



January 27, 1984

Procedure #21
Procedure for Shipment of Low Level-Waste

The following procedure shall cover the shipment of low-level waste designated as DSM-LSA in 80, 55, or 30 gallon drums. Low-level waste shall encompass all types of materials generated including concrete, soil, tyvec suits, boot covers, gloves, building components, tools, cleaning materials, etc. Drums for the shipment of these materials will be type 17H & will be supplied by Teledyne Isotopes or alternate vendor. The maximum radiation reading at the surface of the drums shall be less than 200 mr/hr on contact for compliance with non-exclusive use shipment regulations.

All shipments shall require notification of USNRC Region I at least 48 hours prior to shipment. Teledyne Isotopes will act as agent/broker for all shipments and will require scheduling notification four days prior to shipment. Waste shipments will be designated for Washington State by the following permit & generator number under INI's license # 29-13848-01:

Generator Number 99-001-5307

Washington State Permit Number 1031

At least one day prior to shipment the drums shall be certified by activity in millicuries, weight of container and dose rate readings. Radiation readings shall be taken on side, top, and bottom of drums with a calibrated survey meter such as the Eberline El30-A. Smear surveys will also be performed to assure compliance for shipping regulations, (less than 2200 dpm). If specific drums fail to pass the smear survey they will be cleaned with a solution of cleaner (Radiacwash) and paper toweling. All information will be recorded by INI & entered onto the "Radioactive Waste Shipment & Disposal Form" by Teledyne personnel on date of shipment.

Loading Procedure

Personnel to perform loading of drums will be suited in the following manner: Tyvec suits, rubber gloves, & boot covers. All personnel will wear Xetex 415A personnel dosimeters, whole body film badges, & wrist film badges. Also available shall be the Eberline El30-A survey instrument.

Teledyne personnel shall be instructed to position their truck at the south truck bay door when arriving. All documentation shall be completed prior to loading of waste drums onto their truck. Any discrepancies shall be reconciled prior to loading of drums.

- 1.) Teledyne truck shall be pulled as close to the building as possible. Truck will not be pulled inside due to possible contamination of tires.
- 2.) If drums are located in the new irradiation cell or other restricted entry area, preapproved entry procedures will be necessary to remove the drums.

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U.S. HIGHWAY 46 AND SCHLEY STREET, DOVER, NEW JERSEY 07801



- a.) Drums now located in the new irradiation cell that are low-level will be taken out using hand truck & following Procedure #18, "Procedure for Entry into New Cell & Labyrinth Area".
- 3.) Teledyne personnel will be given boot covers & gloves to wear in the plant area during actual loading.
- 4.) INI personnel will assist in the loading of waste drums as necessary with the aid of any necessary tools or lifting equipment. At least two persons shall be available.
- 5.) Labeling will be the requirement of Teledyne personnel & shall take place at the time of loading.
- 6.) All documentation regarding shipments shall be placed in the "Waste Shipment" file. Accumulated exposures for personnel shall be recorded in the Operations Log Book.

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