Section shall provide those corrections to the Agency in writing addressed to the Supervisor, Low-Level Radioactive Waste Management and Decommissioning Unit, Illinois Emergency Management Agency, 1035 Outer Park Drive, Springfield, Illinois 62704 or at ema.LLRWTRACK@illinois.gov.

(Source: Amended at 38 Ill. Reg. 12088, effective May 29, 2014)

Section 609.60 Standards for Issuance of Transaction Reference Number

- a) Based upon transmitted information required by Section 609.50, the Agency shall issue a Transaction Reference Number upon determining that the:
 - 1) Applicant has complied with the requirements of this Part;
 - 2) Activity undertaken is not prohibited by any provision of the Compact, the Radioactive Waste Compact Enforcement Act or this Part;
 - 3) Activity has received approval from the Commission, if so required under the provisions of the Compact; and
 - 4) Information reporting requirements of this Part have been met.

- b) The Agency shall issue the Transaction Reference Number to the shipper within 7 days after the receipt of information.

(Source: Amended at 38 Ill. Reg. 12088, effective May 29, 2014)

**Section 609.65 Transaction Reference Number and Waste Shipment Tracking Process
(Repealed)**

(Source: Repealed at 24 Ill. Reg. 18191, effective December 1, 2000)

Section 609.70 Suspension, Revocation or Voluntary Termination of Permits

- a) The Agency may revoke or suspend any Permit issued under this Part, for any reason, including but not limited to any of the following conditions:
 - 1) The individual to whom the Permit was issued is determined by the Agency to no longer be alive or to have been adjudged legally incompetent.
 - 2) The person to whom the Permit was issued, if other than an individual, is determined by the Agency to no longer be legally in existence.
 - 3) Any person eligible for a Permit pursuant to Section 609.40(b)(1) is no longer registered by the Agency under Section 4 of the Low-Level Radioactive Waste Management Act.
 - 4) Any person eligible for a Permit pursuant to Section 609.40(b)(2) is no longer licensed by the Agency under Section 8 of the Low-Level Radioactive Waste Management Act.
 - 5) The person is no longer eligible for a permit under Section 609.40(b)(3), (4) or (5).
 - 6) Falsification of any information in an application for a Permit.
 - 7) Failure to notify the Agency of any change in the information previously provided to the Agency in an application for a Permit.
 - 8) If the Commission has revoked the permission granted to such person under any compact region or unaffiliated state agreements to treat, store or dispose of waste at a facility in the Region.

- 9) For any violation of the Radioactive Waste Compact Enforcement Act or for violation of any condition imposed by any approval or interstate agreement of the Commission.
- b) The Agency shall notify the Commission of any suspension, emergency suspension or revocation of a Permit. In addition, all alleged violations that could affect the retention, classification or validity of a Permit shall be reported to the Commission by the Agency. The notification shall be in writing, on a quarterly basis, including all reported and alleged violations, as well as the particular instances in which the Agency concluded that official action under this Part was either not merited or not necessary.
- c) Any pending action by the Agency to suspend or revoke a Permit shall be initiated by written notice to the Permit holder or applicant, specifying the reasons for that action and the right to a hearing on the determination of the Agency, pursuant to the terms of the Illinois Administrative Procedure Act [5 ILCS 100/Art. 10]. No suspension or revocation shall take effect prior to the issuance of a final order from the administrative hearing proceeding, except as outlined in subsection (d).
- d) The Agency may also issue a preliminary Summary Suspension Order against any person holding a particular Permit who is also subject to a pending administrative hearing that could result in the revocation or suspension of the same Permit, provided that:
 - 1) The Agency finds that the public interest, safety or welfare requires immediate action; and
 - 2) Specific, factual reasons for the emergency action are also included in the Agency's written "Notice of Hearing", advising the Permit holder of the pending administrative proceeding.

AGENCY NOTE: Any subsequent hearing proceedings shall be promptly instituted and determined.

- e) A party to whom a Permit has been issued may voluntarily terminate the Permit by mailing to the Agency written notice that the particular authorization is being voluntarily terminated. The termination shall be effective upon receipt by the Agency of the notice. The notice shall set forth the name and address of the person to whom the Permit was issued.
- f) No person shall voluntarily terminate a Permit if the person to whom the Permit has been issued has offered a shipment of waste for transportation into, within or out of the State of Illinois and that shipment of waste has not either been returned

to the shipper or been accepted at a facility properly authorized to dispose of that shipment of waste.

(Source: Amended at 38 Ill. Reg. 12088, effective May 29, 2014)

Section 609.80 Penalties

- a) The Agency may impose a civil penalty on any person who sends, receives or accepts waste in violation of any provision of this Part or the Radioactive Waste Compact Enforcement Act.
- b) Civil penalties imposed under this Part shall not exceed \$100,000 per occurrence. For a continuing violation, the Agency may consider each day in which the violation continues as a separate occurrence.
- c) In determining the amount of a civil penalty imposed under this Part, the Agency will consider the following:
 - 1) Whether the violation was the result of willful, reckless or negligent conduct.
 - 2) The previous history of compliance with the provisions of the Radioactive Waste Compact Enforcement Act and this Part.
 - 3) Whether the violation was voluntarily reported to the Agency.
 - 4) The amount and type of the radioactive material involved.
 - 5) Whether mitigative actions were taken.
 - 6) The recommendations, if any, of the Commission.
- d) The Agency will notify the Commission when it initiates a civil penalty action and request the Commission's recommendations, if any, as to the civil penalty the Agency seeks to impose. The Agency shall also notify the Commission of any imposition of a civil penalty by the Agency.
- e) Imposition of a civil penalty shall be by written order, specifying the reasons for and amount of the penalty. The order shall include a notice of the right to an administrative appeal and hearing, in accordance with the provisions of Section 609.100. The order shall be served either personally or by registered or certified mail. Notice of the order shall be effective as of the date of personal service or receipt of the mailed notice.

- f) Unless the right of administrative appeal and hearing, provided in Section 609.100, is exercised, any civil penalty imposed shall be payable within 60 days after the effective date of notice of imposition of the penalty.
- g) The Agency will inform the Attorney General and the Commission of any failure to pay any civil penalty imposed under this Part. Any person who refuses to pay a civil penalty assessed under this Part shall be liable in an amount not to exceed 4 times the amount of the penalty not paid.
- h) Section 30(d) of the Radioactive Waste Compact Enforcement Act provides a criminal penalty for any person who intentionally violates Section 20(a)(1), (a)(2), (a)(3), (a)(4) or (a)(6) of that Act. If the Agency becomes aware of a possible intentional violation of those Sections of the Act, the Agency shall make a report to the Attorney General or State's Attorney for criminal prosecution of the offender.

(Source: Amended at 38 Ill. Reg. 12088, effective May 29, 2014)

Section 609.90 Exemptions

- a) Any person may apply to the Agency for an exemption from the requirements of this Part.
- b) A request for an exemption shall be in writing and shall state with particularity the reasons why granting an exemption would be consistent with the provisions of this Part and the Compact. A copy of the request shall be filed with the Commission.
- c) Exemptions shall only be granted by the Agency upon an express finding by the Agency that granting the exemption would be consistent with the provisions of this Part and the Compact. In making those determinations, the Agency shall consider the recommendations, if any, of the Commission.
- d) Exemptions granted under this Part may be limited in scope or duration, or may be conditional, providing that the limits or conditions are consistent with the Compact.
- e) Any exemption granted under this Part shall not be in conflict with any provision of the Illinois Low-Level Radioactive Waste Management Act, the Radioactive Waste Tracking and Permitting Act, the Central Midwest Interstate Low-Level Radioactive Waste Compact Act, the Radioactive Waste Compact Enforcement Act, or the federal Low-Level Radioactive Waste Policy Amendment Act of 1985

(42 USC 2021b et seq.).

- f) The Agency shall provide the Commission with written notice of any exemption granted pursuant to this Part.

(Source: Amended at 38 Ill. Reg. 12088, effective May 29, 2014)

Section 609.100 Administrative Appeal and Hearing

- a) Any person may petition the Agency for reconsideration of any:
 - 1) Denial by the Agency to issue a Permit to that person;
 - 2) Summary suspension of a Permit issued to that person; or
 - 3) Civil penalty imposed on that person.
- b) The petition shall be made in writing, shall be directed to the Chief, Bureau of Radiation Safety, Illinois Emergency Management Agency, 1035 Outer Park Drive, Springfield, Illinois, 62704, and shall state concisely and with particularity the reasons for the petition. The Agency shall provide a copy of the petition to the Commission.
- c) Any person petitioning the Agency for reconsideration has the right to a hearing before the Agency. The request for a hearing shall be filed with the petition. Petitions shall be filed within 30 calendar days after notice of the:
 - 1) Denial of a Permit;
 - 2) Summary suspension of a Permit; or
 - 3) Imposition of a civil penalty.
- d) Failure of a petitioner to comply with the requirements of this Part with respect to petitions for reconsideration or requests for a hearing shall be grounds for denial of the petitioner's request.
- e) All hearings under this Part, as well as administrative hearings ordered by the Agency that could result in the revocation or suspension of a previously issued Permit to a person, shall be governed by the procedures set forth in the Illinois Administrative Procedure Act [5 ILCS 100/Art. 10] and in 32 Ill. Adm. Code 200. The Agency shall provide notice of these hearings to the Commission.

(Source: Amended at 38 Ill. Reg. 12088, effective May 29, 2014)

Section 609.APPENDIX A Electronic Data Transmission

Any person required under Section 609.50(b), (c), (d) or (e) to report shipment information to the Agency shall prepare an Electronic Data Transmission (EDT) file for submittal to the Agency. This EDT file contains the pertinent information regarding the shipment in general (consignee, consignor, etc.) and the waste in detail (waste type, volume, activity, isotopes, etc.). The files shall be submitted to the Agency in electronic format via email to the address ema.LLRWTRACK@illinois.gov.

A) EDT FILE RECORD TYPE DESCRIPTION

- a) The information regarding the shipment of low-level radioactive waste (LLRW) contained in the EDT file is provided using the five different types of records. Each record type focuses on a specific aspect of the shipment. The record types are as follows:
 - 1) The "M" (Manifest) record contains the summary information about the waste shipment. This information is summary level information that is normally contained on the shipping papers prepared to accompany the shipment.
 - 2) The "C" (Container) record contains information about the waste container. This information details for each container comprised in the shipment the contents of that container.
 - 3) The "W" (Waste Type) record contains information about the waste types in the container. Detailed information regarding the waste form contained in each container is provided using the "W" record.
 - 4) The "I" (Isotope) record contains information about the isotopes contained in each waste type in each container. Each specific isotope contained in each waste type reported in each container is identified, along with the associated activity information.
 - 5) The "P" (Pointer) record contains cross-reference information about each original container that has been consolidated into the current container. This record is used by a broker or processor to identify which original containers are currently packaged in a consolidated container. The use of the "P" record prevent the unnecessary report of information already contained in the Agency

data base.

- b) The record types described in paragraph (A)(a) of this Appendix are further subdivided based on the specific reporting requirements for the various shipment scenarios. These specific record types include:
- 1) **"M01"** – This record type indicates that the record contains summary information about an original LLRW shipment. This record type shall always be followed by one or more container ("C05") records.
 - 2) **"M02"** – This record type indicates that the record contains summary information about a consolidated LLRW shipment. This record type shall always be used when all information on the containers being consolidated has already been reported to and verified by the Agency, and shall always be followed by one or more container ("C02") records.
 - 3) **"M03"** – This record type indicates that the record contains summary information about a consolidated LLRW shipment originating out of the State of Illinois. This record type shall always be accompanied by at least one original shipment ("M01") record, and followed by one or more container ("C02") records.
 - 4) **"C02"** – This record type indicates that the record contains information about a specific container in a consolidated LLRW shipment. This record type is used in conjunction with the "M02" record types, and shall always be followed by one or more consolidated container ("P01") records. There shall be one "C02" record for each container in the shipment.
 - 5) **"C04"** – This record type indicates that the record contains information about a container that has been depleted (stored for decay to background, incinerated with no residue attributed to the generator or shipper, or ownership transferred from the generator to the receiving entity). It is not used in conjunction with any other record. There shall be one "C04" record for each depleted container reported.
 - 6) **"C05"** – This record type indicates that the record contains information about a specific container in an original LLRW shipment. This record type is used in conjunction with the "M01" record type, and shall always be followed by one or more waste

type ("W01") records. There shall be one "C05" record for each container in the shipment.

- 7) **"P01"** – This record type indicates that the record contains information about a container that has been consolidated. This record type is used in conjunction with the "C02" record type. There is one "P01" record for each previous container consolidated in the current container.
 - 8) **"W01"** – This record type indicates that the record contains information about a specific waste type within an original container. This record type is used in conjunction with the "C05" record type, and shall always be followed by one or more isotope "I05" records. There is one "W01" record for each waste type in the container.
 - 9) **"I05"** – This record type indicates that the record contains information about a specific isotope within a waste type within an original container. This record type is used in conjunction with the "W01" record type. There shall be one "I05" record for each isotope in each waste type present in the container.
- c) A detailed listing of the data elements that comprise these various record types is shown on Table A-1 of this Part. Table A-2 of this Part provides the data element definitions as well as the field size, type and format, and usage codes.

B) SHIPMENT SCENARIOS AND EDT FILE FORMAT REQUIREMENTS

- a) For purpose of defining the EDT file format requirements, the various transaction scenarios can be combined into the following groupings:
 - 1) Original shipment (both in-state and out-of-state).
 - 2) Consolidated or continuing shipment by an Illinois shipper or a consolidated or continuing shipment of Illinois generated LLRW to a facility in Illinois by an out-of-state shipper.
 - 3) Consolidated or Continuing Shipment by an out-of-state shipper of out-of-state generated LLRW to a facility located in Illinois.
 - 4) Report of depleted containers.

- b) Original shipments are prepared and sent by the generator of the LLRW. Consolidated or continuing shipments are those shipments sent from a broker, collector, processor or storer of LLRW.
- c) The following defines the record type requirements for the shipment scenarios listed in this paragraph B.
 - 1) Original shipment (both in-region and out-of-region)
Each EDT file for an original shipment of LLRW sent into, out of, or within the State of Illinois shall contain a "M01" record. There shall be a "C05" record for each container of LLRW present in the shipment, followed by a "W01" record for each waste type present in the container, followed by an "I05" record for each isotope present in each waste type.
 - 2) Consolidated or continuing shipment by an Illinois shipper or a consolidated or continuing shipment of Illinois generated LLRW to a facility in Illinois by an out-of-state shipper. Each EDT file for a consolidated or continuing shipment of Illinois generated LLRW shall contain a "M02" record. There shall be a "C02" record for each container of consolidated or continuing LLRW present in the shipment, followed by a "P01" record for each previous container present in the consolidated or continuing container.
 - 3) Consolidated or continuing shipment by an out-of-state shipper of out-of-state generated LLRW to a facility located in Illinois:
 - A) Since the Tracking System will have no record of the out-of-state generated LLRW received by an out-of-state facility, the out-of-state facility needs to report those records for the LLRW it ships into Illinois. This is accomplished by providing information comparable to that provided for an original shipment as part of the EDT file for the shipment into Illinois.
 - B) For each incoming shipment of LLRW to the out-of-state facility of out-of-state generated LLRW represented on the shipment to an Illinois facility, there will be a "M01" record followed by a "C05" record for each original container of LLRW present in the shipment, followed by a "W01" record for each waste type present in the container, followed by an "I05" record for each isotope present in

each waste type. For the consolidated or continuing shipment by an out-of-state shipper of out-of-state generated LLRW to an Illinois facility there will be a "M03" record followed by a "C02" record for each container of consolidated or continuing LLRW present in the shipment, followed by a "P01" record for each previous container present in the consolidated or continuing container.

- 4) **Report of Depleted Containers**
 Illinois facilities that deplete LLRW need to report those depleted containers to the Agency in order for that waste to be removed from the tracking system. For purposes of the tracking system, LLRW is depleted when it has been stored for decay, incinerated with no residue attributed back to the original generator, or otherwise had the ownership of the waste transferred (as in the melting of contaminated metal into usable shielding blocks). The facilities report the depleted containers to the Agency using an EDT file composed of one "C04" record for each container depleted.

(Source: Amended at 38 Ill. Reg. 12088, effective May 29, 2014)

Section 609.TABLE A-1 Detailed listing of data elements

TABLE A-1

Record Type "MO1"	Record Type "MO2"	Record Type "MO3"
Record Type (REC_TYPE)	Record Type (REC_TYPE)	Record Type (REC_TYPE)
Manifest Number (MANIF_NUM)	Manifest Number (MANIF_NUM)	Manifest Number (MANIF_NUM)
Consignor's Permit (CNSGNOR_ID)	Consignor's Permit (CNSGNOR_ID)	Consignor's Permit (CNSGNOR_ID)
Consignee's Permit (CNSGNEE_ID)	Consignee's Permit (CNSGNEE_ID)	Consignee's Permit (CNSGNEE_ID)
Total Container Count (TOT_CNTRS)	Total Container Count (TOT_CNTRS)	Total Container Count (TOT_CNTRS)
Total Activity (TOT_ACTVY)	Total Activity (TOT_ACTVY)	Total Activity (TOT_ACTVY)
Activity Unit of measure (ACTVY_MEAS)	Activity Unit of measure (ACTVY_MEAS)	Activity Unit of measure (ACTVY_MEAS)
Total volume (TOT_VOLUME)	Total volume (TOT_VOLUME)	Total volume (TOT_VOLUME)

Volume unit of measure (VOL_MEAS)	Volume unit of measure (VOL_MEAS)	Volume unit of measure (VOL_MEAS)
Total weight (TOT_WEIGHT)	Total weight (TOT_WEIGHT)	Total weight (TOT_WEIGHT)
Actual ship date (ACT_SHIP)	Actual ship date (ACT_SHIP)	Actual ship date (ACT_SHIP)
EPA manifest number (EPA_MANIF)	EPA manifest number (EPA_MANIF)	EPA manifest number (EPA_MANIF)
Total source material weight (TOT_SRC_WT)	Total source material weight (TOT_SRC_WT)	Total source material weight (TOT_SRC_WT)
Total special nuclear material weight (TOT_SNM_WT)	Total special nuclear material weight (TOT_SNM_WT)	Total special nuclear material weight (TOT_SNM_WT)
Total H-3 activity (H3_ACT)	Total H-3 activity (H3_ACT)	Total H-3 activity (H3_ACT)
Total TC-99 activity (TC99_ACT)	Total TC-99 activity (TC99_ACT)	Total TC-99 activity (TC99_ACT)
Total I-129 activity (I129_ACT)	Total I-129 activity (I129_ACT)	Total I-129 activity (I129_ACT)
Total C-14 activity (C14_ACT)	Total C-14 activity (C14_ACT)	Total C-14 activity (C14_ACT)
Exclusive use indicator (EXCLUS_USE)	Exclusive use indicator (EXCLUS_USE)	Exclusive use indicator (EXCLUS_USE)
Carrier Code (CARRIER_CODE)	Carrier Code (CARRIER_CODE)	Carrier Code (CARRIER_CODE)
Carrier Name (CARRIER_NAME)	Carrier Name (CARRIER_NAME)	Carrier Name (CARRIER_NAME)
Carrier Address 1 (CARRIER_ADDR1)	Carrier Address 1 (CARRIER_ADDR1)	Carrier Address 1 (CARRIER_ADDR1)
Carrier Address 2 (CARRIER_ADDR2)	Carrier Address 2 (CARRIER_ADDR2)	Carrier Address 2 (CARRIER_ADDR2)
Carrier City (CARRIER_CITY)	Carrier City (CARRIER_CITY)	Carrier City (CARRIER_CITY)
Carrier State (CARRIER_STATE)	Carrier State (CARRIER_STATE)	Carrier State (CARRIER_STATE)
Carrier Zip (CARRIER_ZIP)	Carrier Zip (CARRIER_ZIP)	Carrier Zip (CARRIER_ZIP)
Carrier Zip4 (CARRIER_ZIP4)	Carrier Zip4 (CARRIER_ZIP4)	Carrier Zip4 (CARRIER_ZIP4)
Carrier Contact (CARRIER_CONTACT)	Carrier Contact (CARRIER_CONTACT)	Carrier Contact (CARRIER_CONTACT)
Carrier Contact Phone (CARRIER_PHONE)	Carrier Contact Phone (CARRIER_PHONE)	Carrier Contact Phone (CARRIER_PHONE)

TABLE A-1 (continued)

Record Type "CO2"	Record Type "CO4"	Record Type "CO5"
Record Type (REC_TYPE)	Record Type (REC_TYPE)	Record Type (REC_TYPE)
Consignor's Permit (CNSGNOR_ID)	Holding facility permit (PERMIT_NUM)	Consignor's Permit (CNSGNOR_ID)
Manifest Number (MANIF_NUM)	Consignor's Permit (CNSGNOR_ID)	Manifest Number (MANIF_NUM)
Container Number (CNTR_NUM)	Manifest Number (MANIF_NUM)	Container Number (CNTR_NUM)
Container volume (CNTR_VOL)	Container Number (CNTR_NUM)	Container Volume (CNTR_VOL)
Volume Unit of Measure (VOL_MEAS)		Volume Unit of Measure (VOL_MEAS)
Container type (CNTR_TYPE)		Container type (CNTR_TYPE)
Container activity (CNTR_ACTVY)		Container activity (CNTR_ACTVY)
Activity units of measure (ACTVY_MEAS)		Activity units of measure (ACTVY_MEAS)
Container Alpha (CNTR_ALPHA)		Container Alpha (CNTR_ALPHA)
Alpha less than indicator (ALPHA_SIGN)		Alpha less than indicator (ALPHA_SIGN)
Container Beta (CNTR_BETA)		Container Beta (CNTR_BETA)
Beta less than indicator (BETA_SIGN)		Beta less than indicator (BETA_SIGN)
Container disposition (CNTR_DISP)		Container disposition (CNTR_DISP)
Over pack indicator (OP_FLAG)		Over pack indicator (OP_FLAG)
Surface radiation (SURF_RADIA)		Surface radiation (SURF_RADIA)
Surface radiation units (RAD_MEAS)		Surface radiation units (RAD_MEAS)
Rad less than indicator (RAD_SIGN)		Rad less than indicator (RAD_SIGN)
DOT Label (DOT_LABEL)		DOT Label (DOT_LABEL)
Container weight (CNTR_WGT)		Container weight (CNTR_WGT)
DOT UN ID number (DOT_UN_ID)		DOT UN ID number (DOT_UN_ID)

Transport Index (TRANS_INDEX)		Transport index (TRANS_INDX)
Cert. of Compliance (CERT_NUM)		Cert. of compliance (CERT_NUM)

TABLE A-1 (continued)

Record Type "WO1"
Record Type (REC_TYPE)
Consignor's Permit (CNSGNOR_ID)
Manifest Number (MANIF_NUM)
Container Number (CNTR_NUM)
Waste Type (WASTE_TYPE)
Waste activity (WST_ACTVY)
Activity units of measure (ACTVY_MEAS)
Waste Classification (WASTE_CLAS)
Waste volume (WASTE_VOL)
Volume unit of measure (VOL_MEAS)
Waste code (WASTE_CODE)
Physical form (PHYS_FORM)
SSS media (SSS_MEDIA)
SSS vendor (SSS_VENDOR)
SSS brand (SSS_BRAND)
Chelating agent 1 (CHE_AGENT1)
% of chelating agent 1 (CHE_PCT1)
Chelating agent 2 (CHE_AGENT2)
% of chelating agent 2 (CHE_PCT2)
LSA/SCO indicator (LSA_SCO)

TABLE A-1 (continued)

Record Type "I05"
Record Type (REC_TYPE)
Consignor's Permit (CNSGNOR_ID)
Manifest Number (MANIF_NUM)
Container Number (CNTR_NUM)
Waste Type (WASTE_TYPE)
Radionuclide (RADIONUCL)
Radionuclide activity (NUCL_ACTVY)
Activity units of measure (ACTVY_MEAS)
Activity less than indicator (ACTVY_SIGN)
Radionuclide percentage (RADIO_PCT)
% less than indicator (PCT_SIGN)
Special nuclear material grams (SNM_GRAMS)
Chemical form (CHEM_FORM)

TABLE A-1 (continued)

Record Type "PO1"
Record Type (REC_TYPE)
Consignor's Permit (CNSNOR_ID)
Manifest Number (MANIF_NUM)
Container Number (CNTR_NUM)
Previous Consignor's Permit (PREV_CNSNR)
Previous manifest number (PREV_MANF)
Previous container number (PREV_CNTR)
Consolidated volume (COMB_VOL)
% of previous container (PREV_PCT)

(Source: Amended at 38 Ill. Reg. 12088, effective May 29, 2014)

Section 609.TABLE A-2 Data element definitions

TABLE A-2

NAME	DEFINITION	FIELD SIZE	DECIMAL PLACES	FIELD TYPE	FIELD FORMAT	USAGE CODE	CODE DESCRIPTION
ACT_SHIP	The actual shipment date of a LLRW shipment.	8	0	Numeric (Date)	YYYYMMDD	N/A	N/A
ACTVY_MEAS	The units used to measure activity (Curies or Millicuries, Microcuries, Becquerels, Terrabecquerels, Gigabecquerels, Megabecquerels, Kilobecquerels)	1	0	Alpha-Numeric	X	C M U B T G E	Curies Millicuries Microcuries Becquerels Terrabecquerels Gigabecquerels Megabecquerels

						K	Kilobecquerels
ACTVY_SIGN	Indicates whether the activity number is a less than value.	1	0	Alpha-Numeric	X	< (blank)	Activity value is less than number shown. Alpha amount is the number shown.
ALPHA_SIGN	Indicates whether the Container Alpha (CNTR_ALPHA) number is a less than value	1	0	Alpha-Numeric	X	< (blank)	Alpha amount is the number shown. Alpha amount is the number shown.
BETA_SIGN	Indicates whether the Container Beta (CNTR_BETA) number is a less than value.	1	0	Alpha-Numeric	X	< (blank)	Beta amount less than number shown. Beta amount is the number shown.
C14_ACT	The total activity of C-14 within a LLRW shipment. Unit of measure is the manifest record's ACTVY_MEAS value.	24	10	Scientific	9.9999E99	N/A	N/A
CARRIER_CD	Carrier Code	2		Alpha-Numeric	X(2)	N/A	N/A
CARRIER_NAME	Carrier Name	50		Alpha-Numeric	X(50)	N/A	N/A
CARRIER_ADDR1	Carrier Address 1	50		Alpha-Numeric	X(50)	N/A	N/A
CARRIER_ADDR2	Carrier Address 2	50		Alpha-Numeric	X(50)	N/A	N/A
CARRIER_CITY	Carrier City	50		Alpha-Numeric	X(50)	N/A	N/A
CARRIER_STATE	Carrier State	2		Alpha-Numeric	X(2)	N/A	N/A
CARRIER_ZIP	Carrier Zip Code	5		Alpha-Numeric	X(5)	N/A	N/A
CARRIER_ZIP4	Carrier ZIP Suffix	4		Alpha-Numeric	X(4)	N/A	N/A
CARRIER_CONTACT	Carrier Contact	50		Alpha-Numeric	X(50)	N/A	N/A
CARRIER_PHONE	Carrier Phone	20		Alpha-Numeric	X(20)	N/A	N/A
CERT_NUM	An NRC or host	16	0	Alpha-	X(16)	N/A	N/A

	state certificate of compliance number. Refers to a specific container type, i.e., High Integrity Container.			Numeric			
CHE_AGENT1	The primary chelating agent used in a LLRW waste type.	16	0	Alpha-Numeric	X(16)	N/A	N/A
CHE_AGENT2	The secondary chelating agent used in a LLRW waste type.	16	0	Alpha-Numeric	X(16)	N/A	N/A
CHE_PCT1	The percentage of the primary chelating agent by weight of waste.	5	2	Numeric	999.99	N/A	N/A
CHE_PCT2	The percentage of the secondary chelating agent by weight of waste.	5	2	Numeric	999.99	N/A	N/A
CHEM_FORM	A description of the chemical form of a specific radionuclide within a container.	25	0	Alpha-Numeric	X(25)	N/A	N/A
CNSGNEE_ID	The Tracking System Permit number assigned to the receiving facility of a LLRW shipment.	6	0	Alpha-Numeric	XX9999		Positions 1-2: State abbreviation Positions 3-6: Sequential number for permits in that state.
CNSGNOR_ID	The Tracking System Permit number assigned to the sending facility of a LLRW shipment.	6	0	Alpha-Numeric	XX9999		Positions 1-2: State abbreviation Positions 3-6: Sequential number for permits in that state.
CNTR_ACTVY	The total activity of all waste within a LLRW container. Units of measure are indicated by the	24	10	Scientific	9.9999E99	N/A	N/A

	record's ACTVY_MEAS value.						
CNTR_ALPHA	The surface contamination of a LLRW container in alpha disintegrations per minute: (dpm)/100 cm ² .	5	0	Numeric	99999	N/A	N/A
CNTR_BETA	The surface contamination of a container in beta disintegrations per minute: (dpm)/100 cm ² .	5	0	Numeric	99999	N/A	N/A
CNTR_NUM	The unique identification number assigned to each LLRW container within a shipment.	16	0	Alpha-Numeric	X(16)	N/A	N/A
CNTR_TYPE	A code identifying the container type of a LLRW container.	3	0	Alpha-Numeric	XXX	BUW CTL DMZ FBB FBD FTL GCY HIC MBC MDP MTL	Bulk unpackaged waste Concrete tank or liner Demineralizer Fiberboard box Fiber drum Fiberglass tank Gas cylinder High integrity container Metal box or crate Metal drum or pail Metal tank or liner

						OTH	Other
						PDP	Plastic drum or pail
						PLT	Pallet
						PTL	Polyethylene tank
						SLC	Sealand container
						UNP	Unpacked components
						WBC	Wooden box or crate
CNTR_VOL	The total volume (outside dimension) of a LLRW container, in cubic feet.	7	2	Numeric	99999.99	N/A	N/A
CNTR_WGT	The total weight of a LLRW container, including the contents, in pounds.	5	0	Numeric	99999	N/A	N/A
COMB_VOL	The post-consolidation volume of a container.	7	2	Numeric	99999.99	N/A	N/A
DOT_LABEL	The USDOT label which applies to a LLRW container.	1	0	Numeric	9	0	Empty
						1	White-I
						2	Yellow-II
						3	Yellow-III
						4	Oxidizer
						5	Spontaneously combustible
						6	Corrosive
						7	N/A
DOT_UN_ID	The identification number for the	6	0	Alpha-Numeric	XXXXXX	UN1219	Isopropanol or Isopropyl

	proper shipping name of a LLRW container.					alcohol
						UN1280 Propylene oxide UN1325 Flammable solids, organic, n.o.s. UN1595 Dimethyl sulfate UN1671 Phenol, solid UN1987 Alcohols, n.o.s. UN1993 Flammable liquid, n.o.s. UN2029 Hydrazine, anhydrous UN2908 Radioactive material, excepted package – emptying packaging UN2909 Radioactive material, excepted package – articles manufactured from natural uranium or depleted uranium or thorium UN2910 Radioactive material, excepted package – empty package UN2911 Radioactive material, excepted package – instruments or

						articles
						UN2912 Radioactive material, low specific activity (LSA-I) non-fissile or fissile-excepted
						UN2913 Radioactive material, surface contaminated object (SCO-I or SCO-II) non-fissile or fissile-excepted
						UN2915 Radioactive material, Type A package non-special form, non-fissile or fissile-excepted
						UN2916 Radioactive material, Type B (U) package non-fissile or fissile-excepted
						UN2917 Radioactive material, Type B (M) package non-fissile or fissile-excepted
						UN2919 Radioactive material, transported under special arrangement, non-fissile or fissile-excepted
						UN2924 Flammable liquids, corrosive, n.o.s.

							material, low specific activity (LSA-II) non-fissile or fissile-excepted
						UN3322	Radioactive material, low specific activity (LSA-III) non-fissile or fissile-excepted
						UN3327	Radioactive material, Type A package, fissile non-special form
						UN3328	Radioactive material, Type B (U) package, fissile
						UN3329	Radioactive material, Type B (M) package, fissile
						UN3331	Radioactive material, transported under special arrangement, fissile
						UN3332	Radioactive material, Type A package, special form non-fissile or fissile-excepted
						UN3333	Radioactive material, Type A package, special form, fissile
						UN3399	Organometallic substance, liquid, water-reactive, flammable

						UN3439 UNEXMT	Nitriles, toxic, solid, n.o.s. Exempt packaging
EPA_MANIF	The EPA manifest number assigned to a LLRW shipment which has EPA regulated waste.	12	0	Alpha-Numeric	X(12)	N/A	N/A
EXCLUS_USE	A flag indicating whether a LLRW shipment is an exclusive use shipment, i.e., a shipment which cannot be opened after shipment except by the consignee.	1	0	Alpha-Numeric	X	T F Y N	True False Yes No
H3_ACT	The total activity of H-3 within a LLRW shipment. Unit of measure is indicated by record's ACTVY_MEAS value.	24	10	Scientific	9.9999E99	N/A	N/A
I129_ACT	The total activity of I-129 within a LLRW shipment. Unit of measure is indicated by record's ACTVY_MEAS value.	24	10	Scientific	9.9999E99	N/A	N/A
LSA_SCO	The group notation for a shipment of Low Specific Activity material or Surface Contaminated Objects.	4	0	Alpha-Numeric	XXXX	LSA1 LSA2 LSA3 SCO1	Low Specific Activity – I Low Specific Activity – II Low Specific Activity – III Surface Contaminated Objects – I

						SCO2	Surface Contaminated Objects – II
						N/A	N/A
MANIF_NUM	The unique number assigned to a LLRW shipment by the sending or receiving facility	13	0	Alpha-Numeric	X(13)	N/A	N/A
NUCL_ACTVY	The activity level for a specific radionuclide within a given LLRW container. Units of measure indicated by the record's ACTVY_MEAS value.	24	10	Scientific	9.9999E99	N/A	N/A
OP_FLAG	A logical flag indicating whether a LLRW container requires disposal in an approved structural overpack.	1	0	Alpha-Numeric	X	T F Y N	True False Yes No
PCT_SIGN	Indicates whether the radionuclide percentage (RADIO_PCT) number is a less than value.	1	0	Alpha-Numeric	X	< (blank)	Percent amount is less than the number given. Percent amount is the number given.
PERMIT_NUM	The Tracking System permit number assigned to the holding facility of a LLRW container.	6	0	Alpha-Numeric	XX9999	N/A	Positions 1-2: State abbreviation. Positions 3-6: Sequential number for permits in that state.
PHYS_FORM	A code indicating the physical form of LLRW within the container.	1	0	Alpha-Numeric	X	G L S	Gas Liquid Solid

PREV_CNSNR	The Tracking System permit number assigned to the facility sending a LLRW shipment for depleting.	6	0	Alpha-Numeric	XX9999		Positions 1-2: State abbreviation. Positions 3-6: Sequential number for permits in that state.
PREV_CNTR	The previous unique identification number of a container which has been consolidated into the current container.	16	0	Alpha-Numeric	X(16)	N/A	N/A
PREV_MANF	The manifest number assigned to the shipment in which the previous container (PREV_CNTR) was received.	10	0	Alpha-Numeric	X(10)	N/A	N/A
PREV_PCT	The percentage of the consolidated container (PREV_CNTR) that has been consolidated into the current container.	3	0	Numeric	999	N/A	N/A
RAD_MEAS	A code indicating the units used to measure the radiation level of a LLRW container (SURF_RADIA).	1	0	Alpha-Numeric	X	M R	Millirems per hour (mR/hr) Rems per hour (R/hr)
RAD_SIGN	Indicates whether the radiation level of a LLRW container (SURF_RADIA) is less than the value given.	1	0	Alpha-Numeric	X	< (blank)	Radiation level less than number given. Radiation level is the number given.
RADIO_PCT	The percentage of a radionuclide within a LLRW container with respect to all	6	3	Numeric	999.999	N/A	N/A

	radionuclides within the container.						
RADIONUCL	The abbreviated atomic name of a radionuclide within a LLRW container.	8	0	Alpha-Numeric	XXXXXXXX X	N/A	Any valid radionuclide atomic symbol with atomic weight (C12 scale), e.g. C14, TC99, or CA40.
REC_TYPE	The EDT record type of the current record.	3	0	Alpha-Numeric	X99	M01 M02 M03 C02 C04 C05 W01 I05 P01	Original manifest record Consolidated manifest record Out of state consolidated manifest record Consolidated container record Container removed from inventory record Original container record Waste Type record Radionuclide record Consolidated container pointer record
SNM_GRAMS	The weight of a specific radionuclide of special nuclear material (U-233, U-235) in grams.	10	7	Numeric	999.999999 9	N/A	N/A
SSS_BRAND	The brand name of a particular stabilization, sorbent, or solidification media	15	0	Alpha-Numeric	X(15)	N/A	N/A

	(SSS_MEDIA) within a LLRW waste type.						
SSS_MEDIA	A code identifying the particular stabilization, sorberent or solidification media (SSS_MEDIA) within a LLRW waste type.	3	0	Numeric	999	60	Speedi Dri
						61	Celetom
						62	Floor Dry/Superfine
						63	Hi Dri
						64	Safe T Sorb
						65	Safe N Dri
						66	Florco
						67	Florco X
						68	Solid A Sorb
						69	Chemsil 30
						70	Chemsil 50
						71	Chemsil 3030
						72	Dicaperl HP200
						73	Dicaperl HP500
						74	Petroset
						75	Petroset II
						76	Aquaset
						77	Aquaset II
						89	Other Sorberent
						90	Cement
						91	Concrete (Encapsulation)
						92	Bitumen
						93	Vinyl Chloride

						94	Vinyl Ester Styrene
						99	Other solidification
						100	None Required
SSS_VENDOR	The vendor of a particular stabilization, sorbent, solidification media (SSS_MEDIA) within a LLRW waste type.	15	0	Alpha-Numeric	X(15)	N/A	N/A
SURF_RADIA	The radiation level measure on contact with a LLRW container. Units of measure indicated by the record's RAD_MEAS value.	8	2	Numeric	999999.99	N/A	N/A
TC99_ACT	The total activity of TC-99 within a LLRW shipment. Units of measure indicated by the record's ACTVY_MEAS value.	24	10	Scientific	9.9999E99	N/A	N/A
TOT_ACTVY	The total activity of all containers in a LLRW shipment. Units of measure indicated by the record's ACTVY_MEAS value.	24	10	Scientific	9.9999E99	N/A	N/A
TOT_CNTRS	The total number of containers in a LLRW shipment.	6	0	Numeric	999999	N/A	N/A
TOT_SNM_WT	The total weight of all radionuclides of special nuclear material within a LLRW shipment, measured in	10	7	Numeric	999.999999 9	N/A	N/A

	grams.						
TOT_SRC_WT	The total weight of source material on a LLRW shipment, in pounds.	9	2	Numeric	9999999.99	N/A	N/A
TOT_VOLUME	The total volume of all containers in a LLRW shipment, in cubic feet.	10	2	Numeric	99999999.00	N/A	N/A
TOT_WEIGHT	The total weight of all containers in a LLRW shipment, in pounds.	10	0	Numeric	9999999999	N/A	N/A
TRANS_INDX	The transportation index for a package label on a LLRW container.	10	0	Alpha-Numeric	X(10)	N/A	N/A
VOL_MEAS	The volume unit of measure.	1	0	Alpha-Numeric	X	F M	Cubic Feet Cubic Meters
WASTE_CLAS	The waste classification of a LLRW waste type.	2	0	Alpha-Numeric	XX	AS AU B C >C	Class A stable Class A unstable Class B Class C Greater than Class C
WASTE_CODE	A code indicating whether the waste in a waste type has been collected or processed.	1	0	Alpha-Numeric	X	C P D (blank)	Collected Processed De-commissioned Neither
WASTE_TYPE	A code indicating the specific type of waste type.	2	0	Alpha-Numeric	XX	20 21 22 23 24	Charcoal Incinerator ash Soil Gas Oil

						25	Aqueous liquid
						26	Filter media
						27	Mechanical filter
						28	EPA Hazardous
						29	Demolition rubble
						30	Cation ion-exchange media
						31	Anion ion-exchange media
						32	Mixed bed ion-exchange media
						33	Contaminated equipment
						34	Organic liquid (except oil)
						35	Glassware or lab ware
						36	Sealed source/device
						37	Paint or plating
						38	Evaporator bottoms, sludges, concentrates
						39	Compactible trash
						40	Non-compactible trash
						41	Animal carcasses
						42	Biological material (except

						43	animal caracasses)
						44	Activated material
						59	Mixed waste
							Other
WASTE_VOL	The volume of the specific waste type (WASTE_TYPE) within a LLRW container, in cubic feet.	7	2	Numeric	99999.99	N/A	N/A
WSTE_ACTVY	The total activity of all radionuclides within a waste type. Units are indicated by the record's ACTVY_MEAS value.	24	10	Scientific	9.9999E99	N/A	N/A

(Source: Amended at 38 Ill. Reg. 12088, effective May 29, 2014)