FORM 75302
1/99

LICENSE-EXEMPT PRIME CONTRACTOR

SPECIAL PROVISIONS FOR NUCLEAR MATERIALS

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Table of Contents

I. Introduction

II. Definitions

III. Nuclear Material Furnished by the Government

IV. Health and Safety Provisions

V. Shipments

VI. Special Material Considerations

Appendix A - Naval Reactors Program Radiological Criteria

Appendix B - Radioactive Material Receipt Verification Request

Appendix C - Shipment Data Sheet, Form 75494

SPECIAL PROVISIONS FOR NUCLEAR MATERIALS

I. Introduction

The License-Exempt Prime Contractor is required to follow all Nuclear Materials provisions under the terms of its contract with the Department of Energy, as well as all of those provisions stated herein. The Contractor will notify Bettis immediately of any changes to the DOE requirements.

The Contractor shall not subcontract any of the work involving Nuclear Materials under this order without prior written approval from Bettis, and without implementation of all applicable provisions, as required by the Contractor's Prime Contract and Bettis.

II. Definitions

A. Act - the Atomic Energy Act of 1954, as amended.

B. Blending (also known as dilution) - the altering of the isotopic composition of a quantity of an element by mixing it with a quantity of the same element which has a different isotopic composition.

C. Source Materials - (i) natural and depleted uranium, thorium, or any other material which is determined by the Department of Energy (DOE) pursuant to the provisions of Section 61 of the Act to be source material; or (ii) ores containing one or more of the foregoing materials, in such concentration as DOE may by regulation, determine from time to time.

D. Special Nuclear Material - (i) plutonium-238-241, uranium enriched in the isotope U-233 or in the isotope U-235, and any other material which DOE, pursuant to the provisions of Section 61 of the Act, determines to be special Nuclear Material, but does not include source material; or (ii) any material artificially enriched by any of the foregoing, but does not include source material.

E. Nuclear Materials - source and special Nuclear Material, as described above, and deuterium, tritium, lithium 6, neptunium-237, americium-241, americium-243, curium-246, berkelium-249 and californium-252, controlled as "other materials" in accordance with the provisions of U. S. Department of Energy Order 5633.3.

F. Government-owned Nuclear Material - (i) any Nuclear Material furnished to the Seller by Bettis and/or the Government for use under this order, and (ii) any source material intermixed by the Seller with special Nuclear Material whether such source material is furnished by Seller, Bettis, or the Government, and whether such intermixing is done for purposeful blending or is done accidentally. The term includes all such material, including unused, partially processed, rejected, or scrap and residues therefrom. Title to Government-owned Nuclear Material shall remain in the Government.

G. "Prime Contractor", as used herein, is the License-Exempt DOE Prime Contractor with whom the order is placed. Any reference to "Seller" shall be interpreted as "Prime Contractor".

III. Nuclear Material Furnished by the Government

A. Method for Obtaining Nuclear Material

1. DOE shall furnish to the Prime Contractor, FOB destination, for use in the manufacture of the items to be supplied under this order, Nuclear Material meeting the acceptance criteria and in the quantities and delivery dates set forth elsewhere in this order. The DOE furnished material shall be supplied at no cost to the Prime Contractor.

2. Unless otherwise agreed, all shipments of Nuclear Material from DOE to the Prime Contractor shall be made in DOE-owned containers. Title to such DOE-owned containers shall remain in the Government. The Prime Contractor shall promptly return DOE-owned containers to the DOE facility from which received, FOB shipping point. DOE containers shall be promptly returned by Bettis to the Prime Contractor from which received, FOB destination.

3. DOE shall furnish analytical, test, and inspection records for the Government-furnished Nuclear Material. Based upon these records and on such additional tests and inspections as the Prime Contractor may be required to perform by the DOE, the Prime Contractor shall advise Bettis in writing if he has grounds to reject the Government-furnished Nuclear Material which meets the acceptance criteria of this order. Costs for performing the required measurements will be included in the program costs. Final acceptance by the Prime Contractor shall be conclusively presumed in the event the Prime Contractor fails to notify Bettis as to the acceptance or rejection (i) within 30 days after receipt of Nuclear Material and related records, or (ii) prior to use of the Nuclear Material (other than for analyzing, measuring and inspection), whichever occurs first.

B. Determination of Quantities and/or Properties and Settlement of Measurement Differences Involving Nuclear Material

The following provisions and procedures shall apply with respect to any Nuclear Material furnished to the Prime Contractor by Bettis under this order, with respect to the determination of quantities and properties of such material delivered to or by the Prime Contractor and the resolution of measurement differences resulting from such determination. For the purposes of this paragraph B, the terms "shipper" and "receiver" shall refer to DOE, Bettis, the Prime Contractor or the subcontractor, as the case may be.

1. For all transfers of Nuclear Material, the shipper shall indicate on the DOE/NRC Form 741 "Nuclear Material Transaction Report" for such material the quantities and properties of the material delivered, and the methods used in determining such measurements. If the receiver accepts the shipper's measurement, he shall indicate his acceptance on the DOE transfer form, furnished to him for that purpose. If the receiver does not accept the shipper's measurements, the

receiver shall submit a notice of disagreement in writing to the shipper within 30days after the receipt of the material or the DOE transfer form, whichever is later. The notice of disagreement shall include the receiver's determined quantities and/or properties of the material received and the methods used in determining such measurements. If such notice of disagreement is not submitted within 30 days, the shipper's measurements will be final and binding upon both parties. The receiver shall not use or dispose of the material in any manner except for analyzing, measuring and inspection until the difference is resolved, unless such use or disposition is mutually agreed to by all, provided that nothing herein shall prevent the receiver from handling the material as necessary for storage or protection against health and safety hazards.

2. If the disagreement is not resolved by mutual agreement between the shipper and receiver, such disagreement shall be resolved in accordance with the following procedures at the written request of either party:

   a. If the disagreement concerns bulk measurement (i.e., total volume, gross and net weight, total piece count or any other measurement made on the entire quantity of material involved), repeat measurements shall be performed by an umpire mutually agreed to by both parties at a mutually agreed upon site. The umpire shall make his determination and findings in writing and furnish a copy thereof to both parties. The umpire's determination will be conclusive and binding on both parties. The party whose original measurement result is furthest from the umpire's result will bear the umpire's charges; provided, in the event the umpire's result is equidistant between the shipper's and receiver's results, the parties will each bear one-half of the umpire's charges.

   b. If the disagreement concerns results obtained from analysis of a sample, an official sample will be submitted to an umpire mutually agreed upon, for analysis. The umpire shall make his determination and findings in writing, and furnish a copy thereof to both parties. In the case of a disagreement with respect to specification limits based on an official sample, the receiver will bear the umpire's charges if the umpire's value is within specification limits, and the shipper will pay the umpire's charges if the umpire's value is not within the specification limits. In the case of a disagreement concerning quantitative determinations based on an official sample, the umpire's value will be used and the party whose value is furthest from the umpire's value will pay the umpire's charges; provided, in the event the umpire's value is equidistant between the shipper's and the receiver's value, the parties will each bear one-half of the umpire's charges.

3. With respect to deliveries to or receipt from a DOE facility (defined as a laboratory, plant, office or other establishment operated by or on behalf of DOE), DOE's samples, obtained using DOE's procedures will be the official samples and shall be binding upon DOE, the receiver or the shipper, and the umpire, unless all parties having responsibilities in the transfer of the material in question mutually agree upon the use of another sample.

4. With respect to selection of an umpire to perform measurements or sample analysis as provided for in subparagraph 2 of this paragraph II.B, if within 30 days after receipt of notice of disagreement, the parties have not agreed to the selection of an umpire, DOE may appoint an umpire. Notification of such appointment shall be given to the Seller in writing. When the services of an umpire are required pursuant to the provisions of this order, Bettis shall contract for the services of such umpire.

C. Prime Contractor Responsibilities for Nuclear Material

1. The Nuclear Material furnished to the Prime Contractor under this order shall be used solely in the manufacture of the items to be supplied under this order or such other items as may be approved by Bettis. Only Nuclear Material furnished by DOE pursuant to this clause shall be used in performance of this order. Title to all Nuclear Material, including material which is unused, partially processed, rejected, and scrap and residues therefrom shall remain in the Government.

2. The Prime Contractor may utilize under this order such Government-furnished Nuclear Material in its possession under other contracts or subcontracts with DOE, provided that such Nuclear Material is transferred from such other contracts or subcontracts to this order and becomes subject to all provisions of this order. The amount and form of the Nuclear Material so transferred is subject to approval by Bettis. Any Nuclear Material furnished under or transferred to this order may, with the prior approval of Bettis, be similarly transferred from this order to another contract with DOE.

3. The Prime Contractor shall manage and utilize the Nuclear Material furnished by DOE so as to minimize its inventory and the period of time the Nuclear Material is in its possession, consistent with efficient manufacturing processes and schedules. If necessary, quantities of Nuclear Material in excess of those quantities specified in the body of the order may be furnished to the Prime Contractor by DOE provided that the Prime Contractor shall submit adequate justification of need to Bettis.

4. The Prime Contractor shall maintain and make available to DOE or Bettis for examination, at all reasonable times, complete and accurate records pertaining to his receipt, possession, use, location, movement, and physical inventory of Nuclear Material furnished by DOE under this order. The Prime Contractor shall submit such transfer documents and reports reflecting quantities of Nuclear Material received, physically present, consumed, and transferred as DOE or Bettis may prescribe.

5. Disposition of all scrap generated by the Prime Contractor shall be negotiated on a contract by contract basis, so that the most economical means to dispose of the scrap can be agreed upon by the parties involved.

IV. Health and Safety Provisions

All work involving Nuclear Materials, including receipt, handling, storage and shipment under this order shall be performed in accordance with all applicable Federal, State and local health and safety regulations.

V. Shipments

A. General

1. For material which is not radioactive by the DOT regulations but meets the definition of radioactive material in Appendix A, include the following statement on the packing list:

   "This material is not regulated by DOT per 49 CFR 173.403(y) but is being handled as radioactive by the consignor and consignee in accordance with DOE Naval Reactors Instructions."

2. Applicable Regulations

   All shipments shall be made in accordance with applicable Federal Regulations, including 49 CFR, Parts 100 to 199 and all applicable state and local requirements. Any deviation from said requirements (to include situations where a permit may be required to exceed those requirements) will be permitted only in special cases, with specific, prior Bettis approval.

3. Packaging Requirements

   a. Shipping containers shall meet applicable NRC and DOT requirements and shall, in all cases, be marked with:

      (1) The proper DOT shipping name and the identification number as specified in 49 CFR 172.101.
      (2) The Bettis purchase order number
      (3) Package identification (serial) number
      (4) The words "Fissile Exempt" if the package contains a fissile-exempt quantity of special nuclear material as defined by DOT in 49 CFR 173.453.

   b. All outer shipping containers must be sealed with uniquely numbered, tamper-indicating devices in such a way that tampering with or entry to the container would be readily obvious. The seals must be applied in such a way that the container cannot be opened without breaking or damaging the seal.

   c. Inner or Primary Container Requirements:

      (1) The use of glass containers is prohibited unless otherwise authorized.

      (2) The amount of uranium-235 per container shall be limited to 100 grams.

(3) A label shall be placed on the container which shows:

(a) material description
(b) container identity
(c) actual weight (gross, tare, net)
(d) element and isotope weight (uranium-235, uranium-233, etc.) in grams to the nearest hundredths (0.01 gram).

(4) When primary containers are wrapped in yellow plastic, place a second label on the outside of the plastic and include all items in Step (3) above; the gross weight shall include the plastic.

(5) Each container shall be packaged individually within the package (i.e., two or more containers in a single bag is prohibited).

d. Perform radiological surveys for contamination of the following surfaces and ensure that the limits specified in Appendix A, Section A are not exceeded.

(1) the external surface of each shipping container
(2) the internal surfaces of each shipping container
(3) the outermost surface of each container inside the shipping container

4. <u>Shipping Documents</u>

a. Bills of lading, packing lists and other shipping papers shall be identified with the Bettis purchase order number, with one of each being forwarded to the Buyer.

b. A packing list shall accompany each shipment. If deemed unclassified, it shall be securely attached to the external surface of one of the outermost shipping containers. If classified, the packing list shall be placed inside the shipping container in such a manner that no radiological containment need be opened to retrieve the list, and the proper container clearly marked "PACKING LIST ENCLOSED". The packing list shall include the following:

(1) A statement that this is a radioactive material shipment.

(2) The Bettis purchase order number.

(3) The DOE/NRC Form 741, "Nuclear Material Transaction Report" number, if applicable.

(4) The identification number of each shipping container, seal number(s), gross weight, and isotope weight in grams to the hundredth.

(5) An unclassified, clear and concise material description, to include the primary and if applicable, the secondary container(s) information specified below:

(a) Identification number of each primary and, if applicable, secondary container and the corresponding seal number.

(b) Gross weight of each secondary container including labels, tape, etc.

(c) Gross weight of each primary container including poly wrapping, labels, tape, etc., when used.

(d) Actual gross, tare, and net weight of each primary container.

(e) Smallest discrete item descriptions, identifications, lot numbers, item net weight, item net fuel weight, element and isotope weight percents, and element and isotope weights in grams to the hundredths for each discrete item*; or in the case of loose material, the material description, net weight, lot number, element and isotope weight percents, and element and isotope weights in grams to the hundredths for each primary container.*

(f) Element and isotope weights in grams to the hundredths (nearest 0.01 gram)* and element and isotope weight percents for each secondary container, if applicable.

(g) Any other useful information or data including copies of chemistry analyses results.

(6) The results of the radiological surveys for contamination and dose rate levels of the following shall be securely attached to the external surface of the shipping container:

(a) the external surface of each shipping container
(b) the internal surfaces of each shipping container
(c) the outermost surface of each container inside the shipping container.

(7) See V.A.1.

(8) If the Purchase Order requires samples to be furnished, the container location of the samples shall be identified.

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*Micrograms to a hundredth for Berkelium and Californium

c. The Prime Contractor shall provide to the carrier an unclassified copy of the packing list or other shipping document containing the identification of the package. The carrier shall be instructed to hand deliver the document to the receiving facility.

d. Required documentation (test reports, certifications, data sheets, etc.) shall accompany shipments. As a minimum, the Prime Contractor shall furnish chemistry data including a copy of the Prime Contractors chemistry reports on the total element and isotopic analysis, as applicable. If the shipment contains fuel elements, assemblies, element or assembly sections, or metallographic mounts, the Seller shall furnish identities and loading data supporting the quantity of nuclear material contained in each such component, sectioned piece, or mount.

5. Correspondence and Shipping Address

a. All classified and unclassified correspondence to Bettis shall be addressed as follows, unless otherwise instructed in the order:

Bettis Atomic Power Laboratory
Post Office Box 79
West Mifflin, PA 15122-0079

b. Motor freight shipments to Bettis shall be addressed as follows unless otherwise instructed in the order:

Bettis Atomic Power Laboratory
814 Pittsburgh-McKeesport Boulevard
West Mifflin, Pennsylvania 15122-0079

Attention: Station PZA - NM Representative,
c/o NMBA #18

c. Correspondence to the Naval Reactors Facility (NRF) shall be addressed as follows unless otherwise instructed in the order:

Naval Reactors Facility
Post Office Box 2068
Idaho Falls, Idaho 83403-2068

Attention: Document Custodian

d. Motor freight shipments to the Naval Reactors Facility (NRF) shall be addressed as follows unless otherwise instructed in the order:

Naval Reactors Facility
Scoville, Idaho 83415

Attention: Station PZB - NM Representative, ECF Operations

e. Deliveries shall be scheduled to arrive at Bettis from 7:30 AM to 3:00 PM and at NRF from 8:00 AM to 3:00 PM Monday through Friday, except holidays. Contact Bettis for scheduled holidays.

f. Shipments to locations other than Bettis or NRF shall be addressed as specified in the purchase order.

6. Data Package Inspection

After all data is prepared but prior to actual shipment, perform an independent data package inspection.

7. Notification

a. The Prime Contractor shall notify the Station PZA Nuclear Materials Representative (Bettis Shipments) or the Station PZB Nuclear Materials Representative (NRF Shipments), orally, to be confirmed by FAX, 48 hours prior to all shipments. Copies of the FAX shall contain the following information to be sent to the attention of the Buyer and for Bettis shipments, to the Manager, DLO Radioactive Materials.

(1) Bettis purchase order number and the DOE/NRC Form 741 nuclear material transaction report number.
(2) Total isotopic content of the shipment.
(3) Number of packages.
(4) Identification serial number of each package and associated seal number(s).
(5) Identity of the carrier.
(6) Method and date of shipment.
(7) Estimated date of arrival.

b. Simultaneous with the Prime Contractor's oral notification discussed in A.4.d above, Seller shall forward, on an expedited basis (e.g. telecopy), a copy of the "Shipment Data Sheet(s)", Form 75494 (Appendix C), discussed in A.4.d above. The "Shipment Data Sheet(s)" (Appendix C), is to be sent to the attention of the Manager, DLO Radioactive Materials.

c. Notify Bettis Representatives identified in 7.a. of a revised estimated arrival date occasioned by any accidents, radioactive contamination, or significant shipment delays in transit involving shipments under this purchase order.

d. Specific Bettis approval shall be obtained prior to each shipment to a location other than the Naval Reactors Program Facilities identified in Section V.B.

8. Transportation Methods

a. All Prime Contractor shipments shall be made under authority of the Prime Contractor's contract with the Government.

b. Shipments shall be made by surface transportation under protective signature service. Shipments shall not be made by air or by the United States Postal Service without prior Bettis approval.

c. Certain shipments must be made using the DOE Transportation Safeguards Division to meet the safeguards requirements of Section V.C. See Paragraph V.C.

9. Transportation Charges

a. DOE-Furnished Material shall be supplied at no cost to the Prime Contractor.

b. Payment for transportation charges for shipments by the Prime Contractor are as specified in the order.

10. Verification of Receipt

a. Shipments originating from Bettis.

A "Verification of Receipt" form (Appendix B) or equivalent will be dispatched to your facility within 24 hours of Bettis originated shipments. The form must be completed and returned to the attention of the cognizant shipper as identified on the said Form with a copy to the Buyer within two weeks after shipment arrival. In addition, Bettis shall be notified by telephone upon actual receipt of the shipment.

b. For shipments originating from other facilities pursuant to a Bettis purchase order or from other Naval Reactors Program Facilities for use under a Bettis purchase order, a verification of receipt, and a courtesy copy of the DOE/NRC Form 741, shall be submitted to the Buyer within two weeks after shipment arrival.

B. Shipments to Naval Reactors Program Facilities

Naval Reactors Program Facilities are defined as Bettis Atomic Power Laboratory (Bettis), Knolls Atomic Power Laboratory (KAPL), Naval Reactors Facility (NRF), KAPL's Kesselring New York and Windsor (Connecticut) sites, and shipyards involved in Naval Nuclear work.

1. Any items meeting the criteria of Appendix A for identifying radioactive material shall be labeled, packaged and shipped as radioactive material. See also paragraph V.A.1.

2. The surface contamination limits specified in Appendix A shall not be exceeded on the vehicle surfaces (to the extent under the Seller's control), the external and internal surfaces of the shipping container, or on the external surfaces of the inner containers.

C. Safeguards Requirements

All shipments of special nuclear materials shall meet the applicable safeguards requirements of the NRC and DOE.

VI. Special Material Considerations

A. Special consideration shall be given to the handling and shipment of hygroscopic type nuclear materials. Hygroscopic materials absorb moisture from the atmosphere rapidly and over an extended time period. As a consequence of this tendency, the sampling procedures which are adequate for more stable nuclear materials do not provide an accurate analytical assessment of the total uranium associated with hygroscopic materials.

B. For hygroscopic nuclear materials, the parent material and its associated sample must be weighed under controlled atmosphere conditions. Special care must be taken to ensure that representative samples are taken by thorough mixing of the material immediately before sampling. The parent material and its associated sample must be weighed accurately at the time of sampling. All handling of material must be performed in a reduced humidity glovebox (10% RH or less). The containers must be carefully sealed to ensure that leakage of ambient air is minimized during shipping and storage. The uranium content of a sample or parent lot is a product of the uranium concentration and the weight of the sample at the time of analysis. When implemented by both the Seller and receiver, this technique should eliminate larger discrepancies in total uranium analytical results between chemistry laboratories. In addition, the chemistry method used by the vendor chemistry laboratories should be approved by Bettis Chemistry to ensure that the potential bias between vendor and Bettis is minimal.

C. All procurements for hygroscopic material shall include a sampling and packaging plan for implementation by the Seller.

NAVAL REACTORS PROGRAM RADIOLOGICAL CRITERIA

The criteria in this Appendix apply to all shipments of material to Naval Reactors Program Facilities.

A. Surface Contamination Limits

1. Alpha Surface Contamination

   Loose surface contamination shall not be more than 50 pCi/100 cm^2 (thorium-230 equivalent); and

   Fixed surface contamination shall not be more than 50 pCi per probe (thorium-230 equivalent).

2. Beta-Gamma Surface Contamination

   Loose surface contamination shall not be more than 450 pCi/100 cm^2 (cesium-137 equivalent); and

   Fixed surface contamination shall not be more than 450 pCi per probe (cesium-137 equivalent).

B. Criteria for Identifying Radioactive Material

Equipment, parts and material which have been exposed to radioactive contamination or which have been exposed to neutron flux from a nuclear reactor shall be handled as radioactive material if any of the following criteria are exceeded. The material also shall be handled as radioactive material if contamination is suspected to exceed any of the criteria on surfaces not accessible for measurement.

1. Alpha radioactivity which exceeds 50 pCi (thorium-230 equivalent) by direct measurement on the material.

2. Beta-gamma radioactivity which exceeds 450 pCi (cesium-137 equivalent) by direct measurement on the material.

3. For liquids and easily divisible solid material (such as soil, sediment, and solids made of loosely bound particles that will separate through normal handling), radioactivity in a representative sample which exceeds the limits of 10 CFR 20 Appendix B, Table II, Column 2.

4. For heavy water (deuterium oxide), radioactivity which exceeds the limits of 10 CFR 20, Appendix B, Table II.

C. Instrumentation

Alpha surface contamination shall be measured using a Ludlum 3/43-5 instrument calibrated with an americium-241 source or plutonium-239 source, or equivalent as approved by Bettis.

Beta-gamma surface contamination shall be measured using an Eberline E-120 survey meter with an HP-210 probe calibrated with a technetium-99 source, cesium-137 source, or equivalent as approved by Bettis.

D. Survey Techniques

Alpha direct probe readings shall be taken in light contact. Pause at each survey point for a minimum of five seconds. Slowly scan between survey points. For portable alpha survey instruments, identified in Section C above, when indications are less than 2X the acceptable limit for alpha contamination, then base the activity levels on the frequency of audible clicks. The amount of activity detected per audible click is dependent on the type of instrument used and shall be determined by the Seller.

Beta-gamma direct probe readings shall be taken at a maximum scan rate of one to two inches per second and at a distance of not more than 1/2 inch from the item being surveyed.

Swipe measurements should be obtained from an area of 100 cm^2 when and where possible. An "s-shaped" pattern should be used to cover this area. If the area being swiped is less than 100 cm^2, swipe the entire area. Swipes should be 2-inch diameter Whatman-1 or Whatman-2 filter paper.

Swipes shall be counted using the survey meters identified in C above or with a Tennelec LB5100 automatic alpha/beta counting system.

E. Equivalent Instruments and Techniques

Instrumentation and probes of greater or equal sensitivity than those specified above may be substituted provided that they are calibrated and used in a manner which is acceptable and approved in accordance with radiological procedures of the Seller.

APPENDIX B TO
FORM 75302
10/91

RADIOACTIVE MATERIAL RECEIPT VERIFICATION REQUEST

From: Date _____

Bettis Atomic Power Laboratory
Post Office Box 79
West Mifflin, PA 15122-0079

☐ RETURN EMPTY CONTAINER(S) TO BETTIS ADDRESS.

To:

☐ DO NOT RETURN CONTAINER(S). REMOVE BETTIS ADDRESS LABEL AND "RADIOACTIVE" MARKINGS, IF ANY, PRIOR TO DISPOSAL.

The following radioactive material shipment was shipped to your site on _____ (date):

Shipment Identification _____
Number of Containers _____
Proper Shipping Name _____
Material Description _____
Principal Radionuclide(s) _____
Activity _____
Carrier _____
Estimated Arrival Date _____

You are requested to complete the receipt and return it to the undersigned within two weeks after shipment arrival.

You are also requested to telephone the undersigned upon receipt of the shipment or if the shipment has not arrived within one day after the Estimated Arrival Date. If the shipment still has not arrived within four days after the Estimated Arrival Date, you are requested to immediately confirm this to Bettis by receipted registered mail.

Name _____ _____
Phone _____ Signature Date

VERIFICATION OF RECEIPT

I verify that the material described above was received at this site on _____(date) and that this site is authorized to receive this material by one of the following:

☐ NAVSEA Notice 9210 Ser 08R-1875
☐ NRC/Agreement State License Number
☐ DOE Contract Number

Signature _____ Date

Name_____ Title

FORM 75494

(PLEASE PRINT OR TYPE ALL INFORMATION)

SHIPMENT DATA SHEET

See reverse side for explanation		Signature and Date
1. Shipment or Purchase Order Number		
2. Physical Description of Primary Container		
3. Description of Material		
4. Item Identification (if applicable)		
5. Fuel Lot Number		
6. Values for Primary Container of Item		
6A. Gross Weight 6B. Tare Weight 6C. New Weight 6D. Element Percent Chemistry Data 6E. Element Weight 6F. Isotope Percent and Chemistry Data 6G. Isotope Weight		
7. Primary Container Seal Number		
8. Secondary Container ID, Seal No., Gross Weight (if applicable)		
9. Shipping Container ID, Seal No., Gross Weight		
10. Radiological Survey Report – Confirm Attached to Outside of Container		
11. Packing List – Place on Shipping Container and Mark on Outside of Container “Packing List Enclosed”		
Comments:		

1. **Shipment or Purchase Order No.**: Self-explanatory.

2. **Physical Description of Primary Container**: Shape, physical dimensions, and identification.

3. **Description of Material**: Composition including type (uranium-235, uranium-233, Pu, etc.) and form (solution, powder solid, etc.).

4. **Item Identification (if applicable)**: Elements, specimens, etc. engraved with serial number (go to 6C and continue data if item is not packaged in primary container).

5. **Fuel Lot Number**: Self-explanatory.

6. **Values for Primary Container Or Item**

   A. **Gross Weight**: Total weight (nearest hundredth gram) of container including can, contents, packaging material labels, seals, etc.

   B. **Tare Weight**: Weight of empty container plus any labels, seals and wrappings that are attached.

   C. **Net Weight**: Weight (nearest hundredth gram) of a quantity of a particular form of nuclear material.

   D. **Element Percent and Chemistry Data**: Confirm chemistry data is included.

   E. **Element Weight**: Total amount of U, Th, Pu, etc. isotope weights (nearest hundredth gram) in material or total amount of accountable isotopic weights (nearest hundredth gram) in material.

   F. **Isotope Percent and Chemistry Data**: Confirm chemistry data is included.

   G. **Isotope Weight**: Total amount of isotopic weight (nearest hundredth gram) in total element weight (nearest hundredth gram).

7. **Primary Container Seal Number**: Self-explanatory.

8. **Secondary Container Identification, Seal Number, Gross, Net, and Tare Weight**: To be completed only if applicable.

9. **Shipping Container Identification, Seal Number, Gross Weight**: Self-explanatory.

10. **Radiological Survey Report**: Self-explanatory.

11. **Packing List**: Self-explanatory.