MO.09-3

7873 MO.9

RECORD OF CONTACT

DATE: December 4, 1990

SUBJECT: The Medart Company
St. Louis, Missouri

PERSON CONTACTED: Mr. Walter L. Seigerest, President
Meeco, Inc.
1600 S. Kings Highway
St. Louis, Missouri 63110

314-773-1122

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1. Mr. Seigerest was the sales manager at Medart during uranium turning operations in the early 1950's. Records indicate he and the president of Medart, Mr. W. Seigerest, were present during a machine demonstration. The purpose of the call was to verify the site address and to obtain more information on the nature of the operations.

2. He noted at the beginning that in the early 1950's, "we had the largest concentration of uranium in the free world." Later he agreed that operations were brief and few in number.

3. Mr. Seigerest said that the presumed site address, 180 Potomac Street, had been replaced by a highway, although one building may still be left. He would not confirm Potomac Street as the site, claiming the machine was "the site" as it was a self-contained system. That is, after bars were placed in the Medart machine, the machine automatically turned them and collected the chips and dust in drums. Mr. Seigerest also mentioned that the Medart Company later operated at 1211/1213 Hadley Street.

4. The machine was sold to Catalytic Construction Company, the Fernald general construction contractor. It was returned some years later, decontaminated and sold at GSA auction.

5. Mr, Seigerest claimed that pertinent records are still held by the Medart Company in Ohio and suggested any legal responsibility is theirs. (The Medart Company is not listed in the Thomas Register of Companies. Further, the trademark "Medart" belongs to Meeco, Inc., Mr. Seigerest's company.)

6. I asked Mr. Seigerest about the Bliss & Laughlin Steel Company, as their operations used a Medart machine. He indicated that the equipment was scrapped long ago -- although there might still be one piece in Buffalo -- after having sat for years on the back dock of Medart's Hadley Street building. The uranium was machined in the building next to the foundry, where the ceiling height is 40 feet.

FILE COPY

He did not know for whom the uranium was machined. Jerry Brady was the plant manager at the time and now lives in Ohio. Jack Mason, Junior and Senior were plant workers/supervisors involved in operations.

Dan Stout
Weston/OTS

1/6
Charlie - sent in response to Jim Bagel's query for more specific site info.

M0.9

WESTON MANAGERS DESIGNERS/CONSULTANTS
OFFICE OF TECHNICAL SERVICES
12800 MIDDLEBROOK ROAD, SUITE 207
GERMANTOWN, MARYLAND
301-353-1281

FAX: 301-353-0750

DATE: 1/6/92

TO: Jim Bagel

ORGANIZATION: OIRM

LOCATION:

FAX NUMBER: 615-576-9384

VERIFICATION:

FROM: Dan Stout

COMMENTS: Attached is my record of contact. Niagara Cold Drawn may be able to trace employees' names cited by Mr. Seigerst. Hope this helps.

Dan Stout

NUMBER OF PAGES
(EXCLUDING COVER)

2

The Former Medart Company
3535 DeKalb Avenue/180 Potomac Street
St. Louis, Missouri

Site Function

The Medart Company manufactured steel mill machining equipment which was also useful in uranium processing. In particular, the Medart two roll straightener was used for straightening up to twenty foot lengths of uranium rods, and the Medart bar turning machine was used to remove surface defects and finish rods to final diameter. The bar turning machine had a separate dust collector and collected turnings in a pit for subsequent drumming.

Records indicate three separate test operations at Medart. In May 1951 eight boxes of uranium rods from Bethlehem Steel were to be shipped to Medart. Use of the rods and final disposition are not known. In August of 1951 an American Machine and Foundry representative reported on rod straightening tests. Six 1" diameter, 42" length target rods were tested on the two roll straightener. Composition of the metal, referred to as an alloy in the records, is not known. Lastly, in November 1952 National Lead of Ohio (NLO) surveyed the site for a one week test of bar turning machine operations.

Site Description

An on-site visit has not been conducted by the Department of Energy. An Atomic Energy Commission letter lists the site address as 180 Potomac Street, while a 1952 St. Louis City Directory lists 3535 DeKalb as the Medart address. Both streets intersect at approximately 150 Potomac/3500 DeKalb, so work was apparently performed in the general building cluster. The Potomac Street site has been replaced by Interstate 55; addresses stop at 160 Potomac and begin again at 2000. The building at 3535 DeKalb still exists. A map of the area is attached.

Owner History

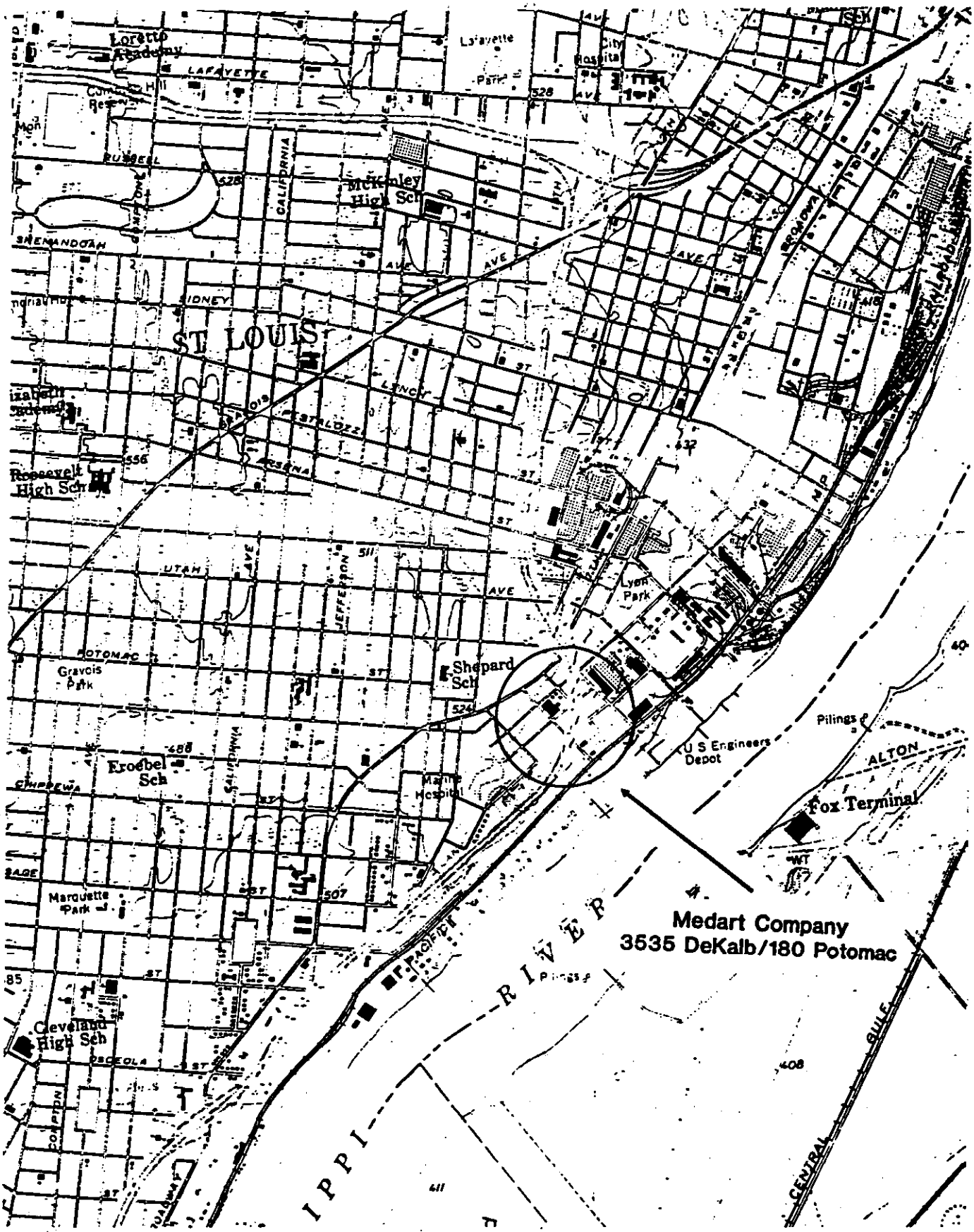
The Medart Company originally owned the site. The building at 3535 DeKalb is owned now by Cross Realty. The current owners have not been contacted.

Radiological History and Status

The site was surveyed in November 1952 by NLO during machine test operations. Measurements of the machine during operation range from 250 disintegrations per minute per square meter (dpm/m^2) to 40,000 dpm/m^2. Measurements of the general area 20 to 50 feet away from the machine range from 40 to 350 dpm/m^2. The guidelines of the day limited maximum continuous exposure to 70 dpm/m^2.

There are no records that the site has been decontaminated. According to a former Medart employee, the bar turning machine was shipped to Fernald for use at the Feed Materials Production Center. The machine was later decontaminated and sold at auction.

While there is some potential for residual radioactivity, concentrations should be slight and restricted to dust collecting surfaces such as overhead beams. More information is required regarding the exact location of test operations.


Loretto Academy
LAFAYETTE
Lafayette Park
McKinley High Sch
SHENANDOAH AVE
SIDNEY
ST LOUIS
LINCOLN
Roosevelt High Sch
UTAH
JEFFERSON
POTOMAC
Gravois Park
Shepard Sch
Lyon Park
Pilings
U S Engineers Depot
ALTON
Fox Terminal
Medart Company
3535 DeKalb/180 Potomac
Froebel Sch
CHIPPEWA
Marquette Park
Cleveland High Sch
OSCEOLA
COMPTON
MISSISSIPPI RIVER
CENTRAL GULF

NLO MO.9 MEDART CO.

H–S 1–H

NATIONAL LEAD COMPANY OF OHIO
P.O. Box 158 Mt. Healthy Station
Cincinnati 31, Ohio

HEALTH AND SAFETY DIVISION

Industrial Hygiene No. _____
Sample Nos. M 300 – M 316

Type of Sample Air Dust
Analyze for alpha

Industrial Hygiene

Plant Medart Co. Collected by Davis & Heatherton
Date 11-3-52 Route To Heatherton
Remarks Test Operation But Turning at St Louis Plant

Analytical Laboratory

Date Received 11-4-52 by B.S
Method of Analysis Sc. Co. Tech. 1 by D.E.
Results Reported 11-6-52 by D.E.

Sample No	Hour	Sample Description	Sampling R	Sampling T	Sampling Q	Total Count	Count Time	Counts Min	Results d/m/M³
M 300	11:30a	GA For Background - Over Collect or Discharge - No operations	.020	30.0	.6	8	≤0	.06	.33
M-301	1130	GA " " Over Cutter No Operation		30.0	.6	7	30	.06	.46
M-302	1200	GA " " By Clip Exchange to pit		48.0	.96	6	30	.0	0
M303	1200	GA " " 15' from Cutter Head over Runway		48.0	.96	7	30	.03	0.1
M304	1300	GA " " Back of Control Panel 10' from cutter		30	.60	14	30	.26	1.4
M305	1300	GA " " 35' from Tool end of machine		30	.60	4	30	0	0
M306	1515	P - OVER Sump - part rod		4	.08	138	1	131.60	585
M307	1515	P - Feed end of tool - rod		5.9	.118	389	1	366.80	11207
M308	1605	G.A Over dust collector - no cutting		16	.32	67	3	27.19	255
M309	"	G.A Instrument Panel (after 2nd rod)		20	.40	91	5	18.00	153
M310	1630	G.A. " " " "		13	.26	71	15	4.53	59
M311	1650	P - Same as M307 (not full load)		3	.06	115	1	114.80	16507
M312	1655	P - Same as M307, 11		1.75	.035	102	1	101.90	9893
M313	1710	P - Exit End of Cutter		2	.04	73	3	24.13	2051
M314	1713	P - " " "		3.2	.064	79	1	78.80	4187
M315	1710	P " " "		2	.04	107	3	35.46	9015
M316	1753	P " " "		3.0	.06	131	2	65.30	3701

H-S 1-H

Industrial Hygiene No.

Sample Nos.

NATIONAL LEAD COMPANY OF OHIO
P.O. Box 158 Mt. Healthy Station
Cincinnati 31, Ohio

HEALTH AND SAFETY DIVISION

Type of Sample Air Dust

Analyze for alpha

Industrial Hygiene

Plant Medart Company Collected by Phil Davis & R Heatherton

Date 11/3/52 Route To Heatherton

Remarks Bar Turning Test at St Louis Plant

North Side of Machine

Analytical Laboratory

Date Received 11-4-52 by B.S.

Method of Analysis Sc. Co. No. 1 by O. L.

Results Reported 11-7-52 by O. L.

Sample No	Hour	Sample Description	Sampling R	Sampling T	Sampling Q	Total Count	Count Time	Counts Min	Results d/m/M³
M-317	1630	GA Same as M-308	.020	14.0	.28	89	15	5.70	69
M-318		P. Over Chip Pan New coolant pumps installed noted 50 gpm turning bar = 1st 2 min		2.0	.04	73	3	24.10	2049
M-319		P " " " " " last 3 "		3.3	.066	93	2	46.27	239
M-320	1710	GA 3' over exhaust of dust collector machining 1 bar nothing running		5.5	.11	168	1	167.77	5187
M-321	1716	GA Same location as M-320		20.0	.40	124	M	17.49	148
M-322	1751	GA Same as M-320 Started turning 1 munger bar		5.0	.10	93	5	18.37	625
M-323	1756	GA Ex. end of cutter Nothing running		6.0	.12	72	30	2.17	61
M-324	1800	GA Same as M-321		4.0	.08	84	45	1.63	69
* M-325	1806	P about 1 ft above sump in fumes		2.0	.04	268	1	267.67	22761
M-326	1812	GA 4' to left of cutter. Nothing running		15.0	.30	70	6	11.43	129
M-327	2025	GA Same location as M320 · Changing with ...		22.0	.44	108	5	21.37	165
M-328	2115	P about 1' above sump - 1st bar.		2.5	.05	581	1	580.77	39508
* M-329	2118	GA 10' to side of cutter 1st bar		2.5	.05	296	2	147.77	10052
M-330	2200	P same as M328 - 2nd bar		2.0	.04	115	2	57.27	4869
* M-331	2202	GA Same as M 329 - " "		3.0	.06	123	2	61.27	3473
M-332	2223	GA 20' NW of Cutting Tool On box		30.0	.60	168	15	10.97	62
M-333	2255	GA 25' SW of " " On ...		9½	.19	63	30	1.87	33

5½

Coolant system changed →

Sc. Co. No. 1 ... 11/4/52

H-S 1-H

Industrial Hygiene No. 1/

Sample Nos. M334 - 350

NATIONAL LEAD COMPANY OF OHIO
P.O. Box 158 Mt. Healthy Station
Cincinnati 31, Ohio

HEALTH AND SAFETY DIVISION

Type of Sample Air Dust

Analyze for α

Industrial Hygiene

Plant Mcdart Collected by Davis & Heatherton

Date 11-3-52 Route To Heatherton

Remarks No change in cooling method
change samples M336 - A proved coolant
application on M337

Analytical Laboratory

Date Received 11-4-52 by BS

Method of Analysis Sc. Co. No. 1 by D.S.

Results Reported 11-6-52 by D.S.

Sample No	Hour	Sample Description	Sampling R	Sampling T	Sampling Q	Total Count	Count Time	Counts Min	Results d/m/M³
M334	1800	P- Exit End of tool.	.02	2	.04	97	3	32.17	2735
M335	1803	P- " " " "		2.8	.056	78	2	38.84	2358
M336	2020	G.A. Entrance to run-in (down 2 hrs. 6' from tool Head)		22.5	.45	81	3	26.84	202
M337	2110	P- Feed End of tool		3	.06	176	1	175.84	9968
M338	2205	P- Same as 337 - Tapper after Tapping		2	.04	79	2	38.84	3302
M339	2207	P- " " 338 " " "		2.5	.05	94	2	46.84	3186
M340	2230	G.A. - 20 min after cutting 15' from tool		30	.6	61	7	8.51	48
M341	2300	G.A. 6' from tool Head		6	.12	21	30	.50	14

Same tool 42% 10c/HR 42% 12c/HR

Hemming BKG D Hemming BKG D

11-5-52 11-6-52

H-S 1-H

Industrial Hygiene No. 84

Sample Nos. M342 - 352

NATIONAL LEAD COMPANY OF OHIO
P.O. Box 158 Mt. Healthy Station
Cincinnati 31, Ohio

HEALTH AND SAFETY DIVISION

Type of Sample Air Dust

Analyze for α

Industrial Hygiene

Plant Mallinckrodt St. Louis Collected by Davis

Date 11-4-52 Route To Health & Safety

Remarks Ventilation improvements made as discussed. Metallurgy: speed 750 rpm

Analytical Laboratory

Date Received 11-10-52 by D. L.

Method of Analysis Sc. Co. Ind. by DL & BS

Results Reported 11-21-52 by B.S.

Sample No	Hour	Sample Description	Sampling R	Sampling T	Sampling Q	Total Count	Count Time	Counts Min	Results d/m/M³
M342	0915	G.A. 10' E. from tool - Before running cutting (10' from tool) (sample slipped)	.02	30	0.6	8	30	.16	.9
M343	0915	G.A. Above dust Collector - Hot cutting		30	0.6	24	30	.50	2
M344	0950	G.A. Same as 342		30	0.6	9	30	.07	0
M345	0950	G.A. Same as 343		30	0.6	7	30	0	0
M346	1045	G.A. End of run-in jaws		30	0.6	11	30	.33	2.
M347	1045	G.A. 5' from end of run-out table		30	0.6	14	30	.26	1.
M348	1500	P. over Sump		2.5	.05	97	5	19.2	1306
M349	1500	G.A. Same as M347 - While cutting		2	.14	108	15	7.	170.
M350	1500	Same as 348: Heavy extinguisher chip (Sample stopped, collector filled)		2.0	.04	182	25	7.08	602
M351	1510	G.A. 4' above dust collector after stair		30	0.6	161	45	3.37	19.
M352	1510	G.A. Same as 347		30	0.6	74	30	2.26	13
~~M353~~									
		Down to replace Bearing							

H-S 1-H

NATIONAL LEAD COMPANY OF OHIO
P.O. Box 158 Mt. Healthy Station
Cincinnati 31, Ohio

HEALTH AND SAFETY DIVISION

Industrial Hygiene No. 84
Sample Nos. M352 - 369

Type of Sample Conc Dust
Analyze for ~

Industrial Hygiene

Plant Mudart Collected by Davis
Date 11-5-52 Route To Heatherley
Remarks

Analytical Laboratory

Date Received 11-10-52 by D. L.
Method of Analysis L C. No. 1 by B.S.
Results Reported 11-26-52 by B.S.

Sample No	Hour	Sample Description	Sampling R	Sampling T	Sampling Q	Total Count	Count Time	Counts Min	Results d/m/M³
M353	0731	G.A. Before turning - Above dust coll. (off)	.02	30	.6	66	30	2.07	12
M354	0731	G.A. End of Mach. (Behind Run-in)		30	.6	14	55	.12	1.
M355	0855	P. over sump - Until Chips pile up		1.6	.032	102	7	14.44	1612.
M356	0855	P. over sump - After Chips pile up		2.0	.04	101	5	20.37	1819.
M357	0855	G.A. Run-in End of Mach.		5.5	.11	91	20	4.42	144.
M358	9:00	G.A. 4' above over dust Collector - 1 Rod		2.0	.04	104	1	103.87	9274.
M359	0900	P - Feed End of tool		2.5	.05	111	2	55.37	3955.
M360	0910	P - Exit " " "		5	.1	74	3	24.53	876.
M361	0925	GA Same as 358		5.5	.11	95	1	94.87	3080
M362		P " " 359		2.0	.04	103	4	25.45	2114
M363		P " " 360		3.0	.06	59	7	8.12	450.
M364	0935	G.A. On top of tool Cover		6.0	.12	127	5	25.1	695
M365		P. over sump		2.0	.04	70	25	2.5	208
M366		P. over sump		3.0	.06	86	3	28.53	1682.
M367	1125	P. over sump		2	.04	89	2	44.37	3962.
M368		G.A. over Tool Drive motor		2	.04	230	1	229.87	20515.
M369		G.A. Top of tool Lid		5	.1	128	1	127.87	4567.

Margin notes: Dust Collector off (M355–M360); Green - 159 BAGGED - 18°/HR; Dust coll. insufficient, Cover off (M364–M365); Dust coll. Has 3 accel. in bottom; Green - 108 BAGGED - 18°/HR; 18°/.

H-S 1-H

NATIONAL LEAD COMPANY OF OHIO

P.O. Box 158 Mt. Healthy Station
Cincinnati 31, Ohio

HEALTH AND SAFETY DIVISION

Industrial Hygiene No. 84
Sample Nos. M-320 - 386

Type of Sample: Air dust
Analyze for: [illegible]

Industrial Hygiene

Plant: Medart   Collected by: Davis
Date: 11-5-52   Route To: Weatherton
Remarks:

Analytical Laboratory

Date Received: 11-10-52 by P. L.
Method of Analysis: [illegible] by DL.
Results Reported: 11-25-52 by DL

Sample No	Hour	Sample Description	Sampling R	Sampling T	Sampling Q	Total Count	Count Time	Counts Min	Results d/m/M³
M320	1130	G.A. 4' Above Dust Collector	.02	6.5	.13	170	1	169.77	4457
M321	|	P- Entrance to tool	|	8.25	.165	113	2	56.27	116
M322	1135	G.A. Entrance to jaws 35' from tool	|	25	.5	80	5	15.77	107
M373	|	G.A. 5' from End of run out	|	25	.5	69	3	22.77	155
M374	1205	G.A. Same as 372	|	49	.98	80	5	15.77	56
M375	|	G.A. " " 373	|	49	.98	75	5	14.77	51
M376	1130	G.A. Top of tool Cover	|	4.75	.095	88	5	17.37	621
M377	1:30	P- over sump	|	4.25	.085	46	15	2.83	113
M378	|	P- over sump	|	2	.04	75	25	2.77	235
M379	1425	P- " "	|	2	.04	65	7	9.05	769
M380	|	G.A. 4' above #1 D.C. (Dust Coll.) No Bar cutting	|	5.5	.11	68	5	13.37	413
M381	1410	G.A. Above #1 Dust Coll. (on Lid) 15 min after cutting	|	14	.28	26	30	.60	7.
M382	|	G.A. On #2 D.C 15 min. after cut.	|	14	.28	17	30	.33	4.
M383	1430	P On #1 D.C. - over outlet while cutting	|	5	.10	59	7	8.19	278
M384	|	P " #2 DC - " "	|	5	.10	93	3	30.77	1046
M385	1445	G.A. - 10' from tool } Down for	|	30	.6	24	20	.97	5.
M386	|	G.A. - 30' " " } New head		50	.6	54	30	1.57	89.

Margin notes: Cutting for 1st 9 min (M372–M373); Two dust collectors (M374–M375); 81, 81, 104 (11) (81) (5); Alarm 4.2 % BKGD 14 c/HR

H-S 1-H

Industrial Hygiene No. 84

Sample Nos. M387-394

NATIONAL LEAD COMPANY OF OHIO
P.O. Box 158 Mt. Healthy Station
Cincinnati 31, Ohio

HEALTH AND SAFETY DIVISION

Type of Sample Air Dust

Analyze for α

Industrial Hygiene

Plant Hedart | Collected by Davis

Date 11-5-52 | Route To Healthcare

Remarks: Sparks still being thrown from Tool Head, but are much less than previous. Rubber Hose slit + fitted around Tool cover

Analytical Laboratory

Date Received 11-10-52 by D.I.

Method of Analysis Sc C. No 1 by B.S.

Results Reported 11-21-52 by B.S.

Sample No	Hour	Sample Description	Sampling R	Sampling T	Sampling Q	Total Count	Count Time	Counts Min	Results d/m/M³
M387	1600	P- over #1 D.C. outlet-cutting	.02	6	.12	136	2	67.9	1925
M388	|	P- " #2 DC " "	|	6	.12	116	6	19.2	544
M389	1610	P- Same as 387	|	6.4	.128	109	2	54.4	1446
M390	|	P- " " 388	|	6.4	.128	103	7	14.4	383
M391	1620	P- ~~Just above Sump~~ Runway-Level with chute Exit	|	3.0	.06	91	3	30.3	1712
M392	1630	P- Same as 391	|	3.0	.06	120	15	7.9	448
M393	|	G.A. 12" from Tool Head-near #1 D.C.	|	14	.28	75	34	2.2	27
M394	1645	P- over Pan overflowing with chips	|	1.8	.036	47	30	1.4	133
~~M395~~	|	~~G.A. Above Motor Pulley~~							
~~M396~~	|	~~G.A. Same As 395~~							
~~M396~~	|	~~G.A. On #1 D.C. - Not over outlet~~							
		Broke down Again							

(8)

BKGD. 4 CHR 6 CPM

H-S 1-H

Industrial Hygiene No. 84

Sample Nos. M395-399 M500 - M510

NATIONAL LEAD COMPANY OF OHIO
P.O. Box 158 Mt. Healthy Station
Cincinnati 31, Ohio

HEALTH AND SAFETY DIVISION

Type of Sample Air Dust
Analyze for α

Industrial Hygiene

Plant Mill Plant   Collected by Davis
Date 11-6-52   Route To Heatherton
Remarks all Samples taken on south side of machine.

Analytical Laboratory

Date Received 11-10-52 by D. S.
Method of Analysis Sc. C. No 1 by B.S.
Results Reported 11-25-52 by B.S.

Sample No	Hour	Sample Description	Sampling R	Sampling T	Sampling Q	Total Count	Count Time	Counts Min	Results d/m/M³
M395	1230	G.A. On Run in (6' W. of tool) not cutting	.020	34	0.68	21	30	.6	3.
M396		G.A. On Run out (6' E. of tool) " "		34	0.68	17	33	.26	1.
M397	1305	G.A. Same as 395		32	.64	12	30	.17	1
M398		G.A " " 396		32	.64	4	30	0	0.
M399	1545	G.A On Run in (6' W. of tool) cutting		4.3	.086	325	20	16.02	1654.
M500		P- By Jaw Grippers		3.2	.064	453	20	22.37	1248.
M501		P- By Entrance to tool Head		1	.02	189	15	12.37	2209.
M504	1645	G.A 25' from tool		6	.12	120	3	39.77	1184.
M502		P- Exit from tool (Exit Bearing)		3.0	.06	121	3	40.1	239
M503		P- ~~Mist from Exit bearing~~ same as 502 (pulled out)		3.0	.06	286	6	47.43	2823
M505	1625	G.A. Same as 504 - no turning		9.0	.18	279	6	51.57	1023
M506		G.A. 8' S. of tool		9.0	.18	98	3	32.43	643
M507	1640	GA- 10' Down runout		14	.28	106	1	105.77	1349
M508		G.A - 20' " " (Pulled out)		14	.28	80	1	79.77	1017
M509	1715	G.A - 30' " " Not Cutting		11.5	.23	128	2	63.77	990.
M510		G.A - 20' " " " "		11.5	.23	96	2	47.77	741.

Time elapsed before sampling starts: Head 1.15 min (Computation basis) — No Turning Since 11-5-52

Impossible to stop all sparks with present (chip pit fills up fast + higher than 11-5) 1520 rpm

BKGD - 64 HPD
Gross - 42%

(16)

Not enough water caused coolant to foam - no cooling - excessive dust. chip pulled (502-508)

H–S 1–H

NATIONAL LEAD COMPANY OF OHIO
P.O. Box 158 Mt. Healthy Station
Cincinnati 31, Ohio

HEALTH AND SAFETY DIVISION

Industrial Hygiene No. 184
Sample Nos. M511 - 526

Type of Sample Air Dust
Analyze for ∝

Industrial Hygiene

Plant Neolast — Collected by Davis
Date 11-6-52 — Route To Weatherton
Remarks 1300 Rpm (Sandblast)

Analytical Laboratory

Date Received 11-14-52 by D.E.
Method of Analysis Sc. C. No1 by W.S.
Results Reported 11-21-52 by W.S.

Sample No	Hour	Sample Description	Sampling R	Sampling T	Sampling Q	Total Count	Count Time	Counts Min	Results d/m/M³
M511	1730	G.A. 20' Down Kennard (Cutting)	.02	20	.4	139	1	138.9	1181.
M512	1730	G.A. 30' " " " "		20	.4	79	1	78.9	671.
M513	1855	G.A. 30 " " " Not "		20	.4	143	2	71.4	607.
M514	1	G.A. 40 " " " "		20	.4	83	1	82.9	705.
M515	1830	G.A. Top of tool cover (Cutting)		3.5	.07	106	1	105.9	5146.
M516	1	G.A. " " " "		3	.06	155	2	77.4	4388.
M517	1915	G.A. 5' South of tool - Not Cutting		20	.4	76	3	25.2	214.
M518	1	G.A. 10' NW. of " - " "		20	.4	126	3	41.9	356.
M520	2100	P- over Sump- Production (Cutting) Basis		30	.06	288	1	287.9	16321.
M520A	1	P- " " " " "		30	.06	377	1	377.9	20516.
M519	2030	G.A. Same Location as 518		13.5	.27	121	3	40.2	507.
M522	2040	G.A. Same as 519		30	.60	81	5	16.1	91.
M525	2110	G.A. 40' N. of Tool Cutting		30	.60	111	2	55.4	314.
M524	1	G.A. " " " " "		30	.60	146	3	48.5	276.
M526	2150	G.A. NE. Corner of Room Cutting 15 min 80		45	.90	179	3	89.4	338.
M526		G.A. " " " "		45	.90	305	3	101.5	383

H–S 1–H

NATIONAL LEAD COMPANY OF OHIO
P.O. Box 158 Mt. Healthy Station
Cincinnati 31, Ohio

HEALTH AND SAFETY DIVISION

Industrial Hygiene No. 84
Sample Nos. M527 - M542

Type of Sample Air Dust
Analyze for α

Industrial Hygiene

Plant Zircaloy Collected by Davis
Date 11-7-52 Route To Health Section
Remarks Higher feed rate (ifpm) 3 min/rod

Analytical Laboratory

Date Received 11-10-52 by DL.
Method of Analysis S.C. No. 1 by B.S.
Results Reported 11-21-52 by BS.

Sample No	Hour	Sample Description	Sampling R	Sampling T	Sampling Q	Total Count	Count Time	Counts Min	Results d/m/M³
M527	1330	Over Sump - While Cutting	.02	2	.04	336	1	335.84	28558.
M528	|	P " " " "		2	.04	218	1	217.84	18524.
M529	|	P " #1 D.C. outlet		4.5	.09	106	15	6.91	261.
M530	1340	P " #1 D.C. "		5.5	.11	127	15	8.3	257
M531	|	P " #2 D.C. "		5.0	.10	265	17	15.42	525.
M532	|	P " #2 D.C. "		5.0	.10	87	7	12.3	418
M533	1400	G.A 20' from tool - on Conv. Runin		30	.60	119	2	59.4	337.
M534	|	G.A. 10' " " - " " "		15	.30	81	15	5.9	67.
M535	1430	G.A Same as 533		15	.30	90	3	29.9	339
M536	|	G.A Same as 534		15	.30	102	3	33.9	384
M537	1450	G.A Same as 533		30	.60	75	1	74.9	425
M538	|	G.A Same as 534		30	.60	145	2	72.4	410
M539	1535	G.A Same as 533		30	.60	114	1	113.9	646
M540	|	G.A Same as 534		25	.50	97	1	96.9	659
M541	1610	G.A. 6' South of Tool (on control Panel)		9.3	.186	110	5	21.9	401
M542	|	P - Top of Tool shield		9.0	.18	509	2	254.4	4807.

(16)

[illegible handwritten margin notes]

H-S 1-H

Industrial Hygiene No. 84

Sample Nos. M543-M554

NATIONAL LEAD COMPANY OF OHIO
P.O. Box 158 Mt. Healthy Station
Cincinnati 31, Ohio

HEALTH AND SAFETY DIVISION

Type of Sample Air Dust

Analyze for α

Industrial Hygiene

Plant Mc Clark Collected by Dawes

Date 11-7-52 Route To Weatherton

Remarks

Analytical Laboratory

Date Received 11-10-52 by D. J.

Method of Analysis [illegible] by BS.

Results Reported 11-21-52 by BS

Sample No	Hour	Sample Description	Sampling R	Sampling T	Sampling Q	Total Count	Count Time	Counts Min	Results d/m/M³
M543	1630	G.A Same as 541 | Not Cutting (Just shut down)	.02	30	.6	108	2	53.84	305.
M544	|	G.A " " " | " "	|	30	.6	85	2	47.34	268.
M545	1725	G.A " Cutting		31	.62	82	2	40.84	224.
M546	|	G.A " " " "		31	.62	48	20	2.24	12.
M547	1825	G.A 25' South of Tool Cutting		30.5	.61	84	3	27.84	155.
M548	|	G.A. 25' " | " "		30.5	.61	120	3	39.84	222
M549	1900	G.A Same as 547 | Not Cutting		34.1	.682	104	5	20.64	103
M550	|	G.A. " " " |		34.1	.682	106	5	21.04	105
M551	2000	G.A 50' South of tool - 3 Bars out + Then it		30	.6	47	7	6.55	37.
M552	|	G.A. " " " " broke down		30	.6	127	15	8.3	47
M553	2045	G.A S.E. Corner - Cutting (80 ft)		30	.6	111	20	5.39	31
M554		G.A " " " "		30	.6	101	15	6.57	37

Between 546 + 547 improvised two more temporary screens on the unit which would be permanently hooked up in the machine

(5)

Gross α 43.6
Entered 10/1/1112

H-S 1-H

NATIONAL LEAD COMPANY OF OHIO
P.O. Box 158 Mt. Healthy Station
Cincinnati 31, Ohio

HEALTH AND SAFETY DIVISION

Industrial Hygiene No. 84
Sample Nos. M555 - 562

Type of Sample Air Dust
Analyze for α

Industrial Hygiene

Plant [illegible] Collected by [illegible]
Date 11-8-52 Route To [illegible]
Remarks

Analytical Laboratory

Date Received 11-10-52 by D. L.
Method of Analysis [illegible] by BS
Results Reported 11-19-52 by DL + BS

Sample No	Hour	Sample Description	Sampling R	Sampling T	Sampling Q	Total Count	Count Time	Counts Min	Results d/m/M³
M555	1125	G.A. 50' SW. of tool - NOT cutting (stopped at 1120)	.02	30	.6	98	7	13.87	78
M556	"	G.A. " " "	"	30	.6	101	7	14.15	80
M557	1200	G.A. Same as 556		24.5	.49	121	15	7.93	55
M558	"	G.A. " " 556		24.5	.49	94	10	9.27	64
M559	1235	G.A. 50' South of Tool - Not cutting		30	.6	85	5	16.77	95
M560	"	G.A. " " " " "		30	.6	114	5	22.07	125
M561	1310	G.A. " " " " cutting		27	.54	100	5	19.77	124
M562	"	G.A. " " " " "		27	.54	99	5	19.57	123

11-18 Comm. ... & Co. No. 1 ②
CHECKED ... 11-18
11-19 ... CHECKED