

ATTACHMENT 1



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

040-00341

12 JUL 1990

IN REPLY
REFER TO

DNOSC-OD (Kevin Reilly/746-7342/jm)

SUBJECT: Facility Release and Amendment Request

U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406
ATTN: Mr. John Kinneman, Chief
Nuclear Material Safety Section B
Division of Radiation Safety and Safeguards

Dear Mr. Kinneman:

The Defense National Stockpile Center (DNOSC) is submitting the following information for your review and concurrence to release the previously used storage section at the U.S. Naval Weapons Support Center, Crane, Indiana. This is also a request for you to amend our Nuclear Regulatory Commission (NRC) source material license No. STC-133 to delete this site as a licensed facility.

In an effort to further consolidate DNOSC storage sites and maintain direct control of our stockpile commodities, 584 drums totalling 226,372 pounds of columbium/tantalum source material was relocated from the U.S. Naval Weapons Center, Crane, Indiana to the DNOSC New Haven Depot, New Haven, Indiana. This relocation project was performed during the week of 16 April 1990.

Prior to shipment all drums were inspected and monitored on contact. All drums were intact and sound showing no signs of damage or leakage and the average contact radiation readings ranged between 0.040 - 0.045 Mr/hr. Each transport vehicle was monitored prior to shipment and when they were unloaded at our New Haven facility. All vehicles showed radiation levels to be well within background levels (see enclosed shipping papers).

Upon completion of this project the entire warehouse section at the Crane Naval facility was swept clean and all floor sweeping were collected and included with the relocated material. A complete radiological survey was then conducted in the storage section and revealed levels commensurate with background. The maximum radiation level recorded in the storage section was 0.020 Mr/hr. (background average - 0.020 Mr/hr).

112869

DNSC-OD

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SUBJECT: Facility Release and Amendment Request

In summary, all drums containing the Low Specific Activity (LSA) radioactive columbium and tantalum source material were intact. The material and transport vehicles were monitored at both the shipping and receiving locations and all readings were commensurate with background radiation readings.

In following along with NRC'S new policy on Below Regulatory Concern (BRC), we clearly feel this area can easily be open for unrestricted use. Since we have completely relocated all the radioactive source material at this site we also respectfully request this site be removed from our source material license No. STC-133.

Should you have any questions or require additional information please contact Mr. Kevin Reilly of my staff on (703) 746-7342.

Encls



KERMIT L. FRYE, JR.
Director,
Directorate of Stockpile
Operations

25 June 90

SUBJECT: N. R. C. Material License

TO: DNSC-D

1. One of the radioactive materials on our NRC Material License is columbium tantalum source material which contains uranium. Columbium tantalum source material was relocated from the Naval Weapons Support Center, Crane (NWSCC), Indiana to the DLA/Defense National Stockpile Depot at New Haven, Indiana, during the week of 16 April 1990. This relocation will require an amendment to our NRC License, removing NWSCC as a storage location and increasing the amount of licensable columbium tantalum source material stored at the DLA/DNSZ-New Haven, Indiana Depot.
2. Relocation consisted of 347 drums (84,598 lbs) of columbium natural minerals, 237 drums (141,774 lbs) of tantalum natural minerals, and two (2) drums of floor sweepings from Contract SEC-TS-1107.
3. The relocation of this material to the DLA/Defense National Stockpile Zone Depot results in having 2,110 drums (454,060 lbs) of columbium natural minerals, 3,224 drums, boxes and bags (809,112.25 lbs) of tantalum natural minerals and two (2) drums of floor sweepings from Contract SEC-TS-1107 being stored at this location.
4. The average contact radiation reading of the columbium natural minerals is 0.450 Mr/Hr. The Average contact radiation reading of the tantalum natural minerals is 0.400 Mr/Hr.
5. On 15 May 1990, Allen Bixler, Chief, Quality Assurance Division, conducted a radiation survey of the vacated storage space, inspection aisles and loading dock of warehouse 2067 at NWSCC. (Forms DLAH 30 attached) A Dosimeter FAG FH40F6 Kugelshcher radiometer (Geiger counter) calibrated on 14 March 1990 was utilized in this survey. The maximum radiation reading in warehouse 2067 was 0.020 Mr/Hr. The normal background reading at NWSCC is 0.020 Mr/Hr.

DNSZ-HMD

PAGE 2

25 June 90

SUBJECT: N. R. C. Material License

6. A copy of this memorandum with attachments is being forwarded to Kevin Reilly (DNSC-OD) for appropriate action.

R. H. Bretz

Encl

ROBERT H. BRETZ
Zone Administrator
Defense National Stockpile Zone (HMD)

Concurrence: HMO

Allen R. Ripley

cc: DNSC-OD ✓

Ofc. file HMD

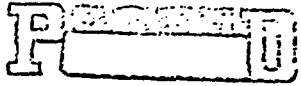
Reading file HMD

HMO

HMO

3320

1. NAME AND LOCATION OF DEPOT OR FACILITY Naval Weapons Support Center Crane, IN	2. NAME AND TYPE OF COMMODITY Columbium Tantalum Source Material Tantalum Natural Minerals	3. SERIAL NO. 71 FINAL
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5. DATE OF INSPECTION	A. LAST 26 Apr 89	B. THIS 15 May 90	6. TYPE OF STORAGE AND SPECIFIC DEPOT AREA Warehouse location - 2067	
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7. NAME AND TITLE OF PERSON RESPONSIBLE FOR MATERIAL Mr. Larry Howard, Material Division Manager	7A. TEL. NO. OR CODE 812-854-1437	7B. EXTENSION
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INSPECTION DATA (Check and complete. Explain negative responses)

		YES	NO
8. STORAGE	A. Storage Facilities Are of the Type Prescribed in the Storage Manual		
	B. Storage Facilities Are Maintained in Good Order		
9. MATERIAL	A. Material Is Stored in the Manner Prescribed in the Storage Manual		
	B. Material Is Free of Deterioration, Infestation, Contamination, Commingling, Migration and Erosion		
10. RECORDS	A. Depot Manager Confirmed that all entries have been Posted.		
	B. Depot Postings indicate last RR No. _____ dated _____ ; Last OSR No. _____ dated _____		
11. UNITS	Quantity indicated in Item 14a reflects Depot Posting and agrees with actual and/or computed count.		
12. SECURITY AND FIRE PROTECTION	Security and Fire Protection are being provided in accordance with Quality Assurance and Materials Inspection Handbook and Storage Manual Requirements.		
13. CONTAINERS, PILES, OR OTHER UNITS	A. Material is Stored in Proper Containers (Check only if applicable)		
	B. All Containers, Piles and/or Units Are Marked as Prescribed in the Storage Manual		
	C. Condition of Containers (Give exact number in Class III under remarks)	(1) CLASS I %	(2) CLASS II %

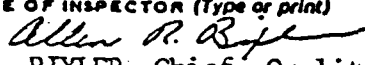
14. DESCRIPTION OF CONTAINERS, PILES, OR OTHER UNITS

PROGRAM g.	TYPE (Pile, case, ingot, bale, etc.) b.	WIDTH c.	LENGTH d.	HEIGHT e.	DIAMETER f.	9. WEIGHT OF UNIT		TOTAL NUMBER OF UNITS h.	1. TOTAL WEIGHT	
						(1) GROSS	(2) NET		(1) GROSS	(2) NET

15. REMARKS (Review all other appropriate questions contained in "guide for the inspection of stockpiled materials and storage facilities," and, if deficiencies are found, give the appropriate guide numbers and complete details in this block)
 Material was relocated to the New Haven Depot, New Haven, IN., the week of 16 Apr 1990. All material was shipped. Vacated warehouse space is clean. Vacated space was checked with a Dosimeter FAG FH40F6 radiometer, calibrated on 14 Mar 1990. The maximum radiation reading in warehouse 2067 was 0.020 MR/HR which is the normal background reading at NWSC, Crane, IN

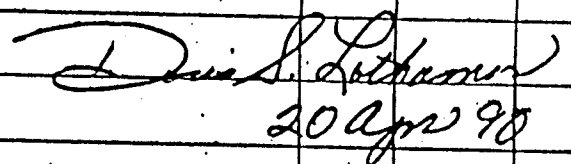
16. RECOMMENDATIONS (Not to be construed by storage depot or facility as authorization to proceed with remedial measures beyond the scope of usual authority)

Warehouse space should be released for unrestricted use.

17. DISTRIBUTION	<input checked="" type="checkbox"/> Q. A. DIVISION <input checked="" type="checkbox"/> ORIGINATING DEPOT <input type="checkbox"/> FINANCE	<input checked="" type="checkbox"/> Q. A. ZONE BRANCH <input checked="" type="checkbox"/> STOCKPILE OP. DIVISION <input type="checkbox"/> CONTRACTOR	<input type="checkbox"/> SUPERVISORY Q. A. <input type="checkbox"/> CONTRACTING OFFICER <input checked="" type="checkbox"/> OTHER (specify) HMW-WA/ HMW-HA/ HMW-NH
18. NAME OF INSPECTOR (Type or print) Alien R. Bixler		18A. SIGNATURE 	
18B. DATE OF SIGNATURE 16 May 90			

TRANSPORTATION CONTROL AND MOVEMENT DOCUMENT

PAGE NO.

1. DOC. TJ0	2. TRLR-CONT 9736356		3. CONSIGNOR N00164 NWSC CRANE IN			4. COMM-SPEC HDLG				5. AIR DIM		6. POE		7. POD								
8. MODE P	9. PACK PI	10. TRANS CONTROL NO. N00164 0099 A131 XZX			11. CONSIGNEE DEN NEW HAVEN INDIANA				12. PRI 2	13. ROB 117	14. PROJ	15. DATE SHPD 0109		16. B10	17. N915-01							
18. CARRIER NAVY SEMI TRACTOR TRAILER	19. FLIGHT-TRUCK-VOY DOC. NO.			20. REF		21. REMARKS				22. PIECES		23. WEIGHT	24. CUBE									
25A. TRANSHIP POINT (11)			26. DATE REC.	27. BAY WHSE	28. DATE SHPD	29. MODE CARRIER		30. FLIGHT-TRUCK-VOY DOC. NO.			31. REF.	32. STOWLOC	33. SPLIT	34. COND.	35. SIGNATURE-REMARKS							
26A. TRANSHIP POINT (12)			26. DATE REC.	27. BAY WHSE	28. DATE SHPD	29. MODE CARRIER		30. FLIGHT-TRUCK-VOY DOC. NO.			31. REF.	32. STOWLOC	33. SPLIT	34. COND.	35. SIGNATURE-REMARKS							
27A. TRANSHIP POINT (13)			26. DATE REC.	27. BAY WHSE	28. DATE SHPD	29. MODE CARRIER		30. FLIGHT-TRUCK-VOY DOC. NO.			31. REF.	32. STOWLOC	33. SPLIT	34. COND.	35. SIGNATURE-REMARKS							
36. CONSIGNEE			37. DATE RECEIVED-OFFERED (Sign)			38. CONDITION		39. REMARKS														
40. DOC ID	41. TRAILER-CONTAINER	42. CONSIGNOR COMM ABBR OTHER	43. COMMODITY SPEC HDLG		44. VOY NO. AIR DIM A, POE B		45. POD	46. M CODE	47. TYPE PACK	48. TRANSPORTATION CONTROL NUMBER			49. CONSIGNEE	50. P R I	51. REMARKS AND/OR STOW LOC				52. ADDITIONAL REMARKS			
TJ6			TRAILER NUMBER 11		HAD A MAXIMUM RADIATION READING OF 0.016MR/HR,					WHICH IS WITHIN NORMAL BACKGROUND. THIS TRAILER IS RELEASED FOR UNRESTRICTED USE.					RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY, N.O.S.				UN2912		1	
TJ9															RADIOACTIVE MATERIAL UN2912 (COLUMBIUM/TANTALUM)						2	
TJ9																					3	
TJ9																					4	
	GRSS	46940								DEFENSE LOGISTICS AGENCY					 20 Apr 90							
	TARE	25250								DEFENSE NATIONAL STOCKPILE ZONE												
	NET	21690								NEW HAVEN DEPOT												
	SEAL	040751K								STATE HIGHWAY 14, 3 MILES EAST OF NEW HAVEN												
										NEW HAVEN, INDIANA 46774												
										PHONE (219)749-5953												

ID TJO		97-37793		COMMODITY NO0164 NWSC CRANE IN				4. COMM. SPEC. HDLG		9. AIR DIM		8. POE		7. POD													
9. MODE		B. PACK		10. TRANS. CONTROL NO. NO0164 0099 A131 KXX				11. CONSIGNEE DLA NEW HAVEN INDIANA				12. PM		13. RDD		14. PROJ		15. DATE SHPD		16. STA		17. TR ACCT					
I		PT		18. CARRIER NAVY SEMI TRACTOR TRAILER				19. FLIGHT-TRUCK-VOY DOC. NO.				20. REP		21. REMARKS		22. PIECES 8		23. WEIGHT 26110		24. CUBE N925							
25A. TRANSHIP POINT (1)				B. DATE REC.		C. BAY WHSE		D. DATE SHPD		E. MODE CARRIER		F. FLIGHT-TRUCK-VOY DOC. NO.		G. REP.		H. STOWLOC		I. SPLIT		J. COND.		K. SIGNATURE-REMARKS					
25B. TRANSHIP POINT (2)				B. DATE REC.		C. BAY WHSE		D. DATE SHPD		E. MODE CARRIER		F. FLIGHT-TRUCK-VOY DOC. NO.		G. REP.		H. STOWLOC		I. SPLIT		J. COND.		K. SIGNATURE-REMARKS					
25A. TRANSHIP POINT (3)				B. DATE REC.		C. BAY WHSE		D. DATE SHPD		E. MODE CARRIER		F. FLIGHT-TRUCK-VOY DOC. NO.		G. REP.		H. STOWLOC		I. SPLIT		J. COND.		K. SIGNATURE-REMARKS					
26. CONSIGNEE				29. DATE RECEIVED-OFFERED (Sign)				30. CONDITION				31. REMARKS															
32. DOC ID		33. TRAILER CONTAINER		34. CONSIGNOR COMM ABBR OTHER		35. COMMODITY SPEC HDLG		36. VOYNO. AIR DIM A B		37. POD		38. MOE		39. TYPE PACK		40. TRANSPORTATION CONTROL NUMBER		41. CONSIGNEE		42. REMARKS AND/OR STOW LOC				44. ADDITIONAL REMARKS OR			
TJ6						TRAILER NUMBER 10 HAD A MAXIMUM RADIATION READING OF 0.021 MR/HR, WHICH IS WITHIN NORMAL BACKGROUND. THIS TRAILER IS RELEASED FOR UNRESTRICTED USE.														UN2912							
TJ9																		RADIOACTIVE MATERIAL, LOW				1					
TJ9																		SPECIFIC ACTIVITY, N.O.S.				2					
TJ9																		RADIOACTIVE MATERIAL UN2912				3					
TJ9																		(COLUMBIUM/TANTALUM)				4					
		GROSS TARE NET SEAL		52520 26410 26110 0407510-14																DEFENSE LOGISTICS AGENCY DEFENSE NATIONAL STOCKPILE ZONE NEW HAVEN DEPOT STATE HIGHWAY 14, 3 MILES EAST OF NEW HAVEN NEW HAVEN, INDIANA 46774 PHONE (219)749-5953							
																				Doris Latham 20 Apr 90							

1. DUL ID	2. TMR CONT	3. CONSIGNOR	4. COMM. SPEC HDLG	5. DIM	6. VOL							
TJO	97-37794	NO0164 NWSC CRANE IN										
8. MODE	9. PACK	10. TRANS CONTROL NO	11. CONSIGNEE	12. PM	13. RDD	14. PROJ	15. DATE SHPD	16. ETA	17. TR ACCT			
1	PT	NO0164 0099 A131 XIX	DLA NEW HAVEN INDIANA	2	117		0109	0	N925			
18. CARRIER	19. FLIGHT - TRUCK - VOY DOC. NO.	20. RFF	21. REMARKS	22. PIECES	23. WEIGHT	24. CURB						
NAVY SEMI TRACTOR TRAILER				8	28140							
25A. TRANSHIP POINT (1)	B. DATE REC.	C. BAY WHSE	D. DATE SHPD	E. MODE CARRIER	F. FLIGHT-TRUCK-VOY DOC. NO.	G. RFF	H. STOWLOC	I. SPLIT	J. COND	K. SIGNATURE-REMARKS		
26A. TRANSHIP POINT (2)	B. DATE REC.	C. BAY WHSE	D. DATE SHPD	E. MODE CARRIER	F. FLIGHT-TRUCK-VOY DOC. NO.	G. RFF	H. STOWLOC	I. SPLIT	J. COND	K. SIGNATURE-REMARKS		
27A. TRANSHIP POINT (3)	B. DATE REC.	C. BAY WHSE	D. DATE SHPD	E. MODE CARRIER	F. FLIGHT-TRUCK-VOY DOC. NO.	G. RFF	H. STOWLOC	I. SPLIT	J. COND	K. SIGNATURE-REMARKS		
28. CONSIGNEE	29. DATE RECEIVED-OFFERED (Sign)	30. CONDITION	31. REMARKS									
32. DOC ID	33. TRAILER-CONTAINER	34. CONSIGNOR COMM ARBR OTHER	35. COMMODITY SPEC HDLG	36. VOYNO. AIR DIM A	37. POD	38. ROD	39. TYPE PACK	40. TRANSPORTATION CONTROL NUMBER	41. CONSIGNEE	42. P R I	43. REMARKS AND/OR	44. ADDITIONAL REMARKS OR
TJ6			TRAILER NUMBER 9 HAD A MAXIMUM RADIATION READING OF 0.019R/HR, WHICH IS WITHIN NORMAL BACKGROUND. THIS TRAILER IS RELEASED FOR UNRESTRICTED USE.									UN2912
TJ9												1
TJ9												2
TJ9												3
TJ9												4
	GROSS TARE NET SEAL	53680 35540 28140 0407521-22						DEFENSE LOGISTICS AGENCY DEFENSE NATIONAL STOCKPILE ZONE NEW HAVEN DEPOT STATE HIGHWAY 14, 3 MILES EAST OF NEW HAVEN NEW HAVEN, INDIANA 46774 PHONE (219)749-5953				

ID TJO		97-37791		A. COMM. SPEC HDLG NO0164 NWSC CRANE IN				3. AIR DIM		6. POE		7. POD											
8. MODE I		9. PACK PT		10. TRANS CONTROL NO. NO0164 0099 A131 XHX				11. CONSIGNEE DLA NEW HAVEN INDIANA				12. PTA 0		17. TR ACCT N925									
18. CARRIER NAVY SEMI TRACTOR TRAILER		19. FLIGHT - TRUCK - VOY DOC. NO.				20. REF		21. REMARKS				22. PIECES 8 PLT		23. WEIGHT 28530		24. CUBE							
25A. TRANSHIP POINT (1)		B. DATE REC.		C. BAY WHSE		D. DATE SHPD		E. MODE CARRIER		F. FLIGHT-TRUCK-VOY DOC. NO.				G. REF		H. STOWLOC		I. SPLIT		J. COND		K. SIGNATURE-REMARKS	
26A. TRANSHIP POINT (2)		B. DATE REC.		C. BAY WHSE		D. DATE SHPD		E. MODE CARRIER		F. FLIGHT-TRUCK-VOY DOC. NO.				G. REF		H. STOWLOC		I. SPLIT		J. COND		K. SIGNATURE-REMARKS	
27A. TRANSHIP POINT (3)		B. DATE REC.		C. BAY WHSE		D. DATE SHPD		E. MODE CARRIER		F. FLIGHT-TRUCK-VOY DOC. NO.				G. REF		H. STOWLOC		I. SPLIT		J. COND		K. SIGNATURE-REMARKS	
28. CONSIGNEE		29. DATE RECEIVED-OFFERED (Sign)				30. CONDITION				31. REMARKS													
32. DOC ID	33. TRAILER-CONTAINER	34. CONSIGNOR COMM ABBR OTHER	35. COMMODITY SPEC HDLG	36. VOY NO.		37. POD	38. M	39. TYPE PACK	40. TRANSPORTATION CONTROL NUMBER	41. CONSIGNEE	42. P R I	43. REMARKS AND/OR STOW LOC					44. ADDITIONAL REMARKS OR						
				AIR DIM A	POE B							ROD A	PROJ B	SHPD C	ETA D	TAC E	PIECE A	WEIGHT B	CUBE C				
TJ6			TRAILER NUMBER 8 HAD A									MAXIMUM RADIATION READING OF 0.015 MR/HR, WHICH IS WITHIN NORMAL BACKGROUND. THIS TRAILER IS RELEASED FOR UNRESTRICTED USE.					UN2912						
TJ9												RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY, N.O. S.											
TJ9												RADIOACTIVE MATERIAL UN2912 (COLUMBIUM/TANTALUM)											
TJ9												RADIOACTIVE MATERIAL UN2912 (COLUMBIUM/TANTALUM)											
	GROSS		53 570									DEFENSE LOGISTICS AGENCY DEFENSE NATIONAL STOCKPILE ZONE NEW HAVEN DEPOT STATE HIGHWAY 14, 3 MILES EAST OF NEW HAVEN NEW HAVEN, INDIANA 46774 PHONE (219)749-5953											
	TARE		23 070									Doris S. Lottman 20 Apr 90											
	NET		28 530																				
	SEAL		0407558-59																				

TRANSPORTATION CONTROL AND MOVEMENT DOCUMENT

1. DOC ID TJO	2. TMR CONT 94-3778	3. CONSIGNOR N00164 NWSC CRANE IN	4. COMM. SPEC HDLS	5. AIR DIM	6. POS	7. POD
8. MODE I	9. PACK PT	10. TRANS CONTROL NO. N00164 0099 A131 XFX	11. CONSIGNEE DLA NEW HAVEN INDIANA	12. PR	13. ROD 117	14. PROJ
15. CARRIER NAVY SEMI TRACTOR TRAILER	16. FLIGHT TRUCK VOY DOC. NO.	17. REP	18. REMARKS	19. DATE SHPD 0107	20. ETA 0	21. TR ACCT N925
22. TRANSHP POINT (1)	23. DATE REC.	24. DAY WHSE	25. DATE SHPD	26. MODE CARRIER	27. FLIGHT-TRUCK-VOY DOC. NO.	28. REP
29. TRANSHP POINT (2)	30. DATE REC.	31. DAY WHSE	32. DATE SHPD	33. MODE CARRIER	34. FLIGHT-TRUCK-VOY DOC. NO.	35. REP
36. TRANSHP POINT (3)	37. DATE REC.	38. DAY WHSE	39. DATE SHPD	40. MODE CARRIER	41. FLIGHT-TRUCK-VOY DOC. NO.	42. REP
43. CONSIGNEE	44. DATE RECEIVED-OFFERED (Sign)	45. CONDITION	46. REMARKS	47. SIGNATURE-REMARKS	48. SIGNATURE-REMARKS	49. SIGNATURE-REMARKS

22. PIECES
8 PLTS

23. WEIGHT
24120

24. CUBE

32. DOC ID	33. TRAILER-CONTAINER	34. CONSIGNOR COMM ABBR OTHER	35. COMMODITY SPEC HDLS	36. VOY NO.		37. POD	38. BOOK	39. TYPE PACK	40. TRANSPORTATION CONTROL NUMBER	41. CONSIGNEE	42. P R I	43. REMARKS AND/OR STOW LOC					44. ADDITIONAL REMARKS O		
				AIR DIM A	POE B							ROD A	PROJ B	SHPD C	ETA D	TAC E	PIECE A	WEIGHT B	CUBE C
TJ6			TRAILER NUMBER 6 HAD A MAXIMUM RADIATION READING OF WHICH IS WITHIN NORMAL BACKGROUND. THIS TRAILER IS RELEASED FOR UNRESTRICTED USE.																
TJ9																			UN2912
TJ9																			RADIOACTIVE MATERIAL, LOW
TJ9																			SPECIFIC ACTIVITY, N.O.S.
TJ9																			RADIOACTIVE MATERIAL UN2912
																			(COLUMBIUM/TANTALUM)
	GROSS TARE NET SEAL	49690 25570 24120 0417510-73																	
																			DEFENSE LOGISTICS AGENCY DEFENSE NATIONAL STOCKPILE ZONE NEW HAVEN DEPOT STATE HIGHWAY 14, 3 MILES EAST OF NEW HAVEN NEW HAVEN, INDIANA 46774 PHONE (219) 749-5953

Allen R. Bixler
ALLEN R. BIXLER
CHIEF, QUALITY ASSURANCE DIV.

John B...

TRANSPORTATION CONTROL AND MOVEMENT DOCUMENT

PAGE NO.

1. DOC ID TJO 97-37782	2. TMR/CONT PT	3. CONSIGNOR N00164 NWSG CRANE IN	4. COMM. SPEC HDLG	5. AIR DIM	6. POE	7. POD
8. MODE I	9. PACK	10. TRANS CONTROL NO. N00164 0099 A131 XEX	11. CONSIGNEE DLA NEW HAVEN INDIANA	12. PM 2	13. RDD 117	14. PROJ
15. CARRIER NAVY SEMI TRACTOR TRAILER	16. FLIGHT - TRUCK - VOY DOC. NO.	17. REF	18. REMARKS	19. DATE SHPD 0107	20. ETA 0	21. TR ACCT N925
22. PIECES 8	23. WEIGHT 28870	24. CUBE				

25A. TRANSHIP POINT (1)	B. DATE REC.	C. DAY W/SE	D. DATE SHPD	E. MODE CARRIER	F. FLIGHT-TRUCK-VOY, DOC. NO.	G. REF.	H. STOW LOC	I. SPLIT	J. COND.	K. SIGNATURE-REMARKS
26A. TRANSHIP POINT (2)	B. DATE REC.	C. DAY W/SE	D. DATE SHPD	E. MODE CARRIER	F. FLIGHT-TRUCK-VOY, DOC. NO.	G. REF.	H. STOW LOC	I. SPLIT	J. COND.	K. SIGNATURE-REMARKS
27A. TRANSHIP POINT (3)	B. DATE REC.	C. DAY W/SE	D. DATE SHPD	E. MODE CARRIER	F. FLIGHT-TRUCK-VOY, DOC. NO.	G. REF.	H. STOW LOC	I. SPLIT	J. COND.	K. SIGNATURE-REMARKS
28. CONSIGNEE	29. DATE RECEIVED-OFFERED (Sign)	30. CONDITION	31. REMARKS							

32. DOC ID	33. TRAILER-CONTAINER	34. CONSIGNOR COMM ABBR OTHER	35. COMMODITY SPEC HDLG	36. VOY NO.		37. POD	38. TYPE	39. PACK	40. TRANSPORTATION CONTROL NUMBER	41. CONSIGNEE	42. REMARKS AND/OR				43. ADDITIONAL REMARKS			
				AIR DIM A	POE B						RDD A	PROJ B	SHPD C	ETA D	TAC E	PIECE A	WEIGHT B	CUBE C

TJ6																			
TJ9																			
TJ9																			
TJ9																			
TJ9																			

	GROSS TARE 54340																		
	NET SEAL 28870																		
		0417593																	
		0417595																	

DEFENSE LOGISTICS AGENCY
 DEFENSE NATIONAL STOCKPILE ZONE
 NEW HAVEN DEPOT
 STATE HIGHWAY 14, 3 MILES EAST OF NEW HAVEN
 NEW HAVEN, INDIANA 46274
 PHONE (219)749-5953

Allen R. Bixler
 ALLEN R. BIXLER
 CHIEF, QUALITY ASSURANCE DIV.

Judith B...

TRANSPORTATION CONTROL AND MOVEMENT DOCUMENT

1. DOC NO. TJ0		2. TLR CONT. 973179B		3. CONSIGNOR NO0164 NWSC CRANE IN			4. COMM. SPEC. HOLS.			5. AIR DIM.	6. POE	7. POD		
8. MODE L	9. PACK PT	10. TRANS. CONTROL NO. N00164 0099 A131 XCX				11. CONSIGNEE DLA NEW HAVEN INDIANA			12. FM 2	13. RDD 117	14. PROJ	15. DATE SHPD 0107	16. ETA 0	17. TR ACCT N925
18. CARRIER NAVY SEMI TRACTOR TRAILER				19. FLIGHT-TRUCK-VOV DOC. NO.			20. REF.		21. REMARKS		22. PIECES 8	23. WEIGHT 17800	24. CUBE	
25A. TRANS. POINT (1)		26. DATE REC.	27. SBY. WHSE.	28. DATE SHPD.	29. MODE CARRIER.	30. FLIGHT-TRUCK-VOV DOC. NO.		31. REF.	32. STOW LOC.	33. SPLIT.	34. COND.	35. SIGNATURE-REMARKS.		
26A. TRANS. POINT (2)		26. DATE REC.	27. SBY. WHSE.	28. DATE SHPD.	29. MODE CARRIER.	30. FLIGHT-TRUCK-VOV DOC. NO.		31. REF.	32. STOW LOC.	33. SPLIT.	34. COND.	35. SIGNATURE-REMARKS.		
27A. TRANS. POINT (3)		26. DATE REC.	27. SBY. WHSE.	28. DATE SHPD.	29. MODE CARRIER.	30. FLIGHT-TRUCK-VOV DOC. NO.		31. REF.	32. STOW LOC.	33. SPLIT.	34. COND.	35. SIGNATURE-REMARKS.		
36. CONSIGNEE		37. DATE RECEIVED OFFERED (SIGN)			38. CONDITION		39. REMARKS							

32. DOC. ID	33. TRAILER CONTAINER	34. CONSIGNOR COMM. ABBR. OTHER	35. COMMODITY SPEC. HOLS.	36. VOV NO.		37. POD	38. TYPE	39. PACK	40. TRANSPORTATION CONTROL NUMBER	41. CONSIGNEE	43. REMARKS AND/OR STOW LOC.					44. ADDITIONAL REMARKS		
				AIR DIM A	POE B						RDD A	PROJ B	SHPD C	ETA D	TAC. E	PIECE A	WEIGHT B	CL
TJ6																		
TJ9																		
TJ9										Allen R. Bixler								
TJ9										ALLEN R. BIXLER								
TJ9										CHIEF, QUALITY ASSURANCE DIV.								
TJ9																		
										DEFENSE LOGISTICS AGENCY								
										DEFENSE NATIONAL STOCKPILE ZONE								
										NEW HAVEN DEPOT								
										STATE HIGHWAY 14, 3 MILES EAST OF NEW HAVEN								
										NEW HAVEN, INDIANA 46774								
										PHONE (219) 749-5953								
	GROSS	42750																
	TARE =	24950																
	NET	17800																
	SEAL	0417548-58																

TRANSPORTATION CONTROL AND MOVEMENT DOCUMENT

PAGE NO

1. DOC TJU	2. TRAILER CONT 97-31790	3. CONSIGNOR N00164 NWSC CRANE IN	4. COMM. SPEC HDLG	5. AIR DIM	6. POE	7. POD			
8. MODE I	9. PACK PT	10. TRANS CONTROL NO. N00164 0099 A131 XB	11. CONSIGNEE DLA NEW HAVEN INDIANA	12. PR 2	13. RDD 117	14. PROJ	15. DATE SHPD 0106	16. ETA 0	17. TR ACCT N925
18. CARRIER NAVY SEMI TRACTOR TRAILER	19. FLIGHT TRUCK-VOY DOC. NO.	20. REF	21. REMARKS		22. PIECES 8	23. WEIGHT 16630	24. CUBE		

25A. TRANSHP POINT (1)	B. DATE REC.	C. DAY WHE	D. DATE SHPD	E. MODE CARRIER	F. FLIGHT-TRUCK-VOY DOC. NO.	G. REF.	H. STOWLOC	I. SPLIT	J. COND.	K. SIGNATURE-REMARKS
25B. TRANSHP POINT (2)	B. DATE REC.	C. DAY WHE	D. DATE SHPD	E. MODE CARRIER	F. FLIGHT-TRUCK-VOY DOC. NO.	G. REF.	H. STOWLOC	I. SPLIT	J. COND.	K. SIGNATURE-REMARKS
25C. TRANSHP POINT (3)	B. DATE REC.	C. DAY WHE	D. DATE SHPD	E. MODE CARRIER	F. FLIGHT-TRUCK-VOY DOC. NO.	G. REF.	H. STOWLOC	I. SPLIT	J. COND.	K. SIGNATURE-REMARKS

26. CONSIGNEE	29. DATE RECEIVED-OFFERED (Sign)	30. CONDITION	31. REMARKS
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32. DOC ID	33. TRAILER CONTAINER	34. CONSIGNOR COMM ABBR OTHER	35. COMMODITY SPEC HDLG	36. VOY NO.		37. POD	38. ROOM	39. TYPE PACK	40. TRANSPORTATION CONTROL NUMBER	41. CONSIGNEE	42. P R I	43. REMARKS AND/OR STOW LOC					44. ADDITIONAL REMARKS		
				AIR DIM A	POE B							RDD A	PROJ B	SHPD C	ETA D	TAC E	PIECE A	WEIGHT B	CUBE C
TJ6			TRAILER NUMBER 2 HAD A MAXIMUM RADIATION READING OF 0.014 MR/HR WHICH IS WITHIN NORMAL BACKGROUND. THIS TRAILER IS RELEASED FOR UNRESTRICTED USE.														UN2912		
TJ9																	RADIOACTIVE MATERIAL, LOW		
TJ9																	SPECIFIC ACTIVITY, N.C.S.		
TJ9																	RADIOACTIVE MATERIAL UN2912		
TJ9																	(COLUMBIUM/TANTALUM)		
	GROSS	42630																	
	NET TARE	26000																	
	NET	16630																	
	SEAL	0477560-64																	
									DEFENSE LOGISTICS AGENCY DEFENSE NATIONAL STOCKPILE ZONE NEW HAVEN DEPOT STATE HIGHWAY 14, 3 MILES EAST OF NEW HAVEN NEW HAVEN, INDIANA 46774 PHONE (219)749-5953										

Allen R. Bixler
ALLEN R. BIXLER
CHIEF, QUALITY ASSURANCE DIV.

John W. Brown

11/15/90
4/20/90

TRANSPORTATION CONTROL AND MOVEMENT DOCUMENT

1. DOC ID TJO	2. TRANS CONT 41-3799	3. CONSIGNOR N00164 NWSC CRANE IN	4. COMM SPEC HDLS	5. AIR ORN	6. POE	7. POD	
8. MODE I	9. PACK PT	10. TRANS CONTROL NO. N00164 0099 A131 XAX	11. CONSIGNEE DLA NEW HAVEN INDIANA	12. PM 2	13. RDD 117	14. PROJ	
15. CARRIER NAVY SEMI TRACTOR TRAILER		16. FLIGHT-TRUCK-VOY DOC. NO.	17. REF	18. REMARKS	19. DATE SHPD 0106	20. ETA 0	21. TR ACC N925

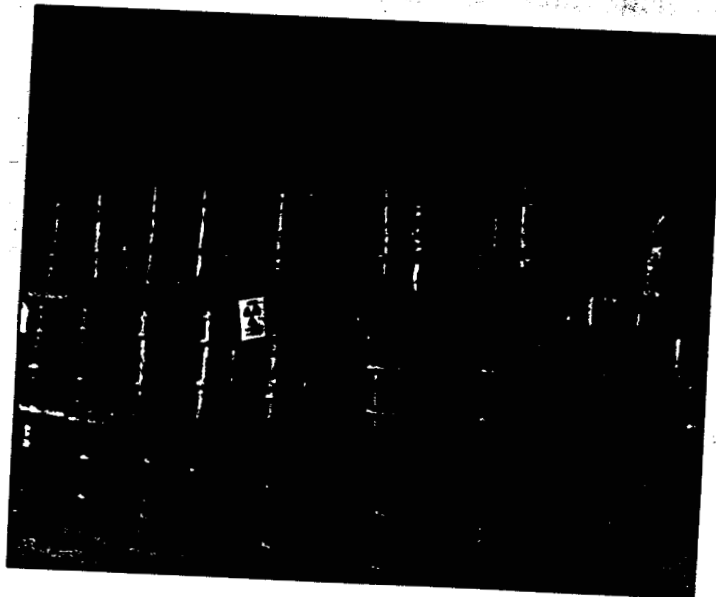
22A. TRANSHIP POINT (1)	B. DATE REC.	C. DAY WHSE	D. DATE SHPD	E. MODE CARRIER	F. FLIGHT-TRUCK-VOY DOC. NO.	G. REF.	H. STOW LOC	I. SPLIT	J. COND	K. SIGNATURE-REMARKS
22B. TRANSHIP POINT (2)	B. DATE REC.	C. DAY WHSE	D. DATE SHPD	E. MODE CARRIER	F. FLIGHT-TRUCK-VOY DOC. NO.	G. REF.	H. STOW LOC	I. SPLIT	J. COND	K. SIGNATURE-REMARKS
22C. TRANSHIP POINT (3)	B. DATE REC.	C. DAY WHSE	D. DATE SHPD	E. MODE CARRIER	F. FLIGHT-TRUCK-VOY DOC. NO.	G. REF.	H. STOW LOC	I. SPLIT	J. COND	K. SIGNATURE-REMARKS
23. CONSIGNEE		24. DATE RECEIVED-OFFERED (Sign)		25. CONDITION	26. REMARKS					

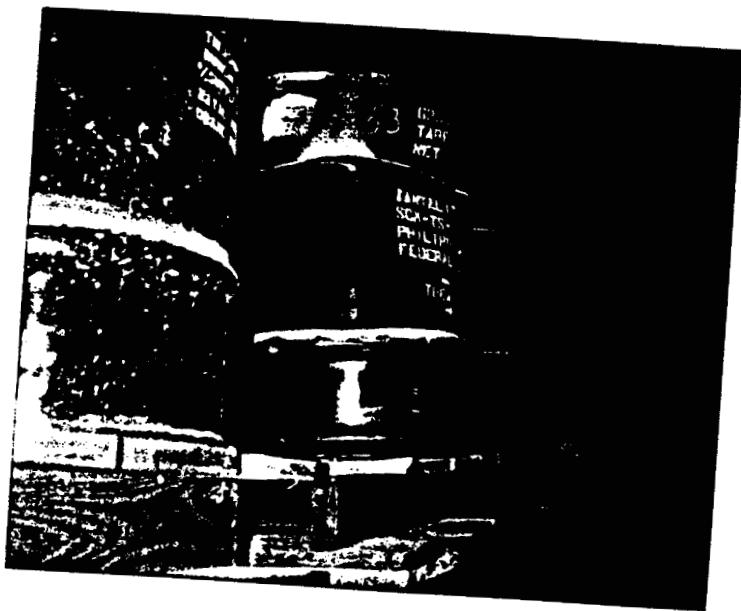
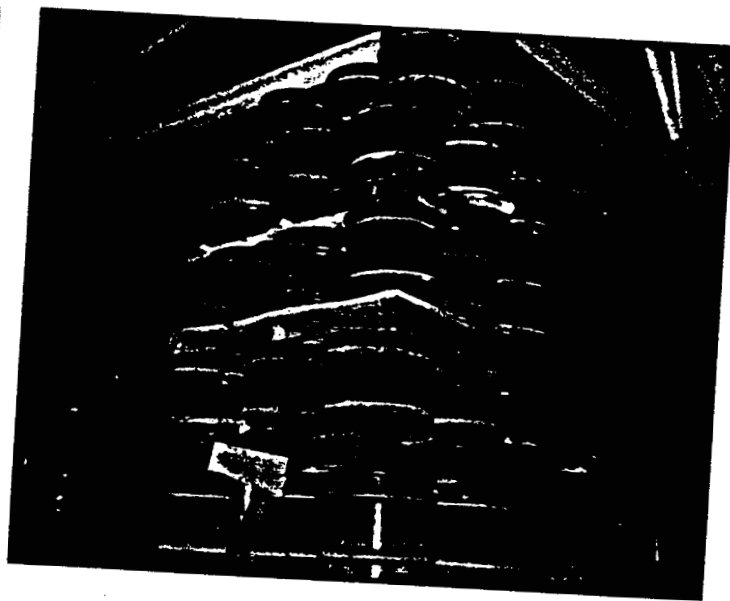
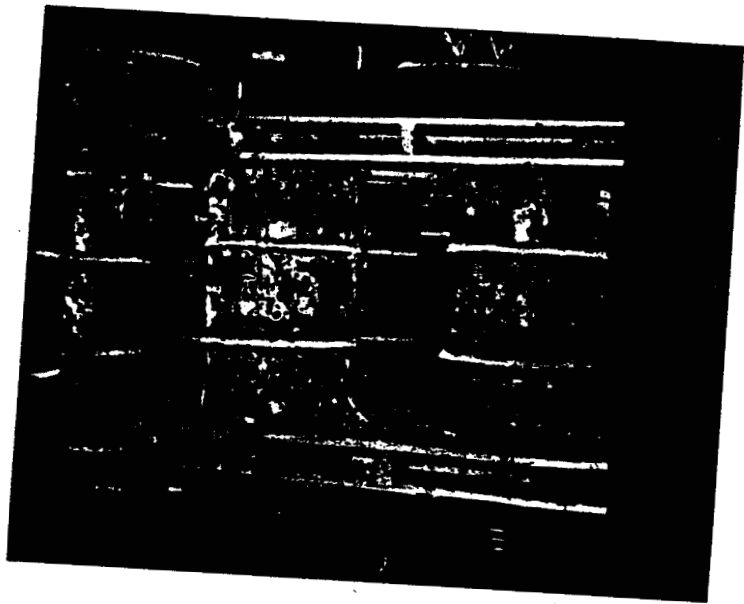
32. DOC ID	33. TRAILER-CONTAINER	34. CONSIGNOR COMM ABBR OTHER	35. COMMODITY SPEC HDLS	36. VOY NO.		37. POD	38. N	39. E	40. TYPE PACK	41. TRANSPORTATION CONTROL NUMBER	42. CONSIGNEE	43. REMARKS AND/OR					44. ADDITIONAL REMARKS	
				AIR DIM A	POE B							RDD A	PROJ B	STOW LOC C	ETA D	TAC E	PIECE A	WEIGHT B

TJ6																		
TJ9												0.018 MR/HR,						UN2912
TJ9												RELEASED FOR						
TJ9												RADIOACTIVE MATERIAL, LOW						
TJ9												SPECIFIC ACTIVITY, N.O.S.						
TJ9												RADIOACTIVE MATERIAL UN2912						
												(COLUMBIUM/TANTALUM)						
GROSS	44,120																	
TARE	26100																	
NET	18,020																	
SEAL	0417568-71																	
										DEFENSE LOGISTICS AGENCY DEFENSE NATIONAL STOCKPILE ZONE NEW HAVEN DEPOT STATE HIGHWAY 14, 3 MILES EAST OF NEW HAVEN NEW HAVEN, INDIANA 46774 PHONE (219)749-5953								

Allen R. Bixler
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 CHIEF, QUALITY ASSURANCE DIV.

Andrew Burt





**GUIDELINES FOR DECONTAMINATION OF FACILITIES AND EQUIPMENT
PRIOR TO RELEASE FOR UNRESTRICTED USE
OR TERMINATION OF LICENSES FOR BYPRODUCT, SOURCE,
OR SPECIAL NUCLEAR MATERIAL**

**U.S. Nuclear Regulatory Commission
Division of Industrial and
Medical Nuclear Safety
Washington, DC 20555**

August 1987

The instructions in this guide, in conjunction with Table 1, specify the radionuclides and radiation exposure rate limits which should be used in decontamination and survey of surfaces or premises and equipment prior to abandonment or release for unrestricted use. The limits in Table 1 do not apply to premises, equipment, or scrap containing induced radioactivity for which the radiological considerations pertinent to their use may be different. The release of such facilities or items from regulatory control is considered on a case-by-case basis.

1. The licensee shall make a reasonable effort to eliminate residual contamination.
2. Radioactivity on equipment or surfaces shall not be covered by paint, plating, or other covering material unless contamination levels, as determined by a survey and documented, are below the limits specified in Table 1 prior to the application of the covering. A reasonable effort must be made to minimize the contamination prior to use of any covering.
3. The radioactivity on the interior surfaces of pipes, drain lines, or ductwork shall be determined by making measurements at all traps, and other appropriate access points, provided that contamination at these locations is likely to be representative of contamination on the interior of the pipes, drain lines, or ductwork. Surfaces of premises, equipment, or scrap which are likely to be contaminated but are of such size, construction, or location as to make the surface inaccessible for purposes of measurement shall be presumed to be contaminated in excess of the limits.
4. Upon request, the Commission may authorize a licensee to relinquish possession or control of premises, equipment, or scrap having surfaces contaminated with materials in excess of the limits specified. This may include, but would not be limited to, special circumstances such as razing of buildings, transfer of premises to another organization continuing work with radioactive materials, or conversion of facilities to a long-term storage or standby status. Such requests must:
 - a. Provide detailed, specific information describing the premises, equipment or scrap, radioactive contaminants, and the nature, extent, and degree of residual surface contamination.
 - b. Provide a detailed health and safety analysis which reflects that the residual amounts of materials on surface areas, together with other considerations such as prospective use of the premises, equipment, or scrap, are unlikely to result in an unreasonable risk to the health and safety of the public.

TA

ACCEPTABLE SURFACE CONTAMINATION LEVELS

NUCLIDES ^a	AVERAGE ^{b c f}	MAXIMUM ^{b d f}	REMOVABLE ^{b e f}
U-235, U-238, and associated decay products	5,000 dpm α /100 cm ²	15,000 dpm α /100 cm ²	1,000 dpm α /100 cm ²
Actinides, Ra-226, Ra-228, Th-230, Th-232, Pa-231, U-232, U-233, U-235, U-238, Pu-238, Pu-239, Pu-240, Pu-241, Pu-242, Pu-243, Pu-244, Pu-245, Pu-246, Pu-247, Pu-248, Pu-249, Pu-250, Pu-251, Pu-252, Pu-253, Pu-254, Pu-255, Pu-256, Pu-257, Pu-258, Pu-259, Pu-260, Pu-261, Pu-262, Pu-263, Pu-264, Pu-265, Pu-266, Pu-267, Pu-268, Pu-269, Pu-270, Pu-271, Pu-272, Pu-273, Pu-274, Pu-275, Pu-276, Pu-277, Pu-278, Pu-279, Pu-280, Pu-281, Pu-282, Pu-283, Pu-284, Pu-285, Pu-286, Pu-287, Pu-288, Pu-289, Pu-290, Pu-291, Pu-292, Pu-293, Pu-294, Pu-295, Pu-296, Pu-297, Pu-298, Pu-299, Pu-300, Pu-301, Pu-302, Pu-303, Pu-304, Pu-305, Pu-306, Pu-307, Pu-308, Pu-309, Pu-310, Pu-311, Pu-312, Pu-313, Pu-314, Pu-315, Pu-316, Pu-317, Pu-318, Pu-319, Pu-320, Pu-321, Pu-322, Pu-323, Pu-324, Pu-325, Pu-326, Pu-327, Pu-328, Pu-329, Pu-330, Pu-331, Pu-332, Pu-333, Pu-334, Pu-335, Pu-336, Pu-337, Pu-338, Pu-339, Pu-340, Pu-341, Pu-342, Pu-343, Pu-344, Pu-345, Pu-346, Pu-347, Pu-348, Pu-349, Pu-350, Pu-351, Pu-352, Pu-353, Pu-354, Pu-355, Pu-356, Pu-357, Pu-358, Pu-359, Pu-360, Pu-361, Pu-362, Pu-363, Pu-364, Pu-365, Pu-366, Pu-367, Pu-368, Pu-369, Pu-370, Pu-371, Pu-372, Pu-373, Pu-374, Pu-375, Pu-376, Pu-377, Pu-378, Pu-379, Pu-380, Pu-381, Pu-382, Pu-383, Pu-384, Pu-385, Pu-386, Pu-387, Pu-388, Pu-389, Pu-390, Pu-391, Pu-392, Pu-393, Pu-394, Pu-395, Pu-396, Pu-397, Pu-398, Pu-399, Pu-400, Pu-401, Pu-402, Pu-403, Pu-404, Pu-405, Pu-406, Pu-407, Pu-408, Pu-409, Pu-410, Pu-411, Pu-412, Pu-413, Pu-414, Pu-415, Pu-416, Pu-417, Pu-418, Pu-419, Pu-420, Pu-421, Pu-422, Pu-423, Pu-424, Pu-425, Pu-426, Pu-427, Pu-428, Pu-429, Pu-430, Pu-431, Pu-432, Pu-433, Pu-434, Pu-435, Pu-436, Pu-437, Pu-438, Pu-439, Pu-440, Pu-441, Pu-442, Pu-443, Pu-444, Pu-445, Pu-446, Pu-447, Pu-448, Pu-449, Pu-450, Pu-451, Pu-452, Pu-453, Pu-454, Pu-455, Pu-456, Pu-457, Pu-458, Pu-459, Pu-460, Pu-461, Pu-462, Pu-463, Pu-464, Pu-465, Pu-466, Pu-467, Pu-468, Pu-469, Pu-470, Pu-471, Pu-472, Pu-473, Pu-474, Pu-475, Pu-476, Pu-477, Pu-478, Pu-479, Pu-480, Pu-481, Pu-482, Pu-483, Pu-484, Pu-485, Pu-486, Pu-487, Pu-488, Pu-489, Pu-490, Pu-491, Pu-492, Pu-493, Pu-494, Pu-495, Pu-496, Pu-497, Pu-498, Pu-499, Pu-500, Pu-501, Pu-502, Pu-503, Pu-504, Pu-505, Pu-506, Pu-507, Pu-508, Pu-509, Pu-510, Pu-511, Pu-512, Pu-513, Pu-514, Pu-515, Pu-516, Pu-517, Pu-518, Pu-519, Pu-520, Pu-521, Pu-522, Pu-523, Pu-524, Pu-525, Pu-526, Pu-527, Pu-528, Pu-529, Pu-530, Pu-531, Pu-532, Pu-533, Pu-534, Pu-535, Pu-536, Pu-537, Pu-538, Pu-539, Pu-540, Pu-541, Pu-542, Pu-543, Pu-544, Pu-545, Pu-546, Pu-547, Pu-548, Pu-549, Pu-550, Pu-551, Pu-552, Pu-553, Pu-554, Pu-555, Pu-556, Pu-557, Pu-558, Pu-559, Pu-560, Pu-561, Pu-562, Pu-563, Pu-564, Pu-565, Pu-566, Pu-567, Pu-568, Pu-569, Pu-570, Pu-571, Pu-572, Pu-573, Pu-574, Pu-575, Pu-576, Pu-577, Pu-578, Pu-579, Pu-580, Pu-581, Pu-582, Pu-583, Pu-584, Pu-585, Pu-586, Pu-587, Pu-588, Pu-589, Pu-590, Pu-591, Pu-592, Pu-593, Pu-594, Pu-595, Pu-596, Pu-597, Pu-598, Pu-599, Pu-600, Pu-601, Pu-602, 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Pu-978, Pu-979, Pu-980, Pu-981, Pu-982, Pu-983, Pu-984, Pu-985, Pu-986, Pu-987, Pu-988, Pu-989, Pu-990, Pu-991, Pu-992, Pu-993, Pu-994, Pu-995, Pu-996, Pu-997, Pu-998, Pu-999, Pu-1000	100 dpm/100 cm ²	300 dpm/100 cm ²	20 dpm/100 cm ²
U-235, U-238, and associated decay products	1000 dpm/100 cm ²	3000 dpm/100 cm ²	200 dpm/100 cm ²
alpha-gamma emitters (nuclides with decay modes other than alpha emission or spontaneous fission) except Sr-90 and others noted above.	5000 dpm $\beta\gamma$ /100 cm ²	15,000 dpm $\beta\gamma$ /100 cm ²	1000 dpm $\beta\gamma$ /100 cm ²

Where surface contamination by both alpha- and beta-gamma-emitting nuclides exists, the limits established for alpha- and beta-gamma-emitting nuclides should apply independently.

As used in this table, dpm (disintegrations per minute) means the rate of emission by radioactive material as determined by correcting the counts per minute observed by an appropriate detector for background, efficiency, and geometric factors associated with the instrumentation.

Measurements of average contaminant should not be averaged over more than 1 square meter. For objects of less surface area, the average could be derived for each such object.

The maximum contamination level applies to an area of not more than 100 cm².

The amount of removable radioactive material per 100 cm² of surface area should be determined by wiping that area with dry filter or soft sorbent paper, applying moderate pressure, and assessing the amount of radioactive material on the wipe with an appropriate instrument of known efficiency. When removable contamination on objects of less surface area is determined, the pertinent levels should be reduced proportionally and the entire surface should be wiped.

The average and maximum radiation levels associated with surface contamination resulting from beta-gamma emitters should not exceed 2 mrad/hr at 1 cm and 1.0 mrad/hr at 1 cm, respectively, measured through not more than 7 milligrams per square centimeter of total absorber.

5. Prior to release of premises for unrestricted use, the licensee shall make a comprehensive radiation survey which establishes that contamination is within the limits specified in Table 1. A copy of the survey report shall be filed with the Division of Industrial and Medical Nuclear Safety, U. S. Nuclear Regulatory Commission, Washington, DC 20555, and also the Administrator of the NRC Regional Office having jurisdiction. The report should be filed at least 30 days prior to the planned date of abandonment. The survey report shall:
 - a. Identify the premises.
 - b. Show that reasonable effort has been made to eliminate residual contamination.
 - c. Describe the scope of the survey and general procedures followed.
 - d. State the findings of the survey in units specified in the instruction.

Following review of the report, the NRC will consider visiting the facilities to confirm the survey.

ATTACHMENT 4

 ***** 18-MAY-92 16:30:01 *****

COUNT OF SAMPLES FROM NAVAL WEAPONS SUPPORT CENTER (GIBBONS).

SPECTRAL FILE NAME: A923831M.R3L
 SAMPLE DATE: 13-MAY-92 13:00:00
 SAMPLE IDENTIFICATION: A923831M.R3L
 TYPE OF SAMPLE: NUCON SMEAR
 SAMPLE QUANTITY: 1.000000 UNITS: XXXX
 SAMPLE GEOMETRY: A2
 EFFICIENCY FILE NAME: A2.EFF

ACQUIRE DATE: 18-MAY-92 14:52:44 * FWHM(1332) 2.083
 PRESET TIME(LIVE): 7200. SEC * SENSITIVITY: 5.000
 ELAPSED REAL TIME: 5769. SEC * SHAPE PARAMETER: 10.0 %
 ELAPSED LIVE TIME: 5768. SEC * NBR ITERATIONS: 10.

DETECTOR: ADC Detector * LIBRARY:NUCL.LIB
 CALIB DATE: 14-MAY-92 10:35:43 * ENERGY TOLERANCE: 1.000 KEV
 KEV/CHNL: .5021155 * HALF LIFE RATIO: 8.00
 OFFSET: -.5393691 KEV * ABUNDANCE LIMIT: 75.00%

ENERGY WINDOW - .04 TO 4112.79

PK	IT	ENERGY	AREA	BKGND	FWHM	CHANNEL	LEFT	PW	CTS/SEC	%ERR	F:
1	0	510.39	63.	18.	2.59	1017.55	1012	14	1.10E-02	19.6	

PEAK SEARCH COMPLETED (REV 15.8 - ND PC VERSION DEC 88)

PULSE-PILE-UP CORRECTED DATA. CORRECTION = 1.000
 UNCORR. LIVE TIME: 5768. CORRECTED LIVE TIME: 5768.

PK	IT	ENERGY	AREA	BKGND	FWHM	CHANNEL	LEFT	PW	CTS/SEC	%ERR
1	0	510.39	63.	18.	2.59	1017.55	1012	14	1.10E-02	19.6

FILE-UP CORRECTION COMPLETED

NUCLIDE IDENTIFICATION SYSTEM (ND PC VERSION DEC 88)
 NUCLIDE LINE ACTIVITY REPORT
 ELAPSED LIVE TIME: 5768. (FILE-UP CORRECTED)

PAGE 1

ACTIVATION PRODUCT

NUCLIDE	SBHR	ENERGY	AREA	BKGND	ZABN	%EFF	UCI/ XXXX	1-SIG ERR
ANIL-511	AP	511.00	63.	18.	96.73*	1.565E+00	3.059E 19	5.990

W 5/24/92

LABORATORY ANALYSIS REPORT

 DATE: 05/19/92 18:11:19
 TITLE: COUNT OF SAMPLES FROM NAVAL WEAPONS SUPPORT CENTER, CRANE, IN.
 WAREHOUSE #B2067(DOC.# 040-00341).
 INSTRUMENT: CANBERRA/TRS-80 ALPHA/BETA ANALYSIS SYSTEM
 SAMPLES FROM: NAVAL WEAPONS SUPPORT CENTER, CRANE, INDIANA.
 SAMPLE TYPE: NUCON DRY SMEARS.
 COLLECTED BY: SAMPLES COLLECTED BY D. GIBBONS.
 COLLECTED ON: SAMPLES COLLECTED ON MAY 13, 1992 @ APPROXIMATELY 1300.
 ERRORS ARE AT THE 95% (2 SIGMA) CONFIDENCE LEVEL

	LIVE TIME (MIN)	ACTIVITY (DPM)	COUNTS ALPHA	COUNTS BETA	EFFICIENCY+/-ERROR	%ATTE
BACKGROUND :	9.99998		3	12		
ALPHA SOURCE:	9.80463	8740	23444	3284	.311734 .0101	0
BETA SOURCE:	9.99638	21429	435	67174	.315547 .0098	0

	ALPHA	BETA
LC: CRITICAL LEVEL (DPM)	1.29689	2.56244
LD: DETECTION LIMIT (DPM)	3.46815	5.98869
LOSS DUE TO CROSSTALK	.122825	6.25802E-03

ALPHA				BETA			
COUNTS	DPM	ERROR	uCi/UNIT	COUNTS	DPM	ERROR	uCi/UNIT
-----*							
SAMPLE=92-383 DESCRIPTION: <i>#1</i>							
POS. = 4 LIVE TIME (MIN)= 9.99999 VOLUME= 1 - PER SAMPLE							
1.1<	1.5	1<	6.68E-07	* 7.1<	2.6	1<	1.17E-06
-----*							
SAMPLE=92-384 DESCRIPTION: <i>#2</i>							
POS. = 5 LIVE TIME (MIN)= 9.99998 VOLUME= 1 - PER SAMPLE							
3.1<	1.5	1<	6.69E-07	* 18.1<	4.8	1<	2.16E-06
-----*							
SAMPLE=92-385 DESCRIPTION: <i>#3</i>							
POS. = 6 LIVE TIME (MIN)= 9.99998 VOLUME= 1 - PER SAMPLE							
2.1<	1.5	1<	6.66E-07	* 12.1<	2.6	1<	1.17E-06
-----*							
SAMPLE=92-386 DESCRIPTION: <i>#4</i>							
POS. = 7 LIVE TIME (MIN)= 9.99998 VOLUME= 1 - PER SAMPLE							
2.1<	1.5	1<	6.67E-07	* 11.1<	2.6	1<	1.17E-06
-----*							
SAMPLE=92-387 DESCRIPTION: <i>#5</i>							
POS. = 8 LIVE TIME (MIN)= 9.99998 VOLUME= 1 - PER SAMPLE							
3.1<	1.5	1<	6.66E-07	* 7.1<	2.6	1<	1.17E-06
-----*							
SAMPLE=92-388 DESCRIPTION: <i>#6</i>							
POS. = 9 LIVE TIME (MIN)= 9.99997 VOLUME= 1 - PER SAMPLE							
4.1<	2.0	1<	8.83E-07	* 14.1<	3.3	1<	1.48E-06
-----*							
SAMPLE=92-389 DESCRIPTION: <i>#7</i>							
POS. = 10 LIVE TIME (MIN)= 9.99996 VOLUME= 1 - PER SAMPLE							
5.1<	2.4	1<	1.06E-06	* 11.1<	2.6	1<	1.17E-06
-----*							
SAMPLE=92-390 DESCRIPTION: <i>#8</i>							
POS. = 11 LIVE TIME (MIN)= 9.99995 VOLUME= 1 - PER SAMPLE							
6.1<	2.9	1<	1.31E-06	* 16.1<	3.9	1<	1.77E-06
-----*							

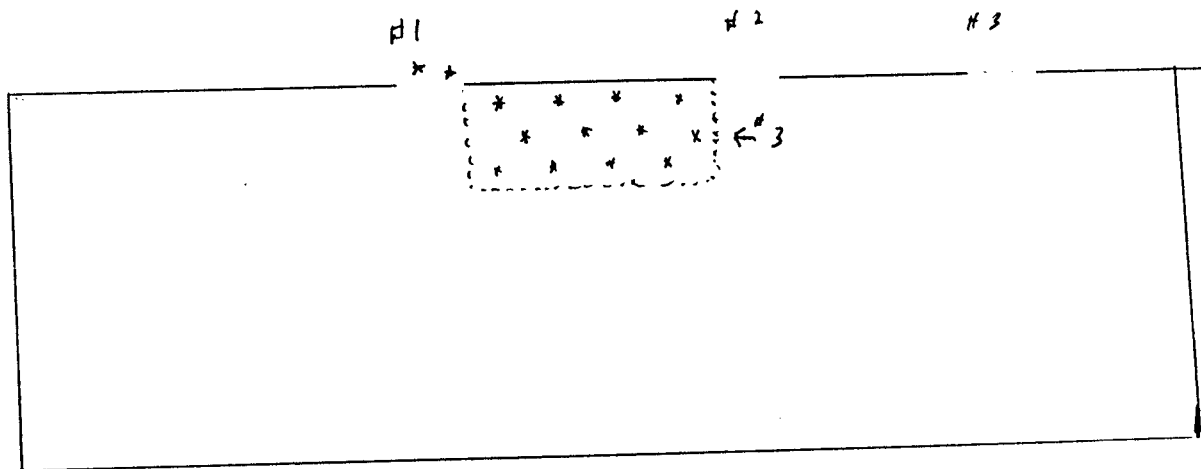
SAMPLE=92-391	DESCRIPTION:	#9						
POS. = 12	LIVE TIME (MIN)=	9.99995	VOLUME=	1	- PER SAMPLE			
6.1<	2.9	1<	1.30E-06	*	24.1	3.7	3.81	1.66E-06 1.7E-
SAMPLE=92-392	DESCRIPTION:	#10						
POS. = 13	LIVE TIME (MIN)=	9.99999	VOLUME=	1	- PER SAMPLE			
1.1<	1.5	1<	6.79E-07	*	25.1	4.1	3.81	1.86E-06 1.7E-
SAMPLE=92-393	DESCRIPTION:	#11						
POS. = 14	LIVE TIME (MIN)=	9.99998	VOLUME=	1	- PER SAMPLE			
3.1<	1.5	1<	6.67E-07	*	14.1<	3.3	1<	1.50E-06
SAMPLE=92-394	DESCRIPTION:	#12						
POS. = 15	LIVE TIME (MIN)=	9.99999	VOLUME=	1	- PER SAMPLE			
1.1<	1.5	1<	6.68E-07	*	7.1<	2.6	1<	1.17E-06
SAMPLE=92-395	DESCRIPTION:	#13						
POS. = 16	LIVE TIME (MIN)=	9.99996	VOLUME=	1	- PER SAMPLE			
5.1<	2.4	1<	1.10E-06	*	12.1<	2.6	1<	1.17E-06
SAMPLE=92-396	DESCRIPTION:	#14						
POS. = 17	LIVE TIME (MIN)=	9.99999	VOLUME=	1	- PER SAMPLE			
1.1<	1.5	1<	6.71E-07	*	20.1<	5.5	1<	2.49E-06

START TIME: 05/19/92 15:00:30

TITLE: COUNT OF SAMPLES FROM NAVAL WEAPONS SUPPORT CENTER, CRANE, IN.
WAREHOUSE #B2067 (DOC.# 040-00341).

SAMPLE POSITION	SAMPLE ID.	LIVE TIME (MIN)	ALPHA	BETA	DATE	TIME	CYCLE	AC
1	PU-239	9.80463	23444	3284	05/19/92	15:11:12	1	YN
2	BACKGD	9.99998	3 ✓	12 ✓	05/19/92	15:22:26	1	YN
3	CS-137	9.99638	435	67174	05/19/92	15:33:40	1	YN
4	92-383	9.99999	1	7	05/19/92	15:44:55	1	YN
5	92-384	9.99998	3	18	05/19/92	15:56:09	1	YN
6	92-385	9.99998	2	12	05/19/92	16:07:23	1	YN
7	92-386	9.99998	2	11	05/19/92	16:18:38	1	YN
8	92-387	9.99998	3	7	05/19/92	16:29:51	1	YN
9	92-388	9.99997	4	14	05/19/92	16:41:05	1	YN
10	92-389	9.99996	5	11	05/19/92	16:52:19	1	YN
11	92-390	9.99995	⑤	16	05/19/92	17:03:34	1	YN
12	92-391	9.99995	⑥	②4	05/19/92	17:14:48	1	YN
13	92-392	9.99999	1	②5	05/19/92	17:26:02	1	YN
14	92-393	9.99998	3	14	05/19/92	17:37:16	1	YN
15	92-394	9.99999	1	7	05/19/92	17:48:30	1	YN
16	92-395	9.99996	5	12	05/19/92	17:59:45	1	YN
17	92-396	9.99999	1	20	05/19/92	18:11:00	1	YN

END TIME: 05/19/92 18:11:03



- #1 - LOADING DOCK USED DURING DRUMS REMOVAL PROCEDURE
 - #2 AND #3 - LOCKED DOCKS DURING REMOVAL - THESE WERE LOADING DOCKS, ALSO
 - #3 - STORAGE AREA
 - * - WIPB SAMPLE AREAS - EACH AREA WIPB COVERED AT LEAST 500 CM²
 - Δ - BACKGROUND READING AREAS - THE FOUR NEAR THE WALL EXTENDED UP THE WALL, AND COVERED A LARGE AREA FOR EACH WIPB.
- 4 TO 20 MICRO R/HR