



DEFENSE LOGISTICS AGENCY  
DEFENSE NATIONAL STOCKPILE CENTER  
1745 JEFFERSON DAVIS HIGHWAY  
ARLINGTON, VIRGINIA 22202



IN REPLY  
REFER TO

DNSC-O (Kevin Reilly/703-607-3227/jnp)

29 SEP 1994

SUBJECT: Additional Information for Close out Survey of Seneca Army Depot  
Warehouse 356, Section D

MS 16  
P-6

U.S. Nuclear Regulatory Commission  
Research and Development Section  
Nuclear Materials Safety Branch  
Division of Radiation Safety and Safeguards  
attn.: Ms. Penny Nessen  
475 Allendale Road  
King of Prussia, PA 19406-1415

040-00341  
STC-133

Dear Ms. Nessen:

We are in receipt of your 22 August 1994, letter requesting additional information regarding our close out survey for Warehouse 356, section D at the Seneca Army Depot, Romulus, NY. Please note that the material was stored in warehouse 356 section D, not Warehouse 357, Section D

\* As indicated in our initial submittal some of the columbium/tantalum material was shipped to Cabot Performance Materials Co. for upgrading into columbium/tantalum metal. Upon completion of the upgrading, the converted metal will be returned to the stockpile. The remainder of the material was relocated to our licensed facility in Binghamton, NY( Enclosure 1 - Shipping papers enclosed for both moves).

\* The material has always been stored in sealed metal drums as noted in our inventory records.

\* The term residue was a mistake in verbiage and should not be construed as "radioactive residue". During the rebanding of drums to pallets for shipping, bits and pieces of banding are discarded, so we swept the area clean after the project and that was what was meant by the statement that "residue is left in the storage area from banding operations performed prior to the shipment of the ore." This was a poor choice of words. As noted in the report all radiological readings were "normal background", all swipes of the drums and floor showed no removable radioactive contamination and all the drums that were shipped were in sound condition and no leaks were observed in the warehouse or transport vehicles, or at the final destination. Since there were no leaking containers and no removable contamination, no survey was performed on the bits and pieces of banding remaining in the area.

119798

OFFICIAL RECORD COPY ML 10

OCT - 3 1994

\* Normal background radiation vary from location to location, building to building, State to State. The average reading noted outside building 357 which has never contained any radioactive commodity was 15ur/hr. I understand it is due to the slate in the local area. This background reading was the same reading obtained inside warehouse 356 section D after the material was removed. Remember, this material was all in sealed sound metal drums that did not leak any of the contents. Due to the containerization of this material I would expect readings at or near background.

\* The 5' X 5' grid per 25 grids was a special area where several lots of columbium/tantalum showed higher than normal readings during our annual surveys. We always considered these particular lots "hotter" than the rest of the material, therefore we spent more time surveying this particular storage grid. This was also the material we shipped to Cabot for upgrading into metal. The remainder of the storage area was surveyed and showed nothing above normal background.

\* Yes we only surveyed the area that stored the columbium/tantalum. Specifically warehouse 356, section D as noted in the report. There is no reason to survey other areas that did not contain this radioactive commodity. Warehouse 356, Section E is separated by a fire wall and never stored any radioactive commodities. We only stored Vegetable Tannin in one section of warehouse 357.

I hope this information satisfies your review process. Should you need even more information please feel free to contact me. If you are planning a confirmatory visit please contact me so I can have a representative meet you at Seneca for your survey. I can be reached on 703-607-3227.

Encl



F. KEVIN REILLY  
Environmental Protection  
Specialist

# COMMODITY INSPECTION REPORT

CONTRACT NO. DLA-300-92-C-0057		COMMODITY COLUMBIUM/ TANTALUM CONCENTRATES		CHECK <input type="checkbox"/> SALES <input checked="" type="checkbox"/> UPGRADE <input type="checkbox"/> PROCUREMENT	
RELEASE OR S/I NO. 2-SENECA		LOT NUMBER 27010		INSPECTION REPORT NO. 2	
PURCHASER <del>OR CONTRACTOR</del> UPGRADER CABOT PERFORMANCE MATERIALS		PROGRAM NDS		REGION NO. DNSZ-NY	
CONSIGNEE <del>OR SUBCONTRACTOR</del> CABOT PERFORMANCE MATERIALS		ADDRESS COUNTY LINE ROAD, BOYERTOWN, PA 19512		DATE OF INSPECTION 26 JANUARY 1993	
PERSON CONTACTED (NAME & TITLE) DENNIS WELLS, CHIEF GENERAL SUPPLY DIVISION		ADDRESS 300 HOLLY ROAD, BOYERTOWN, PA 19512		LOCATION OF MATERIAL INSPECTED SENECA ARMY DEPOT, ROMULUS, NEW YORK	
INSPECTION, SAMPLING AND ANALYSIS		DESCRIPTION OF PACKAGING (INCLUDE TYPE OF CONVEYANCE)			
SAMPLES TAKEN (✓) N/A		ANALYSIS (✓) N/A			
BY CONTRACT SAMPLER/ANALYST		BY PURCHASER OR CONTRACTOR			
BY INSPECTOR		BY GOVERNMENT'S ANALYST			
WITNESSED <input type="checkbox"/> YES <input type="checkbox"/> NO		WITNESSED <input type="checkbox"/> YES <input type="checkbox"/> NO			
OTHER		TYPES OF ANALYSES			
		NO. UNITS			
		PER			
		PER			
INSPECTION		IDENTITY OF SAMPLE N/A			
VISUAL 100 %		FORWARDING DATE			
DIMENSIONAL %		SAMPLE NO.			
FOR MARKING 100 %		LOT NO.			
DISTRIBUTION OF SAMPLES (GIVE COMPLETE ADDRESS)					
1. N/A 2. N/A 3. N/A					

TANTALUM/COLUMBIUM CONCENTRATES:  
Material packaged in 29" X 20" steel painted drums placed on wooded pallets. Drums secured with 1 1/4" steel strapping.

CARRIER: Ranger Trucking

DESCRIBE METHOD OF INSPECTION, SAMPLING AND/OR SAMPLE PREPARATION (USE ATTACHED SHEETS, IF NECESSARY)

SEE ATTACHMENT

REMARK LOT NO.	QUANTITY SAMPLED	QUANTITY ACCEPTED OR SOLD	QUANTITY REJECTED	APPROXIMATE VALUE QTY REJECTED	DESCRIPTION OF MATERIAL
27010	N/A	N/A	N/A	N/A	COLUMBIUM/TANTALUM IN DRUMS

REASON FOR REJECTION

DISTRIBUTION	<input checked="" type="checkbox"/> Q. A. DIVISION	<input type="checkbox"/> Q. A. ZONE BRANCH	<input type="checkbox"/> SUPERVISORY Q. A.
	<input type="checkbox"/> ORIGINATING DEPOT	<input type="checkbox"/> STOCKPILE OP. DIVISION	<input type="checkbox"/> CONTRACTING OFFICER
	<input type="checkbox"/> FINANCE	<input type="checkbox"/> CONTRACTOR	<input checked="" type="checkbox"/> OTHER (SPECIFY) DNSZ-NYW(BI), DNSZ-NYQ(BI)
INSPECTOR (SIGNATURE) MARY L. DAVIDSON QAS			DATE 28 Jan 1993

CONTINUATION DLAH FORM 32  
COLUMBIUM AND TANTALUM SHIPMENTS  
CONTRACT NO.: DLA-300-92-C-0057  
SENECA ARMY DEPOT, ROMULUS, NEW YORK  
26 JANUARY 1993

This report is written to document the inspection of material and the witnessing of Tantalum/Columbium Concentrates outloaded on the 26th of January from Seneca Army Depot by the writer of this report. Material was outloaded against Release No.: 2 Seneca, dated 22 January 1993 in compliance with the contract referenced above. This shipment marks the first shipment against this release. The release is not complete upon issuance of this report.

The material was loaded into clean sound van type trailers per the driver's instructions. Trailer wheels were blocked to prevent shifting during the loading operation. For proper weight distribution, pallets were placed down the middle of the trailer.

All of this material is licensable source material and prior to it's shipment each drum was swiped and analyzed for radioactive contamination. This information is on file at Seneca Army Depot with the Radiation Protection Officer, Mike Lewis. Additionally all of the drums were blocked and braced in accordance with DOT and NRC regulations and upon departure the van was checked for gamma radiation emission. Once again this data is on file with Mike Lewis, Radiation Protection Officer for Seneca Army Depot. The results of this monitoring for radioactive emission/contamination proved this shipment complied with the directives of the DOT, the NRC and Seneca Army Depot. Each drum was affixed with a tag identifying it as LSA material.

No weighing was performed as directed in the shipping order dated 22 January 1993. For shipping purposes only, mathematical averaging of individual book record weights were utilized and are presented below:

TRAILER NUMBER	TRAILER LIC. NO.	UNITS	POUNDS GR. WT.	NET WT.	DOOR SEAL
88126	030688S(PA)	56	40,656	39,200	KB02430
23265	TP51880(PA)	56	40,656	39,200	KB02429
TOTALS:		112	81,312	78,400	

DATE: 26 Jan 93

COMMENTS:

Weather Conditions: S-(Sunny & Clear); C-(Cloudy); PC-(Partly Cloudy); R-(Rain); SH-(Showers); T-(Thunderstorms); SN-(Snow); SL-(Sleet); F-(Fog)