

## 1.0 SCOPE

This procedure describes how and when the specific individual shipping and receiving procedures of Section VI of this Manual are to be employed. The transportation of radioactive materials as governed by the rules and regulations of the U.S. Nuclear Regulatory Commission, 10 CFR, Part 71, and the U.S. Department of Transportation, 49 CFR, Parts 170 through 189 and Part 397.

## 2.0 RESPONSIBILITIES

- 2.1 It is the responsibility of the RSO (Radiation Safety Officer) at the Foster Wheeler temporary construction sites to assure that the procedure detailed in this section are followed without deviation.
- 2.2 It is the responsibility of the Corporate RSO to establish prior to transfer of radioactive materials to construction sites, that qualified personnel are at the construction site and that the radioactive material licenses are current where the shipment is to be received.
- 2.3 It is the responsibility of the supplier of by-product materials to ship radioisotopes to Foster Wheeler Constructors Incorporated construction sites in approved containers and in accordance with all applicable rules and regulations.
- 2.4 It is the responsibility of common or contract carriers, including air carriers, to assume the responsibility for adherence to Federal and State rules and regulations governing the transportation of radioactive materials whenever radioactive materials are in their possession under a shipping contract with the Foster Wheeler Constructors Incorporated.
- 2.5 It is the responsibility of the Foster Wheeler employee assigned to transport radioactive materials in any vehicle under the control of the Foster Wheeler Constructors Inc. to comply with these procedures without deviation.

## 3.0 LIMITATIONS

This section covers the shipping and receiving of Iridium 192 sources up to fifty (50) curies, Ytterbium 169 sources, and empty Tech/Ops Models 650 and 660 source containers for domestic ground transportation only. Cobalt 60 shipments will be made in accordance with specific instructions received from the Corporate R.S.O. for each of these individual instances. Ytterbium 169 sources will be shipped and received in accordance with the Iridium 192 Procedures of this Section, with any necessary changes incorporated.

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NOTE: The Quality Assurance/Quality Control office shall be contacted for specific instructions for any type of source or empty container shipment or receipt not covered by this Section.

#### 4.0 DEFINITIONS OF TERMS

- 4.1 Carrier Only - means that the trucking company or cargo airline representative comes to the jobsite or plant to pick up or deliver your shipment.
- 4.2 FWCI Only - means a source or camera transfer between FWCI field sites that involves FWCI personnel and FWCI vehicles only (outside trucking company or airline not involved in shipment at any time).
- 4.3 Delivery to Carrier - means a shipment where the article being shipped is taken to the trucker's or airline's terminal for transport in an FWCI vehicle by FWCI personnel.
- 4.4 Pick up from Carrier - means a shipment where FWCI personnel have to go to the trucker's or airline's terminal in an FWCI vehicle in order to pick up the article to be received.
- 4.5 FWCI vehicle - means any motor vehicle owned or leased by Foster Wheeler Constructors Inc., or any private motor vehicle (such as an automobile) operated by an FWCI employee while that employee is engaged in activities related to his job.

#### 5.0 USE OF SHIPPING AND RECEIVING PROCEDURES

Iridium 192 Sources and empty containers (T/O 650 and 660) shall be shipped and received in accordance with the applicable procedure as indicated by the Procedure Selection Chart on Page 4 of this Procedure. This chart is divided into four (4) general categories which are defined in Paragraph 4.0 of this procedure. Use the procedure number that is at the intersection of the columns that describe the type of shipment or receipt to be made. Only one (1) Procedure will apply to any given shipment or receipt.

NOTE: The transfer of any radioactive materials or radiographic exposure devices between construction sites is strictly prohibited without the express authorization of the Corporate Radiation Safety Officer.

CAUTION

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Over-labeling source containers and/or transporting vehicles is considered as undesirable as under-labeling the same.

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No source containers or crates bearing Radioactive Yellow-III shipping labels shall be transported on FWC I vehicles at any time.

5.1 Personnel Monitoring Devices shall be used by radiographic personnel as identified in 5.2 in conjunction with procedures described in Section VI, procedures 51, 52, 53, 54, 60, 61, 62 and 63.

5.2 Personnel Monitoring Devices:

- A) Thermoluminescent Dosimeter (TLD) Badge  
(Section II, Procedure 2)
- B) Pocket Dosimeter  
Charging/Zero (Section II, Procedure 1)  
Calibration (Section II, Procedure 34)
- C) Survey Meter  
Meter Description/Calibration (Section III, Procedure 13).

## PROCEDURE SELECTION CHART

CARRIER ONLY

WITH SOURCE      EMPTY

SHIPPING - USE PROCEDURE NO.

51

53

RECEIVING - USE PROCEDURE NO.

60

62

FWCI ONLY

WITH SOURCE      EMPTY

SHIPPING - USE PROCEDURE NO.

52

54

RECEIVING - USE PROCEDURE NO.

60

62

DELIVERY TO CARRIER

WITH SOURCE      EMPTY

SHIPPING - USE PROCEDURE NO.

52

54

PICKUP FROM CARRIER

WITH SOURCE      EMPTY

RECEIVING - USE PROCEDURE

61

63

FIGURE 1  
"RADIOACTIVE WHITE - 1" LABEL



FIGURE II  
"RADIOACTIVE YELLOW - II" LABEL

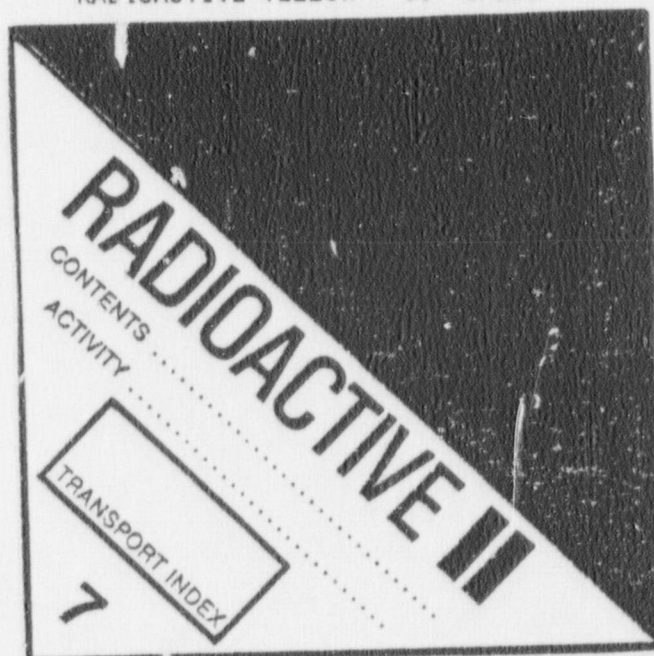


FIGURE  
"RADIOACTIVE YELLOW - III" LABEL

