**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.

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