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NAVAL SUPPLY SYSTEMS COMMAND
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NAVSUPINST 4600.88A
NOLSC N43
27 March 2007

NAVSUP INSTRUCTION 4600.88A

Subj: POLICIES AND PROCEDURES FOR SHIPPING NAVY RADIOACTIVE SOURCE-BEARING RADIATION DETECTION, INDICATION AND COMPUTATION (RADIAC) EQUIPMENT

Ref: (a) Policies and Procedures Manual Radiation Detection, Indication and Computation (RADIAC), Navy RADIAC Program Users Manual SE700-AA-MAN-100
(b) Defense Transportation Regulation (DTR), Part II, Cargo Movement
(c) NAVSUP PUB 505/AFMAN 24-204(I)/DLAM 4145.3/TM 38-250/MCO P4030.19, Preparing Hazardous Materials for Military Air Shipments
(d) International Air Transport Association (IATA), Dangerous Goods Regulations
(e) Code of Federal Regulations Title (CFR) 49, Parts 100-185, Transportation via Rail, Air Highway or Water
(f) NAVSUP PUB 485, Naval Supply Procedures
(g) NAVSUPINST 4030.55B/AFJI 24-210/DLAD 4145.41/AR 700-143/MCO 4030.40B, Packaging of Hazardous Material
(h) NAVSUPINST 4630.22, Airlift of Navy Funded/Sponsored Material (Series)

Encl: (1) Policies and Procedures for Shipping Navy Source-Bearing RADIAC Equipment
(2) Navy RADIAC Calibration Laboratories' Shipping Addresses and Phone Numbers
(3) Navy/DLA Designated Transportation Offices and Qualified Naval Nuclear Capable Maintenance Activity Shipping Points of Contact
(4) Sample Completed DD Form 1149s
(5) Shipment Checklists
(6) Transportation Examples
(7) RADIAC Equipment Custody and Shipment Form
(8) Signature and Tally Record Form
(9) Sample of Radioactive Label

1. Purpose. To provide policy and procedures for the documentation and shipment of Navy radioactive source-bearing RADIAC equipment. This instruction has been revised and must be read in its entirety.

0526-LD-106-2666

2. Cancellation. NAVSUP Instruction 4600.88 dated 27 April 2005, Subj: Policies and Procedures for Shipping Navy Radioactive Source-Bearing Radiation Detection, Indication and Computation (RADIAC) Equipment.

3. Scope

a. This instruction applies to the shipment of all Navy Source-Bearing RADIAC (SBR) equipment. This includes all Navy RADIAC program-owned equipment with radioactive check sources and all RADIAC program radioactive calibration source kits provided to holders of an authorized RADIAC allowance per reference (a) and RADIAC equipment whose custody has been permanently transferred to the Naval Nuclear Propulsion Program.

b. This instruction provides specific shipment guidance to all mobile units and shore activities for the transportation of Navy SBRs.

4. Background

a. SBRs include attached radioactive check sources used to verify that equipment responds properly to radiation or radioactivity. Both Nuclear Regulatory Commission (NRC) licensed quantity and NRC-exempt quantity radioactive materials are used in RADIACs. Reference (a) identifies RADIAC equipment with radioactive check sources. These sources are further classified in enclosure (1) as excepted packages--limited quantity radioactive materials or non-regulated (non-hazardous for transportation purposes). See reference (a) for a complete listing of SBRs.

b. SBRs require accountability during transportation to and from RADIAC allowance holders and the activities in enclosures (2) and (3). This is due to a limited quantity of hazardous material and because of their importance to the war fighter for radiation safety purposes. Personnel supporting transportation of SBRs must be properly trained to ensure protection of the public from exposure risks. SBRs routinely require short-cycle calibration (e.g., 6 months); therefore, their transportation must be monitored to ensure delivery at final destination to support operational commitments.

c. Reference (a) addresses the policies and procedures for obtaining, maintaining, accounting for, shipping and turning in SBR equipment. Reference (b) provides Department of Defense (DOD) guidance and procedures for cargo movement including hazardous materials and identifies Department of Defense (DOD) schools that provide hazardous materials training and qualifications for shippers. Reference (c) provides guidance

and procedures for preparing hazardous materials for military air shipments. Reference (d) addresses the transportation of hazardous materials aboard commercial aircraft. Reference (e) addresses the commercial transportation of hazardous materials. Reference (f) addresses naval supply procedures. Reference (g) provides specific requirements for packaging hazardous material. Reference (h) sets requirements and procedures for booking material on Air Mobility Command (AMC) flights.

d. Naval nuclear capable maintenance activities and shipyards have extensive training and experience in shipping Navy cognizant radioactive material per established local instructions. Naval nuclear capable maintenance activities and shipyards have the option to ship SBRs following their radioactive material shipping procedures as an alternative to these instructions. Mobile units with local naval nuclear capable maintenance activity or shipyard support (such as a Nuclear Regional Maintenance Department) may request the maintenance activity or shipyard to ship SBRs as an alternative to these instructions. Those maintenance activity points of contact are listed in enclosure (3).

e. Enclosure (4) contains two examples of properly completed DD Form 1149s. Enclosure (5) contains three shipment checklists (shipper, Transportation Officer (T.O.) and consignee). Enclosure (6) provides a chronological summary of a few key transportation examples. Enclosure (7) is the RADIAC Equipment Custody and Shipment Form. Enclosure (8) is the Signature and Tally Record Form. Enclosure (9) is new Radioactive Material - Excepted Package label required as of 1 January 2007 for commercial air shipments, per reference (d).

5. Action. All shippers and T.O.s must follow the policies and procedures for shipping Navy SBRs in enclosure (1).



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POLICIES AND PROCEDURES FOR SHIPPING NAVY
SOURCE-BEARING RADIAC (SBR) EQUIPMENT

1. GENERAL

a. Naval nuclear capable maintenance activities and shipyards have extensive training and experience in shipping Navy cognizant radioactive material per established local instructions. Naval nuclear capable maintenance activities and shipyards have the option to ship SBRs following their radioactive material shipping requirements as an alternative to these instructions. Mobile units with local naval nuclear capable maintenance activity or shipyard support (such as a Nuclear Regional Maintenance Department) may request the maintenance activity or shipyard to ship SBRs as an alternative to these instructions. Those maintenance activity points of contact are listed in enclosure (3).

b. Navy RADIAC program SBRs are classified as either regulated as Excepted Packages containing Class 7 (Radioactive) material or non-regulated (non-hazardous) as determined in Table 1 below. Per references (d) and (e), shipments of SBRs must be processed under U.S. Department of Transportation (DOT) Hazardous Material Regulations if the total activity being shipped exceeds the consignment limits in references (d) and (e). The consignment limit computation process is the basis for this enclosure. This enclosure also provides amplification of DOT and DOD guidance for Navy shipments.

c. All SBRs must be shipped to either authorized RADIAC allowance holders, licensed Navy/Defense Logistics Agency (DLA) activities or authorized Navy RADIAC Calibration Laboratories (RCLs) which are listed in enclosure (2). Do not permit any SBRs to be stored or housed at transshipment points. On base movements of SBRs including movements to/from ships at sea, must include a DD Form 1907, Signature and Tally Record or the RADIAC Equipment Custody and Shipment Form provided in enclosure (7) to ensure custody control and transfer.

d. Table 1 of this enclosure and paragraph d(2) (as shown below) shall be used to determine when SBRs being offered for shipment will be regulated (considered hazardous) by DOT, DOD, and other applicable modal transportation regulatory requirements. Note, for other than shipping purposes, SBRs are regulated (considered hazardous) by the applicable Navy policy and guidance as provided in reference (a) and RADIAC Allowance Holders shall comply with that guidance which is unaffected by Table 1. The table includes a ship as Class 7 column. The ship as Class 7 column answers whether an individual instrument is regulated as Class 7 hazardous material for transportation

purposes. If the ship as Class 7 column is "No," the "Notes" column shows the number of a particular SBR model shipped together in a single shipment that would be regulated (hazardous) for transportation purposes. Any number of instruments below that number, for a particular SBR model, may be shipped as general cargo (not regulated/not hazardous) and shall follow the procedure of this instruction for non-regulated (non-hazardous) shipment. For any mixed model shipments, the shipper shall calculate the sum of the individual consignment values and follow the example in paragraph d(2) for sum of the fractions. On any shipment, if consignment value exceeds 1.00 then the shipment shall be a DOT regulated (hazardous) shipment and follow the guidance provided in paragraph 1e below.

(1) If the total DOT Consignment Limit in Table 1 is less than 1.00 and the number consigned for a particular model is less than the number shown in the notes column then the shipment may be shipped as general cargo with the additional requirements found in (a), (b) and (c) below:

(a) The following statement shall be included on the DD Form 1149, Bill of Lading or the shipping papers: "This shipment contains a small amount of radioactivity in a quantity not regulated under U.S. DOT Hazardous Material Regulation. Radiological controls may be required when unpacking to comply with local requirements. Contact (fill in shipping T.O.'s activity and phone number here) or Naval Operational Logistics Support Center (NOLSC) 757-443-5407/5305 DSN 646 DSN from OCONUS 312-646-5407/5305. Do not ship by U.S. mail." See enclosure (4) for an example of a properly filled out form DD Form 1149 for a non-regulated (non-hazardous) SBR shipment.

(b) The SBR shall be in its carrying case and inside another container (e.g., fiberboard box, wood box, drum, etc.) or alternatively, it may be wrapped with brown paper or otherwise placed within a package so that any radioactive material labels located on the SBR case are not visible during transportation.

(c) When the non-regulated (non-hazardous) SBR is received at the final destination, the RADIAC Allowance Holder shall update local custody control logs and inventories to document the transfer of material to the RCL or other RADIAC Allowance Holder as applicable. Other local command requirements to receive SBR (regulated (hazardous)) or non-regulated (non-hazardous) shall be met.

Table 1. DOT Consignment Values for RADIACs.

Model Number	NIIN	Isotope	Max Activity per Instrument	Consignment Value (Note a)	Ship as Class 7 (Note b)	Notes
2000 AB (TLD Reader Sys)	01-024-8063	C-14	111 kBq (3 µCi)	0.011	No*	*If < 91
492C (Gamma Alarm)	01-431-5655	Cs-137	333 kBq (9 µCi)	33.333	Yes	
AN/PDR-43B (High Survey Meter)	00-474-4186	Kr-85	2.96 MBq (80 µCi)	296.296	Yes	
AN/PDR-43C (High Survey Meter)	00-560-7241	Kr-85	2.96 MBq (80 µCi)	296.296	Yes	
AN/PDR-43D (High Survey Meter)	00-738-5867	Kr-85	2.96 MBq (80 µCi)	296.296	Yes	
AN/PDR-43E (High Survey Meter)	00-106-7554	Kr-85	3.7 MBq (100 µCi)	370.370	Yes	
AN/PDR-43F (High Survey Meter)	01-116-7260	Kr-85	2.96 MBq (80 µCi)	296.296	Yes	
AN/PDR-43G (High Survey Meter)	01-209-5447	Kr-85	3.7 MBq (100 µCi)	370.370	Yes	
AN/PDR-45B (w/o Field Change 1) (High Survey Meter)	00-023-1820	Kr-85	740 kBq (20 µCi)	74.074	Yes	
AN/PDR-45B (w/ Field Change 1) (High Survey Meter)	00-023-1820	Kr-85	3.7 MBq (100 µCi)	370.370	Yes	
AN/PDR-45C (w/o Field Change 1) (High Survey Meter)	00-903-0980	Kr-85	740 kBq (20 µCi)	74.074	Yes	
AN/PDR-45C (w/ Field Change 1) (High Survey Meter)	00-903-0980	Kr-85	3.7 MBq (100 µCi)	370.370	Yes	
AN/PDR-45D (w/o Field Change 1) (High Survey Meter)	00-949-3295	Kr-85	5.55 MBq (150 µCi)	555.556	Yes	
AN/PDR-45D (w/ Field Change 1) (High Survey Meter)	00-949-3295	Kr-85	3.7 MBq (100 µCi)	370.370	Yes	
AN/PDR-45E (w/o Field Change 2) (High Survey Meter)	01-046-6332	Kr-85	6.66 MBq (180 µCi)	666.667	Yes	
AN/PDR-45E (w/ Field Change 2) (High Survey Meter)	01-046-6332	Kr-85	3.7 MBq (100 µCi)	370.370	Yes	
AN/PDR-45F (w/o Field Change 1) (High Survey Meter)	01-302-7902	Kr-85	6.66 MBq (180 µCi)	666.667	Yes	
AN/PDR-45F (w/ Field Change 1) (High Survey Meter)	01-302-7902	Kr-85	3.7 MBq (100 µCi)	370.370	Yes	
AN/PDRG (High Survey Meter)	01-428-9191	Kr-85	3.7 MBq (100 µCi)	370.370	Yes	
AN/PDR-56A (Alpha Survey Mtr)	00-086-8060	Th-232	118.4 kBq (3.2 µCi)	11.852	Yes	
AN/PDR-56B (Alpha Survey Mtr)	00-078-5657	Th-232	44.4 kBq (1.2 µCi)	4.444	Yes	
AN/PDR-56C (Alpha Survey Mtr)	00-759-5645	Th-232	118.4 kBq (3.2 µCi)	11.852	Yes	
AN/PDR-56D (Alpha Survey Mtr)	00-053-3391	Th-232	118.4 kBq (3.2 µCi)	11.852	Yes	
AN/PDR-56E (Alpha Survey Mtr)	00-211-6895	Th-232	18.5 kBq (0.5 µCi)	1.852	Yes	
AN/PDR-56G (Alpha Survey Mtr)	01-016-8267	Th-232	18.5 kBq (0.5 µCi)	1.852	Yes	
AN/PDR-56H (Alpha Survey Mtr)	01-161-5407	Th-232	11.1 kBq (0.3 µCi)	1.111	Yes	
AN/PDR-71 (Special Survey Mtr)	00-136-5401	Cs-137	22.2 kBq (0.6 µCi)	2.222	Yes	
AN/PDR-71A (Special Survey Mtr)	01-446-4585	Cs-137	22.2 kBq (0.6 µCi)	2.222	Yes	
AN/PDR-78 (Underwater RADIAC)	n/a	Co-60	18.5 kBq (0.5 µCi)	0.185	No*	*If < 6
BZ-216/UD (Gamma Alarm)	00-134-3483	Cs-137	29.6 kBq (0.8 µCi)	2.963	Yes	

CL-1 Cylinder (Calibrator Subassembly)	00-431-0392	H-3	8.88 MBq (240 µCi)	0.009	No*	*If<113
COBALT 60/MX-10750 (LUNG PHANTOM)	00-291-8549	Co-60 (2 ea)	3.7 kBq (0.1 µCi)	0.037	No*	*If <27
CP-1112/PD (CaF TLD Reader)	00-139-5811	C-14	925 kBq (25 µCi)	0.093	No*	*If <11
CP-1978/PD (LiF TLD Reader)	01-325-9658	C-14	18.5 kBq (0.5 µCi)	0.002	No*	*If <541
IM-231/PD (Radiography Meter)	00-140-1570	C-14	925 kBq (25 µCi)	0.093	No*	*If <11
IM-231A/PD (w/o Field Change 2) (Radiography Meter)	01-166-6999	Cs-137	296 kBq (8 µCi)	29.630	Yes*	(Note h)
IM-231B/PD (w/o Field Change 2) (Radiography Meter)	01-217-7764	Cs-137	296 kBq (8 µCi)	29.630	Yes*	(Note h)
IM-231C/PD (w/o Field Change 2) (Radiography Meter)	01-312-4406	Cs-137	296 kBq (8 µCi)	29.630	Yes*	(Note h)
IM-239/WDQ (Air Particle Detector)	01-164-9938	Tc-99	7.4 kBq (0.2 µCi)	0.001	No*	*If<1350
IM-247/PD (Frisker RADIAC Set)	01-191-0300	Tc-99	16.65 Bq (450 pCi)	0.000002	No*	*If<600k
IM-247A/PD (Frisker RADIAC Set)	01-217-7765	Tc-99	16.65 Bq (450 pCi)	0.000002	No*	*If<600k
IM-247B/PD (Frisker RADIAC Set)	01-281-9638	Tc-99	16.65 Bq (450 pCi)	0.000002	No*	*If<600k
IM-249/PD (Frisker RADIAC Set)	01-069-2053	Tc-99	16.65 Bq (450 pCi)	0.000002	No*	*If<600k
IM-249A/PD (Frisker RADIAC Set)	01-217-7653	Tc-99	16.65 Bq (450 pCi)	0.000002	No*	*If<600k
IM-249D/PD (Frisker RADIAC Set)	01-422-9249	Tc-99	16.65 Bq (450 pCi)	0.000002	No*	*If<600k
IM-253/SOURCE SET	n/a	Co-60	37 kBq (1 µCi)	0.370	No*	*If<2 (Note c)
		Ba-133	37 kBq (1 µCi)	0.037		
		Cd-109	370 kBq (10 µCi)	0.370		
		Na-22	37 kBq (1 µCi)	0.037		
IM-254/PD (Frisker RADIAC Set)	01-230-3271	Tc-99	16.65 Bq (450 pCi)	0.000002	No*	*If<600k
IM-254A/PD (Frisker RADIAC Set)	01-230-3270	Tc-99	16.65 Bq (450 pCi)	0.000002	No*	*If<600k
MX-11766/U	n/a	Cs-137	296 kBq (8.0 uCi)	29.600	Yes*	
		Th-230	740 Bq (0.02 uCi)	0.074		
MX-12132/S; MX-12133/S; MX-12134/S; MX-12135/S MX-12240/S (MFR Source Kit)	n/a	Cs-137	296 kBq 8.0 uCi	29.600	Yes*	(Note f)
		Tc-99	16.65 Bq 450 pCi	0.000002		
		Th-230	740 Bq 0.02 uCi	0.074		
MX-2323/UD (RADIAC Test Sample)	01-475-2305	Sr/Y-90 (6 ea)	555 Bq (.015 µCi)	0.056	No*	*If<18
MX-MASS MCA SOURCE SET	01-004-1491	Co-60	3.7 kBq (0.1 µCi)	0.037	No*	*If<3 (Notes d and e)
		Ba-133	3.7 kBq (0.1 µCi)	0.004		
		Co-60/Cs-137	3.7 kBq (0.1 µCi)	0.370		
		Na-22	3.7 kBq (0.1 µCi)	0.004		
TS-1189/PD (plain model)	01-679-0278	Cs-137	25.9 MBq (700 µCi)	2592.593	Yes*	Note g
TS-1189B/ PD (Cs Check Source)	00-461-1461	Cs-137	27.75 MBq (750 µCi)	2777.778	Yes*	Note g
TS-1189C/PD (Cs Check Source)	01-018-2875	Cs-137	25.9 MBq (700 µCi)	2592.593	Yes*	Note g
TS-1189D/PD (Cs Check Source)	01-196-7761	Cs-137	27.75 MBq (750 µCi)	2777.778	Yes*	Note g

Notes:

a. The Consignment Value is determined by dividing the Max Activity per Instrument by the applicable DOT Consignment Limit listed in reference (e).

- b. If Yes, ship as Radioactive Material, Excepted Package - Limited Quantity of Material, 7, UN2910.
- c. The calculated Consignment Value for the IM-253/Source Set is: $0.370 + 0.037 + 0.370 + 0.037 = 0.814$, which should be rounded up to 0.82 (sum of fractions), which is < 1.00 .
- d. The Consignment Value for Cs-137 was conservatively used for the MX-Mass MCA Source Set since it is more limiting.
- e. The calculated Consignment Value for the MX-Mass MCA Source Set is: $0.037 + 0.004 + 0.370 + 0.004 = 0.415$, which should be rounded up to 0.42 (sum of fractions), which is < 1.00 .
- f. The MX-12132/S, MX-12133/S, MX-12134/S, MX-12135/S, and MX-12240/S contain different combinations of the three listed sources. However, each contains a 300 kBq Cs-137 source and therefore must be regulated.
- g. TS-1189()/PDs Sources require special shipping containers for shipping. Contact the RCL at LANTORDCOM Yorktown for a shipping container as directed by reference (a).
- h. IM-231 models A, B, and C with field change 2 installed (for all models) have had the radioactive check sources removed. Ship as non-SBR, i.e. general cargo. New NIINs for field change 2 instruments are as follows: IM-231 A/PD (FC-2) is 01-542-3224; IM-231 B/PD (FC-2) is 01-542-3223; IM-231 C/PD (FC-2) is 01-542-3221.

(2) When shipping SBRs of different model types within the same shipment, determine if the shipment shall be regulated (hazardous) by summing the DOT consignment values. Then, round up to the nearest 100th. If the resulting sum is less than 1.00, the shipment is not regulated (not hazardous) for transportation. See the below example.

Example: A shipper is attempting to ship four CP-1112/PD, two AN/PDR-78 and three IM-247()/PD SBRs. By referring to Table 1, the shipper determines the following:

CP-1112/PD: $4 * 0.093 = 0.372$
AN/PDR-78: $2 * 0.185 = 0.370$
IM-247/PD: $3 * 0.00002 = 0.000006$

Total = $0.372 + 0.370 + 0.000006 = 0.742006$

Round up to nearest 100th = 0.75

Therefore, since the total is < 1.00 , the shipment is not regulated (not hazardous) by U.S. DOT Hazardous Material Regulations.

e. Shipments of SBRs with a consignment value that exceeds the DOT consignment limit of 1.00 under consignment value column in Table 1, or the sum of the consignment values as determined using the methodology in paragraph d(2) exceeds 1.00, are classified as regulated as Excepted Packages containing Class 7 (Radioactive) material and must be shipped per the regulations of 49 CFR (reference (e)) when transported within CONUS. Excepted package shipments do not require a Shippers Declaration for Dangerous Goods per references (c), (d) and (e). For shipments transported via military air, material must be shipped per reference (c). For shipments transported via commercial air (CONUS only), material must be shipped per reference (d).

f. All personnel involved with the preparation and transportation of regulated (hazardous) SBR equipment must be trained per reference (b), Chapter 204, regarding general awareness, function-specific, safety and security requirements associated with hazardous material. When military air is selected as the mode of transportation, personnel must be trained per reference (c).

2. SHIPPER'S RESPONSIBILITIES

a. The shipper is defined as the activity originating the shipment. RCLs or RADIAC allowance holders originate RADIAC shipments. The shipper performs these functions: planning, assembling, consolidating, documenting and arranging material movement to a designated T.O. when shipping SBRs. The T.O. arranges shipment to final destination. The shipper may also have qualified surrogates, as detailed in paragraph 1a, perform a portion of the shipper's responsibility. The shipper's primary responsibility is to properly identify (per Table 1) and present (per this instruction) the SBR to the T.O. Use the shipper's checklist in enclosure (5) to help ensure all shipper's responsibilities are met.

b. Do not ship any SBRs with radioactive check sources that are suspected of leaking until the RADIAC Program Radiation Safety Officer, Naval Sea Systems Command (NAVSEA) 04LR, has been contacted for resolution per reference (a).

c. The shipper must complete a DD Form 1149, Requisition and Invoice/Shipping Document to initiate the transportation process for any SBR. The DD Form 1149, Requisition and Invoice/Shipping Document must be prepared per reference (f) and as follows:

(1) Include the NSN or NIIN, model type, serial number and quantity of each SBR.

(2) Identify the radionuclide(s), maximum activity per instrument in Becquerel (Bq) and Curies (Ci) from Table 1, and physical or chemical form (see note below) for regulated shipments per reference (a).

(3) Complete Blocks 1, 2, 3, 4, 7, 8, 9 and include statements as follows:

- Block 1. From. Your activity address including DODAAC.
- Block 2. To. Your local T.O. listed in enclosure (3) including DODAAC.
- Block 3. Ship To - Mark For. Include the complete shipping address for the RADIAC allowance holder (include DODAAC) or RCL where the RADIAC is to be shipped. See enclosure (2) for complete shipping addresses and points of contact for the CONUS/OCONUS Navy RCLs.
- Block 4. Appropriations Data.
 - For SBRs with Navy Dual Cognizance Codes (COG) 6D or 7H, use Transportation Account Code (TAC) N141.
 - For SBRs with COG 1H, use TAC N901.
- Block 6. Requisition/Document number required. Local Supply Department will provide this number. It consists of a service designator (first letter), UIC, julian date, and a serial number (four alpha or numeric). The serial numbers are uniquely assigned to a department/division in order to maintain a record of shipment and receipt.
- Block 7. Date Material Required. Use 999. This permits air shipment. Do not leave this block blank.
- Block 8. Priority. Use Transportation Priority 1.
- Block 9. Authority or Purpose. Use "NAVSUPINST 4600.88A, POLICIES AND PROCEDURES FOR SHIPPING NAVY RADIOACTIVE SOURCE-BEARING RADIAC EQUIPMENT"
- Include at top of National Stock Number, Description Section if shipping a regulated (hazardous) SBR shipment:

"RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - LIMITED QUANTITY OF MATERIAL, 7, UN2910. RADIOLOGICAL CONTROLS MAY BE REQUIRED WHEN UNPACKING TO COMPLY WITH LOCAL REQUIREMENTS. CONTACT (fill in shipping T.O.'s activity and phone number here) or NOLSC 757-443-5407/5305 DSN 646 DSN FROM OCONUS 312-646-5407/5305. DO NOT SHIP BY U.S. MAIL."

Or, if shipping a non-regulated (non-hazardous) SBR shipment:

"THIS SHIPMENT CONTAINS A SMALL AMOUNT OF RADIOACTIVITY IN A QUANTITY NOT REGULATED UNDER U.S. DOT HAZARDOUS MATERIAL REGULATIONS. RADIOLOGICAL CONTROLS MAY BE REQUIRED WHEN UNPACKING TO COMPLY WITH LOCAL REQUIREMENTS. CONTACT (fill in shipping T.O.'s activity and phone number here) or NOLSC 757-443-5407/5305 DSN 646 DSN FROM OCONUS 312-646-5407/5305. DO NOT SHIP BY U.S. MAIL."

Include total weight and activity per sample in enclosure (4).

- Block 17. Enter "Code Y (Signature Service) requested."

Note: All regulated (hazardous) shipments must annotate hazardous isotope's physical or chemical form. For all RADIAC shipments the form will be "solid oxide" except for those AN/PDR 43 (series) and AN/PDR 45 (series) instrument in Table 1; i.e., with isotope "Kr-85" which are in "gas" form.

Enclosure (4) has an example of a completed DD Form 1149 for both a regulated (hazardous) and non-regulated (non-hazardous) SBR shipment.

d. Afloat Commands. RADIAC allowance holding personnel must properly identify and provide (per Table 1) the SBRs to the ship's supply department who will act as the shipper. The RADIAC allowance holders shall ensure the package has had a radiological survey performed by the shipboard Radiation Safety Officer. The supply department will complete the DD Form 1149 (with information provided by the RADIAC allowance holder) and arrange to off-load the SBRs for forwarding to a Navy or DLA T.O. (See enclosure (3).) The ship's supply officer will utilize best method of transport in keeping with material control officer and applicable Fleet commander guidance when the ship is in port or underway for movement to the local T.O. The Navy/DLA T.O. will process the shipment for delivery to final destination (consignee).

e. Shore Activities Including RCLs. Shippers must properly identify and provide (per Table 1) the regulated (hazardous) SBRs and a completed DD Form 1149 to the Navy or DLA T.O. (See enclosure (3).) If SBRs are not regulated (not hazardous), shippers may contact either a qualified naval nuclear capable maintenance activity listed in enclosure (3) or a Navy/DLA T.O. When using a T.O., shippers must consult the T.O. for local procedures on pick-up or drop off of regulated SBRs. The Navy/DLA T.O. will process the shipment for delivery to final destination (consignee).

f. On-base Movements Including Movements from Ships at Sea. Movements from RCLs or RADIAC allowance holders to T.O.s must be accompanied by a DD Form 1907, Signature and Tally Record or the RADIAC Equipment Custody and Shipment Form (see enclosures (7) and (8)) which ensures face-to-face custody transfer and positive control and accountability. The DD Form 1907, Signature and Tally Record, found in reference (b), must be filled out as follows:

- (1) (a) Shipper name
(b) Origin (address)
- (2) Not applicable
- (3) Not applicable
- (4) (a) Consignee name
(b) Final Destination (address)
- (5) Not applicable
- (6) Transportation Control Number (TCN)
- (7) T.O.'s location (address)
- (8) Weight
- (9) Cube (or length (inches) x width (inches) x height (inches))
- (10) Special instructions, if applicable
- (11) Date shipment tendered to carrier (or government rep) (YYYYMMDD)
- (12) Name of on-base means to move shipment including Underway Replenishment (UNREP), Carrier Onboard Delivery (COD), e.g., PWC truck, local delivery carrier, command vehicle, supply ship, etc.

- (13) Number of pieces
- (14) Type of package(s) (box, fiberboard carton or RADIAC case)
- (15) List each SBR by model and serial number
- (16) (a) Print name of person and command/company represented.
 - (b) Station Interchange Point/On-base Destination.
 - (c) Signature of Person Accepting Custody.
 - (d) Time Accepted.
 - (e) Date Accepted (YYYYMMDD).

g. On base or on installation movement between a shipper and transportation office takes place within the confines of a military installation when the movement takes place in areas not open to public access. This most often occurs when Navy ships on port call or in overhaul at a military installation must carry RADIAC equipment to an on-site collection point such as a Nuclear Regional Maintenance Department (NRMD) or collocated RCL. Reference (b), Chapter 204, details requirements applicable to on installation movement and must be followed for movements of regulated (hazardous) SBRs. All SBRs are categorized as limited quantity excepted package and therefore the specific requirement for a Commercial Drivers License (CDL) per Chapter 204 of DOD 4500.9-R (DTR) is not required for transporting Navy SBRs during on installation movement.

h. If no receipt is received from the final destination (consignee) within 30 days of providing any SBR to a T.O., then contact the T.O. for tracking and tracing of the SBR shipment.

3. PACKAGING REQUIREMENTS FOR SHIPPING

a. All SBRs (regulated and non-regulated) shall be packed inside their carrying cases and another container (e.g., fiberboard box, wood box, drum, etc.) or alternatively, SBRs inside their carrying cases may be wrapped with brown paper or otherwise placed within a package so that any radioactive material labels located on the SBR case are not visible during transportation.

b. Packaging of regulated (hazardous) SBRs must also comply with the requirements of the applicable modal regulation (references (c), (d), or (e)). In addition, the requirements of references (b) and (g) must be met as determined by a qualified HAZMAT inspector.

c. Regulated (hazardous) SBRs must also comply with the marking and labeling requirements of the applicable modal regulation (references (c), (d), or (e)). All commercial air shipments must have "Radioactive" marking on inside of shipping package and a Radioactive Material - Excepted package label applied per reference (d) to the exterior of the packaging or overpack. All truck movements must have marking of "UN2910" and "Radioactive" on outside of interior (carrying case covering or fiberboard box) packaging and on exterior of the shipping packaging. See illustration of applicable label in reference (d), Section 10, Figure 10.7.8.A or applicable illustration enclosure (9).

4. TRANSPORTATION OFFICER'S (T.O.'S) RESPONSIBILITIES

a. T.O. is defined as the person appointed to perform traffic management functions, i.e., the person/official at an activity that is a designated transportation office. See enclosure (3) for a list of Navy and DLA designated T.O.s who are capable of shipping SBRs.

b. SBRs being shipped by the T.O. shall be shipped per reference (b) and the below guidance based on origin and destination location. This includes making proper arrangements and/or notifications to meet international and foreign country requirements (found in the Foreign Clearance Guide <http://www.fcg.pentagon.mil>) as applicable to regulated (hazardous) and non-regulated (non-hazardous) SBRs. Do not ship any SBRs by U.S. Mail, Defense Postal Service or foreign postal service. A physical address (i.e., a building or street number, no post office boxes or Fleet Post Office (FPO) addresses) to identify the destination must be used. Use the T.O.'s checklist in enclosure (5) to help ensure all T.O.'s responsibilities are met.

c. The T.O. shall not combine any radioactive shipments without first checking Table 1 of this enclosure for the consignment value to determine whether the combined consignment value exceeds 1.00 and therefore becomes a regulated (hazardous) shipment per paragraph 1e above. The T.O. or, in case of deployed units, qualified shipboard personnel shall perform a radiological survey for contamination control of external surface of the package in accordance with 49 CFR 173.433.

d. The T.O. must arrange for on base pick-up of any SBRs from shipper or advise shipper of local drop off procedures for on installation movement. The T.O. may arrange a door-to-door shipment between the allowance holders and RCLs, i.e., via FedEx (CONUS only).

e. Do not use privately owned or rented vehicles for personal use to transport any SBRs. Use only commercial, military or government vehicles (including rented cargo vehicles) for transportation by highway. Drivers of these vehicles must comply with licensing and vehicle inspection requirements in reference (b) and as prescribed by the local T.O.

f. Do not ship any SBRs through an Advanced Traceability and Control (ATAC) Hub.

g. Do not permit any SBRs to become frustrated material at transshipment points.

h. CONUS* to CONUS Shipments. For regulated (hazardous) SBR shipments moving more than 100 miles, you must ship as general cargo "RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - LIMITED QUANTITY OF MATERIAL, 7, UN2910" via Federal Express (FedEx) using rates in the Government Services Administration (GSA) Small Package Express Contract. Also per reference (d), as of January 1, 2007, each package offered for air shipment must have a Radioactive Material - Excepted Package label and be marked on the outside with "UN2910." See paragraph 3c of this enclosure for modal marking and labeling requirements. A Shippers Declaration for Dangerous Goods is NOT required. This shipping method provides in transit visibility and traceability via the carrier's tracking number and guarantees door-to-door service. Each shipment may weigh no more than 150 pounds and have dimensions not greater than 108 inches in length or 130 inches in length and girth combined. For questions or assistance call FedEx Hotline: M-F (0700-2000 Central) 901-344-3000 or 1-800-463-3339 Press 81. Weekends and Holidays (0800-1630 Central) 1-888-288-3786.

*For purposes of shipments moved under the GSA Contract, CONUS is defined as the 48 contiguous states, Alaska, Hawaii, and Puerto Rico.

i. CONUS to OCONUS, OCONUS to CONUS and OCONUS to OCONUS Shipments. All SBRs (regulated/hazardous and non-regulated/non-hazardous) must be shipped via Air Mobility Command (AMC) and booked per reference (h). Do not route any SBR material to the FPO address. Annotate the Transportation Control and Movement Document (TCMD) for regulated (hazardous) SBRs with "RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - LIMITED QUANTITY OF MATERIAL, 7, UN2910" per reference (c). Also per reference (d), as of 1 January 2007, each package offered for air shipment must have a Radioactive Material - Excepted Package label and be marked on the outside with "UN2910." Use the shipping address assigned to your location listed in enclosure (2). Ensure material is shipped with Transportation Priority 1.

j. T.O. must send a Report of Shipment (REPSHIP) per this paragraph when any SBR is shipped.

(1) REPSHIPS should be sent via electronic means to:

- Shipper (consignor)
- Receiving activity (consignee)
- NAVICP Item Manager:
 - o Via fax to 717-605-3494 DSN 430-3494 or
 - o Via email to 0583 NAVMSG@navy.mil
 - o Via message to NAVICP MECHANICSBURG
PA//05834//

(2) Include this information in the REPSHIP:

- TCN
- Nomenclature
- Model Number
- Serial Number
- National Stock Number (NSN)
- Ship Date
- Estimated Date/Time of Arrival
- AMC Flight Number (if applicable/available)
- FedEx Tracking Number in lieu of TCN (when applicable).

k. The T.O. should monitor the shipment to ensure it reaches the proper destination and is received by the consignee. If a shipping discrepancy is noted during transportation or at destination, then the T.O. or consignee will create a Transportation Discrepancy Report (TDR) per reference (b) and send a copy to Naval Inventory Control Point (NAVICP) Mechanicsburg, Code 05834, and RADIAC Program Radiation Safety Officer, NAVSEA 04LR.

l. Questions concerning transportation should be directed to Naval Operational Logistics Support Center (NOLSC) Norfolk, Code N431G, 757-443-5407 (DSN 646) or DSN from OCONUS 312-646-5407, or the NOLSC Norfolk Duty Officer, 757-443-5305 (DSN 646) or DSN from OCONUS 312-646-5305, email at NOLSC_Duty_Officer@navy.mil.5.

5. CONSIGNEE'S RESPONSIBILITIES

a. Consignees are defined as the recipient (unit, activity) to whom the cargo is addressed or consigned for final delivery. RADIAC allowance holders and RCLs are authorized consignees for SBRs. Use the Consignee's checklist in enclosure (5) to help ensure all consignee's responsibilities are met.

b. Within 24 hours of receiving shipment, consignees must sign and date the DD Form 1149 and then send to shipper (consignor) as return receipt via fax or other electronic means.

c. If the SBR is damaged in shipment and/or short pieces, a TDR must be prepared per reference (b), Chapter 210. RCLs must contact the local T.O. to provide the necessary information for the T.O. to issue a TDR. The supply department onboard a ship should prepare the TDR. However, if assistance is needed, contact the local T.O.

d. During transportation, per reference (a), SBR custody remains with the RADIAC allowance holder (the user) until receipted by an RCL. Similarly, SBR custody remains with the RCL until receipted by a RADIAC allowance holder.

e. The RADIAC allowance holder must update local custody control logs and inventories to address the transfer of the material to the RCL and vice versa for a return shipment.

6. SHIPMENT CHECKLISTS AND TRANSPORTATION EXAMPLES

a. See enclosure (5) for shipment checklists (shipper, T.O. and consignee).

b. See enclosure (6) for a few transportation examples that illustrate the shipment process in chronological order. Example 1 is a carrier deployed overseas off the coast of Bahrain. Example 2 is a CONUS Test and Evaluation lab. Example 3 is a carrier home ported in Everett, Washington.

Navy RADIAC Calibration Laboratories' Shipping Addresses
and Phone Numbers

Geographic Region	RADIAC Calibration Laboratory (RCL)	RCL Code	Phone Number
Eastern Region			
Connecticut Maine Massachusetts New Hampshire New York Rhode Island	Commanding Officer Naval Submarine Support Facility New London Box 300, Attn: Code 775 RADIAC Groton, CT 06349-5300	NLJ	Commercial: 860-694-4760 DSN: 694-4760
Vermont			
Alabama Arkansas Florida Georgia Iowa Illinois Louisiana Minnesota Mississippi Missouri Oklahoma South Carolina Tennessee Texas Wisconsin	RADIAC Calibration Laboratory Building 1380 Naval Station Mayport Mayport, FL 32228-0087	MAJ	Commercial: 904-270-6177 ext 18 DSN: 960-6177 ext 18
Mid-Atlantic Region			
Delaware District of Columbia Indiana Kentucky New Jersey	Commanding Officer Navy Munitions Command CONUS EAST DIV Yorktown Attn: Code 2313 RADIAC Building 476, Bay 4, Door 44 Yorktown, VA 23691-0410	WAJ	Commercial: 757-887-4655 DSN: 953-4655

North Carolina Ohio Pennsylvania Virginia (Except Norfolk Naval Shipyard) West Virginia			
Virginia (Norfolk Naval Shipyard)	Commander Norfolk Naval Shipyard Building 510, Fourth Floor Attn: Code 952WP RADIAC Portsmouth, VA 23709-5000	NOJ	Commercial: 757-396-5312/4939 DSN: 961-5312
Western Region			
Alaska Idaho (Except NRF Idaho Falls) Oregon Washington	Commander Puget Sound Naval Shipyard and Intermediate Maintenance Facility 1400 Farragut Avenue, Building 431 Attn: Shop 52, Fifth Floor, RADIAC Bremerton, WA 98314-5001	PSJ	Commercial: 360-476-7860 ext 236 DSN: 439-7860
Idaho (NRF Idaho Falls)	Naval Reactors Facility RADIAC Calibration Laboratory P.O. Box 2068, MS-13 Idaho Falls, ID 83401	IFJ	Commercial: 208-533-5375/5461 DSN: N/A
Arizona California Colorado	Commanding Officer Puget Sound Naval Shipyard & IMF Det San Diego RADIAC Calibration Laboratory 1650 Cabrillo Memorial Dr. San Diego, CA 92106	SDJ	Commercial: 619-553-4846 DSN: 553-4846
Pacific Region			
Hawaii	Commander Pearl Harbor Naval Shipyard and Intermediate Maintenance Facility Attn: Code 952E RADIAC 667 Safeguard Street, Suite 100 Pearl Harbor, HI 96860-5033	PEJ	Commercial: 808-473-9067 DSN: 474-7215

OVERSEAS			
Africa/Middle East			
	Commanding Officer U.S. Naval Station Rota Spain Supply Department, Building 55 Attn: RADIAC/GEMD, Code RCL Rota, Spain 11530	ROJ	Commercial: 34-956-82-1450/2359 DSN: 314-727-1450/2359
Antarctica			
	Commander Pearl Harbor Naval Shipyard and Intermediate Maintenance Facility, Attn: Code 952E RADIAC 667 Safeguard Street, Suite 100 Pearl Harbor, HI 96860-5033	PEJ	Commercial: 808-474-7215 DSN: N/A
Atlantic Ocean			
Caribbean Cuba Puerto Rico	RADIAC Building 1380 Naval Station Mayport Mayport, FL 32228-0087	MAJ	Commercial: 904-270-6177 ext 18 DSN: 960-6177 ext 18
Indian Ocean			
Diego Garcia	Commander Pearl Harbor Naval Shipyard and Intermediate Maintenance Facility Attn Code 952E RADIAC 667 Safeguard Street, Suite 100 Pearl Harbor, HI 96860-5033	PEJ	Commercial: 808-473-9067 DSN: 474-7215
Mediterranean			
Europe (Except La Maddalena, Italy)	Commanding Officer U.S. Naval Station Rota Spain, Supply Department Building 55 Attn: RADIAC/GEMD, Code RCL Rota, Spain 11530	ROJ	Commercial: 34-956-82-1450/2359 DSN: 314-727-1450/2359

La Maddalena, Italy	NSA La Maddalena Via Principe Amedeo 3 Attn: USS EMORY S. LAND/RADIAC Calibration Lab 07024 La Maddalena Italy	ELJ	Commercial: 39-0789-798-062/7452 DSN: 314-623-8062
North Atlantic			
Iceland	Commanding Officer Navy Munitions Command CONUS EAST DIV Yorktown Attn: Code 213 RADIAC Building 476, Bay 4, Door 44 Yorktown, VA 23691-0410	WAJ	Commercial: 757-887-4655 DSN: 953-4655
Pacific Ocean			
Japan Korea	Commander Pearl Harbor Naval Shipyard and Intermediate Maintenance Facility Attn Code 952E RADIAC 667 Safeguard Street, Suite 100 Pearl Harbor, HI 96860-5033	PEJ	Commercial: 808-473-9067 DSN: 474-7215
Mariana Islands Guam	U. S. Naval Forces Marianas Support Activity Building 2118 Attn: USS Frank Cable/R5 Div/Shop 67F RADIAC Santa Rita Guam 96915	FCJ	Commercial: 671-339-6980 ext 7553 DSN: 315-339-6980
South Pacific			
Australia/New Zealand	Commander Pearl Harbor Naval Shipyard and Intermediate Maintenance Facility, Attn: Code 952E RADIAC 667 Safeguard Street, Suite 100 Pearl Harbor, HI 96860-5033	PEJ	Commercial: 808-473-9067 DSN: 474-7215

*Reference (a) is the authoritative source for RADIAC Calibration Laboratories.

Navy/DLA Designated Transportation Offices and Qualified Naval Nuclear
Capable Maintenance Activity Shipping Points of Contact

STATE/ACTIVITY NAME	DODAAC	PHONE NUMBER
ALABAMA		
Defense Distribution Depot Anniston Transportation Officer 7 Frankford Avenue, Building 362 Anniston, AL 36201-4199	SW3120	256-235-6031 DSN 571
CALIFORNIA		
Defense Distribution Depot Barstow, MCLB Warehouse 5, Door 16 Barstow, CA 92311-5050	SW3215	760-577-7698/7699 DSN 282
Naval Air Weapon Station China Lake Receiving Officer, Building 1023 China Lake, CA 93555-6001	N60530	760-939-8824/3274 DSN 437
Fleet and Industrial Supply Center San Diego Detachment Corona Naval Surface Warfare Center, Building 501/204 Norco, CA 92860-1915	N64267	909-273-4605/4065 DSN 933
Naval Air Facility El Centro 2200 Bennett Road, Building 316 El Centro, CA 92243-5001	N60042	760-339-2453/2353 DSN 658
Navy Munitions Command DET Seal Beach Fallbrook Annex 700 Ammunition Road, Building 107 Fallbrook, CA 92028-3187	N47618	760-731-3684/3696 DSN 873
Naval Air Station Lemoore Receiving Officer, Building 140, Facilities Dist 700 Avenger Avenue Lemoore, CA 93245-5008	N63042	559-998-1336/1335 DSN 949
Naval Air Warfare Center Point Mugu Receiving Officer, Building 65 625 Laguna Road, Supply Department Point Mugu, CA 93042-5032	N63126	805-989-9284 DSN 351

Naval Base Ventura County (CBC Port Hueneme) Code N41VT, Building 801 1000 23rd Avenue Port Hueneme, CA 93043-4301	N69232/ N63394	805-982-3372 DSN 551
Defense Distribution Depot San Diego 2680 Woden Street, Building 3304 San Diego, CA 92136-5491	SW3218	619-556-7862 DSN 526
Defense Distribution Depot San Diego North Island Facility 2680 Woden Street, Building 3304 San Diego, CA 92136-5491	SW3205	619-556-7862/8883 DSN 526
Fleet and Industrial Supply Center San Diego North Island Building 661-2, Code 123C San Diego, CA 92135-5019	N00244	619-545-7360/6060 DSN 735
Naval Munitions Command Detachment San Diego Naval Submarine Base 140 Sylvester Road, Building 512 San Diego, CA 92106-3321	N44943	619-553-7479/0796 DSN 553
Space and Warfare Systems Center San Diego 53560 Hull Street, Building A33 San Diego, CA 92152-5000	N66001	619-553-4345/4346 DSN 553
Navy Munitions Command Detachment Seal Beach 800 Seal Beach Boulevard, Building 110 Seal Beach, CA 90740-5000	N47615	562-626-7370/7880 DSN 873
Defense Distribution Depot San Joaquin CCP Warehouse 30 25600 South Chrisman Road Tracy, CA 95304-9150	SW3225	209-839-4477/4307 DSN 462

CONNECTICUT

Naval Submarine Base, New London Supply Department, Building 493 Groton, CT 06349-5500	N00129	860-694-3506/3802 DSN 694
Supervisor of Shipbuilding, Conversion and Repair Groton 75 Eastern Point Road, Railroad Gate, Building 130 Groton, CT 06340-4990	N62789	860-433-7284 DSN 241

DISTRICT OF COLUMBIA

Naval Research Lab Washington, DC 4555 Overlook Avenue SW, Building 49 Washington, DC 20375-5000	N00173	202-767-2461/2580 DSN 297
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FLORIDA

Naval Air Station Jacksonville Supply Department Yorktown Avenue, Building 111, Door 24 Jacksonville, FL 32212-5000	N00207	904-542-5257/5259 DSN 942
Naval Air Station Key West Midway Avenue, Building A931 Key West, FL 33040-9001	N00213	305-293-2992 DSN 483
Defense Distribution Depot Jacksonville Receiving Officer, Building 175, Swan Road NAS Jacksonville, FL 32212-0103	SW3122	904-542-0108/0206 DSN 942
Defense Distribution Depot Jacksonville Detachment Mayport Receiving Office, Building 191 Naval Station Mayport, FL 32228	SW3122	904-270-6089/6787 DSN 960
Naval Support Activity Panama City 101 Vernon Avenue, Building 399 Panama City Beach, FL 32407-7018	N61008	850-235-5368/5721 DSN 436
Naval Air Station Pensacola Supply Department 690 San Carlos Road, Building 3581 Pensacola, FL 32508-5014	N00204	850-452-9929/3535 DSN 922

GEORGIA

Defense Distribution Depot Albany 814 Radford Boulevard Building 1221, Bay 5 Albany, GA 31704-1128	SW3121	229-639-5842/5811 DSN 567
Trident Refit Facility Kings Bay Naval Submarine Base 990 USS Thomas Jefferson Drive, Building 4027 Kings Bay, GA 31547-5400	N44466	912-573-3236/4070 DSN 573
Naval Air Station Atlanta, Marietta 1005 Halsey Avenue, Building 30 Marietta, GA 30060-5099	N00196	678-655-6827 DSN 625
Defense Distribution Depot Warner Robins 455 Byron Street, Building 376 Robins AFB, GA 31098-1887	SW3119	478-926-4054/9424 DSN 468

ILLINOIS

Naval Station Great Lakes Transportation Officer Mississippi Street, Building 3502 Great Lakes, IL 60088-5127	N00128	847-688-4706 DSN 792
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INDIANA

Naval Surface Warfare Center Division, Crane Division Receiving Officer 300 Highway 361, Building 41SW Crane, IN 47522-5001	N00164	812-854-4014/4023 DSN 482
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KENTUCKY

Naval Surface Warfare Center Port Hueneme Detachment Louisville 7659 National Turnpike, Building 1 Louisville, KY 40214-5001	N30766	502-363-0932/6913 NO DSN
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LOUISIANA

Naval Air Station JRB New Orleans Supply Department 400 Russell Avenue, Building 31 Belle Chase, LA 70143-5000	N00206	504-678-3443/9729 DSN 678
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Naval Support Activity New Orleans
2300 General Meyer Avenue, Building 50
New Orleans, LA 70142-5000

N00205 504-678-2614
DSN 678

MAINE

Naval Air Station Brunswick
700 Fitch Avenue, Building 294
Brunswick, ME 04011-5000

N60087 207-921-2259/2533
DSN 476

Portsmouth Naval Shipyard
Receiving Officer, Building 170
Kittery, ME 03904-5000

N00102 207-438-4570/3212
DSN 684

Supervisor of Shipbuilding, Conversion and Repair
c/o Bath Iron Works Consolidated Warehouse
Old Bath Road
Brunswick, ME 04011-1905

N62786 207-921-2533/2526
DSN 476

MARYLAND

Fleet and Industrial Supply Center Norfolk Detachment Washington
East Perimeter Road, Building 3086
Andrews AFB, MD 20762-5518

N00166/
N00171 240-857-8818/8815
DSN 857

United States Naval Academy
Naval Station Warehouse
234 Halligan Road
Annapolis, MD 21402-5070

N00161 410-293-9297
DSN 281

National Naval Medical Center
Material Management Officer
8901 Wisconsin Avenue, Building 54
Bethesda, MD 20889-5000

N00168 301-295-2025
DSN 295

Naval Surface Warfare Center Indian Head Division
101 Strauss Avenue, Building 116
Indian Head, MD 20640-5035

N00174 301-744-4266
DSN 354

NAVSUPO Naval Air Station Patuxent River Supply Center Building 665 47179 Vaughan Road Patuxent River, MD 20670-5409	N00421	301-342-0539/0537 DSN 342
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Naval Surface Warfare Center, Carderock Division 9500 MacArthur Boulevard, Building 143 West Bethesda, MD 20817-5700	N00167	301-227-4061/1531 DSN 287
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MISSISSIPPI

Naval Air Station Meridian 224 Allen Road, Building 224 Meridian, MS 39309-5102	N63043	601-679-2126/2106 DSN 637
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Naval Construction Battalion Center Gulfport 2307 Upper Nixon Road, Warehouse 320 Gulfport, MS 39501-5001	N62604	228-871-2214/2215 DSN 868
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Naval Oceanographic Office Stennis Space Center MSAAP Building 9134 Stennis Space Center, MS 39529-5000	N62306	228-689-8386/8387 DSN 446
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Naval Station Pascagoula Building 50 Pascagoula, MS 39567-5000	N68890	228-761-2075/2006 DSN 358
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Supervisor of Shipbuilding Conversion and Repair, USN Gulf Coast 1000 Jerry St. Pe Hwy, Building 221 Pascagoula, MS 39568-7003	N69316	228-761-2469 DSN 358
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NEVADA

Naval Air Station Fallon 4755 Pasture Road, Building 25 Fallon, NV 89496-5000	N60495	775-426-2751/3732 DSN 890
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NEW JERSEY

Navy Munition Command Detachment Earle 201 Highway 34 South, Building C-33 Colts Neck, NJ 07722-5021	N60478	732-866-2221 DSN 449
Regional Supply Office Earle Material Processing Center, Building R-22, Rt 36 Leonardo, NJ 07737-5000	N69213	732-866-2387/2145 DSN 449
Naval Air Engineering Station Lakehurst Highway 547, Building 271 Lakehurst, NJ 08733-5080	N68335	732-323-2460/2354 DSN 624

NEW YORK

Naval Undersea Warfare Center Detachment Seneca Lake 50 Main Street, Building 1 Dresden, NY 14441-0218	N41917	315-536-4971 NO DSN
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NORTH CAROLINA

Defense Distribution Depot Cherry Point Langley Road, Building 147, Bay A Cherry Point, NC 28533-5040	SW3113	252-466-5878/3253 DSN 582
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OHIO

Defense Distribution Depot Columbus Ohio N James Road, Building 41-1 Columbus, OH 43213-5000	SW0700	614-692-2251/3943 DSN 850
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OKLAHOMA

Defense Distribution Depot Oklahoma Central Receiving, 3301 F Avenue, Building 506 Tinker AFB, OK 73145-8000	SW3211	405-739-5571 DSN 339
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PENNSYLVANIA

Naval Inventory Control Point (OSM) Code OSM, Building 107 S/E 5450 Carlisle Pike Mechanicsburg, PA 17055-0788	N47304	717-605-2399 DSN 430
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Defense Distribution Depot Susquehanna
New Cumberland Facility, Building 2001
2001 Mission Drive
New Cumberland, PA 17070-5002

SW3124 717-770-6091
DSN 771

Naval Surface Warfare Center, Carderock Division
Philadelphia Naval Business Center
5001 South Broad Street, Building 542
Philadelphia, PA 19112-1403

N65540 215-897-7349/3361
DSN 287

Defense Distribution Depot Tobyhanna
Myers and Second Street, Warehouse 2 Bay 1
Tobyhanna, PA 18466-5059

SW3114 570-895-6259
DSN 795

Pittsburgh Naval Reactors Office
Bettis Atomic Power Laboratory
814 Pittsburgh McKeesport Boulevard
West Mifflin, PA 15122-0109

N64169 412-476-7265/7267
NO DSN

Naval Air Station JRB Willow Grove
Supply Building 171
Willow Grove, PA 19090-5021

N00158 215-443-6279/6284
DSN 991

RHODE ISLAND

Naval Station Newport
47 Chandler Street
Newport, RI 02841-1716

N32411 401-841-1034/2208
DSN 948

SOUTH CAROLINA

Navy Munition Command Detachment Charleston
2316 Red Bank Road, Suite 100, Building 2315
Goose Creek, SC 29445-8601

N00193 843-764-7866
DSN 794

Fleet and Industrial Supply Center Jacksonville Detachment Charleston
2450 Red Bank Road, Building 1
Goose Creek, SC 29445-8605

N39825 843-764-7954/7419
DSN 794

Space and Warfare Systems Center, North Charleston
2921 Avenue B North, Building 1639
North Charleston, SC 29419-9022

N65236 843-218-4189
DSN 588

TENNESSEE

Naval Support Activity Mid-South Memphis 5722 Integrity Drive, Building S-242 Millington, TN 38054-5027	N00639	901-874-5668/5196 DSN 882
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TEXAS

Defense Distribution Depot Corpus Christi 540 First Street SE, Building 1846 Corpus Christi, TX 78419-5255	SW3222	361-961-2089/2500 DSN 861
Fleet and Industrial Supply Center Jacksonville Detachment Corpus Christi 9035 Ocean Drive, Building 10 Corpus Christi, TX 78419-5000	N00216	361-961-2581/2659 DSN 861
Fleet and Industrial Supply Center Jacksonville Detachment Ingleside 188 Coral Sea Road, Building 233 Ingleside, TX 78362-5028	N47903	361-776-4825/4502 DSN 776
Fleet and Industrial Supply Center Jacksonville Detachment Kingsville NAS Kingsville 330 Moffett Avenue, Building 758 Kingsville, TX 78363-5017	N60241	361-516-6204/6221 DSN 876
Naval Air Station JRB Fort Worth 1251 Military Parkway, Building 1251 Fort Worth, TX 76127-1251	N83447	817-782-7665/7667 DSN 739
Defense Distribution Depot Red River 10th Street and K Avenue, Receiving Building 499 Red River Army Depot Texarkana, TX 75507-5000	SW3227	903-334-3818 DSN 829

UTAH

Defense Distribution Depot Hill Receiving Division 7513 5th Street, Building 840 Bay B Hill AFB, UT 84056-5703	SW3400	801-775-6590/6609 DSN 775
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Defense Distribution Ogden Facility Hill AFB Central Receiving 5851 F Avenue, Building 849 Hill AFB, UT 84056-5734	SW3210	801-775-6590/6609 DSN 775
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VIRGINIA

Naval Engineering Logistics Office 1420 S Eads Street Arlington, VA 22202-5000	N41756	703-699-4527 DSN 499
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Naval Surface Warfare Center Division Dahlgren 17320 Dahlgren Road, Building 125 Dahlgren, VA 22448-5100	N00178	540-653-8274/8273 DSN 249
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Supervisor of Shipbuilding Conversion and Repair USN Building 2 Newport News, VA 23607-2787	N62793	757-688-8532/1407 NO DSN
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Naval Amphibious Base Little Creek 1320 Barnstable County Road, Building 3090 Norfolk, VA 23521-2438	N61414	757-462-8706 DSN 565
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Defense Distribution Depot Norfolk 1968 Gilbert Street, Building W143, Doorway 10 Norfolk, VA 23512-0001	SW3117	757-443-3301 DSN 646
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Naval Air Station Norfolk (Regional Supply Office) 422 Warehouse Road, Building SP89 Norfolk, VA 23511-2197	N00188	757-445-9517 DSN 565
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Naval Air Terminal, Norfolk 8449 Air Cargo Road, Building LP205 Norfolk, VA 23511-4497	N45627	757-444-1297/4286 DSN 564
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Fleet and Industrial Supply Center Norfolk Detachment Norfolk Naval Shipyard, Building 276 Portsmouth, VA 23709-5000	N00181	757-396-4606/8830 DSN 961
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Defense Distribution Depot Richmond DDRV-L 8000 Jefferson Davis Highway Richmond, VA 23297-5516	SW0400	804-279-6260/6909 DSN 695
Naval Special Warfare Development Group 1636 Regulus Avenue, Building 313 Virginia Beach, VA 23461-2299	V47898	757-492-7960 ext 2201 DSN 492
Regional Supply Officer, Naval Air Station Oceana 1999 7TH Street, Building 720 Virginia Beach, VA 23460-5120	N60191	433-2393/3369 DSN 433
Fleet and Industrial Supply Center Cheatham Annex Williamsburg Warehouse 1, C Street Williamsburg, VA 23185-8792	N60138	757-887-7141/7139 DSN 953
Navy Munitions Command CONUS East Division Naval Weapons Station Main Road, Building 8 Yorktown, VA 23691-0160	N00109	757-887-4721/4218 DSN 953

WASHINGTON

Defense Distribution Depot Puget Sound 467 W Street, Building 467 Bremerton, WA 98314-5130	SW3216	360-476-7474 DSN 439
Fleet and Industrial Supply Center Puget Detachment Everett 2000 West Marine View Building 2200, DR 5 Everett, WA 98207-1600	N48439	425-304-4009 DSN 727
Naval Air Station Whidbey Island 3480 N Langley Boulevard, Building 369 Oak Harbor, WA 98278-5200	N00620	360-257-3012/2386 DSN 820
Navy Muniton Command Detachment Indian Island 100 Indian Island Road, Building 800 Port Hadlock, WA 98339-9723	N48537	360-396-5324

Naval Undersea Warfare Center Division Keyport N00253 360-396-2187/2935
Supply Officer DSN 744
610 Dowell Street, Building 893
Keyport, WA 98345-7610

Trident Refit Facility (Naval Submarine Base) Bangor N68438 360-396-4135/8639
NAVIMFAC PACNORWEST DSN 744
6403 Skipjack Circle
Silverdale, WA 98315-7000

OVERSEAS

BAHAMAS

Naval Undersea Warfare Center Det N63821 561-655-5155 ext 6284/6286
AUTEC Andros Island Bahamas DSN 483-7390 ext 6284/6286
Andros Island Bahamas

BAHRAIN

Naval Support Activity Receiving Officer N63005 011-973-17-85-4624
BANZ Warehouse DSN 318-439-4624
1 Juffair Avenue, Mark for GSK Div
Manama Bahrain

CUBA

Commanding Officer N60514 011-5399-4206/4495
U S Naval Station DSN 646-8100 ext 4206/4495
U S Naval Base
Guantanamo Bay Cuba

DIEGO GARCIA

Naval Support Facility Diego Garcia N68539 011-246-370-4400/3518
Building 711 DSN 315-370-4400/3518
Diego Garcia
British Indian Ocean Territory

GREECE

Naval Support Activity Souda Bay Crete U.S. Naval Support Activity Building 6 Souda Bay Crete Greece	N66691	011-30-2821-021254/1256 DSN 314-266-1254/1256
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GUAM

US Naval Forces Marianas Receiving Section, Building 2118 Santa Rita, Guam 96915	N61755	011-671-339-7404/3258 DSN 315-339-7404/3258
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HAWAII

Defense Distribution Depot Pearl Harbor Receiving Officer 840 Vincennes Ave, Building 1900 Pearl Harbor, HI 96860-4544	SW3144	808-473-0108/0513 DSN 315-473-0108/0513
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Pearl Harbor Naval Shipyard and IMF 667 Safeguard Street, Building 167 Pearl Harbor, HI 96860-5033	N32253	808-473-8000 ext 4201 NO DSN
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ITALY

Naval Air Station Sigonella U.S. Naval Air Station Strada Statale 417 Catania Gela, Building 452 Sigonella Sicily 95040	N62995	011-390-958-65942 DSN 314-624-5942
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Naval Support Activity La Maddalena, Italy U.S. Naval Support Activity Via Principe Amedeo 3 07024 La Maddalena Italy	N32960	011-39-0789-798-221/253 DSN 314-623-8221/8253
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Naval Support Activity Naples, IT ATC Facility Viale Fulco Ruffo Di Calabria Aerop Di Capodichino Building 415 80144 Napoli Italy	N62588	011-39-335-825-7538 DSN 314-626-5432/5436
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JAPAN

Defense Distribution Depot Yokosuka Japan FLT ACT Yokosuka Honcho 1 Chome Yokosuka Shi, Building 5010 Kanagawa Japan 238-0041	SW3142	011-81-46-816-8344/9199 DSN 315-243-8344/9199
Defense Distribution Depot Yokosuka Japan DDYJ Sasebo Detachment Receiving Officer, Building 138 Tategami Cho Warehouse 14 Sasebo, Japan 857-0063	SW3143	011-81-956-50-3547/3175 DSN 315-252-3547/3175
Naval Air Facility Atsugi Supply Department Mubanchi Oohgami, Building 174 Ayase Kanagawa, Japan 252-1101	N62507	011-81-467-79-2689 DSN 315-264-3128/3127
FISC Yokosuka Detachment Okinawa Building 3578 Kadena AF Base Okinawa Japan	N32434	011-81-611-734-8265 DSN 315-634-8283

SINGAPORE

U.S. Naval Regional Contracting Center Singapore PSA Sembawang, Building 7-4 Deptford Road Sembawang Singapore 759657	N68047	011-65-6750-2518 DSN 315-421-2518
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SPAIN

U.S. Naval Station Rota Spain Supply Department, Building 55 Naval Station Rota Rota, Spain	N62863	011-34-956-82-2790 DSN 314-727-2790
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Qualified Naval Nuclear Capable Maintenance Activity Shipping Points of Contact

	Activity/Address	Code	POC/Email Address	Phone Number
Mailing	Puget Sound Naval Shipyard and Intermediate Maintenance Facility Code 2380.4R, Attn: Scott Miller 1400 Farragut Avenue Bremerton, WA 98314-5001	2380.4R	millers@psns.navy.mil	Commercial: 360-476-3520 DSN: 439-3520 FAX: 8782
Shipping	Puget Sound Naval Shipyard and Intermediate Maintenance Facility Receiving Officer, Building 514 1400 Farragut Avenue Bremerton, WA 98314-5001 If the item is radioactive add: Attn: Code 2380.4R, (360) 476-3520			
Mailing & Shipping	Norfolk Naval Shipyard Building 276 Code 2305.1, (757) 396-4510 Portsmouth, VA 23709	2305.1	dillskm@nnsy.navy.mil	Commercial: 757-396-4510 DSN: 961-4510 FAX: 7686
Mailing	Portsmouth Naval Shipyard Commander Attn: Code 2305.1 Portsmouth Naval Shipyard Portsmouth, NH 03801-5000	2305.1	fordjr@mail.ports.navy.mil	Commercial: 207-438-5285 DSN 684-5285 FAX: 5288
Shipping	Portsmouth Naval Shipyard Receiving Officer Building 170 Portsmouth Naval Shipyard Kittery, Maine 03904 Attn: J. R. Ford Bldg. 96			
Mailing & Shipping	Pearl Harbor Naval Shipyard Commander (Code 2305.1) Pearl Harbor Naval Shipyard & IMF Attn: Code 2305.1 Pearl Harbor Building 167 Pearl Harbor, HI 96860-5033	2305.1	mcdowellpj@phnsy.navy.mil or chuncw@phnsy.navy.mil or matsunagadm@phnsy.navy.mil	Commercial: 808-473-9371/9372/9373/9370 FAX: 0472

SHIPPING CONTAINER TALLY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

REQUISITION AND INVOICE/ SHIPPING DOCUMENT										Form Approved OMB No. 0704-0246			
Public reporting burden of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0246), Washington, DC 20503.													
1. FROM (Include ZIP Code) DODAAC SUPO USS NEVERSAIL (CVN 99)					SHEET NO. 1 NO. OF 2		5. REQUISITION DATE 11-Aug-04		6. REQUISITION NUMBER V21955-2281-7003				
					7. DATE MATERIAL REQUIRED (YYMMDD) 999			8. PRIORITY TP 1					
2. TO: (Include ZIP Code) N63005 Naval Support Activity Receiving Officer BANZ Warehouse 1 Juffair Avenue, GSK Div, Manama, Bahrain					9. AUTHORITY OR PURPOSE NAVSUPINST 4600.88(Series), POLICIES & PROCEDURES FOR SHIPPING NAVY SOURCE-BEARING RADIAC EQUIPMENT								
3. SHIP TO - MARK FOR Commanding Officer U.S. Naval Station Rota Spain Supply Department Building 55 ATTN: RADIAC CAL LAB (ROJ) Rota, SPAIN 11530					11a. VOUCHER NUMBER & DATE (YYMMDD)								
					12. DATE SHIPPED (YYMMDD)			b.					
					13. MODE OF SHIPMENT			14. BILL OF LADING NUMBER					
					15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NO. DO NOT SHIP BY U. S. MAIL								
4. APPROPRIATIONS SYMBOL AND SUBHEAD TAC N141		OBJ. CL.	BUR. CONT. NO.	SUBALLOT	AUTHORIZATION ACCT'G ACTIVITY	TRANS. TYPE	PROPERTY ACCT'G ACTIVITY	COUNTRY	COST CODE	AMOUNT			
ITEM NO. (a)	FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES (b)					UNIT OF ISSUE (c)	QUANTITY REQUESTED (d)	SUPPLY ACTION (e)	TYPE CONTAINER (f)	CONTAINER NOS. (g)	UNIT PRICE (h)	TOTAL COST (i)	
	RADIOACTIVE MATERIAL, EXCEPTED PACKAGE - LIMITED QUANTITY OF MATERIAL, 7, UN2910,									CONSIGNEE SIGN/DATE and RETURN RECEIPT to CONSIGNOR			
	CONTACT (fill in shipping T.O.'s activity and phone number here) or NOLSC 757-443-5407/5305 DSN									CONSIGNEE'S NAME: _____			
	312-646-5407/5305. DO NOT SHIP BY U.S. MAIL. RADIOLOGICAL CONTROLS MAY BE REQUIRED									DATE RECEIVED: DDMYYY			
	WHEN UNPACKING TO COMPLY WITH LOCAL REQUIREMENTS.									(CONSIGNOR'S FAX #: XXX-XXX-XXXX)			
1	AN/PDR-43D, 6655-00-738-5867, Kr-85, Gas, 2.96 MBq (80 uCi),					EA	3						
	wt 4.2 lbs, Serial Numbers: A299, A437, A104												
2	AN/PDR-56H, 6665-01-161-5407, Th-232, Solid Oxide, 11.1 kBq					EA	4						
	(0.3 uCi), wt 28 lbs, Serial Numbers: A560, A669, B298, B299												
	Total Weight 124.6 lb, Total Activity 8.92 MBq (241.2 uCi)												
17. SPECIAL HANDLING Code "Y" (Signature Service)													
RECEIPT	18 ISSUED BY	TOTAL CONTAINERS	TYPE CONTAINER	DESCRIPTION				TOTAL WEIGHT	TOTAL CUBE	19 CONTAINERS RECEIVED EXCEPT AS NOTED	DATE (YYMMDD)	BY	SHEET TOTAL
	CHECKED BY									QUANTITIES RECEIVED EXCEPT AS NOTED	DATE (YYMMDD)	BY	GRAND TOTAL
	PACKED BY									POSTED	DATE (YYMMDD)	BY	20. RECIEVER'S VOUCHER NO.

SHIPPING CONTAINER TALLY

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

REQUISITION AND INVOICE/ SHIPPING DOCUMENT										Form Approved OMB No. 0704-0246	
Public reporting burden of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0246), Washington, DC 20503.											
1. FROM (Include ZIP Code) DODAAC SUPO USS NEVERSAIL (CVN 99)				SHEET NO. 1		NO. OF 2		5. REQUISITION DATE 11-Aug-04		6. REQUISITION NUMBER V21955-2281-7004	
2. TO: (Include ZIP Code) N63005 Naval Support Activity Receiving Officer BANZ Warehouse 1 Juffair Avenue, GSK Div, Manama, Bahrain				7. DATE MATERIAL REQUIRED (YYMMDD) 999				8. PRIORITY TP 1			
				9. AUTHORITY OR PURPOSE NAVSUPINST 4600.88(Series), POLICIES & PROCEDURES FOR SHIPPING NAVY SOURCE-BEARING RADIAC EQUIPMENT				11a. VOUCHER NUMBER & DATE (YYMMDD)			
3. SHIP TO - MARK FOR Commanding Officer U.S. Naval Station Rota Spain Supply Department Building 55 ATTN: RADIAC CAL LAB (ROJ) Rota, SPAIN 11530				10. SIGNATURE DATE SHIPPED (YYMMDD)				b.			
				13. MODE OF SHIPMENT				14. BILL OF LADING NUMBER			
4. APPROPRIATIONS SYMBOL AND SUBHEAD TAC N141				15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NO.				DO NOT SHIP BY U. S. MAIL			
				OBJ. CL.		BUR. CONT. NO.		SUBALLOT		AUTHORIZATION ACCT'G ACTIVITY	
COUNTRY		COST CODE		AMOUNT		UNIT OF ISSUE (c)		QUANTITY REQUESTED (d)		SUPPLY ACTION (e)	
TYPE CONTAINER (f)		CONTAINER NOS. (g)		UNIT PRICE (h)		TOTAL COST (i)					
THE SHIPMENT CONTAINS A SMALL AMOUNT OF RADIOACTIVE MATERIAL IN A QUANTITY NOT REGULATED UNDER U.S. DOT HAZARDOUS MATERIAL REGULATIONS. RADIOLOGICAL CONTROLS MAY BE REQUIRED WHEN UNPACKING TO COMPLY WITH LOCAL REQUIREMENTS. CONTACT (fill in shipping T.O.'s activity and phone number here) or NOLSC 757-443-5407/5305 DSN 646 DSN from OCONUS 312-646-5407/5305. DO NOT SHIP BY U.S. MAIL.											
CONSIGNEE SIGN/DATE and RETURN RECEIPT TO CONSIGNOR CONSIGNEE'S NAME: _____ DATE RECEIVED DDMYY (CONSIGNOR'S FAX #: XXX-XXX-XXXX)											
1 IM-247A, (6665-01-217-7765), wt 4.2 lb				EA		3					
SN's A299, A437, A104											
Total Weight 12.6 lb											
17. SPECIAL HANDLING											
18. ISSUED BY		TOTAL CONTAINERS		TYPE CONTAINER		DESCRIPTION		TOTAL WEIGHT		TOTAL CUBE	
CHECKED BY											
PACKED BY											
RECEIVED		RECEIVED EXCEPT AS NOTED		DATE (YYMMDD)		BY		SHEET TOTAL			
RECEIVED		RECEIVED EXCEPT AS NOTED		DATE (YYMMDD)		BY		GRAND TOTAL			
POSTED				DATE (YYMMDD)		BY		20. RECIEVER'S VOUCHER NO.			

SAMPLE-non-regulated

DD Form 1149, DEC 306/080

51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Previous editions are obsolete.

S/N 0102-LF-017-7900

(Navy Overprint 1994)

SHIPMENT CHECKLISTS

Shipper's Checklist:			
ITEM	ACTION	DATE	INIT
1	Determine if the RADIAC equipment is listed in Table 1 of enclosure (1). If not, ensure the RADIAC is processed for shipment as non-hazardous cargo.		
2	Determine if the shipment will be regulated using Table 1 and paragraph 1.d and 1.e of enclosure (1). If regulated, go to step R3. If non-regulated, go to step N3.		
Regulated SBR Steps			
R3	Complete DD Form 1149 per para 2c of enclosure (1). A sample DD Form 1149 of a regulated SBR is provided in enclosure (4).		
R4	Contact closest T.O. listed in enclosure (3) to arrange transport to the T.O. Alternately, contact qualified Naval Shipyard personnel to arrange for the shipment.		
R5	When transferring directly to the T.O., complete DD Form 1907 or RADIAC Equipment Shipment Form, enclosure (7), to ensure control and accountability when transferring SBR to T.O. Use the guidance in enclosure (1) or (7) to complete the applicable form.		
R6	Package SBR in accordance with requirements listed in enclosure (1) paragraph 3. Ensure package is marked with "UN2910" and "Radioactive" outside of interior (carrying case covering or fiberboard box) packaging and on exterior of the shipping packaging or overpack. If air is shipping mode, use Radioactive Material - Excepted Package label in place of exterior marking per paragraph 3c of enclosure (1).		
R7	Notify consignee of pending shipment by phone, fax, or email.		
R8	Follow local T.O.'s or qualified Naval Shipyard personnel's guidance for transport of SBR, DD Form 1149, and DD Form 1907 or RADIAC Equipment Shipment Form (if applicable) to drop off point. T.O. may also arrange for pick up at your location.		
R9	Upon receipt of signed copy of DD Form 1149 from consignee, remove SBR from custody control log. Contact T.O. for tracking and tracing if no receipt is received from the consignee within 30 days of providing SBR to T.O.		
Non-Regulated SBR Steps			
N3	Contact closest T.O. of those listed in enclosure (3) to arrange for transport to the T.O. or a pickup on location. Alternately, contact qualified Naval Shipyard personnel, also listed in enclosure (3), to arrange for the shipment.		
N4	Package non-regulated SBR(s) in accordance with requirements of paragraph 3a in enclosure (1).		
N5	If pickup of non-regulated SBR is unavailable, follow local T.O.'s guidance for transport to T.O.		
N6	Contact T.O. or FedEx for tracking and tracing if no receipt is received from the consignee within 30 days of providing non-regulated SBR to T.O. or FedEx.		

SHIPMENT CHECKLISTS (cont.)

Transportation Officer's Checklist:			
ITEM	ACTION	DATE	INIT
1	Arrange for on base pick-up of SBR (Regulated and non-Regulated) from shipper or advise shipper of local movement and drop off procedures.		
2	Use either GSA Small Package Express Contract (FedEx) for CONUS shipments or Air Mobility Command (AMC) for OCONUS shipments per guidance in enclosure (1).		
3	Perform a radiological survey of the package.		
4	Ensure package is properly packaged and marked per paragraph 3 requirements listed in enclosure (1). Ensure package is marked with UN2910 and "Radioactive" or for commercial air shipment is labeled per paragraph 3c of enclosure (1). Radioactive marking on interior of shipping package is required per references (d) and (e).		
5	Create either an airway bill or TCMD using the guidance in enclosure (1).		
6	Send a REPSHIP when the SBR and shipping documentation is given to either AMC or FedEx for shipment. Use the guidance in enclosure (1) to complete the REPSHIP or otherwise provide shipment and tracking information to the shipper.		
7	Follow the progress of the shipment until it reaches final destination and is received by the consignee.		
8	Contact NOLSC Norfolk per enclosure (1) for any transportation questions.		
Consignee's Checklist:			
ITEM	ACTION	DATE	INIT
1	Sign, date, and email the scanned image or fax to consignor the DD Form 1149 within 24 hours of receiving SBR shipment.		
2	Update local SBR custody control log.		
3	If the SBR shipment is damaged and/or short pieces, prepare Transportation Discrepancy Report (TDR) or provide information to prepare TDR to local T.O.		

TRANSPORTATION EXAMPLES

TRANSPORTATION EXAMPLE 1

1. A carrier (CVN) is deployed off the coast of Bahrain and the ship's RADIAC allowance holder requests the supply officer to ship a Source-Bearing RADIAC (SBR) for calibration. The closest RADIAC Calibration Laboratory (RCL) found in enclosure (2) is NAVSTA Rota, Spain.
2. The CVN's supply officer or RADIAC Allowance Holder prepares DD Form 1907 or enclosure (7) as appropriate to maintain positive control and accountability when making face-to-face transfer of SBR for movement to the Transportation Office. Per this instruction, the CVN's supply officer prepares DD Form 1149 and packages the SBR for shipment. The supply officer ensures RCL Rota's address from enclosure (2) is entered as the final destination for the shipment in Block 3 of DD Form 1149.
3. The ship's supply officer determines that the shipment will be regulated by checking Table 1 of enclosure (1) of this instruction.
4. The ship's supply officer checks enclosure (3) and notes that the closest T.O. capable of shipping an SBR is Naval Support Activity Receiving Officer in Manama, Bahrain.
5. The CVN's supply officer contacts the Manama T.O. to arrange transportation from the CVN to the Manama Transportation Office.
6. When the shipment arrives at the Manama Transportation Office, the Manama T.O. arranges transportation to the Rota RCL at the appropriate address in enclosure (2).
7. The T.O. prepares DD Form 1907 (or uses the existing DD Form 1907) or enclosure (7) to maintain positive control and accountability when making face-to-face transfer of SBR for movement to the Rota RCL.
8. The T.O. sends a Report of Shipment (REPSHIP) per enclosure (1) to shipper, receiver and NAVICP item manager when the SBR is shipped.
9. The Rota RCL receives the shipment from the Manama Transportation Office and within 24 hours faxes a signed return receipt to the CVN supply officer to confirm receipt. The Rota RCL updates its custody control records to show that the equipment has been transferred from the CVN to the Rota RCL for calibration.
10. The CVN supply officer provides a copy of the signed return receipt to the RADIAC allowance holder.

11. The RADIAC allowance holder updates custody control log to reflect equipment has been transferred to the Rota RCL for calibration.

12. The Rota RCL calibrates the equipment.

13. The Rota RCL contacts the NAVSTA Rota T.O. identified in enclosure (3) and requests that the calibrated equipment be return shipped to the CVN.

14. NAVSTA Rota T.O. advises Rota RCL of the local procedure for either drop off or pick-up of material for shipment.

15. The Rota RCL prepares and uses DD Form 1907 or enclosure (7) to maintain positive control and accountability when making face-to-face transfer of SBR for movement to the T.O. The Rota RCL provides T.O. with the SBR and completed DD Form 1149.

16. The NAVSTA Rota T.O. contacts NOLSC Norfolk Duty Officer, 757-443-5305 (DSN 646) to obtain current receiving address for the CVN.

17. The NAVSTA Rota T.O. packages and ships the equipment to the CVN per this instruction.

18. The T.O. sends Report of Shipment (REPSHIP) per enclosure (1) to shipper, receiver and NAVICP item manager.

19. SBR is received at Bahrain Air Terminal (or location where ship is currently receiving freight) where a DD Form 1907 is prepared by the T.O. to maintain positive control and accountability when making face-to-face transfer of SBR for movement to the CVN.

20. The CVN supply officer receives the shipment from the Bahrain Air Terminal (T.O.) and within 24 hours faxes a signed return receipt to the RCL at Rota, Spain to confirm receipt. The CVN supply officer provides the RADIAC allowance holder the equipment and the allowance holder updates the custody control log to show that the equipment was received from the Rota RCL.

21. The Rota RCL updates its custody control records to show that the equipment has been transferred to the CVN.

TRANSPORTATION EXAMPLE 2

1. The Test and Evaluation (T&E) lab at Space and Naval Warfare Systems Center (SPAWARSYSCEN) Charleston wishes to ship a Source-Bearing RADIAC (SBR) to the RADIAC Calibration Laboratory (RCL) at Puget Sound Naval Shipyard and Intermediate Maintenance Facility.
2. The T&E lab determines that the shipment will be regulated by checking Table 1 of enclosure (1) of this instruction.
3. The T&E lab checks enclosure (3) and notes that the closest T.O. capable of shipping an SBR is SPAWARSYSCEN in North Charleston, South Carolina.
4. The T&E lab contacts the SPAWARSYSCEN T.O. to arrange transportation from the T&E lab to the transportation office.
5. The T&E lab prepares DD Form 1907 or enclosure (7) of this instruction to maintain positive control and accountability when making face-to-face transfer of SBR for movement to the T.O. Per this instruction, the T&E lab prepares the DD Form 1149, packages the SBR for shipment and arranges transport to the T.O. in coordination with the SPAWARSYSCEN Transportation Office. The T&E lab also ensures that the Puget Sound RCL address from enclosure (2) is entered as the final destination for the shipment in Block 3 of DD Form 1149.
6. The T.O. arranges for on base pick-up of the SBR from the T&E lab or advises them of local drop off procedures.
7. The T&E lab follows the guidance of the T.O. for pick-up or local drop off procedures of the SBR, DD Form 1907 or enclosure (7) and DD Form 1149.
8. When the SBR arrives at the SPAWARSYSCEN Transportation Office, the T.O. arranges transportation to the Puget Sound RCL at the appropriate address in enclosure (2).
9. The T.O. prepares DD Form 1907 (or uses the existing DD Form 1907) or enclosure (7) to maintain positive control and accountability when making face-to-face transfer of SBR for movement to the Puget Sound RCL.
10. The T.O. sends a REPSHIP per enclosure (1) to shipper, receiver and NAVICP item manager when the SBR is shipped.
11. The Puget Sound RCL receives the shipment from the T.O. and within 24 hours faxes a signed return receipt to the T&E lab to confirm receipt. The Puget Sound RCL updates its custody control records to show that the equipment has been transferred from the T&E lab to the Puget Sound RCL.

12. Upon receipt of the signed return receipt from the Puget Sound RCL, the T&E lab updates its custody control log to reflect equipment has been transferred to the Puget Sound RCL.

TRANSPORTATION EXAMPLE 3

1. A CVN is home ported in Everett, Washington. The ship's RADIAC allowance holder requests the supply officer to ship a SBR for calibration. The closest RADIAC Calibration Laboratory (RCL) found in enclosure (2) is:

Commander
Puget Sound Navy Shipyard (PSNS)
1400 Farragut Avenue, Building 431
Attn: Shop 52, Fifth Floor, RADIAC
Bremerton, WA 98314-5001

2. The ship's supply officer determines that the shipment will be regulated by checking Table 1 of enclosure (1) of this instruction.

3. The ship's supply officer checks enclosure (3) and notes that the closest T.O. capable of shipping an SBR is:

Fleet and Industrial Supply Center Puget Detachment Everett
2000 West Marine View
Building 2200, DR 5
Everett, WA 98207-1600

4. The CVN's supply officer contacts the Everett T.O. to arrange transportation from the CVN to the Everett Transportation Office.

5. The CVN's supply officer prepares DD Form 1907 or enclosure (7) to maintain positive control and accountability when making face-to-face transfer of SBR for movement to the T.O. Per this instruction, the CVN's supply officer prepares DD Form 1149, packages the SBR and arranges transport to the T.O. in coordination with the Everett Transportation Office. The supply officer ensures PSNS RCL address from enclosure (2) is entered as the final destination for the shipment in Block 3 of DD Form 1149.

6. The T.O. arranges for on base pick-up of the SBR from the CVN or advises them of local drop off procedures.

7. The CVN's supply officer follows the guidance of the T.O. for pick-up or local drop off procedures of the SBR, DD Form 1907 or enclosure (7) and DD Form 1149.

8. When the shipment arrives at the Everett Transportation Office, the Everett T.O. arranges transportation to the PSNS RCL at the appropriate address in enclosure (2).

9. The T.O. prepares DD Form 1907 (or uses the existing DD Form 1907) or enclosure (7) to maintain positive control and accountability when making face-to-face transfer of SBR for movement to the PSNS RCL.

10. The T.O. sends a REPSHIP per enclosure (1) to shipper, receiver and NAVICP item manager when the SBR is shipped.

11. The PSNS RCL receives the shipment from the Everett Transportation Office and within 24 hours faxes a signed return receipt to the CVN supply officer to confirm receipt. The PSNS RCL updates its custody control records to show that the equipment has been transferred from the CVN to the PSNS RCL for calibration.

12. The CVN supply officer provides a copy of the signed return receipt to the RADIAC allowance holder.

13. The RADIAC allowance holder updates custody control log to reflect equipment has been transferred to the PSNS RCL for calibration.

14. The PSNS RCL calibrates the equipment.

15. The PSNS RCL contacts the Bremerton T.O. identified in enclosure (3) and requests that the calibrated equipment be return shipped to the CVN.

16. The Bremerton T.O. advises PSNS RCL of the local procedure for either drop off or pick-up of material for shipment.

17. The PSNS RCL prepares and uses DD Form 1907 to maintain positive control and accountability when making face-to-face transfer of SBR for movement to the T.O. PSNS RCL provides T.O. with the SBR and completed DD Form 1149.

18. The Bremerton T.O. contacts NOLSC Norfolk Duty Officer, 757-443-5305 (DSN 646), to obtain current receiving address for the CVN.

19. The Bremerton T.O. verifies package is properly packaged for shipment and associated paperwork (DD-1149, DD-1907) is properly prepared, and then ships the equipment to the CVN per this instruction.

20. The T.O. sends REPSHIP per enclosure (1) to shipper, receiver and NAVICP item manager.

21. The CVN supply officer receives the shipment and within 24 hours faxes a signed return receipt to the PSNS RCL to confirm receipt. The CVN supply officer provides the RADIAC allowance holder the equipment and the allowance holder updates the custody control log to show that the equipment was received from the supply department.

22. The PSNS RCL updates its custody control records to show that the equipment has been transferred to the CVN.

RADIAC EQUIPMENT CUSTODY & SHIPMENT FORM (SEA 04LR)

Model Type	Stock Number	Serial Number(s)	Qty	Purpose* (see reverse)	Notes	Barcoding Information
1.						
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						

All sources are "Normal Form" unless otherwise described above.

Prepared By:	Signature / Badge	Date
Supervisor Approval:	Signature / Badge	Date
Vehicle No. (If Applicable):	Transporter Signature / Badge	Date
From:	Releasing Organization Signature / Badge	Date
To:	Accepting Organization Signature / Badge	Date
* Mark For:	Releasing Organization Signature / Badge	Date
	Accepting Organization Signature / Badge	Date

Model Number	Isotope	Max Activity per Instrument	Consignment Value	Ship as Class 7	Notes
2000 AB	C-14	111 kBq (3 µCi)	0.011	No*	*If < 91
492C	Cs-137	333 kBq (9 µCi)	33.333	Yes	
AN/PDR-43B, C, D, F	Kr-85	2.96 MBq (80 µCi)	296.296	Yes	
AN/PDR-43E, G	Kr-85	3.7 MBq (100 µCi)	370.370	Yes	
AN/PDR-45B, C (w/o Field Change 1)	Kr-85	740 kBq (20 µCi)	74.074	Yes	
AN/PDR-45D (w/o Field Change 1)	Kr-85	5.55 MBq (150 µCi)	555.556	Yes	
AN/PDR-45E, F (w/o Field Change 1 or 2)	Kr-85	6.66 MBq (180 µCi)	666.667	Yes	
AN/PDR-45B, C, D, F (w/ Field Change 1)	Kr-85	3.7 MBq (100 µCi)	370.370	Yes	
AN/PDR-45E, (w/ Field Change 2)	Kr-85	3.7 MBq (100 µCi)	370.370	Yes	
AN/PDR-45G	Kr-85	3.7 MBq (100 µCi)	370.370	Yes	
AN/PDR-56A, C, D	Th-232	118.4 kBq (3.2 µCi)	11.852	Yes	
AN/PDR-56B	Th-232	44.4 kBq (1.2 µCi)	4.444	Yes	
AN/PDR-56E, G	Th-232	18.5 kBq (0.5 µCi)	1.852	Yes	
AN/PDR-56H	Th-232	11.1 kBq (0.3 µCi)	1.111	Yes	
AN/PDR-71	Cs-137	22.2 kBq (0.6 µCi)	2.222	Yes	
AN/PDR-78	Co-60	18.5 kBq (0.5 µCi)	0.185	No*	*If < 6
BZ-216/UD	Cs-137	29.6 kBq (0.8 µCi)	2.963	Yes	
CL-1	H-3	8.88 MBq (240 µCi)	0.009	No*	*If < 113
COBALT 60/MX-10750 (LUNG PHANTOM)	Co-60 (2 ea)	3.7 kBq (0.1 µCi)	0.037	No*	*If < 27
CP-1112/PD (TLD READER)	C-14	925 kBq (25 µCi)	0.093	No*	*If < 11
CP-1978/PD	C-14	18.5 kBq (0.5 µCi)	0.002	No*	*If < 541
IM-231/PD	C-14	925 kBq (25 µCi)	0.093	No*	*If < 11
IM-231/PD (Models A, B, and C) (w/o Field Change 2)	Cs-137	296 kBq (8 µCi)	29.630	Yes	
IM-239/WDQ	Tc-99	7.4 kBq (0.2 µCi)	0.001	No*	*If < 1350
IM-247/PD (all models)	Tc-99	16.65 Bq (450 pCi)	0.000002	No*	*If < 600k
IM-249/PD, IM-254/PD (all models)	Tc-99	16.65 Bq (450 pCi)	0.000002	No*	*If < 600k
IM-253/SOURCE SET	Co-60	37 kBq (1 µCi)	0.370		
	Ba-133	37 kBq (1 µCi)	0.037	No*	*If < 2
	Cd-109	370 kBq (10 µCi)	0.370		
	Na-22	37 kBq (1 µCi)	0.037		
MX-2323/UD	Sr/Y-90 (6 ea)	555 Bq (.015 µCi)	0.056	No*	*If < 18
MX-MASS MCA SOURCE SET	Co-60 (2ea)	3.7 kBq (0.1 µCi)	0.037		
	Ba-133	3.7 kBq (0.1 µCi)	0.004	No*	*If < 3
	Co-60/Cs-137	3.7 kBq (0.1 µCi)	0.370		
	Na-22	3.7 kBq (0.1 µCi)	0.004		
TS-1189/PD (plain model)	Cs-137	25.9 MBq (700 µCi)	2592.593	Yes	
TS-1189B/ PD	Cs-137	27.75 MBq (750 µCi)	2777.778	Yes	
TS-1189C/PD	Cs-137	25.9 MBq (700 µCi)	2592.593	Yes	
TS-1189D/PD	Cs-137	27.75 MBq (750 µCi)	2777.778	Yes	

Purpose codes:

1. Calibration and/or Repair
2. Excess/Turn in
3. Return to Customer
4. Return to Stock/Pool
5. Refurbish/restoration
6. Transfer/cross deck as authorized by TYCOM or RFM
7. Other

SIGNATURE AND TALLY RECORD <i>(See DoD 4500.9-R for guidance)</i> <i>(Use of equivalent carrier-furnished signature and tally record is acceptable.)</i>		<i>Form Approved</i> <i>OMB No. 0702-0027</i> <i>Expires Jan 31, 2006</i>		
The public reporting burden for this collection of information is estimated to average 3 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0702-0027). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.				
PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ORGANIZATION. RETURN COMPLETED FORM AS DIRECTED IN THE DISTRIBUTION INSTRUCTIONS BELOW.				
DISTRIBUTION INSTRUCTIONS				
(1) The SHIPPER will print two copies, retain one copy and give one to the Origin Carrier. (2) The ORIGIN CARRIER will deliver one copy with original signatures to the Destination Carrier. (3) The DESTINATION CARRIER will attach one copy (reflecting all original signatures) and Standard Form 1113, Public Voucher for Transportation Charges, to the original Government Bill of Lading and forward for payment. Reproduced completed copy of DD Form 1907 will be delivered to the Consignee and one will be retained. (4) The CONSIGNEE will ensure Destination Carrier surrenders a reproduced copy of completed form with all signatures.				
SECTION I - TO BE COMPLETED BY THE SHIPPER				
1a. SHIPPER NAME		b. ORIGIN		
2. PROTECTIVE SERVICE REQUESTED		3. GBL OR CBL NUMBER		
4a. CONSIGNEE NAME		b. DESTINATION		
5. PERMIT NUMBER <i>(If any)</i>		6. TRANSPORTATION CONTROL NUMBER		
7. ROUTING		8. WEIGHT	9. CUBE	
10. SPECIAL INSTRUCTIONS			11. DATE SHIPMENT TENDERED TO CARRIER (YYYYMMDD)	
12. NAME OF CARRIER			13. NUMBER OF PIECES	
14. TYPE OF PACKAGE(S) <i>(For unsealed loads only)</i> OR CONVEYANCE IDENTIFICATION AND SEAL NUMBERS <i>(For sealed loads only)</i>		15. FREIGHT CLASSIFICATION DESCRIPTION		
SECTION II - TO BE COMPLETED BY EACH PERSON ACCEPTING CUSTODY OF CLASSIFIED OR PROTECTED MATERIAL REQUIRING THE USE OF TRANSPORTATION PROTECTIVE SERVICE DURING TRANSIT				
16. CUSTODY RECORD				
PRINT NAME OF PERSON AND COMPANY REPRESENTED a.	STATION INTERCHANGE POINT DESTINATION b.	SIGNATURE OF PERSON ACCEPTING CUSTODY c.	TIME ACCEPTED d.	DATE ACCEPTED (YYYYMMDD) e.

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16. CUSTODY RECORD (Continued)				
PRINT NAME OF PERSON AND COMPANY REPRESENTED a.	STATION INTERCHANGE POINT DESTINATION b.	SIGNATURE OF PERSON ACCEPTING CUSTODY c.	TIME ACCEPTED d.	DATE ACCEPTED (YYYYMMDD) e.

