



**ENVIROMENTAL MANGEMENT & CONTROLS, INC.**

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## **WASTE ACCEPTANCE CRITERIA**

### **Shipping Paperwork**

Shipping paperwork must be accurate and as detailed as possible. Printed, handwritten, or faxed copies of paperwork must be clearly legible.

#### *Description of Waste*

All radioactive waste sent to the EMC processing facility must be accurately described in regard to physical, radiological, and chemical descriptions.

All waste packages must be properly packaged in a closed container meeting U.S. Department of Transportation (DOT) regulations 49CFR§172.

All waste must be classified in accordance with 10CFR§61.55 and 61.56

All waste with radionuclides having greater than 5 year half-life, destined for the Barnwell, SC must be received by EMC with an activity level less than 1 uCi/cc. Wastes exceeding this level require prior approval and are considered on a case by case basis.

Waste shipments must have all generators identified on accompanied shipping papers.

All containers must have a package identification number (PIN) that is traceable to the manifest.

#### *Transuranic Materials (TRU)*

TRU and Radium must be clearly identified and must not exceed Class A limits listed in Table I of 10CFR61.55. This is pertinent as special precautions and procedures must be implemented when handling or opening TRU containers.

All transuranic (TRU) and radium waste, other than sealed sources destined for the Barnwell site, must be less than 1% of the total activity. Any TRU and radium waste that exceeds 1% of the total activity will require advance approval from the South Carolina Department of Health & Environmental Control (DHEC).

All required permits must be in place prior to shipment arrival (i.e. South Carolina Transport permit, Washington Site Use Permit, Compact Export Permits, US Ecology customer generator number)

Pre-shipment notification must be submitted prior to waste shipment arrival at EMC and all shipments must be acceptable under EMC's Radioactive Material License No. 3546-50.

### **Health & Safety**

All wastes must be compatible within a container per 49CFR 177.848 Hazardous (RCRA) wastes cannot be processed at EMC. They can be trans-shipped to a licensed TSD processor with prior arrangements.

Radiation and contamination levels must comply with D.O.T. regulations. Containers with a surface radiation level exceeding 200 mR/hr must have prior approval.

### **Packaging of Radioactive Waste**

Environmental Management & Controls, Inc. (EMC) has printed instructions for packaging of various waste streams. To obtain a copy, contact the EMC office or download from the Thomas Gray & Associates, Inc. website (<http://www.tgainc.com>). These packaging instructions are considered part of this Waste Acceptance Criteria document.

#### *Animal Carcasses*

Animal carcass waste will only be overpacked. Animal carcass waste from the Rocky Mountain and Northwest Compacts can be received at EMC in single drums and do not have to be overpacked. Absorbent and lime must still be used as specified in the [Packaging Instructions](#) for animal carcasses.

Animal carcass waste packaged for direct disposal in accordance with Barnwell's Waste Acceptance Criteria can be sent to EMC and will be transshipped to the Barnwell site for final disposal.

Biological wastes (animal bedding, animal parts, tissue, urine, feces, etc.) require the same packaging as animal carcasses.

Note: Animal carcass waste and biological material are not acceptable at Envirocare of Utah unless previously incinerated.

#### *Sealed Sources*

EMC is licensed to receive, encapsulate, process and dispose of radioactive sealed sources. All sealed sources are handled on a case by case basis and will be evaluated when specific information is received regarding the sources from generator.

Note: Sealed sources are not acceptable at Envirocare of Utah.

### *Aqueous Liquid Waste*

Aqueous liquids cannot be commingled with other waste forms within a singled shipping container. This is imperative as containers of liquids mixed with the compactable waste can do extensive damage the compactor. Please refer to the [\*Packaging Instructions\*](#) for bulk aqueous liquids.