

**From:** Allen, William

**Sent:** Thursday, January 26, 2017 11:50 AM

**To:** Byrd, Nache <Nache.Byrd@nrc.gov>; Gallardy, Vivian <Vivian.Gallardy@nrc.gov>

**Subject:** FW: Model 2000 71.95 Report Follow-Up

Please enter the attached "Document.pdf" into ADAMS using the attached 665. If you have any questions, call me at (301) 545-6056. Chris

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**From:** Murray, Scott P. (GE Power) [<mailto:Scott.Murray@ge.com>]

**Sent:** Monday, January 23, 2017 2:07 PM

**To:** Allen, William <[William.Allen@nrc.gov](mailto:William.Allen@nrc.gov)>

**Subject:** [External\_Sender] Model 2000 71.95 Report Follow-Up

Per our discussion today, attached is a copy of the bill of lading, before and after survey results. Let me know if you need anything else.

**STRAIGHT BILL OF LADING-SHORT FORM-Not Negotiable**

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this bill of lading, the property described below, in apparent good order, except as noted (contents and conditions of contents of packages unknown), marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party of anytime interested in all or any of said property, that every service to be performed hereunder shall be subject to all terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

<b>PICKUP ADDRESS</b> [Redacted]	Bill of Lading No. <b>E 2016-05</b> Date <b>3/10/2016</b>
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Attn.: [Redacted]	<input checked="" type="checkbox"/> Prepaid <input type="checkbox"/> Collect <input type="checkbox"/> 3 <sup>rd</sup> Party Account to Charge: <b>Project 131459 / Task No. 100</b>
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<b>DELIVERY ADDRESS</b> GE Hitachi Nuclear Energy Americas, LLC Vallecitos Nuclear Center 6705 Vallecitos Road, Sunol CA., 94586 Attn.: [Redacted]	<b>CARRIER:</b> For payment, attach copy of this Bill of Lading and/or your freight bill and submit electronically or send hardcopy to: <b>GE Nuclear -Trax Technology MS/G02</b> <b>7100 E. Belleview Ave., Suite 107</b> <b>Greenwood Village, CO. 80111</b>
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<b>CARRIER:</b> TSMT Company <b>ETA:</b> 3/12/16 0900 hrs. <b>Tele. No.:</b> 800-872-8768	<b>CHEMTREC 24-H EMERGENCY TELEPHONE NO. 800-262-8200 ACCOUNT NO.: CCN726830</b>
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*Reference DOT Emergency Response Guidebook #163*

QUANTITY	DESCRIPTION AND IDENTIFICATION OF ARTICLES	NMFC NUMBER	WEIGHT
1	<b>RQ, UN2916, RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE,7</b> <b>Highway Route Controlled Quantity (HRCQ)</b> Type B Package: USA/9228/B(U)F-96 Model 2000, S/N 2002 Radionuclide: Co-60                      Activated Cobalt Mass: 484.4 g Form: NORMAL, SOLID                      Chemical Form: METAL-OXIDE Activity: [Redacted] as of March 10, 2016 Transport Index: 2.4                      88 mSv/hr (8.8 mRem/hr) at Package Surface Label: YELLOW III                      Placards Required: YES Security Seal No.: 011347 <i>&lt; 0.1mSv/hr @ CAB ORK 3/10/16</i> Exclusive-Use Instructions: <i>Driver has COPY</i>		33,550 lbs.
1	Tool Box (Non-Hazardous)    Security Seal No. <b>028810</b>		150 lbs
1	Ladder (Non-Hazardous)		50 lbs.
Driver has Emergency Response Guidebook <b>2012 OK</b> TRACTOR No.: <b>45025</b> TRAILER No.: <b>729014</b> DRIVER(S): [Redacted]			
<i>Carrier shall maintain control of "Shipment" until receipt by Consignee. Any condition which may cause deviation to the above delivery date and time, or in the event of an emergency, accident, or theft, Driver (or Dispatcher) shall notify Chemtrec and [Redacted] (GEH Vallecitos Nuclear Center) on the 24-Hour Emergency Telephone and on [Redacted], respectively.</i>			

"This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation."

<b>Total Count</b> 3	Shipper, per: [Redacted]    Agent, per: [Redacted]	<b>Total Weight</b> 33,750 lbs.
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CPS RADIOLOGICAL SURVEY SHEET

Survey Index No  
3-8-16 - 13  
Date IndexNo

Misc/Valves/Equipment - O'EL.  
Flatbed with 'B'-Type Shipping Cask

Pg 1 of 2

Date: 3-8-16 Time: 1150  
Type:  RWP  Other: Shipping  
Performed By: [Redacted]  
Counted By: [Redacted]  
Reviewed By: [Redacted] Date: 3-9-16

Inst. Type  
Serial #  
Cal Due Date

Telepole
334718
1-7-17

RADIATION CONTAMINATION

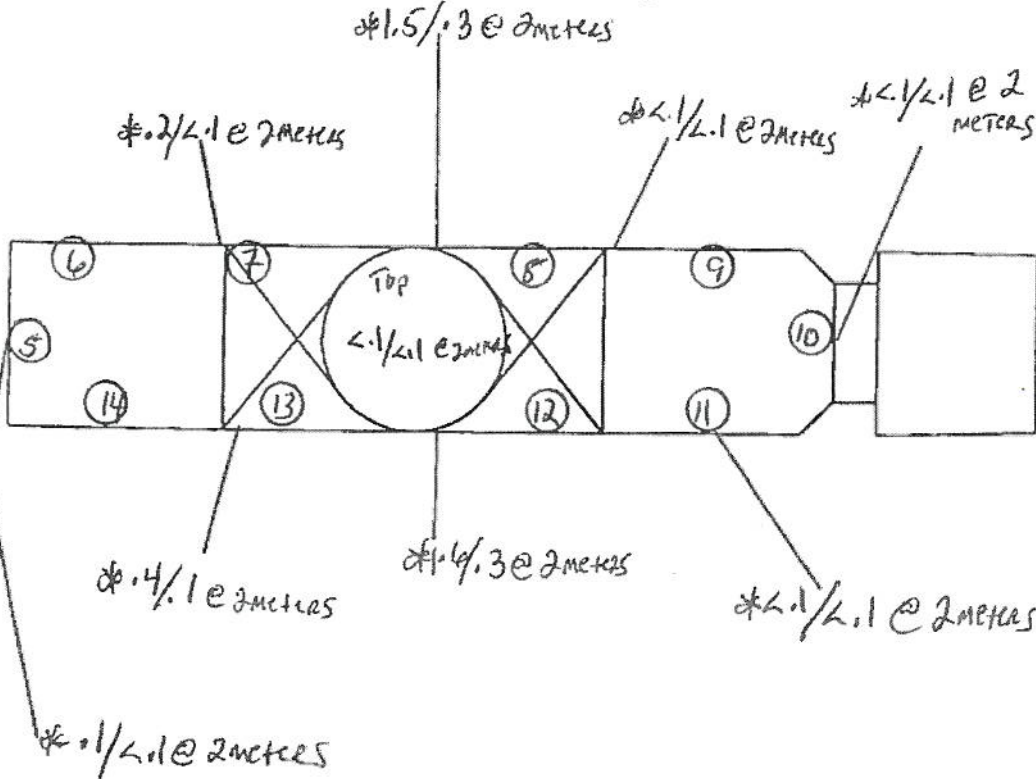
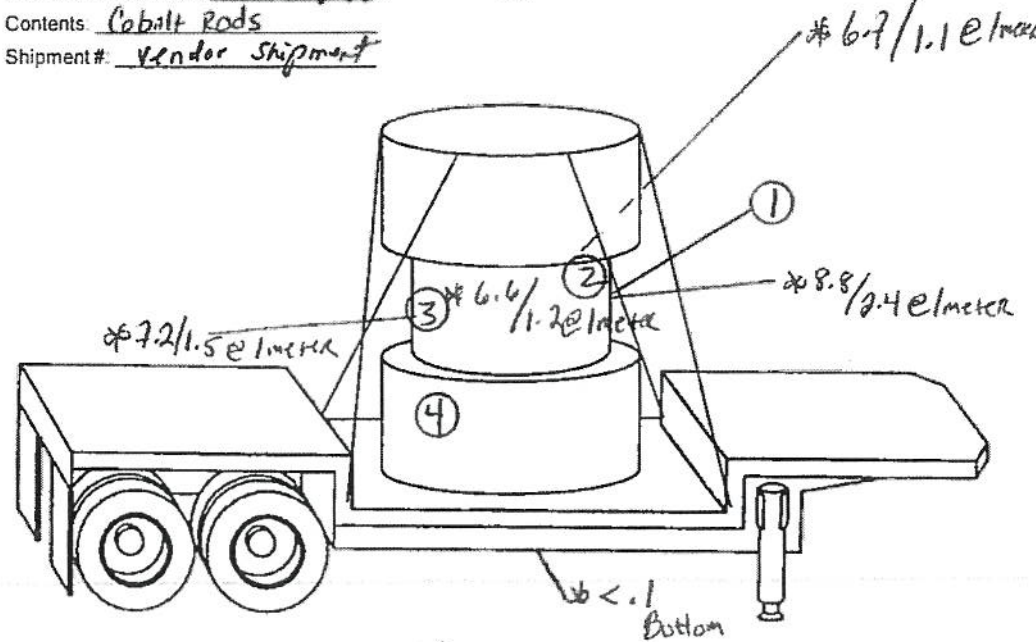
Tennelec SSE
11456
3-10-16

Rx Power 99.190

Bkgd. 10/3.1 (cpm)

Cask ID# 2000-2002  
Liner ID# N/A  
Trailer# 729014  
Trailer License Plate# 17A 932 MD  
Contents Cobalt Rods  
Shipment# Vendor Shipment

COPY



No	dpm/100cm <sup>2</sup>	Smear/Location	No	dpm/100cm <sup>2</sup>	Smear/Location
1	See	OVER PACK			
2	Attached				
3	Four				
4	Smear				
5	Results				
6					
7					
8					
9					
10					
11					
12					
13					
14					

Remarks: 3-8-16  
MRRR/RWP: 100-1600339  
Shipping Survey for  
Cobalt Cask with  
OVER PACK

Movement of outdoor containers  
documented in 'Outdoor Container  
Log' per RP-AA-500-1001 (if  
applicable) N/A (Initial)

Tech Dose Received: .5 mR

Notes: Gross Mass (m) (100 g)

- 1 Gen Area Dose Rates in mRem/hr
- 2 \*#/# = Contact/30cm Dose Rates
- 3 Smears Taken at Circled Locations
- 4 X X = Radiological Boundary
- 5 RCA = Radio logical Control Area
- 6 CA = Contaminated Area
- 7 HCA = High Contamination Area
- 8 RA = Radiation Area
- 9 HRA = High Radiation Area
- 10 LHRA= Locked High Rad ation Area
- 11 T = Transfer Area
- 12 CAB = Clean Area Boundary



HITACHI

VALLECITOS NUCLEAR CENTER  
NUCLEAR SAFETY SURVEY RECORD

SURVEYOR (print and sign) \_\_\_\_\_ NO. W-018  
 LOCATION 102 DATE 3-12-14  
 TIME: 0600

Item No.	REASON Routine Special	ITEMS OR LOCATION	DOSE RATE				DIRECT READING			SMEAR READINGS				AREA			
			$\beta$ mRad/h	$\gamma$ mR/h	$n$ mRem/h	TOTAL mRem/h	Distance	$\beta\gamma$ CPM	$\beta\gamma$ dPM	$\alpha$ CPM	$\alpha$ dPM	$\beta\gamma$ CPM	$\beta\gamma$ dPM		$\alpha$ CPM	$\alpha$ dPM	
1		2002 Cass/c		8		8	0	0									
2				2.3		2.3	8'										
3																	
4																	
5		Tool Box		41		41	0										
6																	
7																	
8		Trailer # 7090 H Bed															
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
INSTRUMENT USED			RO-3	PRM-7	CP-5	RO-	PNR-4	TBM-	E-120	RM-	RM-	PAC-1SA	LUOLUM-12	Ludlum-3			
SERIAL NUMBER			193						1340					1938			
Area Posted (if applicable)			RA	HRA	CA	RMA	AIRBORNE		PROBE	$\alpha$ AC-3A (U)	10%	$\beta\gamma$ PANCAKE	20%				
COMMENTS									EFF.	$\alpha$ 43-4 (U)	10%	EFF.					
									(4 P			(4 P					
									GEO.)			GEO.)					