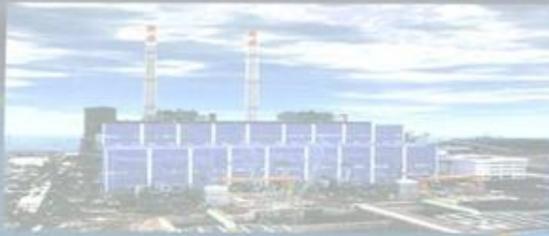


WELDERS TESTING LABORATORIES (PHILIPPINES), INC.

SHIPPING PROCEDURE

for

“ Return “ of Disused / Spent on
Radioactive Sources to the
Manufacturer.



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1.0 Shipping Procedure



The following procedure shall be utilized for shipping INC depleted source inside the container drum. The container drum shall contain INC source enclosed in a source changer. Shipping procedure shall be performed by the RHSO or a designated radiographer under his supervision in strict compliance with radiation safety procedures. Shipping shall be shipped by airline only.



1.1 Pre-Shipping Procedure



The following procedure shall be utilized in preparation of the radioactive package.

1. Individuals performing the pre-shipping operation shall utilize a calibrated operable survey meter and wear a properly mounted current TLD Thermoluminescent Device and calibrated charged pocket dosimeter.





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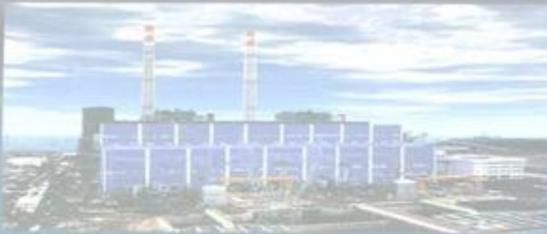


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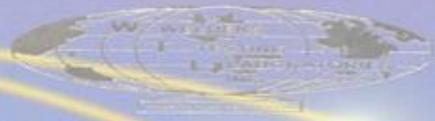


2. Carefully approach the storage area with the survey meter set on the 0-10 mr scale to a distance of approximately 3 feet from the storage area. The reading shall not exceed 2 mr/hr.

NOTE: If the dose rate on the survey meter exceeds 2 mr/hr, follow the Emergency Procedure.



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- 
3. If the value is within the allowable, continue approaching the storage area. Survey the outside area of the storage area. The reading shall not exceed 2 mr/hr.

NOTE: If the dose rate on the survey meter exceeds 2 mr/hr, follow the Emergency Procedures.

4. If the value is within the allowable, switch to the 0-1000 mr range of the survey meter and unlock the storage area and open the lid/door. Survey the area. The reading shall not exceed 200 mr/hr.

NOTE: If the dose rate on the survey meter exceeds 200 mr/hr, follow the Emergency Procedures.



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5. Remove the exposure device from the storage area to an area of low background radiation (Unrestricted Area). Survey the area at 6" all around the perimeter of exposure device or source changer. The reading shall not exceed 50 mr/hr at 6". Record the readings on the Shipping Record.



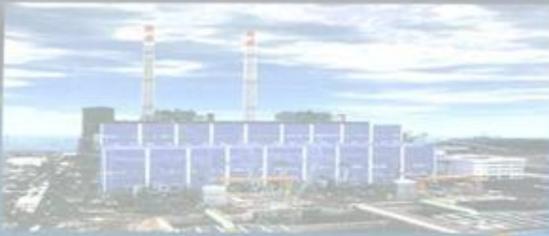


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NOTE: If the dose rate on the survey meter exceeds 50 mr/hr, follow the Emergency Procedures.

6. Close and lock the storage area. Log out the exposure device from the storage area location and complete the information on the appropriate Utilization Log.



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7. Obtain an empty shipping drum and place the source changer of the exposure device into the shipping drum in the same orientation which it was received. Place the short exchange tube into the drum



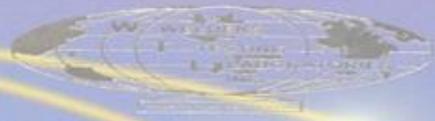


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- 8. Complete the isotope information sheet. Place it inside the shipping drum.

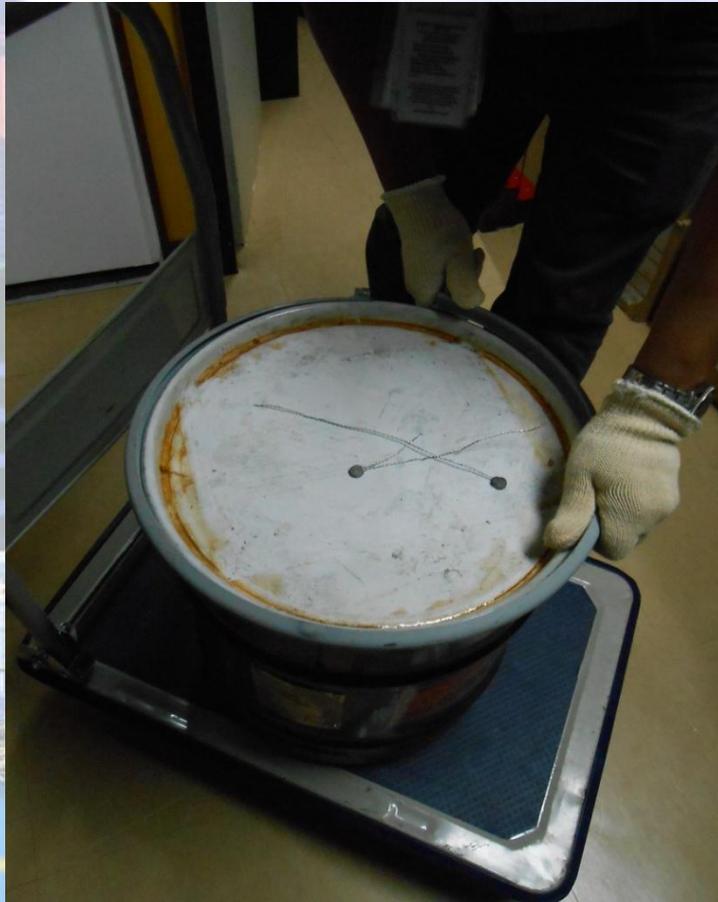


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9. Place the top on the shipping drum and secure it with the locking ring.



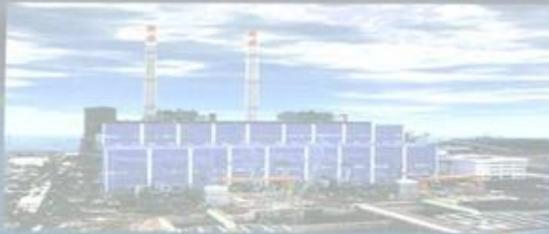


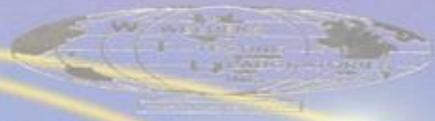
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10. Survey the Type B shipping drum as follows and retain the readings as they will be recorded on the shipping papers. Survey the shipping drum at a distance of 36". The dose rate shall not exceed 10 mr/hr. Survey the surface perimeter all around of the shipping drum. The dose rate shall not exceed 200 mr/hr. Record the values on the Certificate of Transport. Complete all the information required by the form.

NOTE: If the dose rate exceeds either of the two values above, refer to the Emergency Procedures.





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11. Apply for the Authority to transport from PNRI.



Republic of the Philippines
Department of Science and Technology
PHILIPPINE NUCLEAR RESEARCH INSTITUTE
NUCLEAR REGULATORY DIVISION
Commonwealth Avenue, Diliman, Quezon City
P.O. Box Nos. 213 U.P. Quezon City, 932 Manila; 1314 Central, Quezon City
Telephone Nos. (+632) 929-6010 to 15 Fax No. (+632) 920-1646



September 10, 2013

TO WHOM THIS MAY CONCERN:

AUTHORITY TO TRANSPORT

This is to certify that the consignor, **WELDERS TESTING LABORATORIES (PHILS.), INC.**, with an address located at **S-7 Sunvar Plaza Pasay Road cor. Amoroso Street, Makati City** is a holder of PNRI License No. **CT6.16069.13** to expire on **September 30, 2014**. On the basis of licensee's letter of request for the issuance of authorization to transport, duly accomplished Certificate of transport and other submitted documents, the consignor is hereby authorized to transport the licensed radioactive material/s from the **consignor's address as above** to **Industrial Nuclear Company, Inc., 14320 Wicks Blvd., San Leandro, CA, USA (Ninoy Aquino International Airport, Parañaque City)** on **September 10-17, 2013**, in accordance with CPR Part 4, "Regulations for the Safe Transport of Radioactive Materials in the Philippines".

Radioactive Material/type/form/activity: **One (1) Unit Ir-192 Radiography Sealed Source, Source Model No. 7 / SN: T583 / 0.23458 TBq (6.33 Ci)**

Type / Category of Package: **Type B(U) / CATEGORY II / YELLOW**
General Description/Condition of Container/Packaging: **IR-50 Changer, SN: 2019, OP 100 Overpack Drum No. 11, D=19cm. x H=42cm.**


TEOFILO V. LEONIN, JR.
Chief, Nuclear Regulatory Division

Amount Paid: P 300.00
Total Amount Paid: P 1,800.00
PNRI Receipt No.: 7146684
Date issued: 09-11-13
AT No.: RPB-13-128-09



commitment

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12. Labeling Instructions- The survey readings obtained in Step 10 shall be used to determine the correct type label (I, II, III) to be attached to the outside of the shipping drum.



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Table 1-1

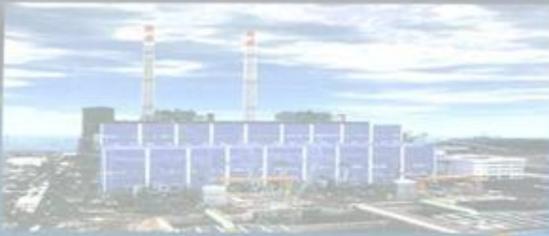
Category Label	Maximum dose rate at surface	Maximum dose rate at 1 metre
 <p>I WHITE</p>	<p>5 μ Sv/h (0.5 mrem/h)</p>	<p>ZERO</p>
 <p>II YELLOW</p>	<p>500 μ Sv/h (50 mrem/h)</p>	<p>10 μ Sv/h (1 mrem/h)</p>
 <p>III YELLOW</p>	<p>2 μ Sv/h (200 mrem/h)</p>	<p>100 μ Sv/h (10 mrem/h)</p>



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13. Satisfy both requirements of maximum radiation on the surface and 36" away and select the correct label type.
14. On each of the two external Class labels enter the correct isotope type (Ir-192), the current amount of curies or TBq (obtained from decay chart) and the transport index (survey meter reading in mr/hr at 36").



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15. Mount the two labels on the outside of the shipping drum.



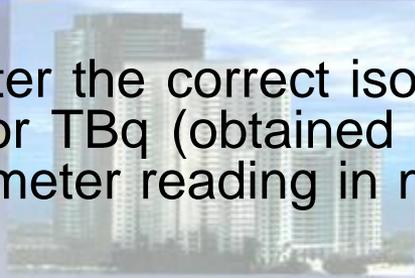
16. Affix a leaded tamper proof safety seal onto the shipping drum locking ring and fasten with a hammer or other suitable means.



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- 
14. On each of the two external Class labels enter the correct isotope type (Ir-192), the current amount of curies or TBq (obtained from decay chart) and the transport index (survey meter reading in mr/hr at 36").
 15. Mount the two labels on the outside of the shipping drum.
 16. Affix a leaded tamper proof safety seal onto the shipping drum locking ring and fasten with a hammer or other suitable means.



WELDERS TESTING LABORATORIES (PHILIPPINES), INC.

17. Obtain a red-bordered Shipper's Certification for Radioactive Materials from the RSO.



UN ID		Proper Shipping Name	Class	Quantity and type of packaging	Packing Inst.	Authorization
UN 2918		RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE	7	Indian 132 1 Type B(U) Package Special Form A, EXCEED THE Gross Drum (Dr.) 41 Charger Dr. 3038	II Yellow Certificate LBN 0017 S-80 Rev. 7 Type B(U) Package Certificate LBN 0017 S-80 Rev. 9 Certificate of Transport Date: Oct 3, 2013	

SHIPPER'S DECLARATION FOR DANGEROUS GOODS (Provide at least three copies to the airline.)

SHIPPER: WELDERS TESTING LAB (PHILIPPINES), 27 Ramon Magsaysay Plaza, Pasay Station, Alabang St., Mendi City, Philippines

Customer: INDUSTRIAL NUCLEAR CO., INC., 14322 WIND BLDG, SAN LEANNE, CA 94527

Air Waybill No.: 023 - 1522-0961

Page: 2 of 3 Pages

Shipper's Reference Number:

FedEx Express This template for shipments NOT subject to PG-18 Only

WARNING: Failure to comply with all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.

TRANSPORT DETAILS: This document is valid for the destination specified for the mode of transport.

Origin: Manila, Philippines

Destination: San Francisco, USA

Shipper's Declaration: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/certificated, and are in all respects in proper condition for transport according to applicable International and National Governmental Regulations, including that all of the applicable air transport requirements have been met.

Name/Title of Signatory: DORITA A. BERNARDO, Director, Health & Safety Office, Philippines

Signature: [Signature]

Emergency Contact: See back of certificate



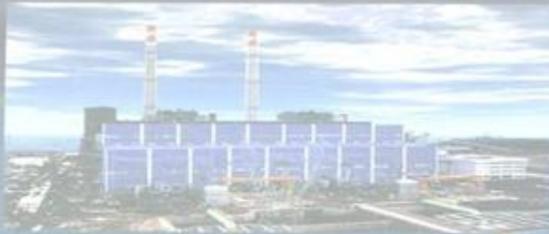
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- 
18. Obtain a Bill of Lading from the Commercial Airline Carrier who is transporting the shipping drum. WTL personnel shall complete the form in a similar manner.
 18. Secure the shipping drum in the transporting vehicle as applicable below: Mount vehicle signs.

Trunk of car physically secured in place.

b. Developing section of camper mounted pick-up

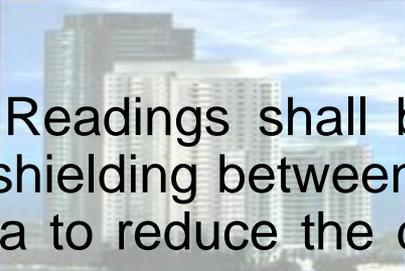
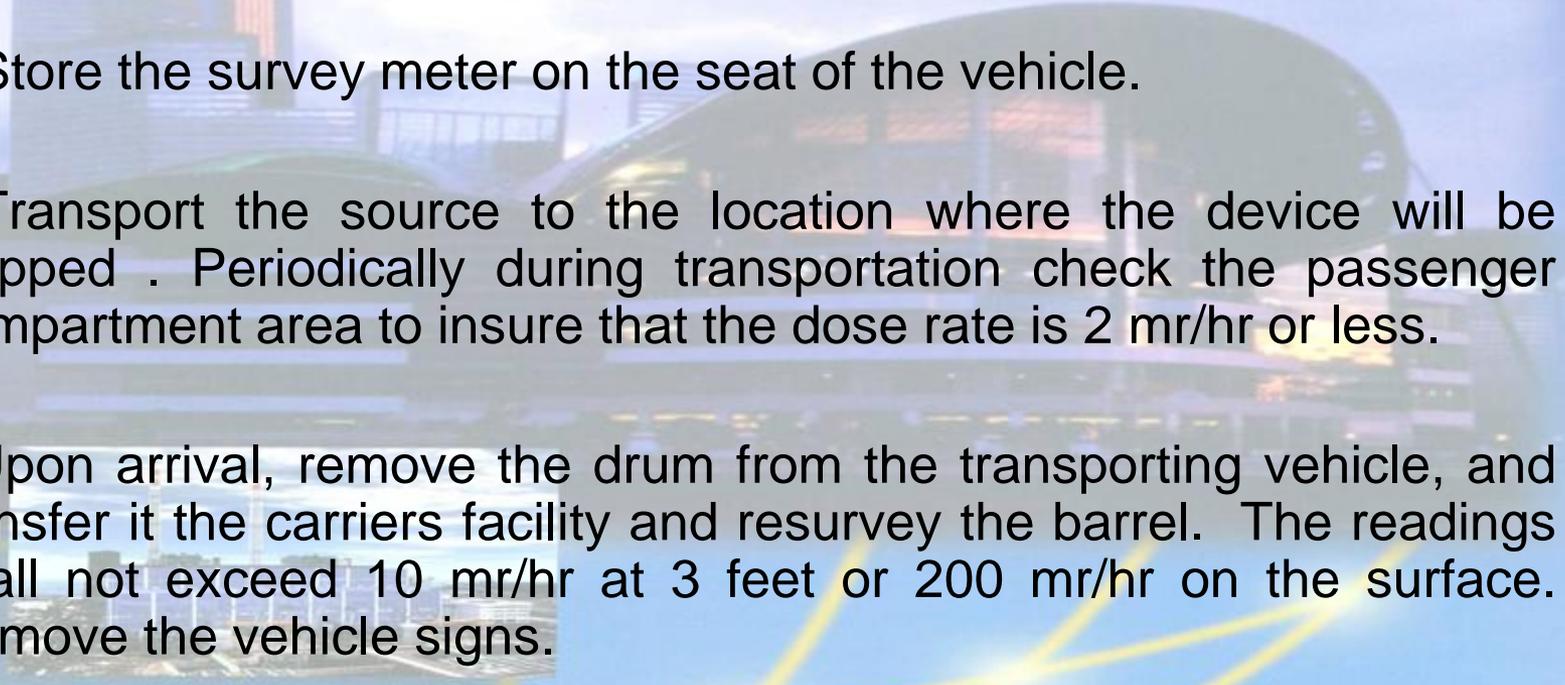
c. Bed of pick-up physically secured in place



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- 20.** Survey the passenger compartment area. Readings shall be 2 mr/hr or less. If the reading is exceeded, add shielding between the package and the passenger compartment area to reduce the dose rate to 2 mr/hr or less.
 - 21.** Store the survey meter on the seat of the vehicle.
 - 22.** Transport the source to the location where the device will be shipped . Periodically during transportation check the passenger compartment area to insure that the dose rate is 2 mr/hr or less.
 - 23.** Upon arrival, remove the drum from the transporting vehicle, and transfer it the carriers facility and resurvey the barrel. The readings shall not exceed 10 mr/hr at 3 feet or 200 mr/hr on the surface. Remove the vehicle signs.
 - 24.** Carrier Acknowledgement.

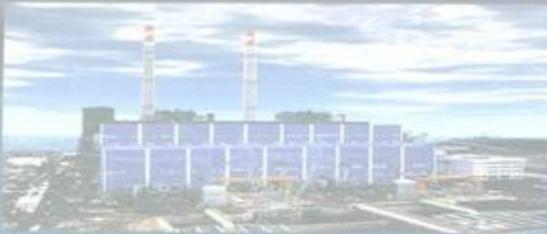


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NOTE: Have the person who receives the drum for the carrier sign the bill of lading. Retain a copy of the bill of lading and the last two (20 copies of the shipper's certification for radioactive materials.

25. Forward the retained copies to the RSO who shall place them in the applicable sealed source file.



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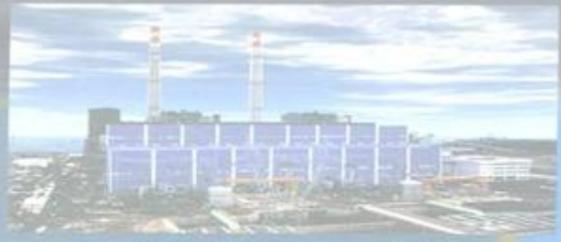


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Thank You

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