COMMODITY INSPE	CTION REPORT		(X) SALES		() PROCUREMENT
CONTRACT NUMBER	COMMODITY	(See List below)	PROGRAM		INSPECT REPORT NO.
SP0833-96-M-0161	Rare Earth (Sodiu	m Sulfate)	į	NDS	1-F
RELEASE OR S/I NUMBER	LOT NUMBER	····	REGION NUME	SER	DATE OF INSPECTION
N/A	NH-1 - NH-4		۱ ا	MQW (West)	13 Aug - 5 Sept 96
PURCHASER OR CONTRACTOR	(Consignor Ship Fro	m)	ADDRESS		
N/A					
CONSIGNEE OR SUBCONTRACTOR			ADDRESS		
New Haven Depot			New Haven,	IN 46774-9644	
PERSON CONTACTED (NAME & TITLE)			LOCATION OF	MATERIAL INSPECT	TED
Frederic W. Brooks Depot Manager			New Haven I	Depot New Haven	, IN 46774-9644
INSPECTION, SAMPL	NG AND ANALYSIS		DESCRIPTION	OF PACKING (INCLU	JDE TYPE OF CONVEYANCE)
SAMPLES TAKEN () (X) Yes	ANALYSIS (X)				
BY CONTRACT By - MQWE/QA	BY PURCHASER		Sampling of	Sodium Sulfate pe	r procedure specified by
SAMPLER/ANALYST	OR CONTRACTOR		Mr. Giles Lep	age in a memo da	ated 01 July 96 was initiated at
WITNESSED () YES () NO	WITNESSED () YE	ES ((X) NO	the New Hav	en Depot on 13 A	ug 96 and completed 5 Sept 96.
OTHER	TYPES OF ANALYSE	NO, UNITS		i. Na	
		PER	Sampling of t	the following lots	under this contract has been completed.
		PER	Lot#1 Sa	mple # NH - 1	
		PER	Lot # 2 Sa	mple # NH - 2	
INSPECTION	IDENTITY	OF SAMPLE	Lot # 3 Sai	mple # NH - 3	
VISUAL 100 °	FORWARDING DATE		Lot # 4 Sai	mple # NH - 4	
DIMENSIONAL	% SAMPLE NUMBER		A one-half (1	/2) pound test sa	mple from each lot was shipped to the
	6 LOT NUMBER		laboratory on	09Sep96 by Fed	eral Express.
DISTRIBUTION OF SAMPLES [GIVE COMPL	ETE ADDRESS)		DLA/DNSC/N	IOWE ***	
Laboratory Testing Inc.		Reserve ***	New Haven	Depot 👙	
120 Mill Street PO Box 249			15411 Dawk	ins Road 👝 🚶	
Dublin, PA 18917 215-249	9898	•	New Haven,	IN 46774-9644	

The Rare Earth Sodium Sulfate Sampling procedure, including attachments, was complied with in its entirety.

Eighty (80) drums from each lot was selected at random and opened to obtain a sample. A sample auger was used to take (3) full drum length equal increments from each drum selected per sampling plan, which was received with above procedure.

After samples were obtained from the selected drums, all samples increments of the lot were combined to make one (1.) gross sample.

This gross sample was thoroughly mixed and processed through a (1") sample splitter to a one-half (1/2) pound test sample for the laboratory and a one and one-half (1-1/2)pound reserve sample. The laboratory sample was placed into a clean moisture proof ziploc plastic bag and placed into a pint metal container identified by a DLAH form 34 label. DLAH form 35 containing sample information and instructions was placed inside of shipping container. The reserve sample was placed in separate containers and labeled in a similar manner.

All remaining sample material was returned to the drums from which it came prior to resealing the drums. All prescriction health precautions were followed. Pocket dosimeter were provided as well as TLD's during sampling, all records are on file at New Haven Depot.

Item or LOT NO.	QUANTITY SAMPLED	LAB SAMPLE	SAMPLE NO.	RESERVE SAMPLE	DESCRIPTION OF MATERIAL
LOT # 1	80 Dr.	1/2 Lb.	NH-01-96	1-1/2 Lb.	Rare Earth (Sodium Sulfate)
LOT # 2	80 Dr.	1/2 Lb.	NH-02-96	1-1/2 Lb.	2,324 Drums of material in storage at New Haven Depot
LOT # 3	80 Dr.	1/2 Lb.	NH-03-96	1-1/2 LB	320 Drums were selected for sampling
LOT # 4	80 Dr.	1/2 Lb.	NH-04-96	1-1/2 LB	(4) Samples were processed for the laboratory and shipped
		•			by Federal Express on 09Sep96.
					Note:
					See Attached DLAH-35 and Radiation sample drum results for the
·	<u> </u>	·····			four lots, Lot # (4) was much higher than the other three.

REASON FOR REJECTION

NA

	<u> </u>	9.1	
(X) Q.A. DIVISION	(X) Q.A. (West)	1.0	(X) SUPERVISORY Q.A. (MQWA)
DISTRIBUTION X) ORIGINATING DEPOT	() STOCKPILE DIVISION	. 54	() CONTRACTING OFFICER
//) FINANCE	(,) CONTRACTOR		TX) OTHER (SPECIFY) MOWE
INSPECTOR IS GNATURE! Daring a Mil Saxiel	11/1-		DATE
Clarence McDaniel, QAS / Bill, Till QAS	While lee		9-Sep-96
DIALI CODIA DO 14 AO	71		

This form is a computer generated version of Form DLAH 32, Dec 88

				AND REQUE			
1- DATE	2 PURCHAS	E OR SALES CONTRACT NO.	1. EX VESSEL ((fany)	4. PROGRA	M & RELEAS	FNΩ	
06-Sep-96	8 SPO833	-96-M-0161	Federal Express	NDS	1	N/A	
6. MATERIA	AL (Grade and/or	(ура)	7. NUMBER AND ADDRESS	OF REGION C	ONCERNED		
Rare Earti	h (Sodium Sulfi	ato }	Defense National Stockp	ile Center		H. C.	•
ł			8725 John J. Kingman D				•
ļ ·		,	Fort Belvolr, VA 22060-8				
8. NAME AN	ND ADDRESS OF	ANALYST	9. NAME AND ADDRESS OF		IODI ICO MISO	WASED	
	y Testing Inc.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		MAI ENIAL SC	PPUENPORC	nasen	
. ·	treet (P.O. Box	240.1	New Haven Depot			16 db	•
4 .	•	Lee Dilks 215-249-9898	15411 Dawkins Road			77 7 7	
			New Haven , IN 46774-9				
			veparation if necessary, in accord	lance with stated	provisions -		
and specific	cations, be made	on samples identified below.	:				•
ANALYSTS	;	GOVERNMENT		NUMBER A	NUMBER ANI		WEIGHT
SAMPLE NO.).	SAMPLE NO.	LOT NO. AND MARKS	TYPE OF UN	ıT	. 1.	OF LOT
1		[1		51	W 551
1 - NH		1	1	<u> </u>		1	· · · · · · · · · · · · · · · · · · ·
2 - NH		2	1	1	oue can		1/2 lb.
		ì	2	į.	OUG CITU		1/2 lb.
3-NH		3	3	1	OUG CEU	1	1/2 lb.
4 - NH		4	4	1	OUG CITU		1/2 lb.
			1	1		1	
		·		I		ŀ	
·							
15. MANNER	R TRANSMITTE)	18. DETERMINATION				
[] TAKEN			[] ALL CHEMICAL AND			IX) THE FOLL	OWING ONLY
BY ANALYS	ST	[] DELIVERED DIRECT	PHYSICAL REQUIREMENT	s		Per Contract	(SPO833-95-M-0161)
1) BY MAIL		(X) BY EXPRESS	OF SPECIFICATION NO.			(di dasa saringia)	
17. AUTHOR	RITY	OPEN MARKE		· · · · · · · · · · · · · · · · · · ·			
[x] SERVICE	•	[] FOR WHICH		[] BY AGREE	MENT	IVI OTUCO	
		CONTRAC		WITH SUP		IXI OTHER	per contract
		001111010	1 124010	WILLIAGE	PUEN		(SPO833-98-M-0181)
18 PHIPPOS	RE .		40 DODTIONO OF THE OOK	***************************************			
18. PURPOS			10. PORTIONS OF THE PREF	PARED SAMPLI			Y ANALYST TO
[x] GOVERN	MENT		10. PORTIONS OF THE PREF	PAREO SAMPLI	ES SHALL BE (Y ANALYST TO
(x) GOVERNI CONTROL	MENT	() OTHER (Specify)		PARED SAMPLI		-	Y ANALYST TO
[x] GOVERN	MENT	[] OTHER (Specify)	[] UMPIRE	PAREO SAMPLI	[] MATERIAI	.	Y ANALYST TO
(x) GOVERNI CONTROL	MENT	[] OTHER (Specify)	() UMPIRE (Specify)	PAREO SAMPLI	[] MATERIAI SUPPLIER	.	Y ANALYST TO
(x) GOVERNI CONTROL () UMPIRE	MENT	[] OTHER (Specify)	() UMPIRE (Specify) (X) OTHER	PAREO SAMPLI	[] MATERIAI SUPPLIER	.	Y ANALYST TO
[x] GOVERNI CONTROL [] UMPIRE [] GENERAL	MENT	[] OTHER (Specify) 21. PLACE SAMPLED	() UMPIRE (Specify) (X) OTHER		[] MATERIAI SUPPLIER	- ER	Y ANALYST TO
[x] GOVERNI CONTROL [] UMPIRE [] GENERAL INFORMAT	MENT TION MAPLED		() UMPIRE (Specify) [X) OTHER (See Remarks)		[] MATERIAI SUPPLIER PURCHASI	ER :	Y ANALYST TO
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(x) GOVERNI CONTROL (1) UMPIRE (1) GENERAL INFORMAT 20. DATE SA 13 Aug thru 23. REMARK NO. ORIGINAL AND TWO (2) 1 1 1 25. REQUEST William J.	TION AMPLED 5 Sept 1996 (S (if more space These four (4) There are Resident to Analyst Septial accompany enalyst and sent DIRECT TO REQUALITY ASSURETAINED BY TO THER (Specify	21. PLACE SAMPLED New Hven De is required, continue on separate samples are of the only four enve Samples of these four (4 FORM hown Above (if possible, one of the sample. One copy shall be to region shown in Item 7.) SION IN ITEM 7 RANCE DIVISION RANSMITTER) and Title) 28. RESULTS	[] UMPIRE (Specify) [X) OTHER (See Remarks) pot a shoot) (4) lots retained at New Haven I 24. DISTRIBUTION these copies completed by	22. DISPOSI in Depot, IN Depot, IN (1-1	I) MATERIAI SUPPLIER PURCHASI TION OF SAME Disposal at L /2 lbs ea.) AN MATERIAL S: QUALITY ASS REGION SHO OTHER (Specin Defense N: DNSC-MQ 8725 John Fort Belvior	ALYSIS CERTIFICALYSIS CERTIFICAL DEPLIERAPURCH SURANCE DIVISIONAL INTEM 7 of attional Stockpown IN ITEM 7 of attional Stockpow	ATES HASER ION Sile Center Trive, Suite 4528

DLAH Form 35 Dec 88

A computer-penerated form

	Clarence M	IcDaniel		•	. ,		
MONITOR						DATE 19-Aug	-96
				•	•		
	Lot # 1		er e			REPORT NO	Sampling

Time	Location	Object Or Person Monitored	Instrument Used	Shield Open / Closed	Distance	Range	Reading	Dose Rate
	Whse - 215	Rare Earth			***	i Gr	ωr/hr	mr/hr
	Section - 2	Sodium Sulfate	Fag Meter	N/A	Contact		210	0.210
	Section							1
	Bays		,		Contact		565	0.565
	Section			* .				
	Bays				Contact		620	0,620
	· · · · · · · · · · · · · · · · · · ·				Contact		685	0.685
					Contact		795	0.795
								-#
					Average for	r five readi	ngs was 0.5	75 mr/hr
				1		_	were taken i	from inside
	_ <u></u>				of the drun	ns.		

Comments:

Background Radiation 0.03 mr/hr maximum reading found.

Condition of storage area is good.

Depot exposure records are maintained and exposure reading are recorded.

MONITOR			·		DATE 26-Aug-96		
· —	Lot # 2				REPORT N	10	Sampling

Time	Location	Object Or Person Monitored	Instrument Used	Shield Open / Closed	Distance	Range	Reading	Dose Rate
* of	Whse - 215	Rare Earth			Story of		μr/hr	mr/hr
	Section - 2	Sodium Sulfate	Fag Meter	N/A	Contact	1	400	0.400
	Section		<u> </u>		Oomaci	-	400	0.400
	Bays				Contact		450	0.450
	Section				Jonasc		430	0.450
	Bays				Contact		540	0.540
					Johnast		3-70	0.540
· · · · · · · · · · · · · · · · · · ·					Contact		650	0.650
					Contact		685	0.685
	-							*
					Average for	r five readi	ngs was 0.5	45 mr/hr
							were taken f	
Commont					of the drun			•

Comments:

Background Radiation 0.03 mr/hr maximum reading found.

Condition of storage area is good.

Depot exposure records are maintained and exposure reading are recorded.

	Clarence McDaniel		 		
MONITOR		·	DATE	3-Sep-96	
	Lot # 3		REPORT N	0	Sampling

Location	Object Or Person Monitored	Instrument Used	Shield Open / Closed	Distance	Range	Reading	Dose Rate
Whse - 215	Rare Earth			j. Kironia	11	ur/hr	mr/hr
Section - 2	Sodium Sulfate	Fag Meter	N/A	Confact			0.305
Section				33,113,01			0.505
Bays				Contact		540	0.540
Section					· · · · · · · · · · · · · · · · · · ·		0.540
Bays		·		Contact		630	0.630
		·		Contact		750	0.750
				Contact		810	0.810
				Average fo	r five readi	ngs was 0.60	. *
				Above listed readings were taken from inside			
	Whise - 215 Section - 2 Section Bays Section	Monitored Whise - 215 Rare Earth Section - 2 Sodium Sulfate Section Bays Section	Monitored Used Whise - 215 Rare Earth Section - 2 Sodium Sulfate Fag Meter Section Bays Section	Monitored Used Open / Closed Whise - 215 Rare Earth Section - 2 Sodium Sulfate Fag Meter N/A Section Bays Section	Monitored Used Open / Closed Whise - 215 Rare Earth Section - 2 Sodium Sulfate Fag Meter N/A Contact Section Bays Contact Section Bays Contact Contact Contact Average fo	Monitored Used Open / Closed Whise - 215 Rare Earth Section - 2 Sodium Sulfate Fag Meter N/A Contact Section Bays Section Bays Contact Contact Contact Average for five readi	Monitored Used Open / Closed Range Reading Reading Reading

Comments:

Background Radiation 0.03 mr/hr maximum reading found.

Condition of storage area is good.

Depot exposure records are maintained and exposure reading are recorded.

	Clarence McDaniel		Rare Earth (Sodiur	n Sulfate)	Corrected Copy
MONITOR				DATE 5-Sep-96	9/12/96 Note **
	Lot # 4	•		REPORT NOSampling	

Time	Location	Object Or Person Monitored	Instrument Used	Shield Open / Closed	Distance	Range	Reading	Dose Rate
	Whse - 215 Section - 2	Rare Earth Sodium Sulfate	Fag Meter	N/A	Contact	- p - 1 - 1 - 1	ur/hr 400	mr/hr 0.400 **
	Section Bays				Contact		525	0.525 **
	Section Bays				Contact		630	0,630
		Radiation was much hig	her on lot # 4	Drum # 2321	Contact		mr/hr 3,58	mr/hr 3.580
				Drum # 2315	Contact		mr/hr 2.10	mr/hr 2.100
					Average fo	 r five readin	igs was 1.44	47 mr/hr
C						d readings v	were taken fi	

Comments:

Background Radiation 0.03 mr/hr maximum reading found.

Condition of storage area is good.

Depot exposure records are maintained and exposure reading are recorded.



DEFENSE LOGISTICS AGENCY DEFENSE NATIONAL STOCKPILE CENTER

8725 JOHN J. KINGMAN ROAD, SUITE 3339 FT. BELVOIR, VIRGINIA 22060-6223



DNSC-M

September 24, 1996

MEMORANDUM FOR DNSC-P

Summary of DNSC Rare Earth Analyses

Enclosed is a summary of the rare earth analyses performed by Laboratory Testing Inc., Dublin, PA. This information should be made available to prospective bidders for their information.

If you need additional information, please contact B.I. Min of my staff.

GILES E. LEPAGE

Director

Directorate of Strategic Materials Management

Attachment

Orig - QA CC - lois

FAX TRANSMIT	AL sof page	3
To Judi Charen	From Allen	
Dest. Marriery 13, 11	Phone #	·
fed	Fax #	



Percent by Weight (Dry Basis)

9/24/96

							recigint (D)	'y Daniey	•				
Elements							Sample	!D					
		HM-1 (Lot-1)	HM-2 (Lot-2)	HM-3 (Lot-4)	HM-4 (Lot-5)	HM-5 (Lot-6)	HM-6 (Lot-7)	HM-7 (Lot-8)	HM-8 (Lot-9)	HM-9 (Lot-10)	HM-10 (Lot-11)	HM-11 (Lot-12)	HM-1: (Lot-1:
Rare Earth Oxide	REO	42.515 .	44.738	42.920	44.209	44.404	44.050						(
Lanthanum Oxide	La2O3	9.67	10.10	9.79	9.96	44.191	44.358	44.533	44.862	43.761	45.858	45.244	44.29
Cerium Oxide	CeO2	20.60	21.29	20.34	21.21	9.99	10.13	10.25	10.35	10.12	10.55	10.31	10.14
Praseodymium Oxide	Pr203	2.54	3.34	3.15	3.29	21.34	21.06	21.25	21.62	20.82	22.11	21.78	21.52
Neodymium Oxide	Nd2O3	7.70	7.91	7.65		3.15	3.40	2.93	3.22	3.20	3.37	3.45	3.21
Samarium Oxide	Sm2O3	1.21	1.27		7.70	7.74	7.69	7.97	*7.61	7.60	7.79	7.68	7.47
Europium Oxide	Eu2O3	0.010	0.013	1.23	1.27	1.20	1.27	1.29	1.25	1.23	1.25	1.27	1.20
Gadolinium Oxide	Gd2O3	0.466	0.485	0.013	0.013	0.016	0.014	0.009	0.007	0.005	0.009	0.008	0.009
Terbium Oxide	Tb407	0.006		0.450	0.459	0.452	0.480	0.506	0.488	0.473	0.480	0.462	0.460
Dysprosium Oxide	Dy2O3	0.008	0.010	0.008	0.010	800.0	0.011	0.009	0.010	0.010	0.011	0.011	0.400
Holmium Oxide	Ho2O3		0.123	0.113	0.115	0.114	0.117	0.124	0.119	0.117	0.114	0.108	0.108
Erbium Oxide	Er2O3	0.011	0.009	800.0	0.009	0.008	0.008	800.0	0.007	0.007	0.006	0.106	
Thulium Oxide	Tm2O3	0.023	0.021	0.019	0.020	0.021	0.019	0.019	0.019	0.018	0.016	0.006	0.006
Ytterbium Oxide	and the second s	0.003	0.002	<0.001	0.001	0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001		0.016
Lutetium Oxide	Yb2O3	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	<0.001	0.001
Yttrium Oxide	Lu2O3	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003		0.003	0.003
Thorium	Y2O3	0.154	0.161	0.145	0.148	0.147	0.155	0.164	0.158	0.001	0.001	0.001	0.001
Jranium	Th	0.002	0.002	0.001	0.002	0.002	0.002	0.002	0.001	0.137	0.148	0 ,139	0.137
	U	0.009	0.010	0.009	0.011	0.008	0.012	0.011	0.011		0.002	0.001	0.001
ulfur Trioxide	SO3	42.46	44.14	45.66	44.49	44.58	44.30	45.38	45.40	0.014	0.003	0.004	0.003
hosphate	P205	0.881	1.03	0.915	0.913	0.943	0.958	0.878		44.92	44.80	44.13	44.95
odium Oxide	Na2O	9.53	9.63	9.27	8.84	8.98	9.12	9.31	0.810	0.805	0.832	0.845	0.848
ilica	SiO2	0.065	0.056	0.057	0.061	0.065	0.064		9.33	8.97	8.96	9.15	8.87
trontium Oxide	SrO	0.008	0.004	0.013	0.016	0.005	0.004	0.064	0.065	0.066	0.066	0.062	0.068
arium Oxide	BaO	0.006	0.005	0.001	0.001	<0.003		<0.001	<0.001	<0.001	<0.001	< 0.001	< 0.001
alcium Oxide	CaO	1.24	1.23	1.29	1.16		<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001	< 0.001
lagnesium Oxide	MgO	0.013	0.018	0.002	0.003	1.17	1.18	1.28	1.22	1.27	1.31	1.30	1.27
lumina	Al2O3	0.292	0.304	0.002		0.004	0.006	<0.001	0.012	0.002	<0.001	< 0.001	0.008
erric Oxide	Fe2O3	0.088	0.108		0.295	0.284	0.284	0.293	0.291	0.292	0.303	0.300	0.298
ree Moisture (Loss on	Drving	v.000	u. rug	0.097	0,100	0.089	0.100	0.092	0.085	0.080	0.081	0.077	0.233
at 105°C) ombined Water (Loss	on Drvina	0.83	0.76	0.07	0.05	0.02	<0.01	0.03	0.22	0.12	<0.01	<0.01	<0.01
at 200°C after Drying ample ID HM: Hammo	at 105°C)	3.82	3.58	1.28	1.64	2.10	2.02	2.25	2.04	0.94	3.68	1.12	3.49

Sample ID HM: Hammond Depot, IN and Sample ID NH: New Haven Depot, IN. Analyses listed are the results of recent sampling and are provided for information only.

Percent by Weight (Dry Basis)

9/24/96

	<u></u> ,					-			, 540.0,							
	Elements							Sample II	Ð			•		•		
			HM-13	HM-14	HM-15	HM-16	HM-17	HM-18	NH-1	NH-2	NH-3	NH-4				
			(Lot-14)	(Lot-15)	(Lot-16)	(Lot-102)	(Lot-104)	(Lot-106)	(Lot-1)	(lot-2)	(Lot-3)	(Lot-4)				
	Para Earth Outre	BEG							<u> </u>	((0, 2)	(20, 0)	(1.01-4)	-		····	<u> </u>
	Rare Earth Oxide	REO	41.712	42.045	42.132	43.066	41.849	43.719	41.988	41.618	42,649	42.739				
	Lanthanum Oxide Cerium Oxide	La2O3	8.73	8.65	8.91	9.02	8.94	9.33	9.38	9.25	8.05	8.92				
		CeO2	19.85	19.78	19.84	19.85	19.27	20.12	20.17	20.55	21.20	21.39				
	Praseodymium Cxide		3.22	3.59	3.51	3.79	3.63	3.92	1.72	1.60	1.85	1.68	-			
	Neodymium Oxide	Nd2O3	7.84	7.94	7.81	8.34	8.02	8.21	8.31	8.03	9.04					
je.	Samarium Oxide	Sm2O3	1.30	1.31	1.28	1.29	1.24	1.34	1.45	1.29	1.51	8.50				7 5.
	Europium Oxide	Eu2O3	0.007	0.004	0.006	0.009	0.008	0.010	<0.001	<0.001		1.37				۳.
	Gadolinium Oxide	Gd2O3	0.470	0.474	0.476	0.472	0.459	0.480	0,723	0.681	< 0.001	<0.001				
	Terbium Oxide	Tb407	0.010	0.013	0.012	0.012	0.012	0.014	0.723	0.078	0.737	0.657				
	Dysprosium Oxide	Dy2O3	0.111	0.111	0.114	0.111	0.107	0.115	0.137	0.078	0.101	0.066				
	Holmium Oxide	Ho2O3	0.007	0.007	0.006	0.007	0.007	0.007	<0.001		0.131	0.115				
	Erbium Oxide	Er2O3	0.015	0.016	0.016	0.015	0.014	0.016	0.005	<0.001	<0.001	<0.001				
	Thulium Oxide	Tm2O3	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	< 0.001	0.005	0.002	0.011	0.006				
	Ytterbium Oxide	Yb2O3	0.003	0.003	0.003	0.003	0.003	0.003	0.001	< 0.001	0.001	<0.001				
	Lutetium Oxide	Lu2O3	0.001	0.001	0.001	0.001	0.001	0.003	0.002	0.002	0.002	0.002		•		
	Yttrium Oxide	Y2O3	0.148	0.146	0.148	0.146	0.138	0.001	0.001	0.001	0.001	0.001				
	Thorium	Th	0.002	0.002	0.002	0.001	0.001	0.001	0.009	0.014	0.015	0.014	**			
	Uranium	U	0.004	0.005	0.004	0.006	0.004	0.005	<0.009	0.007	0.008	0.010				
	Sulfur Trioxide	SO3	45.36	44.94	44.61	44.83	43.97	44.71		0.004	< 0.001	0.004				
	Phosphate	P205	0.767	0.773	0.843	0.822	0.833	0.922	46.68	47.04	46.76	47.04		,		
	Sodium Oxide	Na2O	9.45	9.71	9.19	8.47	8.55	9.03	0.116	0.027	0.028	0.072				
	Silica	SiO2	0.025	0.022	0.017	0.017	0.016		10.48	9.23	8.69	9.14				
	Strontium Oxide	SrO	< 0.001	<0.001	<0.001	0.001		0.017	0.255	0.230	0.165	0.105				
	Barium Oxide	BaO	0.007	0.004	0.001	<0.001	0.012	0.007	0.401	0.389	0.415	0.400		•		
	Calcium Oxide	CaO	1.40	1.40	1.32	1,32	<0.001	<0.001	0.004	0.010	0.150	0.010				
	Magnesium Oxide	MgO	0.002	0.003	0.003	0.002	1.35	1.34	0.101	0.104	0.100	0.123				
	Alumina	Al2O3	0.286	0.289	0.003		0.003	0.006	0.062	0.058	0.064	0.069				
	Ferric Oxide	Fe2O3	0.077	0.084	0.237	0.299	0.303	0.309	0.303	0.289	0.306	0.290				
	Free Moisture (Loss on	Drvina		0.007	0.014	0.064	0.054	0.060	0.027	0.014	0.015	0.027				
	at 105°C)		0.09	0.14	0.03	0.64							•			
-	Combined Water (Loss)	on Drying		W- (**	0.03	0.61	0.56	0.69	0.40	0.41	0.27	0.35				
	at 200°C after Drying	at 105°C)	1.29	0.96	1.92	4.57	4.92	4.88	0.68	0.65	0.17	0.38			•	•
	Sample ID ULL Liamone								•			- ,				

Sample ID HM: Hammond Depot, IN and Sample ID NH: New Haven Depot, IN. Analyses listed are the results of recent sampling and are provided for information only.

COMMODITY INSPEC			(X) SALES	() PROCUREMENT			
CONTRACT NUMBER	COMMODITY	(See List below)	PROGRAM	INSPECT REPORT NO.			
SP0833-96-M-0161	Rare Earth (Sodiu	m Sulfate)	NDS	1-F			
RELEASE OR S/I NUMBER	LOT NUMBER		REGION NUMBER	DATE OF INSPECTION			
N/A	NH-1 - NH-4		MQW (West)	13 Aug - 5 Sept 96			
PURCHASER OR CONTRACTOR	(Consignor Ship Fro	m)	ADDRESS				
N/A	4	•					
CONSIGNEE OR SUBCONTRACTOR			ADDRESS				
New Haven Depot			New Haven, IN 46774-9644				
PERSON CONTACTED (NAME & TITLE)			LOCATION OF MATERIAL INSPECT	ED			
Frederic W. Brooks Depot Manager	1 - 1		New Haven Depot New Haven,	. IN 46774-9644			
INSPECTION, SAMPLIN	IG AND ANALYSIS		DESCRIPTION OF PACKING (INCLU				
SAMPLES TAKEN () (X) Yes	ANALYSIS (X)		7				
BY CONTRACT By - MQWE/QA	BY PURCHASER		Sampling of Sodium Sulfate per	r procedure specified by			
SAMPLER/ANALYST	OR CONTRACTOR			ted 01 July 96 was initiated at			
WITNESSED () YES () NO	WITNESSED () YE	ES ((X) NO		ug 96 and completed 5 Sept 96.			
OTHER .	TYPES OF ANALYSE	NO. UNITS	7	ag to and completed to copt co.			
		PER	Sampling of the following lots :	under this contract has been completed			
		PER	Lot # 1 Sample # NH - 1	and completed			
		PER	Lot # 2 Sample # NH - 2				
INSPECTION	IDENTITY	OF SAMPLE	Lot # 3 Sample # NH - 3				
VISUAL 100 %	FORWARDING DATE	*	Lot # 4 Sample # NH - 4				
DIMENSIONAL %	SAMPLE NUMBER		···	mple from each lot was shipped to the			
FOR MARKING 100 %	LOT NUMBER		laboratory on 09Sep96 by Fede				
DISTRIBUTION OF SAMPLES (GIVE COMPLE	TE ADDRESS)	*************************************	DLA/DNSC/MOWE ***				
_aboratory Testing Inc.	•	Reserve ***	New Haven Depot	•			
120 Mill Street PO Box 249			15411 Dawkins Road	.*			
Oublin, PA 18917 215-249-9	898		New Haven, IN 46774-9644				
DESCRIBE METHOD OF INSPECTION, SAMP		PREPARATION (US	E ATTACHED SHEETS, IF NECESSAR	Υ)			
The Rare Earth Sodium Sulfate Sampling							
Sabtu (20) druma fram and latitude			The state of the s				

Eighty (80) drums from each lot was selected at random and opened to obtain a sample. A sample auger was used to take (3) full drum length equal increments from each drum selected per sampling plan, which was received with above procedure.

After samples were obtained from the selected drums, all samples increments of the lot were combined to make one (1) gross sample.

This gross sample was thoroughly mixed and processed through a (1") sample splitter to a one-half (1/2) pound test sample for the laboratory and a one and one-half (1-1/2)pound reserve sample. The laboratory sample was placed into a clean moisture proof ziploc plastic bag and placed into a pint metal container identified by a DLAH form 34 label. DLAH form 35 containing sample information and instructions was placed inside of shipping container. The reserve sample was placed in separate containers and labeled in a similar manner.

All remaining sample material was returned to the drums from which it came prior to resealing the drums. All prescretibed health precautions

were followed. Pocket dosimeter were provided as well as TLD's during sampling, all records are on file at New Haven Depot.

Item or LOT NO.	QUANTITY SAMPLED	LAB SAMPLE	SAMPLE NO.	RESERVE SAMPLE	DESCRIPTION OF MATERIAL
LOT#1	80 Dr.	1/2 Lb.	NH-01-96	1-1/2 Lb.	Rare Earth (Sodium Sulfate)
LOT # 2	80 Dr.	1/2 Lb.	NH-02-96	1-1/2 Lb.	2,324 Drums of material in storage at New Haven Depot
LOT#3	80 Dr.	1/2 Lb.	NH-03-96	1-1/2 LB	320 Drums were selected for sampling
LOT # 4	80 Dr.	1/2 Lb.	NH-04-96	1-1/2 LB	(4) Samples were processed for the laboratory and shipped
					by Federal Express on O9Sep96.
					Note:
					See Attached DLAH-35 and Radiation sample drum results for the
DEA CON FOR BEI					four lots, Lot # (4) was much higher than the other three.

REASON FOR REJECTION

NA

(X) Q.A. DIVISION	(X) Q.A. (West)	(X) SUPERVISORY Q.A. (MQWA)
DISTRIBUTION X) ORIGINATING DEPOT	() STOCKPILE DIVISION	() CONTRACTING OFFICER
) FINANCE	(,) CONTRACTOR	X) OTHER (SPECIFY) MOWE
INSPECTOR IS GNATURE DE JANIEL		DATE
Clarence McDaniel, QAS / Bill, Till QAS	Um l'el	9-Sep-96
DLAH FORM 32, May 93	//	This form is a computer generated version of Form OLAH 22, De- 9

·		MPLES TRANSMITTED				
	RE OR SALES CONTRACT NO.	2. EX VESSEL (Fany)	. 1	M R RELEASE	NO.	
ļ 	3-96-M-0161	Federal Express	NDS		NA	
6. MATERIAL (Grade and/o	• •	7. NUMBER AND ADDRESS	OF REGION C	ONCERNED	<i>J</i> •	
Rere Earth (Sodium Su	fato)	Defense National Stockp	ile Center		***	
		8725 John J. Kingman D	r., Sulte 4528			•
<u> </u>		Fort Belvoir, VA 22060-6	223		2.1	·
8. NAME AND ADDRESS (F ANALYST	9. NAME AND ADDRESS OF	MATERIAL SU	PPLIER/PURC	HASER	
Laboratory Testing Inc.		New Haven Depot				•
120 Mill Street (P.O. Bo	x 249)	15411 Dawkins Road			1.	
Dublin, PA 18917 Attn	Lee Dilks 215-249-9898	New Haven , IN 46774-9	644 219-749-	8291	Ť	
TO THE ANALYST - It is n	quested that analyses, including p	reparation if necessary in accord	lance with stated	movielone		
	on samples identified below.	:	AND MILE MARKET	Profisions	4	
ANALYSTS	GOVERNMENT		MINIOCO AI		7	d d production and
SAMPLE NO.	SAMPLE NO.	LOT UO AUD HADRO	NUMBER A	-		WEIGHT
OF MALLE NO.	SAMPLE NO.	LOT NO. AND MARKS	TYPE OF UNI	Т		of Lat
			 		P ⁽¹⁾	
A 1011			ĺ		1	
1 - NH	1	1	1	one can		1/2 lb.
2 - NH	2	2		one can		1/2 lb.
3 - NH	3	3	1	oue cau	1	1/2 lb.
4 - NH	4	4] .	oue caru	1	1/2 lb.
			}		Ì	
			1	•	1	
					1	
15. MANNER TRANSMITTI	D	18. DETERMINATION				
[] TAKEN		[] ALL CHEMICAL AND			X THE FOLL	OWING ONLY
BY ANALYST	[] DELIVERED DIRECT	PHYSICAL REQUIREMENT	s		Per Contract	(SPO833-96-M-0161)
1) BY MAIL	(X) BY EXPRESS	OF SPECIFICATION NO.	-		1 - COMEO	(or coso-an-in-draft)
17. AUTHORITY	OPEN MARKE				1	
[x] SERVICE	() FOR WHICH		II DV ACOCC	L SCT LINE		
(-102.11.02	CONTRACT		IJ BY AGREE		XI OTHER	per contract
18. PURPOSE	CONTINAC		WITH SUP		<u>.</u> i.	(SPO833-98-M-0161)
ID. PUNPOSE	*	10. PORTIONS OF THE PREF	ANED BAMPLE	S SHALL BE D	ISTRIBUTED BY	' ANALYST TO
IN COVERNMENT					Same	
[x] GOVERNMENT		[] UMPIRE		[] MATERIAL	- \$4.4	
(x) GOVERNMENT CONTROL	[] OTHER (Specify)			[] MATERIAL SUPPLIER	\$	
	() OTHER (Specify)	[] UMPIRE			*·*··	
CONTROL	() OTHER (Specify)	[] UMPIRE (Specify)		SUPPLIER	*·*··	
CONTROL [] UMPIRE	[] OTHER (Specify)	[] UMPIRE (Specify) [X] OTHER		SUPPLIER	*·*··	
CONTROL [] UMPIRE [] GENERAL	(] OTHER (Specify) 21. PLACE SAMPLED	[] UMPIRE (Specify) [X] OTHER		SUPPLIER		
CONTROL [] UMPIRE [] GENERAL INFORMATION		[] UMPIRE (Specify) [X] OTHER (See Remarks)		SUPPLIER PURCHASE	LES	· .
CONTROL [] UMPIRE [] GENERAL INFORMATION 20. DATE SAMPLED 13 Aug thru 5 Sept 1996	21. PLACE SAMPLED New Hven De	[] UMPIRE (Specify) [X] OTHER (See Remarks)		SUPPLIER PURCHASE	LES	
CONTROL [] UMPIRE [] GENERAL INFORMATION 20. DATE SAMPLED 13 Aug thru 5 Sept 1996	21. PLACE SAMPLED	[] UMPIRE (Specify) [X] OTHER (See Remarks)		SUPPLIER PURCHASE	LES	
CONTROL [] UMPIRE [] GENERAL INFORMATION 20. DATE SAMPLED 13 Aug thru 5 Sept 1996 23. REMARKS (if more space	21. PLACE SAMPLED New Hven De to is required, continue on separate	[] UMPIRE (Specify) [X] OTHER (See Remarks) pot	22. DISPOSIT	SUPPLIER PURCHASE	LES	
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A computer-upnerated form

Clarefice Michalli	ಶ 1		
MONITOR		DATE 19-Aug-9	6
and the second s			
Lot # 1		REPORT NO	Sampling

	Time	Location	Object Or Person Monitored	Instrument Used	Shield Open / Closed	Distance	Range	Reading	Dose Rate
		Whse - 215	Rare Earth	$\eta_i = d$	the many of			дr/hr	mr/hr
		Section - 2	Sodium Sulfate	Fag Meter	N/A	Contact		210	0.210
١		Section	. *						
Į		Bays				Contact		565	0.565
1		Section						1	
ļ	<u> </u>	Bays				Contact		620	0.620
				·		Contact		685	0.685
						Contact		795	0.795
						Average for	r five readin	igs was 0.5	√ 75 mr/hr
						Above liste	d readings v		

Comments:

Background Radiation 0.03 mr/hr maximum reading found.

Condition of storage area is good.

Depot exposure records are maintained and exposure reading are recorded.

MONITOR	Olarence Medanier		DATE 26-Aug-	96
·	Lot # 2		REPORT NO	Sampling

Time	Location	Object Or Person Monitored	Instrument Used	Shield Open / Closed	Distance	Range	Reading	Dose Rate
	Whse - 215 Section - 2	Rare Earth Sodium Sulfate	Fag Meter	N/A	Contact		уг/hr 400	mr/hr 0.400
	Section Bays				Contact		450	0.450
	Section Bays				Contact		540	0.540
				·	Contact		650	0.650
					Contact		685	0.685
					Average fo	r five readi	ngs was 0.5	45 mr/hr
Commonte						d readings	were taken f	

Comments:

Background Radiation 0.03 mr/hr maximum reading found.

Condition of storage area is good.

Depot exposure records are maintained and exposure reading are recorded.

	Clarence McDaniel	, and a second	, , , , ,	•
MONITOR			DATE	3- Sep-96
	Lot # 3		REPORT NO	OSampling

Time	Location	Object Or Person Monitored	Instrument Used	Shield Open / Closed	Distance	Range	Reading	Dose Rate
	Whse - 215	Rare Earth	The second of th				μr/hr	mr/hr
	Section - 2	Sodium Sulfate	Fag Meter	N/A	Contact		305	0.305
	Section				33.11.23.		000	0.303
	Bays				Contact		540	0.540
	Section				- Contact		0-10	0.540
	Bays				Contact		630	0.630
· 					Contact		750	0.750
							1 700	0.750
					Contact		810	0.810
								*
	ļ				Average for	r five reading	gs was 0.60	07 mr/hr
					Above listed readings were taken from			
				1	of the drum		1	1

Comments:

Background Radiation 0.03 mr/hr maximum reading found.

Condition of storage area is good.

Depot exposure records are maintained and exposure reading are recorded.

	Clarance MaDanial	Rare Earth (Sodium Sulfate)	Corrected Copy
MONITOR_	Clarence McDaniel	DATE 5-Sep-96	9/12/96 Note **
	Lot # 4	REPORT NOSamp	ling

Time	Location	Object Or Person	Instrument	Shield	Distance	Range	Reading	Dose Rate
		Monitored	Used	Open / Closed				Soos Rate
	Whse - 215	Rare Earth					ur/hr	mr/hr
100	Section - 2	Sodium Sulfate	Fag Meter	N/A	Contact		400	0.400 **
. ,	Section						1 400	0.400
	Bays				Contact		525	0.525 **
	Section					†		0.525
	Bays				Contact		630	0.630
							mr/hr	mr/hr
		Radiation was much high	her on lot # 4	Drum # 2321	Contact		3.58	3.580
							mr/hr	mr/hr
				Drum # 2315	Contact	1	2.10	2.100
		•	. "					
·	ļ				Average fo	r five readin	gs_was 1.44	7 mr/hr
					Above liste	d readings v	vere taken fr	om inside
Commonto					of the drum	ıs.		

Comments:

Background Radiation 0.03 mr/hr maximum reading found.

Condition of storage area is good.

Depot exposure records are maintained and exposure reading are recorded.

RADIATION MONITORING REPORT

MONITORS	Clarence McDaniel	DATE	Control# 3492
		REPORT NUMBER	80

		OBJECT OR PERSON	INSTRUMENT	SHIEL	_D				
TIME	LOCATION	MONITORED	USED	OPEN	CLOSED	DISTANCE	RANGE	READING	DOSE RATE
	Warehouse Loc.	Rare Earth, Sodium	Eberline-E-120		X	Contact	X 1	3	0.3 mr/hr
:	215 Section 2	Sulfate	Geiger Counter		Х	Contact	X 1	4	0.4 mr/hi
	Bays, 36,41, 42, 46,				X	Contact	X 1	8	0.8 mr/hr
	52, 53, 54,and 82								
						·			
		BACKGROUND RADIATION	0.02 0.03 mr/hr						
					: '				
				v					

comments:

MAXIMUM READING FOUND.

CONDITION OF STORAGE AREA IS GOOD.

DEPOT PERSONNEL EXPOSURE RECORDS ARE MAINTAINED AND EXPOSURE READING ARE RECORDED.

SOURCE MATERIAL LICENSE STC-133 AND NRC REGULATIONS ARE POSTED IN DEPOT OFFICE.

RADIATION MONITORING REPORT

MONITORS	Clarence McDaniel	DATE	Control# 3492
•			
		REPORT NUMBER	80

		OBJECT OR PERSON	INSTRUMENT	SHIE	LD				
TIME	LOCATION	MONITORED	USED	OPEN	CLOSED	DISTANCE	RANGE	READING	DOSE RATE
	Warehouse Loc.	Rare Earth, Sodium	Eberline-E-120		X	Contact	X 1	3	0.3 mr/hr
	215 Section 2	Sulfate	Geiger Counter		X	Contact	X 1	4	0.4 mr/hr
	Bays, 36,41, 42, 46,				X	Contact	X 1	8	0.8 mr/hr
	52, 53, 54,and 82					:			
							``````````````````````````````````````		
								· ·	·
		BACKGROUND RADIATION	0.02 - 0.03 mr/hr				1999 199	, , , , , , , , , , , , , , , , , , ,	

#### comments:

MAXIMUM READING FOUND.

CONDITION OF STORAGE AREA IS GOOD.

DEPOT PERSONNEL EXPOSURE RECORDS ARE MAINTAINED AND EXPOSURE READING ARE RECORDED.

SOURCE MATERIAL LICENSE STC-133 AND NRC REGULATIONS ARE POSTED IN DEPOT OFFICE.

### RADIATION MONITORING REPORT

MONITORS _	Clarence Mo		DATE	_ Control# 3492
			DEDODIALIMET	
<u> </u>		 * .	REPORT NUMBER	80

		OBJECT OR PERSON	INSTRUMENT	SHIE	LD				
TIME	LOCATION	MONITORED	USED	OPEN	CLOSED	DISTANCE	RANGE	READING	DOSE RATE
/ //P//P// - // - / - / - / - / - / - /	Warehouse Loc.	Rare Earth, Sodium	Eberline-E-120		x	Contact	X 1	3	0.3 mr/hr
	215 Section 2	Sulfate	Geiger Counter	~~~	X	Contact	X 1	4	0.4 mr/hr
	Bays, 36,41, 42, 46,		-1 (204 of 1)		X	Contact	X 1	8	0.8 mr/hr
	52, 53, 54,and 82								
		BACKGROUND RADIATION	0.02 0.03 mr/hr						
					-			<u> </u>	

#### comments:

MAXIMUM READING FOUND.

CONDITION OF STORAGE AREA IS GOOD.

DEPOT PERSONNEL EXPOSURE RECORDS ARE MAINTAINED AND EXPOSURE READING ARE RECORDED.

SOURCE MATERIAL LICENSE STC-133 AND NRC REGULATIONS ARE POSTED IN DEPOT OFFICE.

CODE-	461			NOTIF	ICATIO	N OF	STOCKE	ILE INSPEC	TION		349	2	
1. NAME A DLA/DNS	ND LOC 7	ATION OF D	EPOT C	OR FACILI	TY		IE AND	Rane			3. SERIAL N		
	_	, IN 46774	9644			TYPE	OF IODITY	Rear Earth Sodium Sul	nhale		(550/01)	81	<del></del>
D	TEALA			6.TYPE C	)F	10011111	00111	Godinii Oni	priate	<del></del>	4.REGION	НМС	<u> </u>
A T	B. THIS	15-Aug-95		STORAG SPECIFIC					215 Section - 2 2, 53, 54 and 62			Ē	
E	1	6-Mar-9€		AREA				46					
		F PERSON RES						7A. TEL. NO. O	* .		78. EXTENSIO	V	
FREDER	CW.Bh	ROOKS, DE	POLM					<b>219 749-595</b> 3					
8. STORAG	\ <del>-</del>	A Charact	16/6/		CTION		(Check and	oomplete. Explain r	regative responses.)			YES	NC
6. 510KAC	) C							orage Manual				X	<u> </u>
9. MATERIA	Δ1	B. Storage (						age Manual.				X	<u> </u>
5. Ma (1 🗆 (1)	, 1 has								-1/ A 13		<del> </del>	X	<del> </del>
10. RECOR	RDS	A. Depot Ma	maner (	Confirmed	that all a	nestano entrine h	na basa D	nation, Comming	iling, Migration an	a Eros	SION.	X	ـــ
		B. Depot Po					1640	<del> </del>	Dated		44.03.57	<del>  ×</del>	↓
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11. UNITS		Quantity ind	icated in					.T	tual and/or comput	ed co	9-Sep-83	1 ×	├
	ITY AND	Security and	Fire Pr	otection a	re being	provider	in accord	ince with Chalin	y Assurance and N	daterir	uiit.	X	├
FIRE PROT	ECTION	Inspection I	landboo	k and Sto	rage Mai	rual Rec	uirements	min www.	, montained and it			x	
13. CONTA		A. Malerial is					1	(Check only if	applicable)			<del>  </del>	-
PILES C							d as Presc	ibed in the Ston		······································		$\frac{1}{x}$	├─
OTHER	UNITS	C. Condition							(1) CLASS I	(	2) CLASS 11	B) CL/	155
				(Give e	xact num	ber in C	lass III und	er remarks)	100%		9	1.	96
	<del></del>			14. DES	CRIPTIO	N OF CO	ONTAINER	S, PILES, OR O	THER UNITS	<del>*</del>	·		
PRO-GRAM		(Pile, case,	1	LENGTH		•		EIGHT OF UNIT	TOTAL NUMBER	₹ OF	I. TOTAL	LE	3
<u> </u>	55 galio	, bale, etc.)	Ċ.	<u>a.</u>	<b>a</b> .	ETER	(1) GRO	35 (2) NET	UNITS		WEIGHT	<del></del>	
NDS		zed drums			34"	24"	756	700	2,324		1,593,113.5		
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15.REMAR	l. (S (Revie	w all other a	opropris	ale questic	OS CORE	inact in t	lavida facti	i (posostica ef	l stockpiled materia	le			
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				Janes gailes		<b>3 0</b> 1,14 CO	miprotes det	ans in this block					
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	Stacks	and storage	areas :	are in coc	d condi	tion, dry	and clear	Դ.	•				
\$1_1		on នព្រោន an											
Note:	Radiatio	on survey re	port is:	attached.									
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# Sheet1

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CH 5/16/5C DEFENSE LOGISTIC AGENCY

# Inter-Office Memorandum

IN REPLY

REFER TO DNSC-Q (B.I. Min/x73187)

9-May-95

HURCH

SUBJECT: Summary of DNSC Rare Earth (Sodium Sulfates) Analyses

TO:

Encl

**DNSZ-HM** 

- 1. Enclosed is a summary of rare earth (sodium sulfates) analyses performed by Luvak Inc., Boylston, MA. Thank you for your assistance.
- 2. If you have any questions, please contact B.I. Min of my staff.

GILES E. LEPAGE

Director

Directorate of Quality Assurance

& Technical Services

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1 Nov 95 Mynth

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DLA FORM 111

# SUMMARY OF DNSC RARE EARTH (SODIUM SULFATE) ANALYSES

# Percent by Weight (Dry Basis)

	***							9-May-95
Elements					Sample ID			
		1	2	3	4	FORE 95	BRAZ 95	DOME 95
Rare Earth Oxide	REO	47.82	45.67	47.62	49.19	44.72	43.44	44.24
Lanthanum Oxide	La2O3	11.12	10.79	9.21	9.66	11.01	10.29	10.36
Cerium Oxide	CeO2	22.25	21.35	22.82	22.93	20.45	20.60	20.97
Praseodymium Oxide	Pr2O3	3.08	2.91	3.37	3.70	2.65	2.60	2.83
Neodymium Oxide	Nd2O3	8.95	8.56	9,61	10.29	8.29	7.85	8.02
Samarium Oxide	Sm2O3	1.61	1.37	1.65	1.62	1.39	1.35	1.32
Europium Oxide	Eu2O3	0.02	0.01	0.02	0.02	0.02	0.02	0.02
Gadolinium Oxide	Gd2O3	0.46	0.41	0.55	0.61	0.54	0.36	0.37
Terbium Oxide	Tb4O7	0.08	0.07	0.09	0.10	0.09	0.07	0.08
Dysprosium Oxide	Dy2O3	0.08	0.07	0.11	0.11	0.11	0.14	0.10
Holmium Oxide	Ho2O3	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Erbium Oxide	Er2O3	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01
Thulium Oxide	Tm2O3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01
Ytterbium Oxide	Yb2O3	<0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01
Lutetium Oxide	Lu2O3	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	<0.01	<0.01
Yttrium Oxide	Y2O3	0.15	0.11	0.17	0.13	0.15	0.14	0.15
			0.05	0.07	0.47	0.05	0.04	0.04
Thorium	Th	0.07	0.05	0.07	0.17	0.05	0.04	0.04
Uranium	U	< 0.01	0.02	<0.01	<0.01	0.01	43.70	44.20
Sulfur Trioxide	SO3	44.45	45.94	45.94	* *	41.95	0.92	44.20 0.76
Phosphate	P2O5	0.06	0.01	0.01	0.02 9.46	0.85	8.82	9.19
Sodium Oxide	Na2O	9.67	10.72	9.26		8.37	0.02	0.04
Silica	SiO2	80.0	0.04	0.05	0.03	0.16	0.02	0.04
Strontium Oxide	SrO	0.05	0.04	0.05	0.05	0.05	0.04	0.04
Barium Oxide	BaO	<0.01	<0.01	<0.01	< 0.01	<0.01		
Calcium Oxide	CaO	0.17	0.13	0.12	0.11	1.20	1.04	1.20
Magnesium Oxide	MgO	0.01	<0.01	0.01	0.01	0.01	0.01	<0.01
Alumina	Al2O3	0.01	0.02	0.02	0.02	0.02	0.02	0.03
Ferric Oxide	Fe2O3	0.02	0.01	0.01	<0.01	0.06	0.10	80.0
Free Moisture (Loss on at 105 C)	Drying	0.17	0.37	0.11	0.12	0.62	0.26	<0.01
Combined Water (Loss at 200 C after Drying		0.82	0.78	0.35	0.51	4.32	3.18	2.80

Sample ID #1, 2, 3, & 4 are from New haven Depot, IN and domestic origin. Sample ID FORE 95, BRAZ 95, & DOME 95 are from Hammond Depot, IN

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COM	<b>NODI</b>	TY IN	SPECTION I	REPO	ORT						
						[X] SALES		PROCUREMENT			
CONTRACT NUM			COMMODITY	,		PROGRAM		INSPECTION REPORT NUMBER			
DLA-300-95-M-00			Rear Earth' Sodi	um Sul	phate	NDS		1			
RELEASE OR S/I	NUMB	ER	LOT NUMBER			REGION NUMB	ER	DATE OF INSPECTION			
same			1, 2, 3, 4			НМ		25-Jan-95			
PURCHER OR CO	ONTRA	CTOR	1 1 21 01 1	·		ADDRESS		75-7 <b>a</b> U-30			
Luvax Inc.;							O Bov 5	97; Layiston, MA 01505			
CONSIGNEE OR	SUBCO	NTRAC	CTOR	<del>~··</del>	·	ADDRESS	O. Dux J	97, Layston, MA UTOCO			
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David L. Brown, Co						New Haven Depo					
	911114011	119 7 Watti	iii iioti utoi			DESCRIPTION	OF DACE	77 74-9044 74 CINIC			
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SAMPLES TA	AKEN [	<b>X</b> ]	ANALYS	S	[X]	(MOLODE 11) E	. 01 00	TVE TANCE)			
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SAMPLER/ANALY	rst		BY PURCHASE	2	1	Lot#1 =	1 lb	•			
			OR CONTRACTO	-	х	LO(F)	LIN				
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BY INSPECTOR			BY GOVERNME	NT	<del> </del>		i iu				
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or (TILI)	<u> </u>		TYPE OF ANALY	/CIC	# OF	Lot#4 = 1	1 10				
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AMA COLONIA CO		DED CONTRACT	<del>,</del>	UNITS							
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			IDENTITY	OF SA	MPLE						
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DIMENSIONAL	[		SAMPLE NUMBE	:R							
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DESCRIBE METHO	OD OF	INSPEC	CTION, SAMPLING	S AND/	OR SAM	PLE PREPARATIO	)N				
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I his mater	ial of ea	ach lot v	vas mixed, coned a	nd split	into two	one lb samples an	id the ren	naining was for reserve samples.			
The materi	iai was	sent to t	the Lab by express	mall.				- · ·			
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		·	OR SOLD	REJ	ECTED	REJECTED					
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			TION DEPOT			PILE OP DIVISION	j				
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	B. THIS				AASLO	,					
	1		SPECIFIC	C DEPOT		Bays 36	, 41, 42, 46, 5	2, 53, 54 and 62			
	_ <u></u>									•	
7.1	NAME AND TITLE O	F PERSON RESPON	SIBLE FOR MA	ATERIAL		7A TEI	L NO. OR CODE		78. EXTENSION		
	Frederic	W. Brooks	Depot	Manage	r .	219-	-749-5953				
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8. STO	RAGE	A. Storage Facili	des Are of the	e Type Presc							<del>  ''</del>
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		,			a have been Po	sted.			-	Х	
10. REC	ALAST 29-Dec-93 B. THIS 8-Jul-94 7. NAME AND TITLE OF PEF Frederic W. L. STORAGE A. S. B. S. L. MATERIAL A. M. B. M. B. M. C. RECORDS B. D. L. L. UNITS CUA 2. SECURITY AND Security AND INSP 1. UNITS C. C			· · · · · · · · · · · · · · · · · · ·		dated	· .	14-Oct-57			
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13. CON	ITAINERS,				rked as Prescri			· · · · · · · · · · · · · · · · · · ·			
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10.	REMARKS	(Revi	ew all other a	appropriate q	estions contair	ed in "guide for th	ne inspection of	stockpiled material	and storage		
	Computed o	Facility Of the across w	es," and, if d	eficiencies ar	s found, give th	e appropriate guid	de numbers an	d complete details in	this block)		
	Material is st	ored on wood	nellote St	ot 40 (900) acks and a	a cara.		a m 1141				
	Radiation sig	ins are posted	passara. Or	arvo end s	rounde mens	sererius Sood C	onation,				
N				d.							
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18.	RECOMMENDA	ATIONS (Not t	o be construc	ed by storage	depot or facility	as authorization	to proceed with	remediai measures	beyond the		
		acope	of usual auti	hority)	1	1	51. 73	29 / 750m	10/12-3	79	
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18. N	AME OF INSPEC	X ORIG	INATING D		XIQAZO XISTOCK CONTR	NE BRANCH (PILE OP. DIVIS RACTOR		- X	SUPERVISOR CONTRACTION OTHER	Q.A. IG OFFICE	R
		X ORIG	INATING D		XIQAZO XISTOCK CONTR	NE BRANCH (PILE OP. DIVIS RACTOR		- X	SUPERVISOR CONTRACTION OTHER	Q.A. IG OFFICE	R
CLAI	New Haven Depot, IN COMMODITY (D 574/65T)C AREDIN HMQ  ALAST 29-Dec-83 STORAGE AND Warehouse Location - 215 Section - 2 STORAGE AND Warehouse Location - 215 Section - 2 SPECIFIC DEPOT Beys 36, 41, 42, 46, 52, 53, 54 and 62  AREA 7. NAME AND ITILE OF PERSON RESPONSIBLE FOR MATERIAL Frederic W. Brooks, Depot Manager 1NSPECTION DATA (Check and complete: Explain negative responses) NSPECTION DATA (Check and complete: Explain negative responses) STORAGE 8. Storage Facilities Are of the Type Prescribed in the Storage Manual 8. Storage Facilities Are of the Type Prescribed in the Storage Manual 9. Storage Facilities Are of the Type Prescribed in the Storage Manual 9. Storage Facilities Are of the Type Prescribed in the Storage Manual 9. Storage Facilities Are of the Type Prescribed in the Storage Manual 9. A Material is Storage for the Manner Prescribed in the Storage Manual 9. A Least CSR No. 1808 9. A Material is Storage in Proper Continuents and Prescribed in the Storage Manual 9. A Material is Storage in Proper Continuents (Check only if application) 9. A Material is Storage in Proper Continuents (Check only if application) 9. A Material is Storage in Proper Continuents (Check only if application) 9. A Material is Storage in Proper Continuents (Check only if application) 9. A Material is Storage in Proper Continuents (Check only if application) 9. A Material is Storage in Proper Continuents (Check only if application) 9. A Material is Storage in Proper Continuents (Check only if application) 9. A Material is Storage in Proper Continuents (Check only if application) 9. A Material is Storage in Proper Continuents (Check only if application) 9. A STORAGE (Continuents) 9. A STORAGE (Continuents) 9. A STORAGE (Continuents) 9. A STORAGE (Continuents) 9. A STORAGE (Check only if application) 9. A STORAGE (Check only if application) 9. A STORAGE (Check only										

# **PADIATION MONITORING REPORT**

MONITORS	CLARENCE MCDANIEL	DATE 8-Jul-94	3492
		REPORT NUMBER	78

TIME LOC	100.	OBJECT OR PERSON	INSTRUMENT	SHIELD		T			Τ,
	LOCATION	MONITORED	USED	OPEN	CLOSED	DISTANCE	RANGE	READING	DOSE PATE
WAREHOUSE 215-2		RARE EARTH	EBERLINE E-120		×	CONTACT	X1	0.3	0.3 mr/hr
		SODIUM SULPHATE			×				
	BAYS 36,41,42,46,5	2,53,54 AND 62			×	•	Χi	0.6	0.6 mr/hr
							·		
<del></del>						<u> </u>			
<u> </u>	·						*****		
· · · · · · · · · · · · · · · · · · ·									
		BACKGROUND RADIATION	0.03 mr/hr						

#### COMMENTS:

MAXIMUM READING FOUND.

CONDITION OF STORAGE AREA IS GOOD.

DEPOT PERSONNEL EXPOSURE RECORDS ARE MAINTAINED AND EXOSURE READING ARE RECORDED. SOURCE MATERIAL LICENSE # STC-133 AND NRC REGULATIONS ARE POSTED IN DEPOT OFFICE.