

NATIONAL LEAD COMPANY OF OHIO
HEALTH AND SAFETY DIVISION - ANALYTICAL DEPT.
ANALYTICAL DATA SHEET

INDUSTRIAL HYGIENE AND RADIATION DEPT.

ANALYTICAL CHEMISTRY SECTION

I. H. NO. 465	SAMPLE NOS.: 15	DATE COLLECTED: 5/23/61	BY: DF	ROUTE TO: DF	DATE RECEIVED: 5-26-61	BY:
LOCATION: Ajax-Mangethermic		TYPE OF SAMPLE: air dust		ANALYZED FOR:		DATE REPORTED: BY: 6-1-61
REMARKS: Induction heat treating of 1.6" x 18" uranium hollow billets with a 4" x 4" circular copper coil (preparatory for future tests-project M-10-5-7- with GFM Forging Maching - at Ithaca, NY)				F	<input checked="" type="checkbox"/>	Alpha
				U	<input checked="" type="checkbox"/>	Beta
				NO ₃		Ra
				Oil		pH
				Be		Th
				CI		TSS
					METHOD OF ANALYSIS: MAC#1 12:25 5-26-61	
					COUNTING DATA: BKGD .27 c/m GEO 40%	

SAMPLE NO.	HOUR	SAMPLE DESCRIPTION	R	T	Q	c	t	c/m	DPM/m ³
750	0757	BKGD-before any testing above vertical scanner.-GA	.30	15	4.5	6	30.00	ND	ND
749		(hollow 1.6" x 18" billet in pos). Same as 750	.30	15	4.5	9	30.00	.03	.08
748	0802	Bkgd-drill press - GA	.30	15	4.5	12	30.00	.13	.10
747		Same as 748	.30	15	4.5	4	30.00	ND	ND
746		BZ-drilling thermo holes (5)	.30	2.5	.75	89	13.00	6.58	31
745		same as 746	.30	1.5	.45	18	30.00	.33	3
744		BZ-appl. of heat	.30	2	.60	28	30.00	.66	4
743		Process 6" from top of coil	.30	3	.90	111	30.00	3.43	14
742		Process 3" from top of coil	.30	3	.90	344	30.00	11.20	44
741		Process 5" above coil	.30	3	.90	20	30.00	.40	2
740		GA-12" away	.30	15	4.5	26	30.00	.60	.50
739		GA-quenching operation	.30	2	.60	3330	10.00	332.73	1981
738		Process same as 741	.30	5	1.5	148	7.00	20.87	50
737		BZ-during heat application	.30	3	.90	51	30.00	1.43	6
736		BZ-same as 739	.30	1	.30	659	6.00	109.56	1304

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ANALYTICAL CHEMISTRY SECTION

I.H. NO. 83	SAMPLE NOS.: 18	DATE COLLECTED: 2/29/60	BY: JM	ROUTE TO: JM	DATE RECEIVED: 3-9-60	BY: RP
LOCATION: AJAX-MAGNETHERMIC		TYPE OF SAMPLE: air dust		ANALYZED FOR		DATE REPORTED: 3-11-60
REMARKS: Samples were taken at slug heat treating operation in Youngstown, Ohio. The operation will be carried out at NLO; however, the air dust level will be much lower because the amount of oxide on these slugs was very great and no ventilation				F	X	Alpha
				U		Beta
				NO ₂		Ra
				Oil		pH
				Be		Th
					METHOD OF ANALYSIS: ASC # 3	
					COUNTING DATA: 10:00 3-10-60	
					BY:	
					BKGD .17 c/m GEO 40%	

SAMPLE NO.	HOUR	SAMPLE DESCRIPTION	R	T	Q	Count	Time	c/m	d/m/m3
		was provided during this sampling period. Very little movement in area to cause air currents (windows closed). Total of 24 slugs heated.							
4728	1135	Entrance of coil (utilizing vacuum cleaner)	.02	3	.06	6	16.50	.19	11
4729	1135	Exit of coil (utilizing vacuum cleaner)	.02	3	.06	4	25.00	nd	nd
4730	1135	Control (utilizing vacuum cleaner)	.02	3	.06	2	15.00	nd	nd
4731	1150	Entrance of coil (utilizing vacuum cleaner)	.02	3	.06	11	15.00	.56	33
4732	1150	Exit of coil (utilizing vacuum cleaner)	.02	3	.06	6	18.00	.16	10
4733	1150	Entrance of coil (utilizing vacuum cleaner)	.02	3	.06	3	16.50	.01	1
4734	1150	Exit of coil (utilizing vacuum cleaner)	.02	3	.06	7	19.00	.20	12
4735	1150	Entrance side of vacuum exhaust from coil exit.	.02	3	.06	4	16.50	.07	4
4736	1150	Exit side of vacuum exhaust from coil exit.	.02	3	.06	12	15.00	.63	37
4737	1215	Exit side of coil without use of vacuum.	.02	3	.06	32	4.34	7.20	418
4738	1215	Entrance side of coil without use of vacuum.	.02	3	.06	32	.94	33.87	1967
4739	1230	Quench operation on 20 slugs (steam and transport)	.02	3	.06	32	.80	39.83	2313
4740	1230	Control	.02	3	.06	3	15.00	.03	2
4741	1530	Control (?)	.02	3	.06	2	17.00	nd	nd
4742	1530	Slug cooling (output end) 12 slugs on tray	.02	2	.04	32	1.61	19.71	1717
4743	1530	Cooling of 12 slugs on tray	.02	2	.04	29	17.50	1.49	129
4744	1545		.02	2	.04	32	12.43	2.40	209
4745	1545		.02	2	.04	19	23.00	.66	57

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