COPY TO: N. L. Isenhour
Safety
File ✓

INDUSTRIA HYGIENE
AIR SAMPLING REPORT

NUMBER 12
Routine X
Special
Requested by
Date 1-18-61

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	12-28-60	Mer-Vac Cleaner USA-C&CCC 229102 *				
		At exhaust port	1330	Mercury	0.00 mg/m3	Motor off.
		One foot from exhaust port	1332		0.00 mg/m3	
		Head level	1333		0.00 mg/m3	
		At exhaust port	1335		0.01 mg/m3	Motor on.
		One foot from exhaust port	1336		0.00 mg/m3	
		Head level	1337		0.00 mg/m3	
		* This machine is fit for continued use.				
		Pneumatic area	1338 - 1342		0.00 mg/m3	
		Room 17	1343 - 1345		0.00 mg/m3	
		Room 20	1346 - 1347		0.00 mg/m3	

This document has been approved for release to the public by: [signature] Technical Information Officer Oak Ridge K-25 Site 4/23/95 Date

ISSUED BY: D. L. Stoddard

WCX-2512 (9-55) K-25 RC Medical Department

ChemRisk Document No. 1571

COPY TO: H. L. Isenhour
Safety
File ✓

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 515
Routine X
Special
Requested by
Date 11-8-60

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	11-3-60	Mer-Vac Cleaner USA-CMCCC No. 229102 *				
		By exhaust port	1525	Mercury	0.03 mg/m3	Motor off.
		One foot from port	1526		0.00 mg/m3	
		Head level	1527		0.00 mg/m3	
		By exhaust port	1528		0.02 mg/m3	Motor on.
		One foot from port	1529		0.01 mg/m3	
		Head level	1530		0.00 mg/m3	
		* This device is fit for continued use.				
		Pneumatic Area	1535		0.00 mg/m3	
		Room 17	1539		0.00 mg/m3	
		Room 20	1541		0.00 mg/m3	

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stoddard

COPY TO: H. L. Isenhour
Safety
File ✓

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 505 X
Routine
Special
Requested by
Date 10-27-60

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	10-13-60	Pneumatic Area	1131	Mercury	0.00 mg/m3	
		Room 17	1138		0.00 mg/m3	
		Room 20	1140		0.00 mg/m3	

ISSUED BY: D. E. Stoddard

COPY TO: M. L. Isenhour
Safety
File ✓

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 491
Routine X
Special
Requested by
Date 10-24-60

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	10-13-60	Mer-Vac Cleaner * UCNC-229102				
		At exhaust port	1120	Mercury	0.01 mg/m3	Motor off.
		Head level	1122		0.00 mg/m3	
		At exhaust port	1125		0.02 mg/m3	Motor on.
		One foot from exhaust port	1127		0.01 mg/m3	
		Head level	1129		0.00 mg/m3	
		* This cleaner is fit for continued use.				

WCX-2512(9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stoddard

COPY TO. N. I. Isenhour
Safety
File ✓

INDUSTRIA HYGIENE
AIR SAMPLING REPORT

NUMBER 450
Routine X
Special
Requested by
Date 10-10-60

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	9-26-60	Mer-Vac Cleaner USA-UCNC No. 229102				
		At exhaust port	1048 -	Mercury	0.01 mg/m3	Motor off.
		One foot from exhaust port			0.00 mg/m3	
		Head level			0.00 mg/m3	
		At exhaust port			0.02 mg/m3	Motor on.
		One foot from exhaust port			0.00 mg/m3	
		Head level	- 1058		0.00 mg/m3	
		Room 17	1100		0.00 mg/m3	
		Pneumatic Area	1105		0.00 mg/m3	
		Room 20	1110		0.00 mg/m3	

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: W. L. Stoddard

COPY TO: N. L. Isenhour
Safety
File ✓

INDUSTRIAL HYGIENE
AIR SAMPLING REPORT

NUMBER 394
Routine X
Special
Requested by
Date 8-23-60

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	8-17-60	Mer-Vac Cleaner No. 229102				
		By exhaust port	1135	Mercury	0.00 mg/m3	Motor off.
		One foot from exhaust port	1136		0.00 mg/m3	
		Head level	1137		0.00 mg/m3	
		By exhaust port	1138		0.02 mg/m3	Motor on.
		One foot from exhaust port	1139		0.02 mg/m3	
		Head level	1140		0.01 mg/m3	
		Room 17	1150		0.00 mg/m3	
		Pneumatic Area	1153		0.00 mg/m3	
		Room 20	1157		0.00 mg/m3	
		By container	1159	Acetone	0 ppm	
		By container	1202	Isopropyl Alcohol	0 ppm	

ISSUED BY: O. L. Stoddard

COPY TO: N. L. Isenhour
N. N. Landay
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 326
Routine X
Special
Requested by
Date 7-12-60

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	7-1-60	Tool Room Ner-Vac Cleaner USA-UCNC No. 229102				
		At exhaust port	1540 -	Mercury	0.00 mg/m3	Motor off.
		One foot from port			0.00 mg/m3	
		Head level			0.00 mg/m3	
		At exhaust port			0.04 mg/m3	Motor on.
		One foot from port			0.02 mg/m3	
		Head level	- 1550		0.00 mg/m3	
		Pneumatic Area Table No. 5	1555		0.02 mg/m3	
		Room 17	1559		0.00 mg/m3	
		Room 20	1605		0.00 mg/m3	
		By acetone container	1607	Acetone	0.00 ppm	Container covered.
		By alcohol container	1610	Isopropyl Alcohol	0.00 ppm	

ISSUED BY: O. L. Stoddard

COPY TO: H. L. Isenhour
H. H. Landay
Safety
File

INDUSTRIAL HYGIENE
AIR SAMPLING REPORT

NUMBER 294
Routine X
Special
Requested by
Date 6-27-60

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	6-10-60	Mar-Vac Cleaner USA UCNC No. 229102				
		At exhaust port	1035	Mercury	0.00 mg/m3	Motor off.
		Head level	1036		0.00 mg/m3	
		At exhaust port	1037		0.00 mg/m3	Motor on.
		Head level	1039	-	0.00 mg/m3	
		Pneumatic Area Table No. 5	1045 - 1050		0.01 mg/m3	
		Room 17	1051 - 1056		0.00 mg/m3	
		Room 20 Table, middle of room	1056 - 1059		0.01 mg/m3	
		By container	1059 - 1100	Isopropyl Alcohol	0.00 ppm	Container was covered.
			1100 - 1102	Acetone	0.00 ppm	

WCX-2512 (9-55) K-25 RC Medical Department

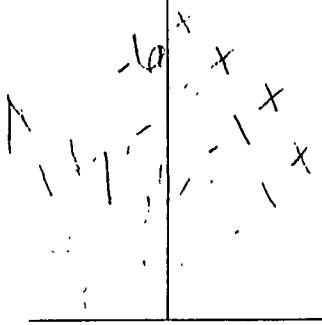
ISSUED BY: D. L. Stoddard

COPY TO: B. H. Thompson
N. H. Landay
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 211
Routine X
Special
Requested by
Date 5-11-60

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1028	5-3-60	Ner-Vac Cleaner [illegible] - 229102				
		By exhaust port	1555	Mercury	0.00 mg/m3	Motor off.
		One foot from exhaust port	1556		0.00 mg/m3	
		Head level	1557		0.00 mg/m3	
		By exhaust port	1558		0.03 mg/m3	Motor on.
		One foot from exhaust port	1559		0.02 mg/m3	
		Head level	1600		0.01 mg/m3	
		Pneumatic Area	1600		0.00 mg/m3	
		Room 17	1605		0.00 mg/m3	
		Room 20	1610		0.00 mg/m3	
			1612	Isopropyl Alcohol	0.0 ppm	
			1615	Acetone	0.0 ppm	



ISSUED BY: O. L. Stoddard

COPY TO: B. H. Thompson
H. N. Landay
Safety
✓ File

INDUSTRIAL HYGIENE
AIR SAMPLING REPORT

NUMBER 192
Routine X
Special
Requested by
Date 5-3-60

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
F-1074	4-19-60	Room 17	1510	Mercury	0.00 mg/m3	
		Pneumatic Area Table No. 5	1515		0.00 mg/m3	Droplets of mercury on table.
		Room 20	1520		0.00 mg/m3	
		By alcohol bath	1522	Isopropyl Alcohol	0 ppm	Container closed.
		By acetone bath	1525	Acetone	0 ppm	
		MerVac Cleaner [illegible], C-[illegible] No. 2[illegible]9102				
		Exhaust port	1540	Mercury	0.02 mg/m3	Motor off.
		One foot from exhaust port	1541		0.00 mg/m3	
		Head level	1542		0.00 mg/m3	
		Exhaust port	1543		0.02 mg/m3	Motor on.
		One foot from exhaust port	1544		0.01 mg/m3	
		Head level	1545		0.01 mg/m3	

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stoddard

COPY TO. B. H. Thompson
H. N. Landay
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 154
Routine X
Special
Requested by
Date 4-4-60

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	3-24-60	Mer-Vac Cleaner USA-GECCC No. 229102*				
		At exhaust port	1100	Mercury	0.01mg/m3	Motor off.
		One foot from exhaust port	1102		0.00mg/m3	
		Head level	1104		0.00mg/m3	
		At exhaust port	1106		0.01mg/m3	Motor on.
		One foot from exhaust port	1107		0.01mg/m3	
		Head level	1109		0.01mg/m3	
		* This machine is fit for continued use.				
		Room 20 By storage shelf	1120		0.00mg/m3	
		By tank	1125	Acetone	0ppm	Container closed.
			1129	Isopropyl Alcohol	0ppm	
		Room 17	1133	Mercury	0.00mg/m3	
		Pneumatic Area By table No. 5	1137		0.00mg/m3	Few droplets of mercury on table.

ISSUED BY: O. K. Studdard

PY TO: B. H. Thompson
N. E. Landay
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 83
Routine X
Special
Requested by
Date 2-29-60

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	2-17-60	Her-Vac Cleaner USA-C-CCC 229102				
		At exhaust port	1530	Mercury	0.02mg/m3	Motor Off
		Head level	1531		0.00mg/m3	
		At exhaust port	1532		0.01mg/m3	Motor On
		One foot from exhaust port	1533		0.01mg/m3	
		Head level	1535		0.02mg/m3	

11 pcs 5

WCX-2512(9-55) K-25 RC Medical Department

ISSUED BY: O. L. Stoddard

COPY T

B. H. Thompson
N. N. Landay
Safety
File

INDUSTRIAL HYGIENE
AIR SAMPLING REPORT

NUMBER 76
Routine X
Special
Requested by
Date 2-26-60

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1064	2-17-60	Pneumatic Area	1540	Mercury	0.00mg/m3	
		Room 17	1550		0.00mg/m3	
		Room 20	1555		0.00mg/m3	
			1600	Acetone	0ppm	Container closed
			1605	Isopropyl Alcohol	0ppm	

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: O. L. Stoddard

COPY TO:
B. H. Thompson
H. N. Landay
Safety
File

INDUSTRIAL HYGIENE
AIR SAMPLING REPORT

NUMBER 16
Routine X
Special
Requested by
Date 1-29-60

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	1-5-60	Mer-Vac Cleaner, USA, C & CCC No. 229102				
		At exhaust port	1434	Mercury	0.01mg/m3	Motor off.
		Head level	1438		0.00mg/m3	
		At exhaust port	1441		0.02mg/m3	Motor on.
		One foot from exhaust port	1445		0.01mg/m3	
		Head level	1447		0.00mg/m3	

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stoddard

COPY TO

H. Thompson
N. H. Landay
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 17
Routine X
Special
Requested by
Date 2-23-60

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	1-5-60	Room 20				
		By storage shelf	1520	Mercury	0.00mg/m3	Bottles of mercury on shelf with top off.
		By container	1530	Acetone	220ppm	Employee dipped glass bulb into solution.
		By container	1535	Isopropyl Alcohol	210ppm	
		Room 17	1500	Mercury	0.00mg/m3	
		Pneumatic area	1510		0.00mg/m3	
		Stock room by column F-10	1455		0.00mg/m3	Nar-Vac cleaner storage spa a number of droplets on flo

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: O. L. Stoddard

COPY TO: B. H. Thompson
H. N. Landay
Safety
File

INDUSTRIAL HYGIENE
AIR SAMPLING REPORT

NUMBER 581
Routine X
Special
Requested by
Date 12-17-59

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	12-10-59	Pneumatic Area	0935	Mercury	0.00mg/m3	
		Room 17	0945		0.00mg/m3	
		Room 20	0958		0.00mg/m3	
		Tool Room Mer-Vac Cleaner USA C&CCC No. 229102				
		At exhaust port	1000		0.00mg/m3	Motor off.
		One foot from exhaust port	1001		0.00mg/m3	"
		Head level	1002		0.00mg/m3	"
		At exhaust port	1005		0.01mg/m3	Motor on.
		One foot from exhaust port	1006		0.00mg/m3	"
		Head level	1008		0.00mg/m3	"

Hg - 31
6

WCX-2512(9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stoddard

COPY TO

J. A. Marshall
H. H. Landay
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 502
Routine X
Special
Requested by
Date 10-29-59

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	10-26-59	Ner Vac Cleaner USA C[illegible] 229102				
		At exhaust port	1505	Mercury	0.03mg/m^3	Motor off.
		Head level	1507		0.00mg/m^3	
		At exhaust port	1510		0.05mg/m^3	Motor on.
		Head level	1512		0.03mg/m^3	
		One foot from exhaust port	1515		0.05mg/m^3	

Hg

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: O. L. Stoddard

COPY TO:

J. A. Marshall
H. H. Landay
Safety
File

INDUSTRIAL HYGIENE
AIR SAMPLING REPORT

NUMBER 485
Routine X
Special
Requested by
Date 10-21-59

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	10-21-59	Pneumatic area	1545	Mercury	0.00mg/m^3	
		Room 17	1550		0.00mg/m^3	Employee was using vacuum system to pick up droplets of Mercury.
		Room 20	1555		0.00mg/m^3	

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stoddard

COPY TO [illegible]. A. [illegible]arshall
[illegible]. N. Landay
Safety
File

INDUSTRI[illegible] HYGIENE
AIR SAMPLING REPORT

NUMBER 383
Routine X
Special
Requested by
Date 9-9-59

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
[illegible]	8-6-59	[illegible] 20 [illegible]y degreaser	14[illegible] - 1530	Perchlorethylene	0x0/30*	Degreaser cold, covered and not in use;
		Room 20	141[illegible]	Mercury	0.00mg/m3	
		[illegible]y acetone bath	1510	Acetone	0 ppm	Tank Covered.
		[illegible]y alcohol bath	1[illegible]15	Isopropanol	0 ppm	" "
		[illegible]y cleaning hood	1530	Nitrogen Dioxide	0 ppm	No cleaning.
		[illegible] Area	1420	Mercury	0.00mg/m3	
		Room 17	1430		0.00mg/m3	
	[illegible]-59	Mer-Vac Cleaner U[illegible]A [illegible] No. 229102 At exhaust port	14[illegible]0	Mercury	0.02mg/m3	Motor off.
		Head level	1403		0.00mg/m3	" "
		At exhaust port	14[illegible]6		0.05mg/m3	Motor on.
		Head level	1410		0.02mg/m3	" "

This machine is fit for continued use.

*The concentration did not exceed 2[illegible] ppm during the 30 minutes of sampling.

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stoddard

COPY TO: J. A. Marshall
N. H. Landay
Safety
File

INDUSTRIAL HYGIENE
AIR SAMPLING REPORT

NUMBER 354
Routine X
Special
Requested by
Date 8-4-59

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
[illegible]	[illegible]-21-59	[illegible] 20				
		[illegible] degreaser	113[illegible] -	Perchlorethylene	0x0/210	
			- 1500			Degreaser was never opened during sampling.
		[illegible] hood	1400	Nitrogen Dioxide	0 ppm	No cleaning.
		By Isopropanol [illegible]	1440	Isopropanol	220 ppm	By employee cleaning glassware in can.

1-

H [illegible]

1-

1-

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stoddard

COPY TO: [illegible] A. Marshall
[illegible] Landay
[illegible]
✓File

INDUSTRIAL HYGIENE
AIR SAMPLING REPORT

NUMBER 323
Routine X
Special
Requested by
Date 7-24-59

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
[illegible]	[illegible]	[illegible]	[illegible]	Mercury	0.[illegible]mg/m3	
		[illegible]	[illegible]		[illegible]/m3	
		[illegible]	[illegible]		0.[illegible]/m3	
		[illegible] Cleaner [illegible]				
		At exhaust [illegible]	[illegible]		0.[illegible]/m3	Motor was off.
		[illegible]	[illegible]		0.00mg/m3	"
		[illegible] Level	[illegible]		0.00mg/m3	"
		[illegible]	[illegible]		0.[illegible]/m3	Motor on.
		[illegible]	[illegible]		[illegible]/m3	"
		[illegible] Level	[illegible]		0.[illegible]mg/m3	"

H, 9 —

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stoddard

COPY TO: [illegible]

INDUSTRIAL HYGIENE
AIR SAMPLING REPORT

NUMBER 286
Routine X
Special
Requested by
Date 8-22-59

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
[illegible]	[illegible]	[illegible]				
		At exhaust port, motor off	15[illegible]	Mercury	[illegible]mg/m3	
		Head level, motor off	1[illegible]		[illegible]mg/m3	
		At exhaust port, motor on	[illegible]		[illegible]mg/m3	
		Head level, motor on	15[illegible]		[illegible]mg/m3	

This [illegible] is fit for continued use.

[illegible]

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: O. L. Stobbs

COPY TO: A. Marshall
L. H. Lemley
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 292
Routine X
Special
Requested by
Date 6-22-59

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
[illegible]	[illegible]	[illegible] Area	[illegible]	[illegible]	[illegible] mg/m3	
		Room 17	1525		[illegible] mg/m3	
		Room 20	[illegible]		[illegible] mg/m3	

[illegible]

ISSUED BY: O. L. Stoddard

COPY TO: J. A. Marshall
N. N. Landay
Safety
✓File

INDUSTRIAL HYGIENE
AIR SAMPLING REPORT

NUMBER 209
Routine X
Special
Requested by
Date 5-15-59

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
[illegible]	[illegible]	[illegible] Cleaner [illegible]				
		[illegible] exhaust port	[illegible]	[illegible]	[illegible] mg/m3	Motor off.
		Head level	1343		[illegible] mg/m3	"
		At exhaust port	1355		[illegible] mg/m3	Motor on.
		Head level	1359		0.06mg/m3	"
		[illegible] area	[illegible]		[illegible] mg/m3	
		Room 17	[illegible]		[illegible] mg/m3	
		Room 20	1410		[illegible] mg/m3	
		*This machine is [illegible] continued use.				

WCX-2512 (9-55) 5 RC Medical Department

ISSUED BY: D. L. Stoddard

COPY TO: A. Marshall
[illegible]. W. Lenday
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 203
Routine I
Special
Requested by
Date 5-6-59

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
[illegible]	[illegible]	[illegible] Area	0910	Mercury	0.00mg/m3	
		Room 17	0910		0.00mg/m3	
		Room 20	0915		0.00mg/m3	

H-1

ISSUED BY: D. L. Stoddard

COPY TO: J. A. Marshall
H. N. Landay
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 97
Routine X
Special
Requested by
Date 3-11-59

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	3-3-59	Mer-Vac Cleaner USA C&CC #229102				
		Exhaust port, motor off	0950	Mercury	0.02mg/m^3	
		Exhaust port, motor on	0952		0.2hmg/m^3	
		Head level, motor on	0954		0.09mg/m^3	
		This machine is fit for continued use.				

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stoddard

COPY TO: A. Marshall
W. N. Landay
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 98
Routine X
Special
Requested by
Date 3-11-59

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	3-3-59	Room #17	0925	Mercury	0.00mg/m^3	
		Pneumatic Area	0935		0.00mg/m^3	
		Room #20	0945		0.00mg/m^3	Few droplets of mercury on storage shelves.

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: W. L. Stoddard

COPY TO: File

INDUSTRIAL HYGIENE
AIR SAMPLING REPORT

NUMBER 112
Routine
Special X
Requested by L. C. Patrick
Date 3-18-59

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1'2h	2-1'-59	South Side of Acid Cleaning Room OPERATIONAL	1100 - 1h10	Perchlorethylene	9 x 37/190	By perchlorethylene degreaser tank.

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: D. L. S.

COPY TO: A. Marshall
W. Landay
Safety
Files

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 10
Routine X
Special
Requested by
Date 1-20-59

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
[illegible]	1-13-59	[illegible] Vac Cleaner No. [illegible]				
		[illegible]	1124	[illegible]	0.01mg/m3	Motor off.
		Six inches from exhaust port	1127		0.00mg/m3	"
		Head level	1128		[illegible] mg/m3	"
			1130		0.05mg/m3	Motor on.
		Six inches from exhaust port	1131		0.05mg/m3	"
		At exhaust port	1132		0.05mg/m3	"

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stoddard

COPY TO: E. C. Bollinger
[illegible] Landay
Safety
File

INDUSTRIAL HYGIENE
AIR SAMPLING REPORT

NUMBER 42
Routine X
Special
Requested by
Date 1-30-59

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	1-13-59	Room 20 Ky degreaser	13[illegible] -	Perchloroethylene		Heat on. Hoods on north side of room in operation, door to outside open, window above degreaser open.
			-13[illegible]3-			Window closed.
			-1312-			Door to outside closed.
			-13[illegible]0-			Hoods shut off.
			-1323-			Spraying in degreaser.
			-1330-			Degreaser cooling.
			- 1400			
		Pneumatic Area	1059	Mercury	0.00mg/m^3	
		Room 1[illegible]	10[illegible]		0.00mg/m^3	
		Room 20	1110		0.00mg/m^3	
		Operational Sample				

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stoddard

COPY TO: [illegible] Marshall
[illegible] Handay
Safety
File

INDUSTRIA HYGIENE
AIR SAMPLING REPORT

NUMBER 433
Routine X
Special
Requested by
Date 12-18-58

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
[illegible]	12-[illegible]	Room [illegible]17	1[illegible]	Mercury	0.00mg/m3	
		Pneumatic Area	1025		0.00mg/m3	
		Room [illegible]20 Mercury storage cabinet	1035		0.00mg/m3	Few droplets of mercury on shelves.
		Northeast corner	1040		0.01mg/m3	Large quantity of mercury in sink.
		Mer-Vac Cleaner, [illegible] 229102 At exhaust port, motor off	1[illegible]0		0.00mg/m3	
		At exhaust port, motor on	1052		0.11mg/m3	
		Three feet from cleaner	1055		0.01mg/m3	

This Cleaner is in condition for continued use.

Hg 4-
3-

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stoddard

COPY TO: J. A. Marshall
N. N. Landay
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 425
Routine X
Special
Requested by
Date 12-17-58

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1028	11-19-58	Pneumatic Area	1350	Mercury	0.00mg/m3	
		Room No. 17	1355		0.00mg/m3	
		Room No. 20	1400		0.00mg/m3	Droplets of Mercury around bottles of Mercury stored in shelf.

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stoddard

COPY TO: , A. Marshall
. N. Landay
Safety
File

INDUSTRIA HYGIENE
AIR SAMPLING REPORT

NUMBER 365
Routine X
Special
Requested by
Date 11-6-58

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1 [illegible]	1[illegible]-11-58	rcury Vacuum Cl[illegible]ner [illegible]A [illegible] 229[illegible]				
		At exhaust port	1515	Mercury	0.00mg/m^3	Motor off.
			1517		0.38mg/m^3	Motor on.
		Six inches from exhaust port	151[illegible]		0.18mg/m^3	"
		Head level	1519		0.06mg/m^3	"
		Room 20 By Mercury Storage Shelf	1522		0.00mg/m^3	
		By cleaning hood		Nitrogen Dioxide	0ppm	
		Room 17		Mercury	0.00mg/m^3	
		Pneumatic Area			0.00mg/m^3	

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stoddard

COPY TO: J. A. Marshall
N. N. Landay
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 313
Routine X
Special
Requested by
Date 9-18-58

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
[illegible]	[illegible]	Mercury Vacuum Pump (MA [illegible])				
		Exhaust port	1520	Mercury	0.0[illegible]mg/m^3	Motor off.
		Head level	1525		0.00mg/m^3	"
		Exhaust port	1530		0.14mg/m^3	Motor on.
		6 in. from exhaust port	1535		0.1[illegible]mg/m^3	"
		Head level	1540		0.02mg/m^3	"

This machine should be rechecked after several more hours of use.

5

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stoddard

COPY TO: L. Marshall
W. Landay
Safety
File

INDUSTRIA HYGIENE AIR SAMPLING REPORT

NUMBER 317
Routine X
Special
Requested by
Date 9-18-58

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K	9-	In [illegible]	15[illegible]	Mercury	0.0[illegible]mg/m3	
		Room 17	1510		0.0mg/m3	

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: O. L. Stoddard

COPY TO: J. A. Marshall
N. N. Landay
Safety
File

INDUSTRIAL HYGIENE
AIR SAMPLING REPORT

NUMBER 203
Routine X
Special
Requested by
Date 6-19-58

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
[illegible]	-4-58	Pneumatic area	1515	Mercury	0.00mg/m3	
		Room 717				
		By table east side of room	1517		0.00mg/m3	
		By barometers on west side of room	1520		0.00mg/m3	
	6-6-58	*Mercury Vacuum Cleaner [illegible] 229102				
		At exhaust port	1445		0.05mg/m3	Motor off.
		Head level	1447		0.00mg/m3	"
		At exhaust port	1449		0.48mg/m3	Motor on.
		One ft. from exhaust port	1455		0.06mg/m3	"
		Head Level	1457		0.04mg/m3	"

*This cleaner is fit for continued use.

5

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stoddard

COPY TO: A. Marshall
N. N. Landay
Safety
File

INDUSTRIAL HYGIENE
AIR SAMPLING REPORT

NUMBER 170
Routine X
Special
Requested by
Date 5-13-58

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
[illegible]	5-[illegible]-58	Permeable Area	1100	Mercury	0.00mg/m3	By tables with floating scale manometers.
		Room 17 East side	1110		0.00mg/m3	" "
		Room 20	1115		0.00mg/m3	
		*Mercury Vacuum Cleaner (SA C&CCC 229102 At exhaust port	1120		0.00mg/m3	Motor off.
			1122		0.00mg/m3	Motor on.
		Six inches from exhaust port	1123		0.05mg/m3	"
		Head Level	1125		0.01mg/m3	"
		*This vacuum cleaner is fit for continued use.				

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: O. L. Stoddard

COPY TO: J. A. Marshall
K. K. Landay
Safety
File

INDUSTRIAL HYGIENE
AIR SAMPLING REPORT

NUMBER 123
Routine X
Special
Requested by
Date 4-17-58

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	4-7-58	Room 17				
		East side of room	1335	Mercury	0.00mg/m^3	Floating scale manometer on table.
		West side of room	1340		0.00mg/m^3	By barometers.
		Pneumatic section	1345		0.00mg/m^3	Floating scale manometer on table.

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: W. L. Stastal

COPY TO: A. Marshall
H. H. Landay
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 106
Routine X
Special
Requested by
Date 4-15-58

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	4-3-58	Mercury Vacuum Cleaner USA CP-CC 229102				
		At exhaust port	1125	Mercury	0.02mg/m^3	Motor off.
		12" from exhaust port	1129		0.00mg/m^3	" "
		At exhaust port	1132		0.10mg/m^3	Motor on.
		12" from exhaust port	1137		0.00mg/m^3	" "

This machine is fit for continued use.

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stadland

COPY TO: J. A. Marshall
L. F. Lieber
Safety
File

INDUSTRIAL HYGIENE
AIR SAMPLING REPORT

NUMBER 13
1
Routine
Special
Requested by
Date 1-24-58

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	1-9-58	Mercury Vacuum Cleaner UEA C&CC No. 229102				
		At exhaust port	1530	Mercury	0.08mg/m^3	Motor off.
		One foot from exhaust port	1535		0.04mg/m^3	"
		Head level	1537		0.00mg/m^3	"
		Six inches from exhaust port	1540		0.30mg/m^3	Motor on.
		One foot from exhaust port	1545		0.20mg/m^3	"
		Head level	1547		0.02mg/m^3	"
		By tables, Northwest corner of shop	1600		0.00mg/m^3	
		Room #2				
		Mercury storage bin	1605		0.05mg/m^3	Droplets of Mercury in bin.

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: O. L. Staddard

COPY TO: J. A. Marshall
L. F. Lieber
Safety
File ✓

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 345
Routine X
Special
Requested by
Date 11-20-57

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	11-18-57	Mer-Vac Cleaner USA C&CCC 229102*				
		At exhaust port	1130 -	Mercury	1.6 $\mu g/m^3$	Mer-Vac Cleaner running.
		3 ft. from exhaust port			0.0 $\mu g/m^3$	
		At exhaust port			0.90 mg/m^3	Mer-Vac Cleaner off.
		Room 17 NW corner			0.00 mg/m^3	By floating scale manometers.
		Room 20 By mercury storage bin	- 1200		0.00 mg/m^3	Mercury droplets on shelf around bottles.

* This machine should be checked again before any additional use.

2 0

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: O. L. Stoddard

COPY TO: J. A. Marshall
H. H. Landay
Safety
File ✓

INDUSTRIAL HYGIENE
AIR SAMPLING REPORT

NUMBER 258
Routine X
Special
Requested by
Date 9-18-57

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	9-12-57	Mer-Vac Cleaner USA C&CCC No. 229102*				
		At exhaust port	0930	Mercury	0.60mg/m^3 ✓	
		Three ft. from exhaust port	0945		0.06mg/m^3	

* This cleaner should be rechecked after some additional use.

WCX-2512(9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stoddard

COPY TO . A. Marshall
H. H. Lindsay
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 303
Routine I
Special
Requested by
Date 8-13-57

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	8-1-57	Mer-Vac Cleaner USA C&CCC #229102				
		Near exhaust port	1135 -	Mercury	0.10mg/m3	
		Head level	1137		0.00mg/m3	

Hg 1-1

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stoddard

COPY TO: J. A. Marshall
L. F. Lieber
Safety
File

INDUSTRIAL HYGIENE
AIR SAMPLING REPORT

NUMBER 151
Routine X
Special
Requested by
Date 6-21-57

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	6-13-57	USA, C&CCC 229102 Mer-Vac Cleaner				
		Six in. from exhaust	1415-	Mercury	73.1mg/m3	
		Four ft. from exhaust			2.1mg/m3	
		Six ft. from exhaust	-1430		0.6mg/m3	
		This machine should be cleaned up and recharged.				

(1-3)

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stoddard

COPY TO . A. Marshall
L. F. Lieber
Safety
File

INDUSTRIA HYGIENE
AIR SAMPLING REPORT

NUMBER 130
Routine X
Special
Requested by
Date 6-4-57

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	5-20-57	Mor Vac Cleaner No. 229102, 3 ft. from exhaust	1510	Mercury	.08mg/m^3	

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stoddard

COPY TO: J. A. Marshall
R. H. Landay
Safety
✓File

INDUSTRIAL HYGIENE
AIR SAMPLING REPORT

NUMBER 443
Routine X
Special
Requested by
Date 12-3-56

4 + ch

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	11-14-56	Mer-Vac. cleaner-USA-29000 22102				This instrument is fit for continued use.
		At point of exhaust	1340	Mercury	0.02 mg/m^3	
		Six inches from exhaust			0.00 mg/m^3	
		Three ft. from exhaust			0.00 mg/m^3	
		End of hose intake	1350		0.04 mg/m^3	

WCX-2512(9-55) K-25 RC Medical Department

ISSUED BY: _____

COPY TO: J. A. Marshall
N. M. Landay
Safety
File ✓

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 429
Routine X
Special
Requested by
Date 11-2-56

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	10-10-56	Mer-Vac. No.229102, 3 ft. from exhaust	1030	Mercury	.06mg/m³	
		Point of exhaust	1031		.10mg/m³	
		Right shoe outside	1035		.15mg/m³	
		Left shoe outside	1036		.11mg/m³	
		Right shoe inside	1037		.40*	
		Left shoe inside	1038		.13*	
		Pneumatic Section By room 17	1043		.04	After cleanup of spill which occurred 45 min. before

* These shoes should be aerated with a stream of warm dry air and rechecked.

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: O. L. Stoddard

COPY TO: J. A. Marshall
N. Landay
Safety
File /

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 416
Routine X
Special
Requested by
Date 10-26-56

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	9-27-56	K-1024 Mer-vac cleaner #229102 Point of exhaust	1450	Mercury	0.02mg/m^3	
		Six in. from exhaust			0.00mg/m^3	
		End of vacuum hose	1500		0.06mg/m^3	

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stoddard

COPY TO: A. Marshall
N. Landay
Safety
File

INDUSTRIAL HYGIENE
AIR SAMPLING REPORT

NUMBER 299
Routine I
Special
Requested by
Date 6-11-56

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
K-1024	6-5-56	Mer-Vac Cleaner #229102. 3 ft. from exhaust.	1300	Mercury	0.00mg/m^3	In good condition.
		At point of exhaust.	1302		0.06mg/m^3	—

not reported in total - included in foot note.

ISSUED BY: D. L. Stoddard

COPY TO: E. C. Bollinger
N. Landay
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 172
Routine I
Special
Requested by
Date 4-1-56

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
[illegible]-1024	3-21-56	Room 17:				
		[illegible] corner.	1:15 p.m.	Mercury	0.00mg/m^3	Droplets of mercury on table.
		east center.	1:20 p.m.		0.00mg/m^3	Droplets of mercury on floor.
		Room 19:				
		South side of room.	1:20 p.m.		0.02mg/m^3	
		West side of center work table.	1:35 p.m.		0.04mg/m^3	Droplets of mercury on table and floor.
		East side of center work table.	1:40 p.m.		0.06mg/m^3	
		East side of room in storage ben.	1:45 p.m.		0.02mg/m^3	
		Over sink.	1:50 p.m.		0.02mg/m^3	Mercury in sink.

WCX-2512(9-55) K-25 RC Medical Department

ISSUED BY: W. L. Stoddard

COPY TO: C. Bollinger
N. N. Landay
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 111
Routine X
Special
Requested by
Date 3-5-56

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
-102h	2-5-56	Vac. # 229102, five feet from exhaust.	2:20 p.m.	Mercury	0.10mg/m^3	Cleaner has mercury in it. This cleaner should not be used until cleaned and rechec ed.

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stoddard

COPY TO: E. C. Bollinger
N. Landay
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 12
Routine X
Special
Requested by
Date 1-13-56

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	OBSERVATIONS AND REMARKS
Y-12h	1-5-56	Mer-Vac cleaner. Property #229102, at point of exhaust.	12:45 p.m.	Mercury	.1mg/m^3	In good condition for continued use.
		Six inches from exhaust.			0.00mg/m^3	
		Around gasket.			.02mg/m^3	
		Six inches from gasket.			0.00mg/m^3	

WCX-2512 (9-55) K-25 RC Medical Department

ISSUED BY: D. L. Stadden

TO: E. C. Bollinger
M. Landay
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 192 I
Routine
Special
Requested by:
Date 6-28-55

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	MAC VALUES	OBSERVATIONS AND REMARKS
K-1021	6-23-55	Tool crib, norvac cleaner no. 229102.	1:45-2:00 PM	Mercury	0.0mg/m^3	0.1mg/m^3	Machine has been thoroughly cleaned.

K-25 RC Medical Department

Issued by: D. L. Stoddard

COPY TO: E. C. Bollinger
N. Landay
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 471
Routine X
Special
Requested by:
Date 6-14-55

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	MAC VALUES	OBSERVATIONS AND REMARKS
K-102h	6-2-55	Mervac Cleaner in tool crib No. 229102, at point of exhaust.	2:20-3:15 PM	Mercury	1.2mg/m^3	0.1mg/m^3	Machine has approximately one pound of mercury in it. Suggest it be cleaned up and rechecked. The Hopcalite may be reactivated appreciably by placing it in an oven at 150-200°c overnight.
		One foot from exhaust.			0.25mg/m^3		
		Two feet from exhaust.			0.05mg/m^3		

K-25 RC Medical Department

Issued by: D. L. Stoddard

C TO: E. C. Bollinger
H. H. Landay
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 435
Routine X
Special
Requested by:
Date 5-16-55

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	MAC VALUES	OBSERVATIONS AND REMARKS
K-1024	4-21-55	Tool crib. Check Servao no. 229102.	10:05-10:25 AM	Mercury	0.00mg/m^3	0.1mg/m^3	
		Room 19.	10:30-10:45 AM		0.00mg/m^3		
		Room 17.	10:50-11:05 AM		0.00mg/m^3		
		Change.	11:10-11:45 AM		0.00mg/m^3		

K-25 RC Medical Department

Issued by: D. L. Stoddard

COPY TO: B. C. Bollinger
H. H. Landay
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 375
Routine X
Special
Requested by:
Date 4-1-55

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	MAC VALUES	OBSERVATIONS AND REMARKS
K-1024	3-16-55	Hervac Cleaner #229102, in tool crib.	10:16-11:10 AM	Mercury	0.00mg/m^3	0.1mg/m^3	
		Room 19. Entire area.	11:16-11:35 AM		0.00mg/m^3		
		Room 20. Entire area.	11:35-11:40 AM		0.00mg/m^3		
		Entire area of shop.	11:40 a.m. to 12:15 p.m.		0.00mg/m^3		

K-25 RC Medical Department

Issued by: D. L. Stoddard

TO: E. C. Bollinger
N. Landay
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 327
Routine X
Special
Requested by:
Date 3-2-55

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	MAC VALUES	OBSERVATIONS AND REMARKS
K-1024	2-24-55	Tool Crib, check Mervac Cleaner #229102.	9:30-9:50 AM	Mercury	0.00mg/m^3	0.1mg/m^3	
		Room 20.	9:55-10:10 AM		0.00mg/m^3		
		Room 19.	10:10-10:25 AM		0.00mg/m^3		
		Shop.	10:26-10:55 AM		0.00mg/m^3		

K-25 RC Medical Department

Issued by: D. L. Stoddard

COPY TO: W. J. Schabot
L. [illegible] Jessee
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 282
Routine X
Special
Requested by:
Date 2-7-65

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	MAC VALUES	OBSERVATIONS AND REMARKS
K-1004	1-27-65	Tool crib. Checking Nervac Cleaner #26102.	2:20-3:00 PM	Mercury	0.00mg/m^3	0.1mg/m^3	
K-[illegible]-5		Tool crib. Checking Nervac Cleaner #23129.	3:10-3:40 PM		0.00mg/m^3		

K-25 RC Medical Department

Issued by: D. L. Stoddard

CC TO: E. C. Bollinger
H. N. Landay
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 224
Routine X
Special
Requested by:
Date 1-6-55

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	MAC VALUES	OBSERVATIONS AND REMARKS
K-1024	12-28-54	Checking Nervac Vacuum Cleaner in northeast end of tool crib. CCC No. 229102. These readings were taken two feet from point of exhaust.	9:35-9:50 AM	Mercury	0.00mg/m^3	0.1 mg/m^3	
			9:60-10:05 AM		0.00mg/m^3		

K-25 RC Medical Department

Issued by: D. L. Stoddard

COPY TO: E. C. Bollinger
M. M. Landay
Safety
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 208
Routine X
Special
Requested by:
Date 12-27-54

BUILDING OR AREA	DATE	SAMPLING LOCATION	SAMPLING TIME	CONTAMINANT	RESULT	MAC VALUES	OBSERVATIONS AND REMARKS
K-1024	12-9-54	Tool crib. Check vacuum cleaner C & CCC #229102.	2:15-2:30 PM	Mercury	0.00mg/m^3	0.1 ppm	Suitable for continued use.
		Glass shop, and main building.	2:35-3:35 PM		0.00 mg/m^3		

K-25 RC Medical Department

Issued by: D. L. Stoddard

COPY TO: R. C. Bollinger
E. Landay
Safety Department
File

INDUSTRIAL HYGIENE AND SAMPLING REPORT

NUMBER 95
Routine X
Special
Requested by

Building or Area	Date	Sampling Location	Sampling Time	Contaminant	Result	MAC Values	Observations and Remarks
K-1024	9-21-54	Mervac cleaner at point of discharge.		Mercury	1.2mg/m^3	0.1mg/m^3	Mervac is being cleaned up and will be checked when ready for use.
"	"	3 feet from point of discharge		"	0.24mg/m^3	"	
"	"	5 feet from point of discharge		"	0.06mg/m^3	"	

K-25RC Medical Department 9-24-54

COPY TO: A. C. Bollinger
M. Landay
Safety Department
File

INDUSTRIAL HYGIENE AIR SAMPLING REPORT

NUMBER 57
Routine X
Special
Requested by

Building or Area	Date	Sampling Location	Sampling Time	Contaminant	Result	MAC Values	Observations and Remarks
K-1024	5/19/54	Rooms 19, 20 and 21.	3:00-3:30 PM	Mercury	see remarks column	0.1mg/m^3	The highest concentration formed was 0.02mg/m^3 in the south half of room 19. No mercury spills were noticed.
"	"	Mervac vacuum cleaner.	3:30-3:40 PM	Mercury			The concentration was $\leq$0.02 mg/m^3 at the immediate exhaust exits and 0.02 mg/m^3 at a distance of four to five feet from the exhaust.

K-25 HC Medical Department.

Works Laboratory Department
Industrial Hygiene Section

JUL 21 1954

Report Number 6425

Copy Number _____

Service Report

Date of Service Trip 7/16/54 2:00 to 2:40 p.m.

Location: Building K-1024 Room or Area 19, 20, and 21

Samples Taken Air samples for mercury analyses

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level over the rooms in general: no mercury vapors were detected.

Remarks Normal operations were in progress. No spills were noticed.

Supervisor T. Kwanoski Date 7/20/54

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

JUN 18 1954

Report Number 6317

Copy Number _____

Service Report

Date of Service Trip 6/16/54 2:45 to 4:00 p.m.

Location: Building K-1024 Room or Area Outside

Samples Taken Air samples for F_2 analyses

Reason for Service Trip Routine inspection

Sampling Positions and Analyses Face level as follows:

2:45-4:00, west side of guard shack south of K-1024: < 0.1 ppm F_2

3:55, just west of bus stand and south of west wing of K-1024: 0.3 ppm F_2 (grab sample)

3:58-between guard shack and telephone booth south of east wing to K-224:

Results: 0.3 ppm F_2 (grab sample)

Remarks Normal operatio ns and construction work were in progress. The wind was varying generally from east to southwest.

Supervisor T. Kwasnoski Date 6/17/54

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

Report Number 6300

Copy Number _____

Service Report

Date of Service Trip 6/9/54 8:50 to 9:25 a.m.

Location: Building K-1024 Room or Area Receiving

Samples Taken Air samples for mercury analyses

Reason for Service Trip Special request by N. H. Landay

Sampling Positions and Analyses

At exhaust from Mer-Vac vacuum cleaner: Concentrations of 0.04 mg. Hg/cu. meter were detected at the immediate exhaust exits. No vapors were detected at 2 ft. distance from exits.

Remarks Normal operations were in progress.

Supervisor T. Kwasnoski Date 6/15/54

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

APR 9 1954

Works Laboratory Department
Industrial Hygiene Section

Report Number 6056

Copy Number _____

Service Report

Date of Service Trip 4/5/54 9:45 to 10:00 a.m.

Location: Building K-1024 Room or Area Room 22

Samples Taken Air samples for mercury analyses

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level over the room in general: No mercury vapors were detected.

Remarks No operations were in progress.

The room has been cleaned out for construction crew.

Supervisor T. Kusnetz Date 4/8/54

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

APR 3 1954

Report Number 6058

Copy Number _____

Service Report

Date of Service Trip 4/5/54 9:30 to 9:50 a.m.

Location: Building K-1024 Room or Area Room 22

Samples Taken Air sample for U analysis

Reason for Service Trip Special request by R. L. Brewster

Sampling Positions and Analyses

East drain: < 0.01 mg. U/cu. meter

West drain: 0.01 mg. U/cu. meter

Remarks No operations were in progress.

Supervisor T. Iwanoski Date 4/8/54

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

APR 7 1954

Works Laboratory Department
Industrial Hygiene Section

Report Number 6044

Copy Number _____

Service Report

Date of Service Trip 4/2/54 12:50 to 2:40 p.m.

Location: Building K-1024 Room or Area Room 22, Instrument shop, Rooms 19 and 20

Samples Taken Air samples for mercury analyses

Reason for Service Trip Routine inspection

Sampling Positions and Analyses Face level as follows:

12:50-2:00, Room 22, various locations throughout the room: 0.08 mg. Hg/cu. meter

2:00-2:15, Instrument shop, various locations through the room: 0.02 mg. Hg/cu. meter

2:20-2:40, 19 and 20, various locations throughout the rooms: 0.02 mg. Hg/cu. meter

Remarks No operations in room 22, (room has been vacated and is closed up with no ventilation; normal operations in shop and rooms 19 and 20.

Supervisor T. Kusnoki Date 4/5/54

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

MAR 12 1954

Report Number 5053

Copy Number _____

Service Report

Date of Service Trip 3/4/54 2:05 to 4:05 p.m.

Location: Building K-1024 Room or Area Room 22

Samples Taken Air sample for U and HF analyses

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level at east end of transmitter decontamination table:

Results: < 0.1 ppm HF No U detected

Remarks A few metal parts were cleaned during the sample period.

Supervisor T. Kuwasaki Date 3/11/54

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

JAN 20 1954

Works Laboratory Department
Industrial Hygiene Section

Report Number 4901

Copy Number _____

Service Report

Date of Service Trip 1/18/54 10:00 - 10:25 a.m.

Location: Building K-1024 Room or Area 22

Samples Taken Air analysis for TCE

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level to operator in northeast corner of room: For 80% of the time, the concentration was < 75 ppm. Occasionally surges of 300-500 ppm occurred when the gauges were removed and dried by air. The Halide leak detector was used for the analysis.

Remarks Ion gauges were being degreased in the hood by being submerged into a can of boiling TCE.

Supervisor T. Kusanoski Date 1/20/54

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

Report Number 4902

Copy Number _____

Service Report

Date of Service Trip 1/18/54 9:27 to 10:57 a.m.

Location: Building K-1024 Room or Area 22

Samples Taken Air sample for U and HF analysis

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the center of the room: 0.1 ppm HF; No U detected

Remarks

Normal operations were in progress.

Supervisor T. Kusnoski Date 1/26/54

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

JAN 20 1954

Report Number 4900

Copy Number _____

Service Report

Date of Service Trip 1/18/54 10:25 - 11:00 a.m.

Location: Building K-1024 Room or Area 19, 20, 21, and 22

Samples Taken Air samples for mercury analyses

Reason for Service Trip Routine inspection

Sampling Positions and Analyses Face level at various locations in the rooms: The highest concentration in any of the rooms was 0.02 mg Hg/cu. meter which occurred in the east half of room 22.

Remarks Normal operations were in progress. No mercury spills were noticed, except a few very small droplets on the drain board in the hood in the north end of room 22.

Supervisor T. Kwasnoski Date 1/20/54

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

JAN 7 195

Report Number 4847

Copy Number _____

Service Report

Date of Service Trip 1/4/54 9:55 a.m. to 10:35 a.m.

Location: Building K-1024 Room or Area 19, 20, 21, and 22

Samples Taken Air samples for mercury analyses

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level at various locations in the room: The highest concentration of mercury found was 0.02 mg Hg/cu. meter which occurred in the east end of room 22.

Remarks Normal operations were in progress. Small amounts of mercury were noticed on the floor by the storage cabinet and in the sink in room 22.

Supervisor T. Kusnoki Date 1/6/54

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div.-Central Files

JAN 7 195

Works Laboratory Department
Industrial Hygiene Section

Report Number 4844

Copy Number _____

Service Report

Date of Service Trip 1/4/54 12:20 p.m. to 3:50 p.m.

Location: Building K-1024 Room or Area 21

Samples Taken Air analysis for ~~TCE~~ perchloroethylene

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level at northeast corner of wall to room 22 about 2 feet from small degreaser:

At no time during the analysis period was any PCE vapor detected.

Remarks Normal operations were in progress.

Supervisor T. Kusnoski Date 1/6/54

Sampling Reference _____

Analysis Reference _____

Works Laboratory Department
Industrial Hygiene Section

JAN 7 1954

Report Number 4841

Copy Number _____

Service Report

Date of Service Trip 1/4/54 9:17 a.m. to 12:11 p.m.

Location: Building K-1024 Room or Area 21

Samples Taken Air sample for F_2 analysis

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the south end of the room: < 0.1 ppm F_2

Remarks Normal operations were in progress.

Supervisor T. Kwasowski Date 1/6/54

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

NOV 5 1953

Report Number 4748

Copy Number _____

Service Report

Date of Service Trip 11/3/53 2:25 p.m. to 2:55 p.m.

Location: Building K-1024 Room or Area 19, 20, 21, and 22

Samples Taken Air samples for mercury analyses

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level at various locations in the rooms: No mercury vapors were detected.

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Tipperman Date 11/4/53

Sampling Reference _____

Analysis Reference _____

OCT 12 1953

Works Laboratory Department
Industrial Hygiene Section

Report Number 4705

Copy Number _____

Service Report

Date of Service Trip 10/7/53 10:06 a.m. to 10:46 a.m.

Location: Building K-1024 Room or Area 22

Samples Taken Air samples for U and ~~HF~~ H_2 analyses

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level at the northwest corner of table No. 24: < 0.1 ppm HF; < 0.01 mg U/cu. meter

Remarks Pressure transmitters were being cleaned.

Supervisor T. Kuwanoki Date 10/9/53

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Yorks Laboratory Department
Industrial Hygiene Section

OCT 3 1953

Report Number 4701

Copy Number _____

Service Report

Date of Service Trip 10/7/53 10:10 a.m. to 10:44 a.m.

Location: Building K-1024 Room or Area 22, 21, 19, and 20

Samples Taken Air samples for mercury analyses

Reason for Service Trip Routine inspection

Sampling Positions and Analyses Face level at various locations in the rooms: The highest concentration found was 0.02 mg Hg/cu. meter which occurred around the work benches in room 21 opposite the double door entrance to room 19.

Remarks Normal operations were in progress. Some mercury covered with water was noticed in the sink in room 22.

Supervisor T. Kwasnoski Date 10/8/53

Sampling Reference _____

Analysis Reference _____

Works Laboratory Department
Industrial Hygiene Section

SEP 22 1953

Report Number 4641

Copy Number _____

Service Report

Date of Service Trip 9-19-53 8:30 - 9:40 A.M.

Location: Building K-1024 Room or Area 19 and 20

Samples Taken For Mercury.

Reason for Service Trip Routine inspection and follow up of spill that occurred 9/17/53.

Sampling Positions and Analyses Face level at various locations in the rooms. The highest concentration in Room 19 and 20 was 0.02 mg. Hg/m^3 and occurred generally over the rooms.

Remarks Normal.

The area in Room 20 where the spill occurred on 9/17/53 was cleaned by using compound Hg. X on the afternoon of 9/18/53 and the ventilation was back at normal conditions.

Supervisor T. Kusnosaki Date September 21, 1953

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

SEP 22 1953

Report Number 4640

Copy Number _____

Service Report

Date of Service Trip 9-18-53 9:30 - 10:30 AM

Location: Building K-1024 Room or Area 19 and 20

Samples Taken For Mercury.

Reason for Service Trip Routine inspection and follow up of spill that occurred 9/17/53.

Sampling Positions and Analyses Face level at various locations in the rooms.

Room 19 - The South End - 0.10 mg. Hg/m^3 - The North End - 0.06 mg. Hg/m^3 Doors and windows were still open.

Room 20 - The concentration was 0.06 mg. Hg/m^3 over the room in general. The door to Room 19 was closed.

Room 19 - 10 minutes after the doors and windows were closed.

South End - 0.24 mg. Hg/m^3 - North End - 0.10 mg. Hg/m^3

Remarks Normal. The windows and doors had been open in the room from the afternoon of 9/17/53 and all the visible mercury had been cleaned up.

Supervisor T. Kwasnoski Date September 21, 1953

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

SEP 22 1953

Report Number 4639

Copy Number _____

Service Report

Date of Service Trip 9-17-53 12:50 - 2:50 P.M.

Location: Building K-1024 Room or Area 19, 20, 21, and 22

Samples Taken For Mercury.

Reason for Service Trip Routine Inspection.

Sampling Positions and Analyses Face level at various locations in the rooms -

Room 19 - South End - 0.90 mg. Hg/m^3 -

North End - 0.60 mg. Hg/m^3

The immediate discharge of vacuum cleaner 212400 showed 1.20 mg. Hg/m^3. This cleaner was exchanged for the new mercury vacuum cleaner and the windows were opened

Room 20 - North End - 0.40 mg. Hg/m^3

South End - 0.30 mg. Hg/m^3

The highest concentration in Room 22 was 0.02 mg. Hg/m^3 and occurred in the East side of the room. The highest concentration in Room 21 was 0.02 and occurred opposite the entrance to room 20.

Remarks Normal.

A manometer blowed in the South-east corner of room 19 about 40 minutes before the sample period and was being cleaned up with Hg. vacuum cleaner C&CCC # 212400.

Supervisor T. Kwasnoski Date September 21, 1953

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

Report Number 4594

Copy Number _____

Service Report

Date of Service Trip 8-26-53 12:45 PM - 1:35 PM

Location: Building K-1024 Room or Area 19, 20, 21, 22

Samples Taken For mercury analysis.

Reason for Service Trip Routine Inspection.

Sampling Positions and Analyses Face level in various rooms - the highest concentrations found was 0.03 mg. Hg./m^3 over waste basket in front of test rotameters.

Remarks Mercury in sink in Room 22 covered with water.

Supervisor T. Kawanoshi Date August 27, 1953

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

AUG 19 1953

Report Number 4528

Copy Number _____

Service Report

Date of Service Trip 8-6-53, 1:00 - 2:00 P.M.

Location: Building K-1024 Room or Area Rooms 19, 20, 21, and 22

Samples Taken Air analyses for Mercury.

Reason for Service Trip Routine Inspection

Sampling Positions and Analyses

Face level around rooms. Highest concentration was 0.06 mg. Hg/m^3 which occurred near storage shelves in Room 22. NT

Remarks Normal operations.

Supervisor T. Kwasnoski Date August 12, 1953

Sampling Reference _____

Analysis Reference _____

JUL 10 1953

Works Laboratory Department
Industrial Hygiene Section

Report Number 4455

Copy Number _____

Service Report

Date of Service Trip 7/7/53 2:00 p.m. to 3:15 p.m.

Location: Building K-1024 Room or Area 19, 20, 21, and 22

E. C. Bollinger; L. F. Lieber

Samples Taken Air samples for mercury analyses

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level at various locations in the rooms:

Room 19: 0.06 mg Hg/cu. meter over the entire room.

Room 20: 0.04 mg Hg/cu. meter over the entire room

Room 21: Around the sinks opposite the standard calibration stand the concentration was 0.06 mg Hg/cu. meter for 12 feet north and 0.04 mg Hg/cu. meter from there on to the north end.

Room 22: In the east end of the room, the concentration reached 0.04 mg Hg/cu. meter

Remarks Normal operations were in progress. Some mercury was noticed around the splash pot in room 19, in the sink in the northeast corner of room 22, and on the floor near the sinks in room 21.

Supervisor T. Kwasnoski Date 7/8/53

Sampling Reference _____

Analysis Reference _____

Works Laboratory Department
Industrial Hygiene Section

MAY 20 1953

Report Number 4383

Copy Number _____

Service Report

Date of Service Trip 5/14/53 3:00 p.m. to 4:05 p.m.

Location: Building K-1024 Room or Area 19, 20, 21, and 22

E. C. Bollinger; L. F. Lieber

Samples Taken Air samples for mercury analyses

Reason for Service Trip

Routine inspection

Sampling Positions and Analyses

Face level at various locations in the rooms: The highest concentration found was 0.02 mg Hg/cu. meter along the side of room 22 and in the south end of room 21.

Remarks Normal operations were in progress. A few droplets of mercury were noticed in the sink in the northeast corner of room 22 and in the mercury storage cabinet on the east wall. There was a small spill by a tube rack in room 21; an operator cleaned up the spill.

Supervisor T. Kwasnoski Date 5/19/53

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

Report Number 4354

Copy Number _____

Service Report

Date of Service Trip 4/22/53 3:00 p.m. to 3:45 p.m.

Location: Building K-1024 Room or Area 19, 20, 21, and 22

E. C. Bollinger; L. F. Leiber

Samples Taken Air samples for mercury analyses

Reason for Service Trip

Routine inspection

Sampling Positions and Analyses

Face level at various locations in the rooms: The highest concentration found was 0.02 mg Hg/cu. meter which occurred generally in room 22 and in the south end of room 21.

Remarks

Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kusnierz Date 4/27/53

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

MAR 16 195

Works Laboratory Department
Industrial Hygiene Section

Report Number 4296

Copy Number

Service Report

Date of Service Trip 3/10/53 1:39 p.m. to 1:54 p.m.

Location: Building K-1024 Room or Area 19

E. C. Bollinger; L. F. Lieber

Samples Taken Air samples for analyses of flux fumes.

Reason for Service Trip

Special investigation

Sampling Positions and Analyses

Face level as follows:

West side of operator (electrostatic precipitator sample): 7.0 mg Dust and fumes/cu. met

Bubbler sample: 0.6 ppm F_2

East side of operator: Electrostatic precipitator sample: 4.6 mg dust and fumes/cu. met

Bubbler sample: 1.6 ppm F_2

Remarks Normal operations were in progress. Red label Sil-Flux was being used. No respiratory protective equipment was worn.

[illegible] 3/1 = 53. S [illegible] [illegible]

Supervisor T. Kwasnoski Date 3/13/53

Sampling Reference

Analysis Reference

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

FEB 20 1953

Report Number 2087

Copy Number _____

Service Report

Date of Service Trip 2/18/53 12:20 to 12:30 p.m.

Location: Building K-1024 Room or Area 19, 20, and 22

E. C. Bollinger; L. F. Leiber

Samples Taken Air samples for mercury analyses

Reason for Service Trip

Routine inspection

Sampling Positions and Analyses

Face level at various locations in the room: 0.00 mg Hg/cu. meter

Remarks Normal operations were in progress. It is suggested that mercury be kept out of drains.

Supervisor T. Kwasnoski Date 2/19/53

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

1953

Report Number 4260

Copy Number _____

Service Report

Date of Service Trip 2/12/53 2:30 p.m.

Location: Building K-1024 Room or Area Room 24

E. C. Bollinger; L. F. Leiber

Samples Taken Air samples for Oxides of Nitrogen

Reason for Service Trip

Routine inspection

Sampling Positions and Analyses

Face level by operator in front of hood: 42 ppm NO

Remarks An operator was cleaning a few metal parts to test fumes. In order for the operator to reach the acid jar, he must lean over the sink.

Supervisor T. Kwasnoski Date 2/16/53

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

JAN 20 1953

Works Laboratory Department
Industrial Hygiene Section

Report Number 4223

Copy Number _____

Service Report

Date of Service Trip 1/12/53 12:35 p.m. to 12:55 p.m.

Location: Building K-1024 Room or Area 19

E. C. Bollinger; L. F. Leiber

Samples Taken Air samples for analyses of flux fumes.

Reason for Service Trip

Special investigation

Sampling Positions and Analyses

Face level samples were taken as follows:

Electrostatic precipitator 8 inches from source of contamination: See attached spectrochemical report.

Bubbler sample 1 foot in front of operator and source of contamination: 1.4 ppm F_2 ?

Bubbler sample 4 feet in front of operators and/of source contamination: 1.4 ppm F_2 ?

Analyses of a composite of the 2 bubbler samples showed no Cl or SO_4 acid radicals.

Remarks Normal operations were in progress. Red label Sil-flux was being used. No respiratory protective equipment was worn. Dense, white fumes were visible which were irritating.

Supervisor T. Kusaka Date 1/19/53

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

SPECTROCHEMICAL REPORT

Ag	Present
Cd	Present
Cr	Trace
Cu	Present
Fe	Present
Mg	Present
Ni	Present
Pb	Trace
Si	Present
Sn	Trace
Zn	Present

Works Laboratory Department
Industrial Hygiene Section

[illegible] 0 1953

Report Number 4215

Copy Number _____

Service Report

Date of Service Trip 1/8/53 2:30 p.m.

Location: Building K-1024 Room or Area 21

L. F. Leiber

Samples Taken Air samples for mercury

Reason for Service Trip

Routine inspection of mercury vacuum cleaners

Sampling Positions and Analyses

Exhaust from vacuum cleaner, Serial No. 104551: The exhaust showed a concentration of 2.0 mg Hg/cu. meter, 6 inches from exhaust exit, and 0.60 mg Hg/cu. meter 5 feet from the exhaust exit.

Remarks Normal operations were in progress.

Mercury fan into the floor from the cloth dust bag when the cleaner was moved to enable the operator to check the serial number.

Supervisor T. Kwasnoski Date 1/9/53

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

Report Number 4214

Copy Number _____

Service Report

Date of Service Trip 1/8/53 2:00 p.m. to 3:20 p.m.

Location: Building K-1024 Room or Area 19, 20, 21, and 22

L. F. Leiber

Samples Taken Air samples for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level at various locations in the rooms.

The highest concentration found was 0.10 mg Hg/cu. meter which occurred around the calibrating station manifold in Room 19, where the operator was cleaning mercury from the manifold. At a point three or four feet away from the manifold, the concentration dropped to 0.02 mg Hg/cu. meter

Remarks Normal operations were in progress. The manifold was in the room (19) because of a manometer break. This caused a few droplets of mercury to be on the table and some mercury vapors in the immediate vicinity.

Supervisor T. Kwasnoski Date 1/9/53

Sampling Reference _____

Analysis Reference _____

Works Laboratory Department
Industrial Hygiene Section

OCT 28 1952

Report Number 4093

Copy Number _____

Service Report

Date of Service Trip 10/24/52 12:00 P.M.

Location: Building K-1024 Room or Area Rooms 19, 20, 22

L.F. Lieber

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level at various locations in room

All determinations 0.00 mg Hg/m^3

Remarks Droplets of mercury in sink

Supervisor T. Kwasnoski Date 10/27/52

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

OCT 28 1952

Report Number 4096

Copy Number _____

Service Report

Date of Service Trip 10/24/52 12:50 P.M.

Location: Building K-1024 Room or Area Room 22

L. F. Lieber

Samples Taken Air analyses for oxides of nitrogen

Reason for Service Trip Routine Inspection

Sampling Positions and Analyses

Face level by operator in front of hood

< 10 ppm oxides of nitrogen

Remarks Normal operations

Supervisor T. Kusnetz Date 10/27/52

Sampling Reference _____

Analysis Reference _____

Works Laboratory Department
Industrial Hygiene Section

30 1952

Report Number 4197

Copy Number _____

Service Report

Date of Service Trip 12/24/52 1:30 p.m. to 3:00 p.m.

Location: Building K-1024 Room or Area 19, 20, 21, and 22

L. F. Leiber

Samples Taken Air samples for mercury analyses

Reason for Service Trip

Routine inspection

Sampling Positions and Analyses

Face level at various locations in the rooms: The highest concentration found was 0.02 mg Hg/cu. meter which occurred along the east wall of room 22.

Remarks Normal operations were in progress. Small droplets of mercury were noticed in the shelves of cabinet on the east wall of room 22.

Supervisor T. Kwasnoski Date 12/26/52

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

Report Number 4137

Copy Number _____

Service Report

Date of Service Trip 11/12/52 2:20 pm to 3:30 p.m.

Location: Building K-1024 Room or Area 19, 20, 21, and 22

E. C. Bollinger; L. F. Leiber

Samples Taken Air samples for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level at various locations in the rooms: The only mercury detected was in the north end of the room (21), where the concentration was 0.04 mg Hg/cu. meter

Remarks Normal operations were in progress. In room 22, mercury was noticed in the sink, in the shelves of the cabinet on the east wall, and on the porch outside the south door. Mercury was noticed on the floor in the north end of Room 21 between rooms 17 and 18.

Supervisor T. Kuwayoshi Date 11/14/52

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

AUG 14 1952

Report Number 3986

Copy Number _____

Service Report

Date of Service Trip 8/12/52 1:30 p.m.

Location: Building K-1024 Room or Area 22, 20, 19

L. F. Lieber

Samples Taken Air samples for mercury

Reason for Service Trip

Routine inspection

Sampling Positions and Analyses

Face level at various locations in the three rooms:

Room 22: 0.00 mg Hg/cu. meter

Room 20: Highest concentration found was 0.02 mg Hg/cu. meter which occurred around the desk in the northwest corner of the room.

Room 19: 0.00 mg Hg/cu. meter

Remarks

Normal operations were in progress. There was a lot of mercury in the sink in the northeast corner of Room 22. A few drops of mercury were noticed in the sink in Room 20. No spills were noticed in Room 19.

Supervisor T. Kwasnoski Date 8/14/52

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

AUG 1 1952

Works Laboratory Department
Industrial Hygiene Section

Report Number 3968

Copy Number _____

Service Report

Date of Service Trip 7-31-52 2:40 P.M.

Location: Building K-1024 Room or Area 19, 20, 22

L. F. Leiber

Samples Taken Air samples for Mercury

Reason for Service Trip Routine Inspection

Sampling Positions and Analyses

Face level at various locations in the three rooms.

Results: Room 22 - 0.00 Mg. Hg/M^3. Rooms 19 and 20 - There was a general concentration of 0.02 Mg. Hg/M^3. The door between these two rooms is open due to air conditioning unit in room 19. The exhaust was off in room 20 as it affects the air conditioning unit in room 19.

Remarks Normal. Quite a bit of mercury was noticed in the sink in northeast corner of room 22. No other spills were noticed.

Supervisor T. Kuroyanagi Date 8-1-52

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Depa...ent
Industrial Hygiene Section

UN

Report Number 3875

Copy Number _____

Service Report

Date of Service Trip 6/19/52 9:30 a.m.

Location: Building K-1024 Room or Area 19, 20, and 22

L. F. Leiber

Samples Taken Air samples for mercury

Reason for Service Trip

Routine inspection

Sampling Positions and Analyses

Face level: Room 19 - 19 determinations were made. All results: 0.00 mg Hg/cu. meter

Room 20: 8 determinations were made. The highest concentration was 0.02 mg Hg/cu. meter which occurred in the northwest corner of the room near the desk.

Room 22: 8 determinations were made. All results were: 0.00 mg Hg/cu. meter

Remarks Normal operations were in progress. Mercury was noticed in the sink in the northeast corner of the room (22). The mercury was covered with water.

Mercury was noticed by the vacuum pump under the McLeod guage in room 19.

Supervisor T. Kwasnoski Date 6/20/52

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Depa..ment
Industrial Hygiene Section

Report Number 3876

Copy Number

Service Report

Date of Service Trip 6/19/52 10:30 a.m.

Location: Building K-1024 Room or Area Room 22

L. F. Leiber

Samples Taken

Air samples for oxides of nitrogen

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level by operator at west end sink. 55 ppm oxides of nitrogen

Remarks Normal operations were in progress. The metal in the sink and in the hood just over the sink is eaten away, cutting down the air flow. M

Repairs will be made on the hood and sink.

Supervisor T. Kwasnoski Date 6/20/52

Sampling Reference

Analysis Reference

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Depar...ent
Industrial Hygiene Section

MAY 21 1952

Report Number 3815

Copy Number

Service Report

Date of Service Trip 5/19/52 3:00 p.m.

Location: Building K-1024 Room or Area 22, 20, 19

L. F. Lieber

Samples Taken Air samples for mercury.

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level: Room 22, 6 determinations made: All results 0.00 mg Hg/cu. meter

" " There was a lot of mercury in the sink in the northeast corner. The mercury was covered with water.

Room 20: 5 determinations were made. All results: 0.00 mg Hg/cu. meter

Room 19: 8 determinations were made. All results: 0.00 mg Hg/cu. meter

" " A small amount of mercury was noticed around the splash pot for the McLeod gauge.

Remarks

Normal operations were in progress.

Supervisor T. Iwanochi Date 5/20/52

Sampling Reference

Analysis Reference

Works Laboratory Department
Industrial Hygiene Section

Report Number 3770

Copy Number _____

Service Report

Date of Service Trip 4/22/52 2:15 p.m.

Location: Building K 1024 Room or Area 22, 20, 19, and 5

L. F. Lieber

Samples Taken Air analyses for mercury

Reason for Service Trip

Routine inspection

Sampling Positions and Analyses

Face level as follows:

Room 22: 6 determinations were made. All results were: 0.00 mg Hg/cu. meter

Room 19 " " " " " " " " " "

Room 20 " " " " " " " " " "

Room 5 " " " " " " " " " "

Remarks A few droplets of mercury were noticed in the sink in the northeast corner of room 22 and around the splash pot in room 20.

Room 5 has been converted into an office for Materials Control Division, and there is no mercury used in this room.

Supervisor T. Kusnetski Date 4/24/52

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

Report Number 3766

Copy Number _____

Service Report

Date of Service Trip 4/17/52 2:00 p.m.

Location: Building K-1025 Room or Area Room 22

L. F. Liever

Samples Taken Air analysis for Oxides of Nitrogen

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level by operator in front of the hood. Less than 10 ppm ✓ Oxides of Nitrogen

Remarks

Metal parts were being cleaned in an acid bath. The hood which was being used draws up fumes very rapidly.

Supervisor T. Kwasnoski Date 4/21/52

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

MAR 25 1952

Works Laboratory Department
Industrial Hygiene Section

Report Number 3722

Copy Number _____

Service Report

Date of Service Trip 3/21/52 3:25 p.m.

Location: Building K-1024 Room or Area 22

L. F. Leiber

Samples Taken Air analysis for oxides of nitrogen

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in front of hood. Less than 10 ppm

Remarks

Normal operations were in progress.

Supervisor T. Kwasnoski Date 3/24/52

Sampling Reference _____

Analysis Reference _____

Works Laboratory Depar...ent
Industrial Hygiene Section

FEB 28 195

Report Number 3673

Copy Number _____

Service Report

Date of Service Trip 2/22/52 1:15 p. m.

Location: Building K-1024 Room or Area ~~22~~, 20, 19, and 5

L. F. Lieber

Samples Taken Air analyses for mercury

Reason for Service Trip Routine Inspection

Sampling Positions and Analyses

Room 22. Six determinations were made. All results: 0.00 mg Hg/cu. meter

Room 19. Ten determinations were made. All Results: 0.00 mg Hg/cu. meter

Room 20. Six determinations were made. All results were 0.00 mg Hg/cu. meter

Room 5. Four determinations were made. All results: 0.00 mg Hg/cu. meter

Remarks Room 22. A few droplets of mercury were noticed in sinks along north wall.

Room 19. A small mercury spill had occurred around splash pot on east end of center work table.

Rooms 20 and 5. No mercury spills were noticed.

Supervisor T. Kwasnoski Date 2/26/52

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

DEC 29 1951

Report Number EA 3525

Copy Number _____

Service Report

Date of Service Trip 12/26/51 12:10 p.m.

Location: Building K-1024 Room or Area 22, 20, 19, and 6

L. F. Leiter

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

The analyses were made at face level as follows:

Room 22: 7 determinations, all 0.00 mg Hg/cu. meter

Room 20: 6 determinations, all 0.02 mg Hg/cu. meter

Room 19: 8 determinations, all 0.00 mg Hg/cu. meter

Room 6: 4 determinations all 0.00 mg Hg/cu. meter

Remarks Normal operations were in progress. Some mercury was noticed in sink in northeast corner of Room 22 and around vacuum pump under table in Room 20. The exhaust was off in Room 20 and the operator said that it had been turned off because of its noise.

Supervisor T. Kwasnoski Date 12/29/51

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 3476

Copy Number _____

Service Report

Date of Service Trip 11/30/51 10:15 a.m.

Location: Building K-1024 Room or Area 22, 20, 19, and 5

L. F. Lieber

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection.

Sampling Positions and Analyses

All analyses were made at face level as follows:

Room 22: 8 determinations were made; all showed 0.00 mg Hg/cu. meter

Room 20; 7 " " " " " " " " " "

Room 19; 8 " " " " " " " " " "

Room 5; 4 " " " " " " " " " "

Remarks

Normal operations were in progress. Some mercury was noticed in the sink in the northeast corner of Room 22. Some mercury was noticed around vacuum pump under table in Room 20.

Supervisor T. Kwasnoski Date 12/5/51

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 3421

Copy Number _____

Service Report

Date of Service Trip 11/1/51 3:00 p. m.

Location: Building K-1024 Room or Area #22

L F. Lieber

Samples Taken Airflow determinations in linear ft. /min.

Reason for Service Trip Routine inspection

Sampling Positions and Analyses Three determinations were made over each sink, one at the top of hood opening, one midway of opening, and one at bottom of opening.

Strips of paper were used to cover part of the hood opening and the three determinations over each sink were repeated.

For complete results, see attached report.

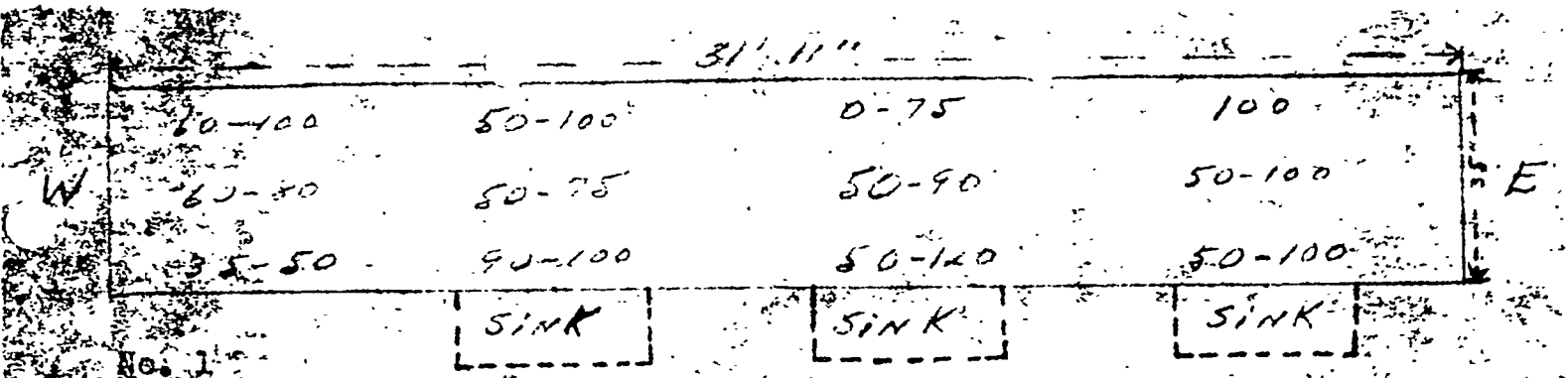
Remarks

Supervisor T. Kwasnoski Date 11/13/51

Sampling Reference _____

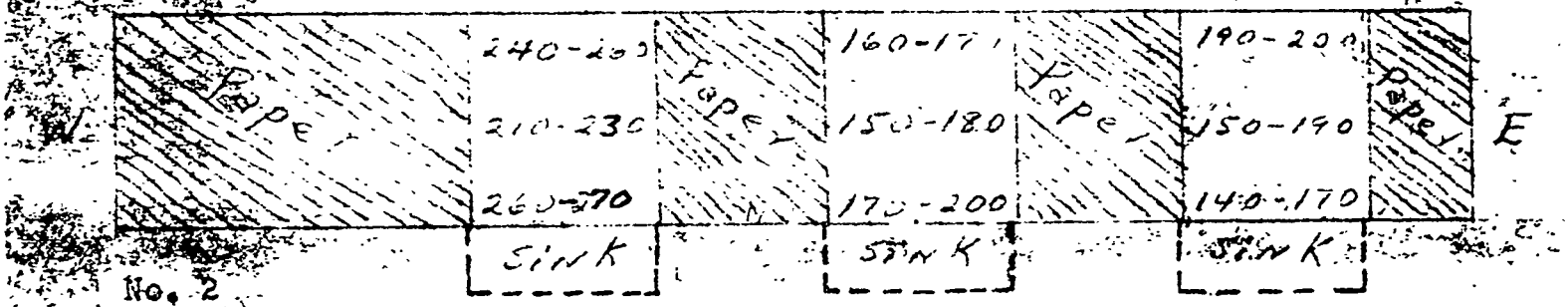
Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files



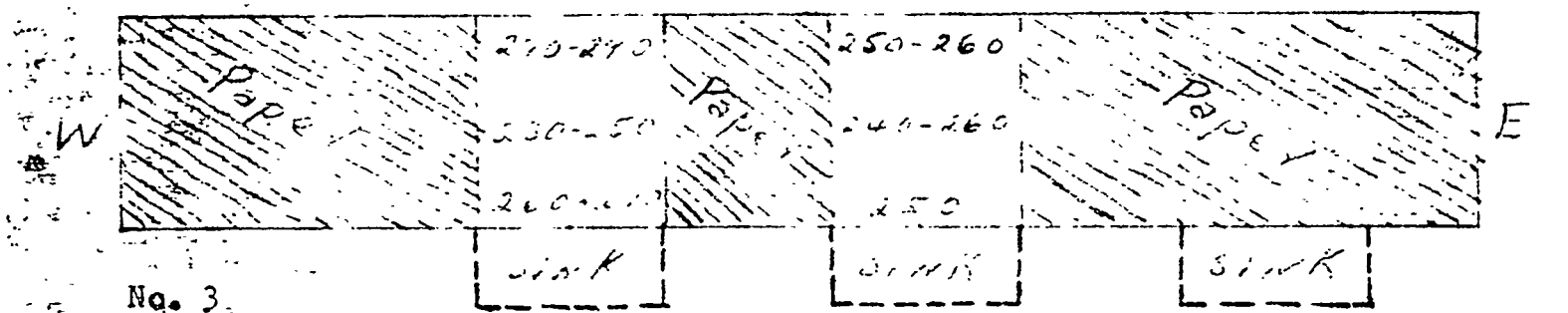
No. 1

Figures over the sink indicate the airflow in linear ft./ Min., and were taken with the entire front of the hood open. The determinations were made at top of hood opening , midway and at bottom of hood opening.



No. 2

Determinations in diagram # 2 were made with paper covering all of the hood opening except over the three sinks. As the sinks are four feet long, there was 12 feet of opening.



No. 3

Determinations were made in diagram # 3 with paper covering all of hood opening except two sinks or 8 feet of opening.

No. 4

Determinations in diagram #4 were made with paper covering all of hood opening except one sink or 4 feet of opening.

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2999

Copy Number 1

Service Report

Date of Service Trip 10-9-50 2:10 - 2:40 p.m.

Location: Building K-1024 Room or Area Rooms 4 and 7

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses The analyses were made at face level in the indicated positions and results are reported in mg Hg / cu meter.

North end of room 4: 0.00

Center of room 4: 0.00

South end of room 4: 0.00

North end of room 7: 0.02

Center of room 7: 0.02

South end of room 7: 0.02

Remarks Normal operations were in progress. An open pan of mercury was noticed on the bench in the south end of room 7. The area of exposed mercury in the pan was approximately 48 square inches. The mercury appeared to have a film over it.

Supervisor T. Kusnoobi Date 10-10-50

Sampling Reference

Analysis Reference

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

1

Report Number HA - 3080

Copy Number 1

Service Report

Date of Service Trip 11-27-50 12:30 - 1:30 p.m.

Location: Building K-1024 Room or Area Rooms 4, 7, 10, 11, 13, 14

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses The analyses were made at face level and results are reported in mg Hg / cu meter

Room 4:	South side of room:	0.00	Room 11: West side of room:	0.00
	Center of room:	0.04	East side of room:	0.00
	North side of room:	0.00	Room 13: West side of room:	0.00
Room 7:	North side of room:	0.00	East side of room:	0.02
	Center of room:	0.00	Room 14: North side of room:	0.00
	South side of room:	0.00	Center of room:	0.00
Room 10:	North side of room:	0.02	South side of room:	0.00
	Center of room:	0.02		
	South side of room:	0.00		

Normal operations were in progress.

Supervisor T. Kwasnoski Date 11-28-50

Sampling Reference

Analysis Reference

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 3110

Copy Number 1

Service Report

Date of Service Trip 12-13-50 3:00 - 4:00 p.m.

Location: Building K-1024 Room or Area Rooms 4, 7, 10, 11, 13, 14

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses The analyses were made at face level and the results are reported in mg Hg / cu meter

Room4:	North side of the room: 0.00 ✓	Room 7:	North side of the room: 0.00 ✓
	Center of the room: 0.00 ✓		Center of the room: 0.00 ✓
	South side of the room: 0.00 ✓		South side of the room: 0.00 ✓
Room 10:	North side of the room: 0.00 ✓	Room 11:	East side of the room: 0.00 ✓
	Center of the room: 0.00 ✓		Center of the room: 0.00 ✓
	South side of the room: 0.00 ✓		West side of the room: 0.00 ✓
Room 13:	North side of the room: 0.00 ✓	Room 14:	Center of the room: 0.00 ✓
	Center of the room: 0.00 ✓		
	South side of the room: 0.00 ✓		

REMARKS: Normal operations were in progress. Some mercury droplets were noticed on the table top in the south end of room 4.

Supervisor T. Kwasnoski Date 12-20-50

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

T.

Report Number HA 3159

Copy Number 1

Service Report

Date of Service Trip 1-17-51 3:00-4:00 p.m.

Location: Building K-1024 Room or Area 4, 7, 10, 11, 13, 14

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses The analyses were made at face level and the results are reported in mg Hg/cu. meter.

Room 4: In the north end of the room: 0.00
In the center of the room: 0.00
In the south end of the room: 0.00

Room 7: In the north end of the room: 0.00
In the center of the room: 0.00
In the south end of the room: 0.00

Room 10: In the north end of the room: 0.02
In the center of the room: 0.04
In the south end of the room: 0.02

Room 11: In the west side of the room: 0.0
In the east side of the room: 0.0

Room 13: In the north end of the room: 0.0
In the center of the room: 0.00
In the south end of the room: 0.0

Room 14: In the center of the room: 0.00

Remarks: Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwasnoski Date 1-25-51

Sampling Reference

Analysis Reference

WCX-427 K-25 RC Lab. Div. Central Files

Report No. HA-3204

2/27/51

Sampling Positions and Analyses:

The analyses were made at face level and the results are reported in mg. Hg / cu. meter.

Room 4:	In the north end of the room:	0.00
	In the center of the room:	0.00
	In the south end of the room:	0.00
Room 7:	In the north end of the room:	0.00
	In the center of the room:	0.00
	In the south end of the room:	0.00
Room 10:	In the north end of the room:	0.00
	In the center of the room:	0.00
	In the south end of the room:	0.00
Room 11:	In the east end of the room	0.00
	In the west end of the room	0.00
Room 13:	In the north end of the room:	0.00
	In the center of the room:	0.00
	In the south end of the room:	0.00
Room 14:	In the center of the room:	0.00

Works Laboratory Department
Industrial Hygiene Section

Report Number HA-3204

Copy Number 1

Service Report

Date of Service Trip 2/7/51 1:45-3:15 P.M.

Location: Building K-1024 Room or Area Rooms 4, 7, 10, 11, 13, 14

L. F. Lieber

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses See attached sheet

Remarks Normal operations were in progress.

No mercury spills were noticed.

Supervisor T. Kwoonoski Date 2/27/51

Sampling Reference

Analysis Reference

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 3260

Copy Number _____

Service Report

Date of Service Trip 3/30/51 3:30 p. m.

Location: Building K-1024 Room or Area Rooms 7, 10, 11, 13, 14

L. F. Lieber

Samples Taken Air analyses for Mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses The analyses were made at face level and the results are reported in mg Hg/cu. meter.

Room 7: In the north side of the room: 0.00 Room 11: In the east end of the room: 0.00

In the center of the room: 0.00 In the west end of the room: 0.00

In the south side of the room: 0.00 Room 13: In the north side of the room: 0.

Room 10: In the north side of the room: 0.00 In the center of the room: 0.00

In the center of the room: 0.00 In the south side of the room: 0.0

In the south side of the room: 0.00 Room 14: In the center of the room: 0.00

Remarks Normal operations were in progress.

No mercury spills were noticed.

Supervisor T. Kwasnoski Date 4-6-51

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Depa_ment
Industrial Hygiene Section

Report Number HI 3277

Copy Number 1

Service Report

Date of Service Trip 5/1/51 2:00 p.m.

Location: Building K-1024 Room or Area Room 22

L. F. Lieber

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses The results are reported in mg Hg/cu. meter

Face level in the hood: 0.10 NT

Face level outside the hood: 0.02

Remarks No operations were in progress.

Mercury was noticed in the northeast sink.

Supervisor T. Kwasnoski Date May 10, 1951

Sampling Reference

Analysis Reference

Works Laboratory Depar...ent
Industrial Hygiene Section

Report Number HA - 3369

Copy Number 1

Service Report

Date of Service Trip 8/16/51 10:45 a.m.

Location: Building K-1024 Room or Area Rooms 5, 6, 19, 20, and 22

L. F. Lieber

Samples Taken Air analyses for mercury.

Reason for Service Trip Routine inspection.

Sampling Positions and Analyses Samples were taken at face level and reported in mg Hg/cu. meter.

Room 5 - center and northeast corner: 0.00

" 6 - south end, north end and center: 0.00

" 19 - south end, north end, and east side: 0.00

" 20 - south end, north end, center and west side: 0.00

" 22 - along sink on north wall, center and west end: 0.00, east end: 0.04

" 22 - around table in center of room: east end, west end, and center: 0.00

Remarks Mercury in sink in east end along north wall and on floor under sink over approximately a 12 sq. ft. area.

Supervisor T. Kwasnoski Date August 23, 1951

Sampling Reference

Analysis Reference

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Depar. .ent
Industrial Hygiene Section

Report Number K - 3367

Copy Number 1

Service Report

Date of Service Trip 8/16/51 [illegible]

Location: Building K-1004 Room or Area 22

[illegible]

Samples Taken [illegible] oxides of nitrogen.

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in front of the cleaning sink: Less than 10 ppm oxides of nitrogen

Remarks Normal operations were in progress.

Supervisor T. Kwasnoski Date August 21, 1951

Sampling Reference

Analysis Reference

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 3374

Copy Number 1

Service Report

Date of Service Trip 8/20/51 12:00 noon

Location: Building K-1024 Room or Area Room 22; employee's shoes

L. F. Lieber

Samples Taken Air analyses for mercury.

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Left shoe sole outside: 0.24 mg Hg/cu. meter

" " inside: 0.04 mg Hg/cu. meter

Right shoe sole outside: 0.60 mg Hg/cu. meter

Right shoe inside: 0.02 mg Hg/cu. meter

Remarks Employee was working in Room 22, where on August 16 mercury droplets were found on the floor covering an area of approximately 12 sq. ft.

Supervisor T. Kwasnoski Date 8/23/51

Sampling Reference

Analysis Reference

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

Report Number IH 3405

Copy Number 1

Service Report

Date of Service Trip 9/13/51 2:30 p. m.

Location: Building K-1024 Room or Area Just outside south entrance on west wing.

L. F. Lieber

Samples Taken Air sample for fluorine analysis

Reason for Service Trip Routine inspection.

Sampling Positions and Analyses Sample was taken at face level just outside south entrance on west wing of building with wind blowing in north direction: 0.5 ppm calculated as F_2.

Remarks

Supervisor T. Kwasnoski Date 9/18/51

Sampling Reference

Analysis Reference

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 3403

Copy Number 1

Service Report

Date of Service Trip 9/13/51 1:00 p. m.

Location: Building K-1024 Room or Area 5, 19, 20, and 22

L. F. Leiber

Samples Taken Air analyses for mercury

Reason for Service Trip Routine Inspection.

Sampling Positions and Analyses Samples were taken at face level.

Room 5: Center, east, and west sides: 0.00 mg Hg/cu. meter

Room 19: South end, north end, east, west, and center of room: 0.00 mg Hg/ cu. meter

Room 22: Along sink on north wall and center of room: 0.00 mg Hg/ cu. meter

Room 20: South end: 0.04 mg Hg/cu. meter

North end: 0.02 mg Hg/cu. meter

Center of room: 0.10 mg Hg/cu. meter

West side of room: 0.10 mg Hg/cu. meter

Remarks There had been a mercury spill at northwest corner of table in center of room 20. Very small droplets of mercury could be seen on floor. The exhaust was off in Room 20 when above tests were made. After turning exhaust system on, the concentration dropped to 0.02 mg Hg/cu. meter. There was a large amount of mercury in sink in Room 22.

Supervisor T. Kuwahara Date 9/18/51

Sampling Reference

Analysis Reference

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Depa..ment
Industrial Hygiene Section

Report Number K 3409

Copy Number 1

Service Report

Date of Service Trip 9/13/51 2:15 p. m.

Location: Building K-1024 Room or Area Room 22

L. F. Leiber

Samples Taken Air analyses for oxides of nitrogen.

Reason for Service Trip Routine inspection

Sampling Positions and Analyses Two analyses were made as follows:

(1) Over cleaning jar in sink while operator was preparing cleaning mix by adding concentrated HNO_3 to water in jar: 275 ppm oxides of nitrogen. NI

(2) Face level by operator while cleaning metal traps: 36.6 ppm oxides of nitrogen.

Remarks Operator did not wear respirator. The exhaust system does not seem to pull off the fumes as it should.

Supervisor T. Kusnetsoki Date 9/18/51

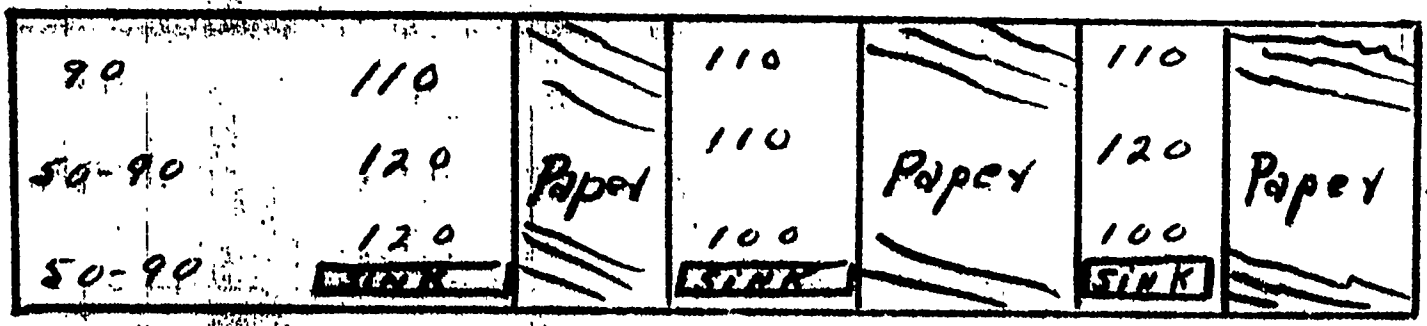
Sampling Reference

Analysis Reference

WCX-427 K-25 RC Lab. Div. Central Files

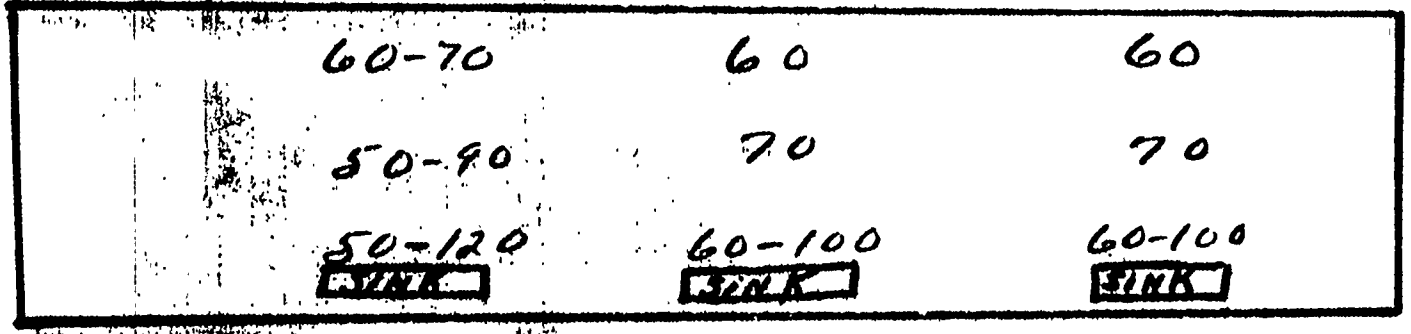
D.L. Standard

Diagram



Front of Hood

Figures over sinks And West End Represents Point of Test And Air flow in Linear ft./Min. with paper covering part of hood opening.



Front of Hood

Some tests were Made in Lower Diagram Without paper Covering. Made no difference in Airflow rates.

Works Laboratory Department
Industrial Hygiene Section

Report Number HA-3352

Copy Number 1

Service Report

Date of Service Trip 10-3-51

Location: Building K-1024 Room or Area 22

L.F.Lieber

Samples Taken Air flow rates for hood along north wall of room

Reason for Service Trip Special investigation

Sampling Positions and Analyses Tests were made first with paper fastened up at certain points along front og hood, and second with paper down. For results and diagram , see attached sheet.

Remarks Test were made to determine the effect of covering a part of hood opening on air flow rate for hood,

Supervisor T. Kusnetz Date 10-8-51

Sampling Reference

Analysis Reference

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 3381

Copy Number _____

Service Report

Date of Service Trip 10/22/51 1:10 p. m.

Location: Building K-1024 Room or Area 22, 20, 19, and 5

L. F. Lieber

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses All analyses were made at face level as follows:

Room 22, 6 determinations: all 0.00 mg Hg/cu. meter

Room 20, 6 " all 0.00 mg Hg/cu. meter

Room 19, 9 " all 0.00 mg Hg/cu. meter

Room 5, 4 " all 0.00 mg Hg/cu. meter

Remarks Normal operations were in progress. There were several droplets of mercury in sink in Room 22.

Supervisor T. Kwasnik Date 10/31/51

Sampling Reference _____

Analysis Reference _____

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 3432

Copy Number 1

Service Report

Date of Service Trip 11-13/51 2:20 p. m.

Location: Building K-1401 Room or Area Cleaning

E. C. Bollinger

Samples Taken Air analysis for trichloroethylene

Reason for Service Trip Routine inspection

Sampling Positions and Analyses Face level along north side of old degreaser. The results between 2:20 and 2:40 p. m., showed a general concentration of TCE of less than 75 ppm. There was 1 surge occurred during the analysis period of 500-800 ppm. This concantration lasted for less than 1 minute and occurred when a large pg pipe was lowered into degreaser.

Remarks Normal operations were in progress. The Halide Leake Detector was used for the analysis.

Supervisor T. Kwasnoski Date 11/20/51

Sampling Reference

Analysis Reference

WCX-427 K-25 RC Lab. Div. Central Files

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 3002

Copy Number 1

Service Report

Date of Service Trip 10-9-50 2:50 - 3:15 p.m.

Location: Building K-1024 Room or Area Rooms 10, 11, 13, 14, 15 and 16

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses See attached sheet

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwasnoski Date 10-10-50

Sampling Reference

Analysis Reference

WCX-427 K-25 RC Lab. Div. Central Files

The analyses were made at face level in the indicated positions and results are reported in mg Hg / cu meter.

Room 10

North end of the room: 0.00
Center of the room: 0.00
South end of the room: 0.00

Room 16

The hall side wall was removed from this room.
Throughout the area: 0.00

Room 15

North end of the room: 0.00
Center of the room: 0.00
South end of the room: 0.00

Room 14

Throughout the room: 0.00

Room 13

North end of the room: 0.00
Center of the room: 0.00
South end of the room: 0.00

Room 11

East side of the room: 0.00
West side of the room: 0.00

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2977

Copy Number 1

Service Report

Date of Service Trip 9-25-50 2:00 p.m. to 3:30 p.m.

Location: Building K-1024 Room or Area Rooms 4, 7, 10, 12, 13, 14

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses See attached sheet

Remarks Normal operations were in progress. Droplets of mercury were noticed on the bench top in the south side of room 7.

Supervisor T. Kwasnoski Date 9-28-50

Sampling Reference

Analysis Reference

The following are results of analyses which were made at face level and calculated as mg Hg / cu meter.

Room 4

North side: 0.00
Center: 0.00
South side: 0.00

Room 7

North side: 0.02
Center: 0.04
South side: 0.04

Room 10

North side: 0.00
Center: 0.00
South side: 0.00

Room 12

North side: 0.06
Center: 0.06
South side: 0.06

Room 13

West side: 0.00
Center: 0.00
East side: 0.00

Room 14

North side: 0.00
Center: 0.00
South side: 0.00

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2916

Laboratory Central Files K25RC

Copy Number 1

Service Report

Date of Service Trip 8-9-50 3:00 p.m.

Location: Building K-1024 Room or Area Rooms 4, 7, 10, 13 and 14

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses See attached sheet

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwasnoski Date 8-21-50

Sampling Reference

Analysis Reference

wcx-427

The analyses were made at face level and are reported as mg Hg / cu meter

Results of Analyses:

Room 4

North end: 0.00
Center: 0.00
South end: 0.00

Room 7

North end: 0.04
Center: 0.04
South end: 0.04

Room 10

North end: 0.00
Center: 0.00
South end: 0.00

Room 13

North end: 0.00
Center: 0.00
South end: 0.00

Room 14

East end: 0.00
Center: 0.00
West end: 0.00

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2851

Laboratory Central Files K25RC

Copy Number 1

Service Report

Date of Service Trip 7-10-50 1:30 p.m. to 3:45 p.m.

Location: Building K-1024 Room or Area Rooms 4, 7, 10, 13, 14, and 15
H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip See attached sheet

Sampling Positions and Analyses

Remarks Normal operations were in progress. Open beakers of mercury and droplets of mercury were noticed on the work benches in the north west side of room 4.

Supervisor T. Kurnovoski Date 7-17-50

Sampling Reference

Analysis Reference

wcx-427

The following analyses were made at face level and calculated as mg Hg / cu meter.

Room 4

North side: 0.00
East side: 0.00
South side: 0.00
West side: 0.00
Center: 0.00

Room 7

East side: 0.18
Center: 0.20
Northside: 0.20
West side: 0.22
South side: 0.22
Southeast corner: 0.22
Southwest corner: 0.24

Room 10

North side: 0.00
East side: 0.00
South side: 0.00
West side: 0.00
Center: 0.00

Room 13

North side: 0.00
East side: 0.00
South side: 0.00
West side: 0.00
Center: 0.00

Room 14

East side: 0.00
Center: 0.00
West side: 0.00

Room 15

North side: 0.00
East side: 0.00
South side: 0.00
West side: 0.00
Center: 0.00

Works Laboratory Department
Industrial Hygiene Section

Laboratory Central Files K25RC

Report Number HA - 2779

Copy Number 1

Service Report

Date of Service Trip 6-13-50 1:30 - 2:15 p.m.

Location: Building K-1024 Room or Area Rooms 4, 7, 10, 13, 14 and 15

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses See attached sheet

Remarks

Supervisor T. Kwasnoski Date 6-15-50

Sampling Reference

Analysis Reference

wcx-427

The following are results of analyses which were made at face level and reported as mg Hg / cu meter.

Room 4

In the north end of the room: 0.00
In the center of the room: 0.00
In the south end of the room: 0.00

No mercury spills were noticed.

Room 7

In the north end of the room: 0.00
In the center of the room: 0.00
In the south end of the room: 0.00

No mercury spills were noticed.

Room 10

In the north end of the room: 0.00
In the center of the room: 0.00
In the south end of the room: 0.02

No mercury spills were noticed.

Room 15

In the east side of the room: 0.00
In the west side of the room: 0.00

No mercury spills were noticed.

Room 14

In the approximate center of the room by the hoods: 0.00

Small mercury droplets were noticed in the sink.

Room 13

In the north end of the room: 0.00
In the center of the room: 0.00
In the south end of the room: 0.00

No mercury spills were noticed.

Works Laboratory Department
Industrial Hygiene Section

Laboratory Central Files K25RC

Report Number HA - 2716

Copy Number 1

Service Report

Date of Service Trip 5-8-50 12:45 p.m. to 2:00 p.m.

Location: Building K-1024 Room or Area Rooms 4, 7, 10, 13, 14, 15

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses See attached sheet

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwasnoski Date 5-12-50

Sampling Reference 1425 Page 89

Analysis Reference

WCX-427

The following analyses were made at face level and calculated as mg Hg / cu meter

North side of room 4: 0.00
East side of room 4: 0.00
South side of room 4: 0.00
West side of room 4: 0.00
Center of room 4: 0.00

North end of room 7: 0.00
Center of room 7: 0.00
South end of room 7: 0.00

North end of room 10: 0.00
Center of room 10: 0.00
South end of room 10: 0.00

North side of room 13: 0.00
Center of room 13: 0.00
South side of room 13: 0.00

East end of room 14: 0.00
Center of room 14: 0.00
West end of room 14: 0.00

North side of room 15: 0.00
East side of room 15: 0.00
South side of room 15: 0.00
West side of room 15: 0.00
Center of room 15: 0.00

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2664

Copy Number 1

Laboratory Central Files K25RC

Service Report

Date of Service Trip 4-11-50 9:30 a.m. to 10:45 a.m.

Location: Building K-1024 Room or Area Rooms 4, 7, 10, 13, 14, and 15

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses See attached sheet

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwasnoski Date 4-20-50

Sampling Reference 1425 Pages 74, 75

Analysis Reference

wcx-427

The below listed analyses were made at face level and calculated as mg Hg / cu meter.

North side of room 4: 0.00
East side of room 4: 0.00
South side of room 4: 0.00
West side of room 4: 0.00
Center of room 4: 0.00

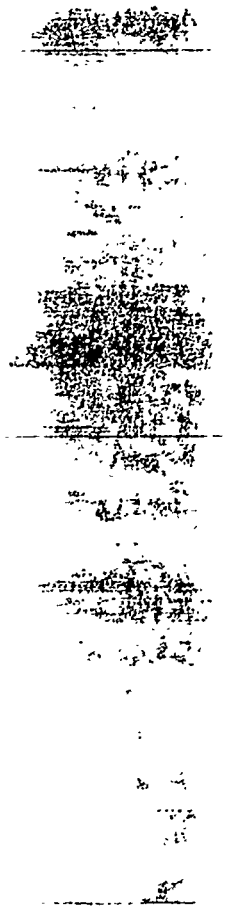
North end of room 7: 0.00
Center of room 7: 0.00
South end of room 7: 0.00

North side of room 10: 0.00
Center of room 10: 0.00
South side of room 10: 0.00

North side of room 13: 0.00
Center of room 13: 0.00
South side of room 13: 0.00

East end of room 14: 0.00
Center of room 14: 0.00
West end of room 14: 0.00

South side of room 15: 0.00
West side of room 15: 0.00
East side of room 15: 0.00
Center of room 15: 0.00
North side of room 15: 0.00



Works Laboratory Department
Industrial Hygiene Section

Laboratory Central Files K25RC

Report Number HA - 2665

Copy Number 1

Service Report

Date of Service Trip 4-11-50 9:30 a.m. to 9:40 a.m.

Location: Building K-1024 Room or Area Room 4

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses The following analyses were made in the exhaust air stream of a vacuum cleaner equipped with a hopcalite filter.

Directly at the exhaust: 0.08 mg Hg / cu meter

Three feet from the exhaust: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. The hopcalite filter had been used five hours when these analyses were made.

Supervisor T. Kwasnoski Date 4-20-50

Sampling Reference 1425 Page 75

Analysis Reference

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2594

Copy Number 1

Service Report

Date of Service Trip 3-8-50 12:40 p.m. to 2:30 p.m.

Location: Building K-1024 Room or Area Rooms 4, 7, 10, 13, 14 and 15

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses See attached sheet

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor E. B. Olszewski Date 3-9-50

Sampling Reference 1425 Pages 58, 59

Analysis Reference 1425 Pages 58, 59

wcx-427

The following air analyses for mercury were made at face level and are calculated in mg Hg / cu meter.

North side of room 4: 0.00

West side of room 4: 0.00

South side of room 4: 0.00

East side of room 4: 0.00

Center of room 4: 0.00

North end of room 7: 0.00

Center of room 7: 0.00

South end of room 7: 0.00

North side of room 10: 0.00

South side of room 10: 0.00

North side of room 13: 0.00

Center of room 13: 0.00

South side of room 13: 0.00

East side of room 14: 0.00

Center of room 14: 0.00

West end of room 14: 0.00

North side of room 15: 0.00

East side of room 15: 0.00

South side of room 15: 0.00

West side of room 15: 0.00

Center of room 15: 0.00

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2575

Copy Number 1

Service Report

Date of Service Trip 2-23-50 9:30 a.m. - 10:45 a.m.

Location: Building K-1024 Room or Area Rooms 4, 7, 10, 13, 14, and 15
H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses See attached sheet

Remarks

Supervisor [signature] Date 2-27-50

Sampling Reference 1353 Pages 10, 11

Analysis Reference

WCX-427

The analyses, unless otherwise described, were made at face level. The results of analyses are reported in mg Hg / cu meter.

Room 4

In the north end of the room: 0.00
In the center of the room: 0.00
In the south end of the room: 0.00
In the east side of the room: 0.00
In the west side of the room: 0.00

No mercury spills were noticed.

The exhaust air from a vacuum cleaner which was equipped with a hopcalite filter was analyzed as follows:

Directly at the exhaust part: 0.1 mg Hg / cu meter
Approximately three feet from the exhaust part: 0.00 mg Hg / cu meter
Approximately 5 feet from the exhaust part: 0.00 mg Hg / cu meter

The filter in the vacuum cleaner had been used for a total of 3½ hours when the analyses were made.

Room 7

In the north end of the room: 0.00
In the south end of the room: 0.00

No mercury spills were noticed.

Room 10

In the north end of the room: 0.00
In the south end of the room: 0.00
In the center of the room: 0.00

Droplets of mercury were noticed under the work bench in the north end of the room.

Room 13

In the north end of the room: 0.00
In the center of the room: 0.00
In the south end of the room: 0.00
In the east side of the room: 0.00
In the west side of the room: 0.00

No mercury spills were noticed.

Room 14

In the east end of the room: 0.00
In the west end of the room: 0.00

No mercury spills were noticed.

Room 15

In the north side of the room: 0.00
In the south side of the room: 0.00

No mercury spills were noticed.

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2486

Copy Number 1

Service Report

Date of Service Trip 1-10-50 12:30 p.m. to 2:15 p.m.

Location: Building K-1024 Room or Area Rooms 4, 7, 10, 13, 14, 15
H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses See attached sheet

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwasnoski Date 1-16-50

Sampling Reference 1425 Page 37

Analysis Reference

wcx-427

Face level in the north side of room 4: 0.00 mg Hg / cu meter

Face level in the west side of room 4: 0.00 mg Hg / cu meter

Face level in the south side of room 4: 0.00 mg Hg / cu meter

Face level in the east side of room 4: 0.00 mg Hg / cu meter

Face level in the center of room 4: 0.00 mg Hg / cu meter

Face level in the north end of room 7: 0.00 mg Hg / cu meter

Face level in the center of room 7: 0.00 mg Hg / cu meter

Face level in the south end of room 7: 0.00 mg Hg / cu meter

Face level in the north end of room 10: 0.00 mg Hg / cu meter

Face level in the center of room 10: 0.00 mg Hg / cu meter

Face level in the south end of room 10: 0.00 mg Hg / cu meter

Face level in the north end of room 13: 0.00 mg Hg / cu meter

Face level in the center of room 13: 0.00 mg Hg / cu meter

Face level in the south end of room 13: 0.00 mg Hg / cu meter

Face level in the east end of room 14: 0.00 mg Hg / cu meter

Face level in the center of room 14: 0.02 mg Hg / cu meter

Face level in the west end of room 14: 0.02 mg Hg / cu meter

Face level in the east side of room 15: 0.00 mg Hg / cu meter

Face level in the north side of room 15: 0.00 mg Hg / cu meter

Face level in the south side of room 15: 0.00 mg Hg / cu meter

Face level in the west side of room 15: 0.00 mg Hg / cu meter

Face level in the center of room 15: 0.00 mg Hg / cu meter

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2460

Copy Number 1

Service Report

Date of Service Trip 12-27-49 1:00 p.m.

Location: Building K-1024 Room or Area Rooms # 4, 7, 10, 13, 14 and 15

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses See attached sheet

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kuroosaki Date 1-3-50

Sampling Reference 941 Pages 98, 99

Analysis Reference

wcx-427

Face level in the south end of room #4: 0.00 mg Hg / cu meter

Face level in the center of room #4: 0.00 mg Hg / cu meter

Face level in the north end of room #4: 0.00 mg Hg / cu meter

The two following analyses were made by the special vacuum cleaner with the hopcalite filter attached. Analyses were made as the cleaner was operating. Approximately 2 hours use was shown on the timer on the cleaner.

Approximately 3 feet from the exhaust of the cleaner: 0.04 mg Hg / cu meter
Immediately in the exhaust from the cleaner: 0.14 mg Hg / cu meter

Face level in the south end of room #7: 0.00 mg Hg / cu meter

Face level in the center of room #7: 0.00 mg Hg / cu meter

Face level in the north end of room #7: 0.00 mg Hg / cu meter

Face level in the south end of room #10: 0.02 mg Hg / cu meter

Face level in the center of room #10: 0.02 mg Hg / cu meter

Face level in the north end of room #10: 0.02 mg Hg / cu meter

Face level in the south end of room #13: 0.00 mg Hg / cu meter

Face level in the center of room #13: 0.00 mg Hg / cu meter

Face level in the north end of room #13: 0.00 mg Hg / cu meter

Face level in the east end of room #14: 0.00 mg Hg / cu meter

Face level in the center of room #14: 0.00 mg Hg / cu meter

Face level in the west end of room #14: 0.00 mg Hg / cu meter

Face level in the east end of room #15: 0.00 mg Hg / cu meter

Face level in the center of room #15: 0.00 mg Hg / cu meter

Face level in the west end of room #15: 0.00 mg Hg / cu meter

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2314

Copy Number 1

Service Report

Date of Service Trip 10-5-49 2:30 - 3:00 p.m.

Location: Building K-1024 Room or Area Rooms #13 and 14

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in aisle #1 of room #13: 0.00 mg Hg / cu meter

Face level in aisle #2 of room #13: 0.00 mg Hg / cu meter

Face level in aisle #3 of room #13: 0.00 mg Hg / cu meter

Face level in the west end of room #14: 0.02 mg Hg / cu meter

Face level in the center of room #14: 0.00 mg Hg / cu meter

Face level in the east end of room #14: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwasnoski Date 10-7-49

Sampling Reference 941 Pages 77, 78

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2313

Copy Number 1

Service Report

Date of Service Trip 10-5-49 2:10 - 2:30 p.m.

Location: Building K-1024 Room or Area Rooms #7 and 10

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the south end of room #7: 0.00 mg Hg / cu meter

Face level in the center of room #7: 0.00 mg Hg / cu meter

Face level in the north end of room #7: 0.00 mg Hg / cu meter

Face level in the south end of room #10: 0.02 mg Hg / cu meter

Face level in the center of room #10: 0.02 mg Hg / cu meter

Face level in the north end of room #10: 0.02 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwasnoske Date 10-7-49

Sampling Reference 941 Page 77

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2315

Copy Number 1

Service Report

Date of Service Trip 10-5-49 2:00 - 2:10 p.m.

Location: Building K-1024 Room or Area Room #4

H. R. House

Samples Taken Air analysis for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the south end of the room: 0.00 mg Hg / cu meter

Face level in the center of the room: 0.00 mg Hg / cu meter

Face level in the north end of the room: 0.00 mg Hg / cu meter

Approximately 3 feet from the exhaust of the hopcalite filled vacuum cleaner: 0.04 mg Hg / cu meter

Approximately 1 foot from the exhaust of the vacuum cleaner: 0.06 mg Hg / cu meter

Immediately in the exhaust of the vacuum cleaner: 0.12 mg Hg / cu meter

Remarks Normal operations were in progress. The vacuum cleaner was running while the analyses were made.

Supervisor T. Kurosaki Date 10-7-49

Sampling Reference 941 Pages 77, 78

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2280

Copy Number 1

Service Report

Date of Service Trip 9-14-49 9:15 a.m. to 10:20 a.m.

Location: Building K-1024 Room or Area Rooms 7, 10

H. R. House

Samples Taken Air analysis for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the north end of room 7: 0.00 mg Hg / cu meter

Face level in the center of room 7: 0.00 mg Hg / cu meter

F ace level in the south end of room 7: 0.00 mg Hg / cu meter

Face level in the north end of room 10: 0.00 mg Hg / cu meter

Face level in the center of room 10: 0.00 mg Hg / cu meter

Face level in the south end of room 10: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwasnoski Date 9-19-49

Sampling Reference 1425 Page 4

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2281

Copy Number 1

Service Report

Date of Service Trip 9-14-49 9:15 a.m. to 10:20 a.m.

Location: Building K-1024 Room or Area Rooms 13, 14

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the east end of room 13: 0.00 mg Hg / cu meter

Face level in the center of room 13: 0.00 mg Hg / cu meter

Face level in the west end of room 13: 0.00 mg Hg / cu meter

Face level in the north side of room 14: 0.00 mg Hg / cu meter

Face level in the center of room 14: 0.00 mg Hg / cu meter

Face level in the south side of room 14: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwasnoski Date 9-19-49

Sampling Reference 1425 Page 4

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2282

Copy Number 1

Service Report

Date of Service Trip 9-14-49 9:15 a.m. to 10:20 a.m.

Location: Building K-1024 Room or Area Room 4

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the north side of room 4: 0.00 mg Hg / cu meter

Face level in the west side of room 4: 0.00 mg Hg / cu meter

Face level in the south side of room 4: 0.00 mg Hg / cu meter

Face level in the east side of room 4: 0.00 mg Hg / cu meter

Face level in the center of room 4: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kusnoobe Date 9-19-49

Sampling Reference 1425 Page 4

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2283

Copy Number 1

Service Report

Date of Service Trip 9-14-49 9:15 a.m. to 10:20 a.m.

Location: Building K-1024 Room or Area Room 15

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the east end of room 15: 0.00 mg Hg / cu meter

Face level in the south end of room 15: 0.00 mg Hg / cu meter

Face level in the west end of room 15: 0.00 mg Hg / cu meter

Face level in the north end of room 15: 0.00 mg Hg / cu meter

Face level in the center of room 15: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwasnoski Date 9-19-49

Sampling Reference 1425 Page 4

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2285

Copy Number 1

Service Report

Date of Service Trip 9-14-49 9:05 a.m. to 9:15 a.m.

Location: Building K-1024 Room or Area Room #4

H. R. House

Samples Taken Air analysis for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses: These analyses were made in the exhaust stream of an operating vacuum cleaner which was equipped with a Hopcalite filter.

Five feet from the exhaust: 0.12 mg Hg / cu meter

Three feet from the exhaust: 0.24 mg Hg / cu meter

One foot from the exhaust: 0.64 mg Hg / cu meter

One inch from the exhaust: greater than 3.0 mg Hg / cu meter

Remarks Normal operations were in progress. The vacuum cleaner had been decontaminated and repacked with hopcalite immediately before the analyses were made. Running Time: 0.00 hours.

Supervisor T. Kawasaki Date 9-19-49

Sampling Reference 1425 Page 4

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2240

Copy Number 1

Service Report

Date of Service Trip 8-10-49 9:30 a.m. - 9:45 a.m.

Location: Building K-1024 Room or Area Room 4

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses Air analyses for mercury were made at the exhaust of a vacuum cleaner equipped with a hopcalite filter.

Five inches from the exhaust: greater than 3.0 mg Hg / cu meter

One foot from the exhaust: 0.32 mg Hg / cu meter

Two feet from the exhaust: 0.24 mg Hg / cu meter

Remarks Normal operations were in progress.

Supervisor T. Kwasnoski Date 8-16-49

Sampling Reference 925 Page 138

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2231

Copy Number 1

Service Report

Date of Service Trip 8-9-49 9:15 a.m. to 10:05 a.m.

Location: Building K-1024 Room or Area Rooms 10, 13

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the north side of room 10: 0.00 mg Hg / cu meter

Face level in the center of room 10: 0.00 mg Hg / cu meter

Face level in the south side of room 10: 0.00 mg Hg / cu meter

Face level in the east end of room 13: 0.00 mg Hg / cu meter

Face level in the center of room 13: 0.00 mg Hg / cu meter

Face level in the west end of room 13: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwasnoski Date 8-16-49

Sampling Reference 925 Pages 137, 138

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2229

Copy Number 1

Service Report

Date of Service Trip 8-9-49 9:15 a.m. to 10:05 a.m.

Location: Building K-1024 Room or Area Room 14

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the north side of room 14: 0.00 mg Hg / cu meter

Face level in the center of room 14: 0.00 mg Hg / cu meter

Face level in the south side of room 14: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kusnosaki Date 8-16-49

Sampling Reference 925 Pages 137, 138

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2228

Copy Number 1

Service Report

Date of Service Trip 8-9-49 9:15 to 10:05 am.

Location: Building K-1024 Room or Area Rooms 4, 7

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the north side of room 4: 0.00 mg Hg / cu meter

Face level in the center of room 4: 0.00 mg Hg / cu meter

Face level in the south side of room 4: 0.00 mg Hg / cu meter

Face level in the north side of room 7: 0.00 mg Hg / cu meter

Face level in the center of room 7: 0.00 mg Hg / cu meter

Face level in the south side of room 7: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kitamoto Date 8-16-49

Sampling Reference 925 Pages 137, 138

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2202

Copy Number 1

Service Report

Date of Service Trip 7-20-49 9:30 a.m.

Location: Building K-1024 Room or Area Room 14

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the north end of the room: 0.00 mg Hg / cu meter

Face level in the center of the room: 0.00 mg Hg / cu meter

Face level in the south end of the room: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwasowski Date 7-25-49

Sampling Reference 925 Pages 130, 131

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2200

Copy Number 1

Service Report

Date of Service Trip 7-20-49 9:30 a.m.

Location: Building K-1024 Room or Area Rooms 10, 13

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the south end of room 10: 0.00 mg Hg / cu meter

Face level in the center of room 10: 0.00 mg Hg / cu meter

Face level in the north end of room 10: 0.00 mg Hg / cu meter

Face level in the east end of room 13: 0.00 mg Hg / cu meter

Face level in the center of room 13: 0.00 mg Hg / cu meter

Face level in the west end of room 13: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwasnoski Date 7-25-49

Sampling Reference 925 Pages 130, 131

Analysis Reference

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2199

Copy Number 1

Service Report

Date of Service Trip 7-20-49 9:30 a.m.

Location: Building K-1024 Room or Area Rooms 4, 7

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the north end of room 4: 0.00 mg Hg / cu meter

Face level in the center of room 4: 0.00 mg Hg / cu meter

Face level in the south end of room 4: 0.00 mg Hg / cu meter

Face level in the north end of room 7: 0.00 mg Hg / cu meter

Face level in the center of room 7: 0.00 mg Hg / cu meter

Face level in the south end of room 7: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kuwanoshi Date 7-25-49

Sampling Reference 925 Pages 130, 131

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2201

Copy Number 1

Service Report

Date of Service Trip 7-20-49 9:30 a.m.

Location: Building K-1024 Room or Area Room 4

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses Air analyses for mercury were made in the exhaust stream of a hopcalite equipped vacuum cleaner after three hours use:

3 feet from the exhaust: 0.12 mg Hg / cu meter

2 feet from the exhaust: 0.60 mg Hg / cu meter

1 foot from the exhaust: greater than 3.0 mg Hg / cu meter

Remarks Normal operations were in progress.

Supervisor T. Kusnoaki Date 7-25-49

Sampling Reference 925 Page 131

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2137

Copy Number 1

Service Report

Date of Service Trip 6-7-49 9:45 a.m.

Location: Building K-1024 Room or Area Rooms 10, 13

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the south side of room #10: 0.00 mg Hg / cu meter

Face level in the center of room #10: 0.00 mg Hg / cu meter

Face level in the north side of room #10: 0.00 mg Hg / cu meter

Face level in the east end of room #13: 0.00 mg Hg / cu meter

Face level in the center of room #13: 0.00 mg Hg / cu meter

Face level in the west end of room #13: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. Mercury spill was noticed on the outer ledge of the sink on the east side of the room.

Supervisor T. Kuroyanagi Date 6-7-49

Sampling Reference 925 Pages 112, 113

Analysis Reference

WEX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2135

Copy Number 1

Service Report

Date of Service Trip 6-7-49 9:45 a.m.

Location: Building K-1024 Room or Area Rooms 4, 7

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses Face level in the north side of room #4: 0.00 mg Hg / cu met

Face level in the east side of room #4: 0.00 mg Hg / cu meter

Face level in the west side of room #4: 0.00 mg Hg / cu meter

Face level in the south side of room #4: 0.00 mg Hg / cu meter

Face level in the center of room #4: 0.00 mg Hg / cu meter

Face level in the north side of room #7: 0.00 mg Hg / cu meter

Face level in the center of room #7: 0.00 mg Hg / cu meter

Face level in the south side of room #7: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwapnoski Date 6-8-49

Sampling Reference 925 Pages 112, 113

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2136

Copy Number 1

Service Report

Date of Service Trip 6-7-49 9:45 a.m.

Location: Building K-1024 Room or Area Room #14

H. R. House

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the south side of the room: 0.00 mg Hg / cu meter

Face level in the west side of the room: 0.00 mg Hg / cu meter

Face level in the north side of the room: 0.00 mg Hg / cu meter

Face level in the center of the room: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwasnoski Date 6-8-49

Sampling Reference 925 Pages 112, 113

Analysis Reference

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2125

Copy Number 1

Service Report

Date of Service Trip 5-19-49

Location: Building K-1024 Room or Area Rooms #4, and # 7

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the south end of room #4: 0.00 mg Hg / cu meter

Face level in the center of room #4: 0.02 mg Hg / cu meter

Face level in the north end of room #4: 0.02 mg Hg / cu meter

Face level throughout room #7: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kusnetz Date 5-25-49

Sampling Reference 941 Page 46

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2124

Copy Number 1

Service Report

Date of Service Trip 5-19-49

Location: Building K-1024 Room or Area Rooms #10, 13, 14

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the south end of room #10: 0.00 mg Hg / cu meter

Face level in the center of room #10: 0.00 mg Hg / cu meter

Face level in the north end of room #10: 0.02 mg Hg / cu meter

Face level in aisle #1 of room #13: 0.02 mg Hg / cu meter

Face level in aisle #2 of room #13: 0.02 mg Hg / cu meter

Face level in aisle #3 of room #13: 0.02 mg Hg / cu meter

Face level throughout room #14: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwasnoski Date 5-25-49

Sampling Reference 941 Page 46

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2116

Copy Number 1.

Service Report

Date of Service Trip 5-18-49 1:25 p.m.

Location: Building K-1024 Room or Area Room #4

E. K. Mayer

Samples Taken Air samples for hydrogen fluoride and uranium analyses

Reason for Service Trip Routine inspection

Sampling Positions and Analyses 1:25 p.m.: Immediately in the path of "smoke" from copper tube connected to contaminated absolute pressure transmitter:

2.6 ppm HF

NT 0.10 mg U / cu meter

1:27 p.m.: About three feet above absolute pressure transmitter after seal was cut: 0.0 ppm HF

0.07 mg U / cu meter

Remarks Normal operations were in progress. Fine stream of smoke emitted from copper tubing immediately after seal was cut.

Supervisor T. Kwasnoski Date 5-20-49

Sampling Reference 925 Page 106

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2112

Copy Number 1

Service Report

Date of Service Trip 5-17-49 10:25 a.m.

Location: Building K-1024 Room or Area In the Lot Outside the Southwest Corner of Room #4

E. K. Mayer

Samples Taken Air samples for uranium and hydrogen fluoride analyses

Reason for Service Trip Special investigation

Sampling Positions and Analyses

Immediately in the path of UF_6 "smoke" coming from a copper tube connected to a contaminated absolute pressure transmitter: 3 mg U / cu meter

10.03 ppm as HF

Approximately 3 feet away from the above transmitter in the path of the air movement across it: 0.00 mg U / cu meter

0.0 ppm as HF

Remarks A slight breeze was blowing when the above samples were taken.

Supervisor T. Kuwamoto Date 5-19-49

Sampling Reference 941 Page 44

Analysis Reference 1092 Page 60

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2104

Copy Number 1

Service Report

Date of Service Trip 5-10-49

Location: Building K-1024 Room or Area Room 4

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses The analyses were made in the exhaust stream of a vacuum cleaner which was equipped with a hopcalite filter.

In the exhaust stream, 6 ft. from the cleaner: 0.00 mg Hg / cu meter

In the exhaust stream, 3 ft. from the cleaner: 0.06 mg Hg / cu meter

In the exhaust stream 2 ft. from the cleaner: 0.10 mg Hg / cu meter

In the exhaust stream 1 ft. from the cleaner: 0.20 mg Hg / cu meter

In the exhaust stream immediately behind the exhaust part: 0.45 mg Hg / cu meter

Remarks The hopcalite filter had been in use 13¼ hours when the analyses were made.

Supervisor T. Kwasnoski Date 5-13-49

(Replaces reported dated 5/12/49

Sampling Reference 1353 Page 1

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2075

Copy Number 1

Service Report

Date of Service Trip 4-13-49

Location: Building K-1024 Room or Area Rooms 10, 13 and 14

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the north end of room #10: 0.00 mg Hg / cu meter

Face level in the south end of room #10: 0.00 mg Hg / cu meter

Inside of the drying oven in the north end of room #10: 0.00 mg Hg / cu meter

Face level in the center of room #14: 0.00 mg Hg / cu meter

Face level in the center of aisle #1, room #13: 0.02 mg Hg / cu meter

Face level in the center of aisle #2; room #13: 0.02 mg Hg / cu meter

Face level in the north end of room #13: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwasnoski Date 4-14-49

Sampling Reference 594 Page 149

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2076

Copy Number 1

Service Report

Date of Service Trip 4-13-49

Location: Building K-1024 Room or Area Rooms #4 and #7

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the north end of room #4; 0.01 mg Hg / cu meter

Face level in the south end of room #4: 0.00 mg Hg / cu meter

Face level in the approximate center of room #7: 0.02 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwasnoski Date 4-14-49

Sampling Reference 594 Page 150

Analysis Reference

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2059

Copy Number 1

Service Report

Date of Service Trip 3-24-49

Location: Building K-1024 Room or Area Rooms #4 and 7

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the south end of room #4: 0.00 mg Hg / cu meter

Face level in the center of room #4: 0.00 mg Hg / cu meter

Face level in the north end of room #4: 0.00 mg Hg / cu meter

Face level in the south end of room #7: 0.02 mg Hg / cu meter

Face level in the center of room #7: 0.02 mg Hg / cu meter

Face level in the north end of room #7: 0.02 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Tuscano Date 3-28-49

Sampling Reference 941 Page 36

Analysis Reference

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2060

Copy Number 1

Service Report

Date of Service Trip 3-24-49

Location: Building K-1024 Room or Area Rooms 10 and 13

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the north end of room 10: 0.00 mg Hg / cu meter

Face level in the south end of room 10: 0.00 mg Hg / cu meter

Face level in aisle #1, room 13: 0.00 mg Hg / cu meter

Face level in aisle #2, room 13: 0.00 mg Hg / cu meter

Face level in aisle #3, room 13: 0.00 mg Hg / cu meter

Face level by the hood in room 14: 0.00 mg Hg / cu meter

Remarks **Normal operations were in progress. No mercury spills were noticed.**

Supervisor T. Kwasnoski Date 3-28-49

Sampling Reference 594 Page 146

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2048

Copy Number 1

Service Report

Date of Service Trip 3-10-49

Location: Building K-1024 Room or Area Room #14

R. M. Williams

Samples Taken Air analyses for H_2SO_4, HCl, HNO_3, H_3PO_4, HF, trichloroethylene, benzene, and acetone. NT NT NT NT NT NT

Reason for Service Trip Special investigation

Sampling Positions and Analyses See attached sheet

Remarks The analyses were made during normal cleaning operations. All operations except degreasing with trichloroethylene and washing with acetone were carried out under the hood.

Supervisor T. Kwasnoski Date 3-11-49

Sampling Reference 594 Page 144

Analysis Reference

WCX-427

The e yses were made at face level by the operator

Contaminant	Number of Determinations	Highest Determination	Lowest Determination	Average Determination	Operation Progress
H_2SO_4	1	less than 10 ppm	less than 10 ppm	less than 10 ppm	Cleaning a brass Plate
HCl	1	less than 10 ppm	less than 10 ppm	less than 10 ppm	Cleaning a Stainless Steel Y Tube
HNO_3	1	less than 10 ppm	less than 10 ppm	less than 10 ppm	Cleaning a Stainless Steel Y Tube
H_3PO_4	1	less than 10 ppm	less than 10 ppm	less than 10 ppm	Electro-Polishing
HF	1	0.0 ppm	0.0 ppm	0.0 ppm	Cleaning a Glass Tube
Trichloroethylene	6	10 ppm	less than 5 ppm	7 ppm	Cleaning a Glass Tube
Benzene	2	0. ppm	0. ppm	0. ppm	Cleaning a Y Tube
Acetone	2	68. ppm	0. ppm	40. ppm	Washing a Brass Plate

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2049

Copy Number 1

Service Report

Date of Service Trip 3-9-49

Location: Building K-1024 Room or Area Room #14

R. M. Williams

Samples Taken Air analyses for H_2SO_4, HCl, HNO_3, H_3PO_4, HF, trichloroethylene, benzene and acetone

Reason for Service Trip Special investigation

Sampling Positions and Analyses See attached sheet

Remarks All of the analyses listed on the attached sheet were made during normal cleaning operations. All operations except degreasing with trichloroethylene were carried out under a hood.

Supervisor T. Kwapnoski Date 3-11-49

Sampling Reference 941 Page 34

Analysis Reference 941 Page 34

wcx-427

The following analyses were made at face level to the operator

Contaminant	Number of Determinations	Highest Determination	Lowest Determination	Average Determination	Operation in Progress
H_2SO_4	1	less than 10 ppm	less than 10 ppm	less than 10 ppm	Cleaning a Copper Plate
HCl	2	less than 10 ppm	less than 10 ppm	less than 10 ppm	Cleaning a Metal Part
HNO_3	2	less than 10 ppm	less than 10 ppm	less than 10 ppm	Cleaning a Copper Tube
H_3PO_4	1	less than 10 ppm	less than 10 ppm	less than 10 ppm	Electro-Polishing
HF	2	0.0 ppm	0.0 ppm	0.0 ppm	Cleaning a glass tube
Trichloroethylene	11	22 ppm	less than 5 ppm	13 ppm	Cleaning a glass part
Benzene	3	0. ppm	0. ppm	0. ppm	Cleaning a Y Tube
Acetone	3	0. ppm	0. ppm	0. ppm	Washing a part from a line recorder

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2011

Copy Number 1

Service Report

Date of Service Trip 2-16-49

Location: Building K-1024 Room or Area Room 14

R. M. Williams

Samples Taken Air analysis for acid (HNO_3) vapor

Reason for Service Trip Special investigation

Sampling Positions and Analyses

Face level by the operator: less than 10 ppm HNO_3

Remarks Small parts were being washed in nitric acid solution when the analysis was made. The operation was carried on under the hood.

Supervisor T. Kwasnoski Date 2-18-49

Sampling Reference 594 Page 141

Analysis Reference

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2013

Copy Number 1

Service Report

Date of Service Trip 2-16-49

Location: Building K-1024 Room or Area Room 14

R. M. Williams

Samples Taken Air sample for hydrogen fluoride analysis

Reason for Service Trip Special investigation

Sampling Positions and Analyses

Face level by the operator: 0.0 ppm HF

Remarks The operator was decontaminating a small nichrome part with hydrofluoric acid when the sample was taken. The operation was carried on under the hood.

Supervisor T. Iwasaki Date 2-18-49

Sampling Reference 594 Page 141

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2008

Copy Number 1

Service Report

Date of Service Trip 2-16-49

Location: Building K-1024 Room or Area Room 14

R. M. Williams

Samples Taken Air analysis for nitrite nitrogen

Reason for Service Trip Special investigation

Sampling Positions and Analyses

Face level by the operator: less than 10 ppm nitrite nitrogen

Remarks Small brass parts were being washed in nitric acid solution when the analysis was made. The operation was carried out under the hood.

Supervisor T. Kwasnoske Date 2-18-49

Sampling Reference 594 Page 141

Analysis Reference

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2010

Copy Number 1

Service Report

Date of Service Trip 2-16-49

Location: Building K-1024 Room or Area Rooms #10, 13 and 14

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in aisle #1 of room #13: 0.02 mg Hg / cu meter

Face level by the sink in aisle #1 of room #13: 0.08 mg Hg / cu meter

Face level in aisle #2 of room #13: 0.00 mg Hg / cu meter

Face level in aisle #3 of room #13: 0.00 mg Hg / cu meter

Face level in the east end of room #14: 0.06 mg Hg / cu meter

Face level in the west end of room #14: 0.06 mg Hg / cu meter

Face level in the south end of room #10: 0.00 mg Hg / cu meter

Face level in the center of room #10: 0.00 mg Hg / cu meter

Face level in the north end of room #10: 0.02 mg Hg / cu meter

REMARKS: Normal operations were in progress. Mercury was noticed in the sink in room #13.

Supervisor T. Kusanobu Date 2-18-49

Sampling Reference 941 Page 29

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2009

Copy Number 1.

Service Report

Date of Service Trip 2-16-49

Location: Building K-1024 Room or Area Rooms #4 and #7

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the south end of room #4: 0.00 mg Hg / cu meter

Face level in the center of room #4: 0.00 mg Hg / cu meter

Face level in the north end of room #4: 0.00 mg Hg / cu meter

Face level in the south end of room #7: 0.02 mg Hg / cu meter

Face level in the center of room #7: 0.04 mg Hg / cu meter

Face level in the north end of room #7: 0.04 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwasnoski Date 2-18-49

Sampling Reference 941 Page 29

Analysis Reference

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2006

Copy Number 1

Service Report

Date of Service Trip 2-15-49

Location: Building K-1024 Room or Area Room 14

R. M. Williams

Samples Taken Air analyses for acid (H_2SO_4) vapor

NT

Reason for Service Trip Special investigation

Sampling Positions and Analyses

Face level by the operator: less than 10 ppm H_2SO_4

Remarks The operator was decontaminating a metal cabinet with dilute sulfuric acid when the analysis was made. The operation was not carried on under the hood.

Supervisor T. Kurtzman Date 2-18-49

Sampling Reference 594 Page 140

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 2012

Copy Number 1

Service Report

Date of Service Trip 2-15-49

Location: Building K-1024 Room or Area Room #14

R. M. Williams

Samples Taken Air analyses for benzene

Reason for Service Trip Special investigation

Sampling Positions and Analyses

Face level by the hood in the west end of the room: 0 ppm benzene

Remarks Benzene in a small beaker, was being used to wash a metal part. The operation was carried out under the hood.

Supervisor T. Kurnoske Date 2-18-49

Sampling Reference 594 Page 140

Analysis Reference

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 1971

Copy Number 1

Service Report

Date of Service Trip 1-7-49

Location: Building K-1024 Room or Area Rooms 4, 7

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level throughout room #4: 0.00 mg Hg / cu meter

Face level throughout room #7: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor E. B. Olszewski Date 1-10-49

Sampling Reference 925 Page 85

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 1970

Copy Number 1

Service Report

Date of Service Trip 1-7-49

Location: Building K-1024 Room or Area Rooms 10, 13, 14

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level throughout room #10: 0.00 mg Hg / cu meter

Face level throughout room #13: 0.00 mg Hg / cu meter

Face level throughout room #14: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. A mercury spill was noticed on a machine top in the north end of room #14.

Supervisor E. B. Olszewski Date 1-10-49

Sampling Reference 925 Page 85

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 1964

Copy Number 1

Service Report

Date of Service Trip 1-4-49

Location: Building K-1024 Room or Area Room #4

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses The analyses were made in the exhaust stream of a vacuum cleaner equipped with a hopcalite filter.

Six feet from the exhaust opening: 0.02 mg Hg / cu meter

Three feet from the exhaust opening: 0.06 mg Hg / cu meter

At the exhaust opening: 0.14 mg Hg / cu meter

Remarks The timer on the vacuum cleaner indicated approximately eight hours use when the analyses were made.

Supervisor T. Kitsonoki Date 1-5-49

Sampling Reference 925 Page 84

Analysis Reference

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 1935

Copy Number 1

Service Report

Date of Service Trip 12-8-48

Location: Building K-1024 Room or Area Rooms 4, 7

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the center of room #4: 0.02 mg Hg / cu meter

Face level in the south end of room #4: 0.04 mg Hg / cu meter

Face level throughout room #7: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwasnoski Date 12-10-48

Sampling Reference 925 Page 74

Analysis Reference 925 Page 74

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 1934

Copy Number 1

Service Report

Date of Service Trip 12-8-48

Location: Building K-1024 Room or Area Rooms 10, 13, 14

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level throughout room 14: 0.00 mg Hg / cu meter

Face level throughout room 13: 0.00 mg Hg / cu meter

Face level throughout room 10: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kusanoski Date 12-10-48

Sampling Reference 925 Page 74

Analysis Reference 925 Page 74

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 1908

Copy Number 1

Service Report

Date of Service Trip 11-16-48

Location: Building K-1024 Room or Area Rooms 10, 13 and 14

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in aisle #1 room 13: 0.00 mg Hg / cu meter ✓

Face level in aisle #2 room 13: 0.00 mg Hg / cu meter

Face level in aisle #3 room 13: 0.00 mg Hg / cu meter

Face level in room #14: 0.00 mg Hg / cu meter

Face level in the north end of room #10: 0.00 mg Hg / cu meter

Face level in the south end of room #10: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwasnoski Date 11-17-48

Sampling Reference 594 Page 123

Analysis Reference

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 1909

Copy Number 1.

Service Report

Date of Service Trip 11-16-48

Location: Building K-1024 Room or Area Rooms 4 and 7

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in room #7: 0.00 mg Hg / cu meter

Face level in the north end of room #4: 0.00 mg Hg / cu meter

Face level in the south end of room #4: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwoonsoki Date 11-17-48

Sampling Reference 594 Page 124

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 1897

Copy Number 1

Service Report

Date of Service Trip 11-2-48

Location: Building K-1024 Room or Area Room #4

E. M. Blacksher; R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses The following analyses were made in the path of the exhaust air from the vacuum cleaner equipped with a hopcalite filter.

Approximately 5 feet from the vacuum cleaner: 0.02 mg Hg / cu meter

Approximately 3 feet from the vacuum cleaner: 0.12 mg Hg / cu meter

Approximately 3 inches from the vacuum cleaner: 0.12 mg Hg / cu meter

Immediately behind the cleaner: 0.12 mg Hg / cu meter

Remarks The vacuum cleaner had been in use a total of 7 hours when the above analyses were made.

Supervisor T. Kwasnoski Date 11-3-48

Sampling Reference 941 Pages 17, 18

Analysis Reference

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 1868

Copy Number 1.

Service Report

Date of Service Trip 10-15-48

Location: Building K-1024 Room or Area Instrument Maintenance

G. M. Blacksher; R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses These samples were taken at designated distances from the exhaust of the vacuum cleaner after six hours of positive use.

Directly at the exhaust: 0.12 mg Hg / cu meter

Three inches from point of exhaust: 0.06 mg Hg / cu meter

One foot from point of exhaust: 0.02 mg Hg / cu meter

Five feet from point of exhaust: 0.02 mg Hg / cu meter

Remarks Normal operations were in progress.

Supervisor C. B. Alszewski Date 10-14-48

Sampling Reference 925 Pages 61, 62

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 1852

Copy Number 1

Service Report

Date of Service Trip 10-6-48

Location: Building K-1024 Room or Area Room #4

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses The analyses were made in the exhaust stream from a vacuum cleaner equipped with a Hopcalite filter.

Directly at the exhuast port: 0.03 mg Hg / cu meter

Approximately 3 inches from the vacuum cleaner: 0.03 mg Hg / cu meter

Approximately 1 ft. from the vacuum cleaner: 0.01 mg Hg / cu meter

Approximately 3 ft. from the vacuum cleaner: 0.00 mg Hg / cu meter

Approximately 5 ft. from the vacuum cleaner: 0.00 mg Hg / cu meter

Remarks The vacuum cleaner had been used five hours when the analyses were made.

Supervisor E. B. Olszewski Date 10-7-48

Sampling Reference 594 Page 113

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 1851

Copy Number 1

Service Report

Date of Service Trip 9-28-48

Location: Building K-1024 Room or Area Room #4

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Special investigation

Sampling Positions and Analyses The analyses were made in the area around a vacuum cleaner equipped with a Hopcalite filter, which had been used to clean up mercury spills.

Approximately 5 ft. from the vacuum cleaner in the exhaust stream: 0.00 mg Hg / cu meter

Approximately 3 ft. from the vacuum cleaner in the exhaust stream: 0.02 mg Hg / cu meter

At the exhaust of the vacuum cleaner: 0.1 mg Hg / cu meter

Remarks The vacuum cleaner had been used approximately 3½ hours.

Supervisor C. B. Olszewski Date 10-7-48

Sampling Reference 594 Page 113

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

SEPT.

40 W3

Report Number HA - 1840

Copy Number 1

Service Report

Date of Service Trip 9-28-48

Location: Building K-1024 Room or Area Rooms #4 and 7

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the north end of room #4: 0.00 mg Hg / cu meter

Face level in the south end of room #4: 0.00 mg Hg / cu meter

Face level in the center of room #7: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwasnoski Date 10-1-48

Sampling Reference 594 Page 111

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 1841

Copy Number 1

Service Report

Date of Service Trip 9-28-48

Location: Building K-1024 Room or Area Rooms #10, 13, 14 and 15

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the center of room 10: 0.00 mg Hg / cu meter

Face level in the center of room 14: 0.02 mg Hg / cu meter

Face level in the center of room 15: 0.00 mg Hg / cu meter

Face level in aisle #1 of room #13: 0.00 mg Hg / cu meter

Face level in aisle #2 of room #13: 0.00 mg Hg / cu meter

Face level in aisle #3 of room #13: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwasnoski Date 10-1-48

Sampling Reference 594 Page 112

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Sept.

Report Number HA - 1816

Copy Number 1

Service Report

Date of Service Trip 9-2-48

Location: Building K-1024 Room or Area Room 15

R. M. Williams; W. T. Carey

Samples Taken Air analyses for nitrite nitrogen

Reason for Service Trip Special investigation

Sampling Positions and Analyses

Face level by the nitric acid decontamination vat before operation had started: less than 10 ppm nitrite nitrogen

Face level by the decontamination vat while the vat was in operation with material being decontaminated: less than 10 ppm nitrite nitrogen

Remarks The decontamination vat is being used initially to decontaminate small parts.

Supervisor E. P. Ulzurrun Date 9-15-48

Sampling Reference 594 Page 107

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 1769

Copy Number 1

Service Report

Date of Service Trip 8-16-48

Location: Building K-1024 Room or Area Rooms #4 and 7

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the center of room #7: 0.00 mg Hg / cu meter

Face level in the north end of room #4: 0.00 mg Hg / cu meter

Face level in the south end of room #4: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor E. B. Olszinski Date 8-18-48

Sampling Reference 594 Page 98

Analysis Reference

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 1770

Copy Number 1

Service Report

Date of Service Trip 8-16-48

Location: Building K-1024 Room or Area Rooms #13, 14, and 10

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the center of aisle #1, room 13: 0.04 mg Hg / cu meter

Face level in the center of aisle #2, room 13: 0.02 mg Hg / cu meter

Face level in the center of aisle #3, room 13: 0.02 mg Hg / cu meter

Face level in the center of room #14: 0.00 mg Hg / cu meter

Face level in the north end of room #10: 0.00 mg Hg / cu meter

Face level in the south end of room #10: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. Mercury was noticed on the table top in aisle #2, room 13.

Supervisor E. B. Olszewski Date 8-18-48

Sampling Reference 594 Page 98

Analysis Reference

wcx-427

Works Laboratory Deparcment
Industrial Hygiene Section

MHK

Report Number HA - 1714

Copy Number 1

Service Report

Date of Service Trip 7-14-48

Location: Building K-1024 Room or Area Rooms #7 and 4

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the north end of room #4: 0.00 mg Hg / cu meter

Face level in the south end of room #4: 0.00 mg Hg / cu meter

Face level in the center of room #7: 0.04 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwasnoski Date 7-15-48

Sampling Reference 594 Page 82

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

WHK

Report Number HA - 1715

Copy Number 1

Service Report

Date of Service Trip 7-14-48

Location: Building K-1024 Room or Area Rooms #10, 13 and 14

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in aisle #1 of room 13: 0.02 mg Hg / cu meter

Face level in aisle #2 of room 13: 0.00 mg Hg / cu meter

Face level in aisle #3 of room 13: 0.00 mg Hg / cu meter

Face level in room #14: 0.00 mg Hg / cu meter

Face level in the center of room #10: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor T. Kwiatowski Date 7-14-48

Sampling Reference 594 Page 82

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 1686

Copy Number 1

Service Report

Date of Service Trip 6-22-48

Location: Building K-1024 Room or Area Rooms #10, 13, and 14

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the center of room #10: 0.00 mg Hg / cu meter

Face level in aisle #1 of room #13: 0.00 mg Hg / cu meter

Face level in aisle #2 of room #13: 0.00 mg Hg / cu meter

Face level in aisle #3 of room #13: 0.00 mg Hg / cu meter

Face level in the center of room #14: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor O. L. Stoddard Date 6-23-48

Sampling Reference 594 Page 73

Analysis Reference

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 1685

Copy Number 1

Service Report

Date of Service Trip 6-22-48

Location: Building K-1024 Room or Area Rooms #4 and #7

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the center of room #7: 0.06 mg Hg / cu meter

Face level in the center of room #4: 0.02 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor D. L. Stoddard Date 6-23-48

Sampling Reference 594 Page 73

Analysis Reference

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 1656

Copy Number 1

Service Report

Date of Service Trip 5-28-48

Location: Building K-1024 Room or Area Rooms #4 and 7

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the south end of room #4: 0.00 mg Hg / cu meter

Face level in the center of room #4: 0.00 mg Hg / cu meter

Face level in the north end of room #4: 0.00 mg Hg / cu meter

Face level throughout room #4: 0.00 mg Hg / cu meter

#7

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor D. L. Stoddard Date 6-1-48

Sampling Reference 528 Page 149

Analysis Reference

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 1655

Copy Number 1

Service Report

Date of Service Trip 5-28-48

Location: Building K-1024 Room or Area Rooms #10, 13 and 14

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the south end of room #10: 0.00 mg Hg / cu meter

Face level in the north end of room #10: 0.00 mg Hg / cu meter

Face level in aisle #1 of room #13: 0.04 mg Hg / cu meter

Face level in aisle #2 of room #13: 0.02 mg Hg / cu meter

Face level in aisle #3 of room #13: 0.00 mg Hg / cu meter

Face level throughout room #14: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor D. L. Stoddard Date 6-1-48

Sampling Reference 528 Page 149

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 1618

Copy Number 1

Service Report

Date of Service Trip 4-21-48

Location: Building K-1024 Room or Area Rooms #4, 7, and Utility Closet

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the east side of room #4: 0.02 mg Hg / cu meter

Face level in the center of room #7: 0.00 mg Hg / cu meter

Face level in the center of the utility closet: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor D. L. Stoddard Date 4-21-48

Sampling Reference 626 Page 15

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

HA 1617

Report Number _____

Copy Number 1

Service Report

Date of Service Trip 4-21-48

Location: Building K-1024 Room or Area Rooms #10, 13 and 14

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level at north end of room #10: 0.00 mg Hg / cu meter

Face level in aisle #1 of room #13: 0.00 mg Hg / cu meter

Face level in aisle #2 of room #13: 0.00 mg Hg / cu meter

Face level in aisle #3 of room #13: 0.00 mg Hg / cu meter

Face level in the center of room #14: 0.00 mg Hg / cu meter

Remarks **Normal operations were in progress. No mercury spills were noticed.**

Supervisor D. L. Stoddard Date 4-21-48

Sampling Reference 625 Page 15

Analysis Reference _____

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 1568

Copy Number 1

Service Report

Date of Service Trip 3-19-48

Location: Building K-1024 Room or Area Room #14 and Utility Closet

R. M. Williams

Samples Taken Air analysis for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the center of room #14: 0.00 mg Hg / cu meter

Face level in the center of the utility closet: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor O. L. Stoddard Date 3-22-48

Sampling Reference 625 Pages 3, 4

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 1554

Copy Number 1

Service Report

Date of Service Trip 3-16-48

Location: Building K-1024 Room or Area Room #4 and #7

R. M. Williams

Samples Taken Air analysis for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the center of room #7: 0.00 mg Hg / cu meter

Face level in the center of room #4: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor D. L. Stoddard Date 3-18-48

Sampling Reference 625 Page 1

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 1553

Copy Number 1

Service Report

Date of Service Trip 3-16-48

Location: Building K-1024 Room or Area Rooms #10 and #13

R. M. Williams

Samples Taken Air analysis for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the west end of aisle #1, room 13: 0.00 mg Hg / cu meter

Face level in the east end of aisle #2, room 13: 0.00 mg Hg / cu meter

Face level in the center of aisle #3, room 13: 0.00 mg Hg / cu meter

Face level in the center of room #10: 0.00 mg Hg / cu meter

Remarks **Normal operations were in progress. No mercury spills were noticed.**

Supervisor D. L. Stoddard Date 3-18-48

Sampling Reference 625 Page 1

Analysis Reference

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report. Number HA-1486

Copy Number 1

Service Report

Date of Service Trip 2-4-48

Location: Building K-1024 Room or Area Rooms #4 and 7

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level throughout room #4: 0.00 mg Hg / cu meter

Face level throughout room #7: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor D. L. Stoddard Date 2-9-48

Sampling Reference 528 Page 134

Analysis Reference

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA-1487

Copy Number 1

Service Report

Date of Service Trip 2-4-48

Location: Building K-1024 Room or Area Rooms #10, 13 and 14

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level throughout room #10: 0.00 mg Hg / cu meter

Face level in aisle #1 of room #13: 0.06 mg Hg / cu meter

Face level in aisle #2 of room #13: 0.04 mg Hg / cu meter

Face level in aisle #3 of room #13: 0.02 mg Hg / cu meter

Face level in room #14: 0.00 mg Hg / cu meter

Remarks **Normal operations were in progress. No mercury spills were noticed.**

Supervisor D. L. Stoddard Date 2-9-48

Sampling Reference 528 Page 134

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 1485

Copy Number 1

Service Report

Date of Service Trip 2-4-48

Location: Building K-1024 Room or Area North Corridor Utility Closet

R. M. Williams

Samples Taken Air analysis for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level inside the closet: 0.00 mg Hg / cu meter

Remarks No mercury spills were noticed.

Supervisor D. L. Stoddard Date 2-9-48

Sampling Reference 528 Page 134

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 1460

Copy Number 1

Service Report

Date of Service Trip 1-27-48

Location: Building K-1024 Room or Area Room 4

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Inspection requested by the Safety Department

Sampling Positions and Analyses See attached sheet

Remarks

Supervisor D. L. Stoddard Date 1-30-48

Sampling Reference 594 Pages 27 & 28

Analysis Reference

WCX-427

An industrial type vacuum cleaner was set up in the south end of room 4 with the exhaust outside of a window. The vacuum cleaner was contaminated with mercury and it was found unnecessary to pick up a mercury spill for the purpose of the test.

Face level by the vacuum cleaner before it was operated: 0.01 mg Hg / cu meter

By a small leak in the exhaust hose of the vacuum cleaner: greater than 3.2 mg Hg / cu meter

Face level approximately 4 ft. from the vacuum cleaner after it had operated for 20 minutes: 0.08 mg Hg / cu meter

Face level approximately 15 ft. from the vacuum cleaner after it had operated for 21 minutes: 0.02 mg Hg / cu meter

Face level approximately 25 ft. from the vacuum cleaner after it had operated for 22 minutes: 0.02 mg Hg / cu meter

Several small air leaks were noticed around the vacuum cleaner.

NT

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 1450

Copy Number 1

Service Report

Date of Service Trip 1-20-48

Location: Building K-1024 Room or Area Rooms 10, 13, 14, 22 and Utilities Closet in the North Corridor

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Inspection requested by the Medical Department

Sampling Positions and Analyses

Face level in the west end of aisle #1, Room 13: 0.02 mg Hg / cu meter

Face level in the east end of aisle #1, Room 13: 0.00 mg Hg / cu meter

Face level in the center of aisle #2, Room 13: 0.00 mg Hg / cu meter

Face level in the center of aisle #3, Room 13: 0.00 mg Hg / cu meter

Face level by the hood in Room 14: 0.00 mg Hg / cu meter

Face level in the north end of Room 10: 0.00 mg Hg / cu meter

Face level in the south end of Room 10: 0.00 mg Hg / cu meter

Face level in the center of Room 22 (Janitor Service): 0.00 mg Hg / cu meter

Face level in the Utilities Closet in the north corridor: 0.00 mg Hg / cu meter

REMARKS: Normal operations were in progress. No mercury spills were noticed in any of the rooms.

Supervisor D. L. Stoddard Date 1-22-48

Sampling Reference 594 Pages 25, 26

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 1449

Copy Number 1

Service Report

Date of Service Trip 1-20-48

Location: Building K-1024 Room or Area Rooms 4 and 7

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Inspection requested by the Medical Department

Sampling Positions and Analyses

Face level in the center of Room 7: 0.00 mg Hg / cu meter

Face level in the north end of Room 4: 0.00 mg Hg / cu meter

Face level in the south end of Room 4: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor D. L. Stoddard Date 1-22-48

Sampling Reference 594 Page 26

Analysis Reference

wcx-427

WHK

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 1437

Copy Number 1

Service Report

Date of Service Trip 1-6-48

Location: Building K-1024 Room or Area Room #24

R. M. Williams

Samples Taken Air analysis for mercury

Reason for Service Trip Inspection requested by Mr. J. H. Bull

Sampling Positions and Analyses See attached sheet

Remarks

Supervisor D. L. Stoddard Date 1-15-48

528 Page 126

Sampling Reference

Analysis Reference

wcx-427

The following tests were made around a Rex-Aire vacuum cleaner in an effort to determine the amount of air contamination that results when the cleaner is used to pick up mercury spills.

Face level throughout the room: 0.02 mg Hg / cu meter

In the path of the exhaust air from the vacuum cleaner before mercury was picked up: 0.02 mg Hg / cu meter

In the path of the exhaust air from the vacuum cleaner (the base filled with water) when the intake was placed approximately 2 inches above a pan of mercury: 0.22 mg Hg / cu meter

In the path of the exhaust air from the cleaner during a mercury pick-up operation (the vase filled with water): greater than 3.0 mg Hg / cu meter

In the exhaust air from the cleaner (base filled with a sodium sulfide solution) during a mercury pick-up operation: greater than 3.0 mg Hg / cu meter

NT

rks Laboratory Department
Industrial Hygiene Section

Report Number

Copy Number 1

Service Report

Date of Service Trip 12-29-47

Location: Building K-1024 Room or Area Room #24

R. M. Williams

Samples Taken Air analysis for mercury

Reason for Service Trip Inspection requested by the Safety Department

Sampling Positions and Analyses

At the exhaust of a filter made of zinc filings and placed on the exhaust of a mercury contaminated Premier Industrial Vacuum cleaner: Greater than 3.0 mg Hg / cu meter

NT

Remarks The vacuum cleaner was running during the sampling period.

Supervisor E. B. Olszewski Date 12-31-47

Sampling Reference 528 Page 124

Analysis Reference

Works Laboratory Department
Industrial Hygiene Section

Report Number [redacted]

Copy Number 1

Service Report

Date of Service Trip 12-26-47

Location: Building K-1024 Room or Area Room #24

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Inspection requested by the Safety Department

Sampling Positions and Analyses An air survey of the exhaust air from the Premier Industrial Vacuum cleaner used to pick up mercury spills indicated the following:

Before the vacuum cleaner was cleaned: greater than 3.0 mg Hg / cu meter

After the tank and filter had been cleaned: greater than 3.0 mg Hg / cu meter

After the installation of a new filter: greater than 3.0 mg Hg / cu meter

At the exhaust of a new vacuum cleaner before any mercury spill was collected by it: NT 0.00 mg Hg / cu meter

While picking up a mercury spill with the new tank and filter: greater than 3.0 mg Hg / cu meter

Remarks The vacuum cleaner was running during all sampling periods. Only a small amount of mercury was picked up with the new vacuum cleaner before the exhaust air was contaminated.

Supervisor E. B. Olszewski Date 12-31-47

Sampling Reference 528 Page 124

Analysis Reference

Works Laboratory Department
Industrial Hygiene Section

NK

Report Number [illegible]

Copy Number 1

Service Report

Date of Service Trip 12-17-47

Location: Building K-1024 Room or Area Rooms #10, 13, and 14

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Inspection requested by the Safety Department

Sampling Positions and Analyses

Face level in aisle #1 of room #13: 0.02 mg Hg / cu meter

Face level in aisle #2 of room #13: 0.02 mg Hg / cu meter

Face level in aisle #3 of room #13: 0.02 mg Hg / cu meter

Face level in room #10: 0.00 mg Hg / cu meter

Face level in room #14: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. Mercury was noticed on the floor in aisle #2 of room #13.

Supervisor E. B. Olszewski Date 12-18-47

Sampling Reference 528 Page 121

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number [illegible]

Copy Number 1

Service Report

Date of Service Trip 12-17-47

Location: Building K-1024 Room or Area Room #4 and 7

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Inspection requested by the Safety Department

Sampling Positions and Analyses

Face level in room #4: 0.00 mg Hg / cu meter

Face level in room #7: 0.00 mg Hg / cu meter

Remarks No mercury spills were noticed. Normal operations were in progress.

Supervisor C. B. Olszewski Date 12-18-47

Sampling Reference 528 Page 121

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 1006

Copy Number 1

Service Report

Date of Service Trip 11-28-47

Location: Building K-1024 Room or Area Rooms #10, 13

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Inspection requested by the Safety Department

Sampling Positions and Analyses

Face level throughout room #10: 0.00 mg Hg / cu meter

Face level in aisle #1 of room #13: 0.02 mg Hg / cu meter

Face level in aisle #2 of room #13: 0.02 mg Hg / cu meter

Face level in aisle #3 of room #13: 0.02 mg Hg / cu meter

Face level throughout room #14: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor E. B. Olszewski Date 12-3-47

Sampling Reference 528 Page 116

Analysis Reference

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number [illegible]

Copy Number 1

Service Report

Date of Service Trip 11-28-47

Location: Building K-1024 Room or Area Rooms #4 and 7

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Inspection requested by the Safety Department

Sampling Positions and Analyses

Face level throughout room #4: 0.00 mg Hg / cu meter

Face level throughout room #7: 0.20 mg Hg / cu meter

Remarks No mercury spills were noticed. Several open mercury containers were noticed in room #7.

Supervisor E. B. Olszewski Date 12-3-47

Sampling Reference 528 Page 116

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

[redacted]

Report Number HA 1032

Copy Number 1

Service Report

Date of Service Trip 11-20-47

Location: Building K-1024 Room or Area Rooms #4 and #7

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Inspection requested by the Safety Department

Sampling Positions and Analyses

Face level in the center of room #7: 0.00 mg Hg / cu meter

Face level in the north end of room #4: 0.00 mg Hg / cu meter

Face level in the south end of room #4: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor M. H. Fuchman Date 11-21-47

Sampling Reference 594 Page 12

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number IIA 1353

Copy Number 1

Service Report

Date of Service Trip 11-20-47

Location: Building K-1024 Room or Area Rooms 10, 13, and 14

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Requested by the Safety Department

Sampling Positions and Analyses

Face level in the west end of aisle 1, room 13: 0.02 mg Hg / cu meter

Face level in the east end of aisle 1, room 13: 0.00 mg Hg / cu meter

Face level in the center of aisle 2, room 13: 0.00 mg Hg / cu meter

Face level in the center of aisle 3, room 13: 0.00 mg Hg / cu meter

Face level by the hood in room 14: 0.00 mg Hg / cu meter

Face level in the center of room 10: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. An open tray containing a small amount of mercury was noticed in the west end of aisle 1, room 13.

Supervisor W. H. Keteham Date 11-21-47

Sampling Reference 594 Page 11

Analysis Reference

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number NA 1328

Copy Number 1

Service Report

Date of Service Trip 11-5-47

Location: Building K-1024 Room or Area Rooms 4 and 7

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Requested by the Safety Department

Sampling Positions and Analyses

Face level by the work bench in the center of room #7: 0.02 mg Hg / cu meter

Face level throughout room #4: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor N. H. Ketcham Date 11-6-47

Sampling Reference 594 Page 4

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number IIA 1025

Copy Number 1

Service Report

Date of Service Trip 11-5-47

Location: Building K-1024 Room or Area Rooms 10, 13, and 14

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Requested by the Safety Department

Sampling Positions and Analyses

Face level in the west end of aisle #1 of room 13: 0.00 mg Hg / cu meter

Face level in the center of aisle #2 of room 13: 0.02 mg Hg / cu meter

Face level in the center of aisle #3 of room 13: 0.00 mg Hg / cu meter

Face level throughout room #14: 0.00 mg Hg / cu meter

Face level throughout room #10: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor W. H. Ketcham Date 11-6-47

Sampling Reference 594 Page 5

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number IIA 1014

Copy Number 1

Service Report

Date of Service Trip 10-29-47

Location: Building K-1024 Room or Area Rooms 10, 13, and 14

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Inspection requested by the Safety Department

Sampling Positions and Analyses

Face level throughout room #10: 0.00 mg Hg / cu meter

Face level in aisle #1 of room #13: 0.02 mg Hg / cu meter

Face level in aisle #2 of room #13: 0.02 mg Hg / cu meter

Face level in aisle #3 of room #13: 0.00 mg Hg / cu meter

Face level throughout room #14: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor W. H. Ketcham Date 11-3-47

Sampling Reference 528 Page 109

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number IIA 1315

Copy Number 1

Service Report

Date of Service Trip 10-29-47

Location: Building K-1024 Room or Area Rooms #4 and #7

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Inspection requested by the Safety Department

Sampling Positions and Analyses

Face level throughout room #4: 0.00 mg Hg / cu meter

Face level throughout room #7: 0.08 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor M. H. Ketcham Date 11-3-47

Sampling Reference 528 Page 109

Analysis Reference

wcx-427

orks Laboratory Department
Industrial Hygiene Section

Report Number HA 1299

Copy Number 1

Service Report

Date of Service Trip 10-21-47

Location: Building K-1024 Room or Area Rooms 4 and 7

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Inspection requested by the Safety Department.

Sampling Positions and Analyses

Face level in the center of room #4: 0.00 mg Hg / cu meter

Face level in the center of room #7: 0.04 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor N. H. Ketcham Date 10-23-47

Sampling Reference 528 Page 107

Analysis Reference

ACX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 1360

Copy Number 1

Service Report

Date of Service Trip 10-21-47

Location: Building K-1024 Room or Area Rooms #10, 13, and 14

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Inspection requested by the Safety Department.

Sampling Positions and Analyses

Face level in the center of room #10: 0.00 mg Hg / cu meter

Face level in the center of room #14: 0.00 mg Hg / cu meter

Face level in aisle #1 of room #13 where mercury was noticed spilled on the floor:
0.14 mg Hg / cu meter

Face level in the center of aisle #2 of room #13: 0.00 mg Hg / cu meter

Face level in the center of aisle #3 of room #13: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress.

Supervisor W. J. Kelchner Date 10-23-47

Sampling Reference 528 Page 107

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 1287

Copy Number 1

Service Report

Date of Service Trip 10-10-47

Location: Building K-1024 Room or Area Rooms #4 and #7

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Inspection requested by the Safety Department

Sampling Positions and Analyses

Face level in the center of room #4: 0.00 mg Hg / cu meter

Face level in the center of room #7: 0.02 mg Hg / cu meter

Floor level in the center of room #7: 0.02 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

Supervisor H. H. Fetcham Date 10-13-47

Sampling Reference 528 Page 106

Analysis Reference

WCX-427

Works Laboratory Department
Industrial Hygiene Section

HA 1290

Report Number _____

Copy Number 1

Service Report

Date of Service Trip 10-9-47

Location: Building K-1024 Room or Area Rooms 10, 13 and 14

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Requested by the Safety Department

Sampling Positions and Analyses

Face level in the north end of room 10: 0.00 mg Hg / cu meter

Face level in the south end of room 10: 0.00 mg Hg / cu meter

Face level in the center of room 14: 0.00 mg Hg / cu meter

Face level in the center of aisle 1, room 13: 0.00 mg Hg / cu meter

Face level in the center of aisle 2 room 13: 0.00 mg Hg / cu meter

Face level in the center of aisle 3, room 13: 0.00 mg Hg / cu meter

Remarks No mercury spills noticed in any of the rooms.

Supervisor N. A. Fitcham Date 10-13-47

Sampling Reference BL 257 Page 151

Analysis Reference _____

wcx-427

Works Laboratory Department
Industrial Hygiene Section

HA 1281
Report Number

Copy Number 1

Service Report

Date of Service Trip 9-26-47

Location: Building K-1024 Room or Area Rooms 10, 11, and 13

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in aisle #1, room #13: 0.00 mg Hg / cu meter

Face level in aisle #2, room #13: 0.00 mg Hg / cu meter

Face level in aisle #3, room #13: 0.00 mg Hg / cu meter

Face level in the center of room #11: 0.00 mg Hg / cu meter

Face level in the center of room #10: 0.00 mg Hg / cu meter

Remarks Normal operations were in progress. No mercury spills were noticed.

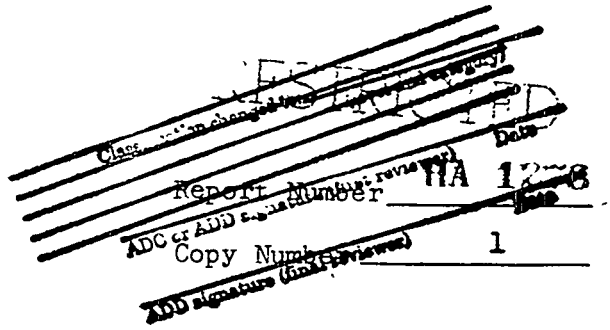
Supervisor W. H. Ketcham Date 9-29-47

Sampling Reference 528 Page 103

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section



Service Report

Date of Service Trip 9-24-47

Location: Building K-1024 Room or Area Room 12

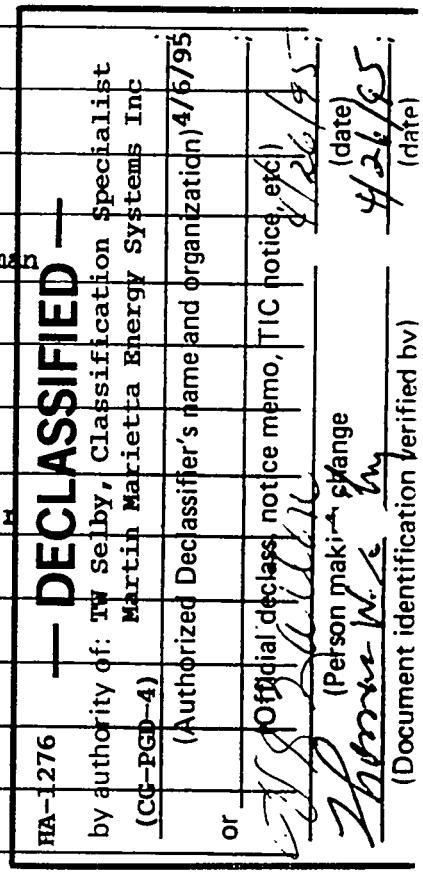
R. M. Williams

Samples Taken Air samples for uranium analyses

Reason for Service Trip Inspection requested by Mr. W. T. Allman

Sampling Positions and Analyses

Approximately 2 inches inside a "Y" tube: 0.00 mg U / cu meter



Remarks Two air samples were collected from inside the Y tube. Both samples showed 0.00 mg U / cu meter of sampled atmosphere.

Supervisor W. H. Fetcham Date 9-25-47

Sampling Reference 528 Page 102

Analysis Reference 576 Page 17

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 1268

Copy Number 1

Service Report

Date of Service Trip 9-22-47

Location: Building K-1024 Room or Area Room 7

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the center of the room: 0.01 mg Hg / cu meter

Face level above the bench near the center of the room: 0.02 mg Hg / cu meter

Floor level in the center of the room: 0.02 mg Hg / cu meter

Remarks The analyses were made between 8:30 and 9:00 A.M.

Supervisor W. V. Ketcham Date 9-23-47

Sampling Reference BL-257 Page 146

Analysis Reference

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number IIA 1262

Copy Number 1

Service Report

Date of Service Trip 9-17-47

Location: Building K-1024 Room or Area Rooms 4, 6, and 7

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in the east side of room 4: 0.00 mg Hg / cu meter

Face level in the center of room 6: 0.00 mg Hg / cu meter

Face level in the center of room 7: 0.20 mg Hg / cu meter

Floor level in the center of room 7: 0.22 mg Hg / cu meter

Remarks Mercury spills noticed on the work bench in room 7. Room 6 is the office.

Supervisor [signature] Date 9-19-47

Sampling Reference BL-257 Page 144

Analysis Reference

wcx-427

"orks Laboratory Department
idustrial Hygiene Section

HA 1[illegible]8

Report Number _____

Copy Number 1

Service Report

Date of Service Trip 7-25-47

Location: Building K-1024 Room or Area Rooms 13 and 10

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level, room 13, aisle #1: 0.00 mg Hg / cu meter

Face level room 13, aisle #2: 0.00 mg Hg / cu meter

Face level room 13, aisle #3: 0.00 mg Hg / cu meter

Face level room 10, north end of room: 0.01 mg Hg / cu meter

Remarks

Supervisor W. H. Ketchum Date 7-25-47

Sampling Reference BL-257 Page 137

Analysis Reference BL-257 Page 137

WCX-427

Works Laboratory Department
Industrial Hygiene Section

HA 1151

Report Number _____

Copy Number 1

Service Report

Date of Service Trip 7-18-47

Location: Building K-1024 Room or Area Rooms 10, 11, and 13

R. M. Williams

Samples Taken Air analyses for mercury vapor.

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level, center of room #10: 0.00 mg Hg / cu meter

Face level, north end of room #11: 0.00 mg Hg / cu meter

Face level, aisle #1, room #13: 0.00 mg Hg / cu meter

Face level, aisle #2, room #13: 0.00 mg Hg / cu meter

Face level, aisle #3, room #13: 0.00 mg Hg / cu meter

Remarks Normal operations in progress. No mercury spills noticed.

Supervisor N. J. Fetcham Date 7-22-47

Sampling Reference BL-257 Page 135

Analysis Reference BL-257 Page 135

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 1135

Copy Number 1

Service Report

Date of Service Trip 7-7-47

Location: Building K-1024 Room or Area Rooms 10, 11, 13, and 15

R. M. Williams

Samples Taken Air analyses for mercury vapor.

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level, room #10: 0.00 mg Hg / cu meter

Face level, room #11: 0.00 mg Hg / cu meter

Face level, aisle #1, room 13: 0.00 mg Hg / cu meter

Face level, aisle #2, room 13: 0.00 mg Hg / cu meter

Face level, aisle #3, room 13: 0.00 mg Hg / cu meter

Face level, room #15: 0.00 mg Hg / cu meter

Remarks Normal operations in progress. No mercury spills noticed. The atmosphere at face level throughout the entire room was tested in rooms 10, 11, and 15.

Supervisor M. H. Ketcham Date 7/10/47

Sampling Reference BL-528 Page 65

Analysis Reference BL-528 Page 65

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 1127

Copy Number 1

Service Report

Date of Service Trip 7-2-47

Location: Building K-1024 Room or Area Rooms 10 and 13

R. M. Williams

Samples Taken Air samples for cadmium analyses

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Room 13: Face level in aisle #1 by operator silversoldering a large copper point on a line recorder: 0.25 mg Cd/ cu meter

Room 10: Face level in south end of room: 0.03 mg Cd / cu meter

Remarks No silver soldering was in progress when the sample in room 10 was taken. Silver soldering is done at intervals throughout a normal day in this room.

Supervisor W. J. Fetcham Date 7/7/47

Sampling Reference BL-257 Page 132

Analysis Reference BL-257 Page 132

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 1128

Copy Number 1

Service Report

Date of Service Trip 7-2-47

Location: Building K-1024 Room or Area Room #13

R. M. Williams

Samples Taken Air sample for fluoride dust analysis

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level to operator in aisle #1 using a fluoride silver soldering flux:

0.1 mg fluoride dust / cu meter

NT

Remarks The operation lasted approximately 2½ minutes.

Supervisor N. J. Ketcham Date 7/7/47

Sampling Reference BL-528 Page 64

Analysis Reference BL-528 Page 64

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 1116

Copy Number 1

Service Report

Date of Service Trip 6-25-47

Location: Building K-1024 Room or Area Rooms 10 and 13

R. M. Williams

Samples Taken Air analyses for mercury vapor

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level, aisle #2, room #13: 0.00 mg Hg / cu meter

Face level, aisle #3, room #13: 0.00 mg Hg / cu meter

Face level, room #10: 0.00 mg Hg / cu meter

Remarks Normal operations in progress. No mercury spills noticed. Analyses done with the G.E. Analyser.

Supervisor W. D. Cline for N.H.Ketcham Date 6-26-47

Sampling Reference BL-528 Page 62

Analysis Reference BL-528 Page 62

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 1118

Copy Number 1

Service Report

Date of Service Trip 6-25-47

Location: Building K-1024 Room or Area Room 13

R. M. Williams

Samples Taken Air analyses for mercury vapor

Reason for Service Trip Requested by Mr. R. M. Williams

Sampling Positions and Analyses Face level above the small vacuum cleaner during the collection of mercury spills. Over a period of 10 minutes indications from 0.10 to 0.40 mg Hg / cu meter were noted.

NT Immediately above vacuum cleaner during collection of mercury spills: 3.2 mg Hg / cu meter

Remarks Normal room ventilation was present at the sampling position. The mercury spill was intentional so that the above tests could be made.

Supervisor W. D. Cline for N. H. Ketcham Date 6-27-47

Sampling Reference BL-528 Page 62

Analysis Reference BL-528 Page 62

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 1114

Copy Number 1

Service Report

Date of Service Trip 6-17-47

Location: Building K-1024 Room or Area Rooms 10 and 11

R. M. Williams

Samples Taken Air samples for mercury analyses

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level, north end of room #10 at 9:01 a.m.: 0.4 mg Hg / cu meter

√ 0.21 mg Hg / cu meter

Face level, north end of rrom # 10 at 9:14 a.m.: less than 0.1 mg Hg / cu meter

0.05 mg Hg / cu meter

Face level, center of room # 11, at 9:26 a.m.: 0.1 mg Hg / cu meter ; 0.1 mg Hg / cu met

Face level, center of room # 11 at 9:30 a.m.: 0.00 mg Hg / cu meter

Remarks A exhaust fan placed in the window was turned on at 9:08 a.m..

Supervisor N. H. Ketcham Date 6-26-47

W.D.Cline for N.H.Ketcham

Sampling Reference BL-528 Page 61

Analysis Reference BL-528 Page 61

wcx-427

Works Laboratory Department
Industrial Hygiene Section

HA 1109

Report Number _____

Copy Number 1

Service Report

Date of Service Trip 6-16-47

Location: Building K-1024 Room or Area Rooms 10 and 11

R. M. Williams

Samples Taken Air analyses for mercury vapor

Reason for Service Trip Routine inspection

Sampling Positions and Analyses See attached sheet

Remarks Cleaning operations in progress in room 10 and 11 throughout the day.

Supervisor W. D. Cline for N. H. Ketcham Date 6-20-47

Sampling Reference BL-528 Pages 60-61

Analysis Reference BL-528 Pages 60 -61

WCX-427

Sampling Positions and Analyses

The following analyses were made with the General Electric Vapor Detector.

Time: 8:30 a.m. Position: Face level, north end of room # 10: 0.10 mg Hg/cu meter
At the floor level in the same position: 0.14 mg Hg/cu meter

Time: 8:45 a.m. Position: Face level, center of room #11: 0.00 mg Hg / cu meter
At the floor level: 0.02 mg Hg / cu meter

Time: 9:00 a.m. Position: Face level, room #10: 0.11 mg Hg / cu meter
Floor level, room #10: 1.21 mg Hg / cu meter

Time: 9:20 a.m. Position: Probe was stuck inside the oven while it was on: 1.21 mg Hg / cu meter
6 feet from the closed oven door: 0.21 mg Hg/cu meter
At the floor near the oven: 1.21 mg Hg / cu meter

Time: 9:30 a.m. Position: Center of room #10: 0.11 mg Hg / cu meter

Time: 3:00 p.m. Position: Face level, north end of room #10: 0.05 mg Hg/cu meter
Face level, south end of room #10: 0.04 mg Hg/cu meter
At floor level, south end of room #10: 1.21 mg Hg/cu meter

Time: 3:15 p.m. Position: Face level, south end of room #10: 0.00 mg Hg /cu meter
Face level in hall outside room #10: 0.00 mg Hg /cu meter

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 1108

Copy Number 1

Service Report

Date of Service Trip 6-13-47

Location: Building K-1024 Room or Area Rooms 4, 9, 10 and 11

R. M. Williams

Samples Taken Air analyses for mercury vapor

Reason for Service Trip Inspection requested by Mr. W. T. Allman

Sampling Positions and Analyses See attached sheet

Remarks Fans were placed in the windows of rooms # 10 and #11 at 8:30 A.M. blowing contaminated air from the rooms. Mercury spills were noticed throughout room # 10. No mercury spills were noticed in room #11.

Supervisor N. D. Cline
W. D. Cline for N. H. Ketcham
Date 6-20-47

Sampling Reference BL-257 Pages 129 - 130

Analysis Reference BL-257 Pages 129 - 130

wcx-427

Sampling Positions and Analyses

The following tests were made with the General Electric Vapor Detector following a break in a mercury diffusion pump that allowed hot mercury vapor to escape throughout the previous night.

Time: 8:25 a.m. Position: At a hole in the north door to room #10: 3.2 mg Hg / cu me

Time: 8:35 a.m. Position: At a window midway of room # 4 as an electric fan was blowing air from a window in room # 10 towards room #4: 0.00 mg Hg / cu meter

Time: 8:39 a.m. Position: By open office window in room #4 across from the open window at room # 10: 0.00 mg Hg / cu meter

Time: 8:45 a.m. Position: At open window in room #9 adjacent to open window at room 10: 0.00 mg Hg / cu meter

Time: 8:48 a.m. Position: Face level in hallway outside room # 10: 0.12 mg Hg /cu me

Time: 9:15 am. Position: Probe was held near a metal cylinder that had been brought out of room 10 near the mercury break: 0.12 mg Hg / cu met

Time: 9:20 a.m. Position: At a hole in the north door to room # 10: 1.22 mg Hg / cu meter

Time: 9:25 a.m. Position: 3 inches above floor, 6 feet from the entrance to roor # 11 in room #13: 0.14 mg Hg / cu meter

Time: 9:27 a.m. Position: Atop work bench in room #13, 6 feet from door to room #11: 0.00 mg Hg / cu meter

Time: 11:05 a.m. Position: In hallway 16 feet from room # 10 at intake to combination hose mash pump which was supplying air to decontamination workers in room 10: 0.00 mg Hg / cu meter

Time: 3:00 p.m. Position: Face level, south end of room # 10: 0.12 mg Hg / cumeter

Time: 3:05 p, m. Position: Face level, room 11: 0.00 mg Hg / cu meter

Time: 3:10 p.m. Position: Face level, north end of room # 10: 0.4 mg Hg/cu meter

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 1098

Copy Number 1

Service Report

Date of Service Trip 6-9-47

Location: Building K-1024 Room or Area Rooms 10 and 13.

R. M. Williams

Samples Taken Air analyses for mercury

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level aisle #1, room 13: 0.02 mg Hg / cu meter

Face level aisle #2, room 13: 0.00 mg Hg / cu meter

Face level by vacuum system, room 10: 0.05 mg Hg / cu meter

Six inches above floor by vacuum system, room 10: 0.06 mg Hg / cu meter

By exhaust of vacuum pump on vacuum system: 0.07 mg Hg / cu meter

Remarks No mercury spills noticed in either room.

Supervisor M. D. Ketcham Date 6/11/47

Sampling Reference BL-257 Pages 127 - 128

Analysis Reference BL-257 Pages 127 - 128

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 1084

Copy Number 1

Service Report

Date of Service Trip 5-21-47

Location: Building K-1024 Room or Area Room 10

L. L. Forward

Samples Taken Air analyses for mercury vapor

Reason for Service Trip Requested by Mr. W. T. Allman

Sampling Positions and Analyses

By break in McLeod gauge: 0.03 to 0.05 mg Hg / cu meter

At floor level by the gauge: 0.03 mg Hg / cu meter

Face level near the gauge: 0.02 mg Hg / cu meter

Remarks These analyses were made at 8:20 A.M. prior to operators entering the room. A break had occurred in the McLeod gague sometime during the previous night.

Supervisor W. H. Ketchum Date 6/23/47

Sampling Reference BL-528 Page 55

Analysis Reference BL-528 Page 55

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 1079

Copy Number 1

Service Report

Date of Service Trip 5-19-47

Location: Building K-1024 Room or Area Rooms 10 and 13

L. L. Forward

Samples Taken Air samples for cadmium analyses.

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level to operator silver soldering a copper connection in room #10:

0.01 mg Cd / cu meter

Face level to operator silver soldering a copper connection to a line recorder tube rack in aisle #1, room #13: 0.20 mg Cd / cu meter

Remarks Ventilation good in room 10.

Supervisor W. H. Ketchum Date 5/22/47

Sampling Reference BL-528 Page 54

Analysis Reference BL-528 Page 54

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number IIA 1[illegible]3

Copy Number 1

Service Report

Date of Service Trip 5-15-47

Location: Building K-1024 Room or Area Rooms 10 and 13

L. L. Forward

Samples Taken Air samples for mercury analyses.

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level by vacuum line at the north end of room 10: less than 0.1 mg Hg / cu meter

At the exhaust of a vacuum pump connected to the vacuum line in room 10: 0.1 mg Hg/cu m

Face level, aisle #1, room 13: less than 0.1 mg Hg / cu meter

Face level, aisle #2, room 13: less than 0.1 mg Hg / cu meter

Remarks Normal operations in progress. No mercury spills noticed.

Supervisor M. H. Ketcham Date 5/19/47

Sampling Reference BL-528 Page 53

Analysis Reference BL-528 Page 53

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 1[illegible]

Copy Number 1

Service Report

Date of Service Trip 5-6-47

Location: Building K-1024 Room or Area Room 13

L. L. Forward

Samples Taken Air samples for mercury analyses

Reason for Service Trip Requested by Mr. R. Millican

Sampling Positions and Analyses

NT Face level east end of aisle #1 above pool of mercury: 0.1 mg Hg / cu meter.

Immediately back of dust bag of vacuum cleaner which was picking up mercury:

NT 20 mg Hg / cu meter (See Remarks)

Remarks Mercury had been poured on the floor simulating a spill. These analyses are the results of a test carried out to determine whether the trap which had been installed in the vacuum cleaner was effectively removing the mercury.

Supervisor N. H. Ketcham Date 5/9/47

Sampling Reference BL-257 Page 123

Analysis Reference BL-257 Page 123

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number [illegible]

Copy Number 1

Service Report

Date of Service Trip 4-30-47

Location: Building K-1024 Room or Area Room 13

L. L. Forward

Samples Taken Air samples for mercury analysis

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level center of aisle #1: less than 0.1 mg Hg / cu meter.

Face level center of aisle #3: less than 0.1 mg Hg / cu meter.

Remarks Normal operations in progress. No mercury spills noticed at either place.

G. E. Vapor Detector analysis in both sampling positions: 0.00 mg Hg / cu met

Supervisor N. H. Ketcham Date 5/7/47

Sampling Reference BL-257 Page 122

Analysis Reference BL-257 Page 122

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number [illegible]

Copy Number 1

Service Report

Date of Service Trip 4-24-47

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken Air sample for cadmium analysis.

Reason for Service Trip Routine inspection

Sampling Positions and Analyses
Face level to operator in aisle #1: 0.04 mg Cd./ cu meter

Remarks Operator was silver soldering a large copper connection on a line recorder tube rack.

Supervisor W. H. Fetcham Date 4/28/47

Sampling Reference BL-528 Page 49

Analysis Reference BL-528 Page 49

WCK-427

Works Laboratory Department
Industrial Hygiene Section

Report Number [illegible]

Copy Number 1

Service Report

Date of Service Trip 4-15-47

Location: Building K-1024 Room or Area Rooms 13, 14, and 15

L. L. Forward

Samples Taken Air samples for mercury analyses.

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in aisle #1, room 13: less than 0.1 mg Hg / cu meter

Face level in aisle #2, room 13: less than 0.1 mg Hg / cu meter

Face level in aisle #3, room 13: less than 0.1 mg Hg / cu meter

Face level in room 14: less than 0.1 mg Hg / cu meter

Face level in room 15: less than 0.1 mg Hg / cu meter

Remarks Normal operations in progress. No mercury spills were noticed.

Supervisor W. H. Ketcham Date 4/18/47

Sampling Reference BL-528 Pages 45, 46

Analysis Reference BL-218 Page 129

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number IHA 1023

Copy Number 1

Service Report

Date of Service Trip 4-8-47

Location: Building 1024 Room or Area Rooms: 13 and 15

L. L. Forward

Samples Taken Air samples for mercury analyses

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level in aisle #1, room 13: less than 0.1 mg Hg / cu meter

Face level in aisle #2, room 13: less than 0.1 mg Hg / cu meter

Face level in aisle #3, room 13: less than 0.1 mg Hg / cu meter

Face level, center of room 15: less than 0.1 mg Hg / cu meter

At the exhausts of the vacuum pumps in room 15: less than 0.1 mg Hg / cu meter

Remarks Normal operations in progress.

Supervisor M. H. Ketcham Date 4/10/47

Sampling Reference BL-528 Page 44

Analysis Reference BL-528 Page 44

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 1013

Copy Number 1

Service Report

Date of Service Trip 3-31-47

Location: Building 1024 Room or Area Rooms 13, 14 and 15

L. L. Forward

Samples Taken Air samples for mercury analyses

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level, room 13, aisle #1: less than 0.1 mg Hg / cu meter

Face level, room 13, aisle #2: less than 0.1 mg Hg / cu meter

North side of room 15 by exhaust of vacuum pump: less than 0.1 mg Hg / cu meter

Northwest corner of room # 15, by exhaust of vacuum pump: less than 0.1 mg Hg / cu meter

Face level, center of room 14: less than 0.1 mg Hg / cu meter

Remarks Mercury spill in sink under hood in room # 14.

Supervisor M. L. Ketchum Date 4/2/47

Sampling Reference BL-257 Page 118

Analysis Reference BL-218 Page 118

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 1011

Copy Number 1

Service Report

Date of Service Trip 3-25-47

Location: Building 1024 Room or Area Rooms 13 and 15

L. L. Forward

Samples Taken Air samples for mercury analyses

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level, room 13, aisle #1: less than 0.1 mg Hg / cu meter

Face level, room 13, aisle #2: less than 0.1 mg Hg / cu meter

North side of room 15, 3 in. from exhaust of vacuum pump: less than 0.1 mg Hg / cu meter

Northwest corner of room 15, 3 in. from exhaust of vacuum pump: less than 0.1 mg Hg / cu meter.

Remarks No mercury spills noticed in either room.

Supervisor N. H. Ketcham Date 3/31/47

Sampling Reference BL-257 Page 116

Analysis Reference BL-218 Page 117

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number IA 294

Copy Number 1

Service Report

Date of Service Trip 3-17-47

Location: Building 1024 Room or Area Rooms 13, 14 and 15

L. L. Forward

Samples Taken Air samples for mercury analyses

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level, south aisle, room 13: less than 0.1 mg Hg / cu meter

Face level, center of room 14: less than 0.1 mg Hg / cu meter

Face level by vacuum bench, room 15: less than 0.1 mg Hg / cu meter

Remarks Mercury spills noticed in the sinks in rooms 13 and 14. Normal operations in progress.

Supervisor M. H. Ketcham Date 3/21/47

Sampling Reference BL-257 Page 113

Analysis Reference BL-218 Page 115

wcx-427

"'rks Laboratory Department
.dustrial Hygiene Section

Report Number (IA ..2

Copy Number 1

Service Report

Date of Service Trip 3-10-47

Location: Building 1024 Room or Area Rooms 13, 14, and 15

L. L. Forward

Samples Taken Air samples for mercury analyses

Reason for Service Trip Routine inspection - Monday Afternoon

Sampling Positions and Analyses

Face level center of aisle #2, room 13: less than 0.1 mg Hg / cu meter

Face level center of room 14: less than 0.1 mg Hg / cu meter

Face level by vacuum system, room 15: less than 0.1 mg Hg / cu meter

Remarks Mercury spill noticed in sink under hood in room 14.

Supervisor [signature] Date 3-14-47

Sampling Reference BL-257 Pages 110, 111

Analysis Reference BL-218 Pages 113, 114

.cx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number [illegible]

Copy Number 1

Service Report

Date of Service Trip 3-10-47

Location: Building 1024 Room or Area Rooms 13, 14, and 15.

L. L. Forward

Samples Taken Air samples for mercury analyses

Reason for Service Trip Routine inspection - Monday morning

Sampling Positions and Analyses

Face level above sink aisle #1, room 13: less than 0.1 mg Hg/ cu meter

Face level center of aisle #2, room 13: less than 0.1 mg Hg / cu meter

Face level center of room 14: less than 0.1 mg Hg / cu meter

At top of work bench, room 15: less than 0.1 mg Hg / cu meter

Remarks Mercury spills noticed under sink in room 13; in sink under hood in room 14; and around vacuum pump in room 15.

Supervisor [signature] Date 3-14-47

Sampling Reference BL-257 Page 111

Analysis Reference BL-218 Page 113

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 968

Copy Number 1

Service Report

Date of Service Trip 3-3-47

Location: Building 1024 Room or Area Rooms 13, 14, and 15.

L. L. Forward

Samples Taken Air samples for mercury analyses .

Reason for Service Trip Routine inspection

Sampling Positions and Analyses Samples taken 1:40 P.M. to 2:15 P.M.

Face level, center of room 13: less than 0.1 mg Hg / cu meter

Face level, center of room 14: less than 0.1 mg Hg / cu meter

Face level by McLeod guages in room 15: less than 0.1 mg Hg / cu meter

Remarks Normal operations in progress.

Supervisor N. H. Ketcham Date 3/5/47

Sampling Reference BL-257 Page 107

Analysis Reference BL-521 Page 45

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 967

Copy Number 1

Service Report

Date of Service Trip 3-3-47

Location: Building 1024 Room or Area Rooms 13, 14 and 15

L. L. Forward

Samples Taken Air samples for mercury analyses

Reason for Service Trip Routine inspection

Sampling Positions and Analyses Samples taken 8:30 A.M. to 9:00 A.M.

Face level, aisle #1, room 13: less than 0.1 mg Hg / cu meter

Face level, aisle #2, room 13: less than 0.1 mg Hg / cu meter

Face level, room 14: less than 0.1 mg Hg / cu meter

Face level by McCleod guages, room 15: less than 0.1 mg Hg / cu meter

Remarks Normal operations in progress. Small mercury spills were noted on the floor of room 15 and in the sink in room 13.

Supervisor H H Ketcham Date 3/5/47

Sampling Reference BL-528 Page 38 & BL-257 Page 107

Analysis Reference BL-521 Page 45

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 947

Copy Number 1

Service Report

Date of Service Trip 2-24-47.

Location: Building 1024 Room or Area Rooms 13, 14 and 15

L. L. Forward

Samples Taken Air samples for mercury analyses

Reason for Service Trip Routine inspection

Sampling Positions and Analyses	Chemical Analysis	G.E. Vapor Detector Analysis
Face level, aisle # 1, room 13:	0.1 mg Hg / cu meter	0.10mg Hg / cu meter
Face level, aisle # 2, room 13:	0.1 mg Hg / cu meter	0.10mg Hg / cu meter
Face level, center of room 14:	0.1 mg Hg / cu meter	0.08 mg Hg / cu meter
Face level,by McCleod guages, room 15:	0.3 mg Hg/ cu meter	0.26 mg Hg / cu meter

Remarks Samples taken between 1:40 P.M. and 2:20 P.M.. Mercury spills visible only in sink near sampling position at aisle #1, room 13. Ventilation was on in all rooms.

Supervisor H.H. Ketcham Date 2/27/47

Sampling Reference BL-528 Page 35

Analysis Reference BL-218 Page 111

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 948

Copy Number 1

Service Report

Date of Service Trip 2-24-47

Location: Building 1024 Room or Area Rooms 13, 14 and 15

L. L. Forward

Samples Taken Air samples for mercury vapor analyses

Reason for Service Trip Routine inspection

Sampling Positions and Analyses	Chemical Analysis	G.E. Vapor Detector Analysis
Face level by sink in aisle #1, room 13:	less than 0.1 mg Hg/cu meter	less than 0.1 mg Hg/cu meter
Face level center of aisle #2, room 13:	less than 0.1 mg Hg/cu meter	less than 0.1 mg Hg/cu meter
Face level in center of room 14:	less than 0.1 mg Hg/cu meter	less than 0.1 mg Hg/ cu meter
Face level by McCleod gauges, Room 15:	0.3 mg Hg / cu meter	0.24 mg Hg / cu meter

Remarks Samples taken between 8:30 A.M. and 9:30 A.M.. Mercury noticed on bench
n below McCleod gauges in room 15.

Supervisor W. H. Ketcham Date 2/27/47

Sampling Reference BL-257 Page 104

Analysis Reference BL-218 Page 111

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 939

Copy Number 1

Service Report

Date of Service Trip 2-19-47

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken Air samples for mercury analyses

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level, aisle #1: less than 0.1 mg Hg / cu meter

Face level, aisle #2: less than 0.1 mg Hg / cu meter

Face level, aisle #3: less than 0.1 mg Hg / cu meter

Face level at sink in aisle #1: less than 0.1 mg Hg / cu meter

Remarks Mercury spills noted only in sink at aisle #1 where hot water was running over spilled mercury in sink.

Supervisor N. H. Ketcham Date 2/26/47

Sampling Reference BL-528 Page 33

Analysis Reference BL-521 Page 37

WCX-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 923

Copy Number 1

Service Report

Date of Service Trip 2-13-47

Location: Building 1024 Room or Area Room #13

L. L. Forward

Samples Taken Air samples for mercury analysis

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level, aisle #1: less than 0.1 mg Hg/ cu meter

Face level, aisle #2: 0.1 mg Hg / cu meter

Face level, aisle #3: less than 0.1 mg Hg / cu meter

Face level at sink in aisle #1: 1.0 mg Hg/ cu meter

Remarks Mercury spills visible in sink at aisle #1 and hot water was running on ~~its~~ the mercury.

Supervisor M. L. Ketchum Date 2/21/47

Sampling Reference BL-528 Pages 30-31

Analysis Reference BL-218 Page 110

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 906

Copy Number 1

Service Report

Date of Service Trip 2-6-47

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken Air samples for mercury vapor analysis

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level center of aisle #1: less than 0.1 mg Hg / cu meter

Face level center of aisle #2: less than 0.1 mg Hg / cu meter

Face level east end of aisle #3: less than 0.1 mg Hg/ cu meter

Face level above sink in aisle #1: less than 0.1 mg Hg / cu meter

Remarks Windows closed. No mercury spills noticed, except in sink.

Supervisor M.H. Ketcham Date 2/11/47

Sampling Reference BL-257 Page 99

Analysis Reference BL-218 Pages 107 & 108

WCX-427

Works Laboratory Department
Industrial Hygiene Section

M.H.K.
2/11/47

Report Number HA - 901

Copy Number 1

Service Report

Date of Service Trip 1-31-47

Location: Building 1024 Room or Area Rooms 13 and 14

L. L. Forward

Samples Taken Air samples for mercury vapor analyses

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

/Face level, center of aisle #1: 0.1 mg Hg/ cu meter

Face level center of aisle #2: 0.1mg, Hg/ cu meter

Face level center of aisle #3: less than 0.1 mg Hg / cu meter

Face level just inside doorway to room 14: less than 0.1 mg Hg/ cu meter

Remarks Normal operations in progress.

Supervisor N. H. Ketchum Date 2/10/47

Sampling Reference BL-257 Page 97

Analysis Reference BL-218 Page 104

wcx-427

Works Laboratory Department
Industrial Hygiene Section

Report Number HA - 873
Copy Number 1

Service Report

Date of Service Trip 1-13-47

Location: Building 1024 Room or Area Room # 13

L. L. Forward

Samples Taken Air samples for mercury analysis

Reason for Service Trip Routine inspection

Sampling Positions and Analyses Face level to operator:

Aisle #1: 0.1 mg. Hg/ cu meter

Aisle #2: Less than 0.1 mg. Hg / cu meter

Aisle #3: 0.1 mg Hg / cu meter

Remarks Normal operations in progress. No mercury spills visible.

Supervisor N. H. Ketcham Date 1/30/47

Sampling Reference BL-528 Page 19

Analysis Reference BL-218 Page 101

wcx-427

Medical Laboratory Department
Industrial Hygiene Section

Report Number 11A [illegible]

Copy Number 1

Service Report

Date of Service Trip 1-6-47

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken Air samples for mercury analysis

Reason for Service Trip Routine inspection

Sampling Positions and Analyses All Samples Taken at Face Level 5 ft.

Aisle #1: Less than 0.1 mg Hg/cu meter

Aisle #2: Less than 0.1 mg Hg/cu meter

Aisle #3: Less than 0.1 mg Hg/cu meter

Remarks Aisles in Room 13 numbered from south to north. Both exhaust fans in Room 13 were running.

Supervisor W. H. Ketcham Date 1/10/47

Sampling Reference BL-528 Page 16

Analysis Reference BL-218 Page 97

M-1333 (22 Oct. 46).

Works Laboratory Depar
Industrial Hygiene Section

RESTRICTED

Report Number HA 853

Copy Number 1

Service Report

Date of Service Trip 12-27-46

Location: Building 1024 Room or Area Room 4

L. L. Forward

Samples Taken Air sample for uranium analysis

Reason for Service Trip Request by E. K. Mayer

Sampling Positions and Analyses Face level to operators as they took the cover off of a contaminated valve: 0.00 mg. U/cu meter

Remarks Test was run in such a way as to find out if there would be an exposure in case a contaminated valve was not so marked and was opened into the room.

Supervisor W. H. Ketchum Date 1/10/47

Sampling Reference BL-213 Page 79

Analysis Reference BL-218 Page 94

M-1333 (22 Oct. 46)

— DECLASSIFIED —
HA-853
by authority of TW Selby 4/6/95
(CG-PGD-4) Classification Specialist MMES
(Authorized Declassifier's name and organization)
or
(Official declass. notice memo, T|C notice, etc.) 4/26/95 (date)
(Person making change) 4/26/95 (date)
(Document identification verified by)

Works Laboratory Department
Industrial Hygiene Section

Report Number IIA 335

Copy Number 1

Service Report

Date of Service Trip 12-30-46

Location: Building 1024 Room or Area Room 13

L.L. Foreward

Samples Taken Air sample for mercury analysis

Reason for Service Trip Routine Inspection

Sampling Positions and Analyses

Face level-aisle #1: less than 0.1 mg. Hg/cu. meter

Face level-aisle #2: less than 0.1 mg. Hg/cu. meter

Face level-aisle #3: less than 0.1 mg. Hg/cu. meter

Remarks No mercury spills seen.

Supervisor W. H. Ketcham Date 1/3/47

Sampling Reference BL 528, Page 11

Analysis Reference BL 528, P- //

W-1333 (22 Oct 46)

Works Laboratory Depar
Industrial Hygiene Section

Report Number HA 334

Copy Number 1

Service Report

Date of Service Trip 12-26-46

Location: Building 1024 Room or Area Room 4

L.L. Forward

Samples Taken Air sample for fluoride analysis

Reason for Service Trip Routine Inspection

Sampling Positions and Analyses

Face level, south end of room: ~~0.0 ppm F_2~~ Less than 0.05 mg. F dust/cu. meter/WHK.

Remarks Normal Operations in progress.

Supervisor N.H. Ketcham Date 1/3/47

Sampling Reference ~~BL 528, Page 9~~

Analysis Reference BL 218, Page 92

Works Laboratory Department
Industrial Hygiene Section

Report Number IHA 3[illegible]

Copy Number 1

Service Report

Date of Service Trip 12-23-46

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken Air samples for mercury analysis

Reason for Service Trip Routine Inspection

Sampling Positions and Analyses

Face level, aisle #1: less than 0.1 mg. Hg/cu. meter

Face level, aisle #2: less than 0.1 mg. Hg/cu. meter.

Face level, aisle #3: less than 0.1 mg. Hg/cu. meter.

Remarks Normal Operations. No mercury spills seen.

Supervisor W. H. Ketcham Date 1/3/47

Sampling Reference BL 528, Page 8 - 9

Analysis Reference BL 528, Page 8 - 9

M-1333 (22 Oct. 46)

Works Laboratory Department
Industrial Hygiene Section

Report Number IIA 827

Copy Number 1

Service Report

Date of Service Trip 12-20-46

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken Air sample for fluoride analysis.

Reason for Service Trip Routine Inspection.

Sampling Positions and Analyses

Face level by operator: 3.5 mg. fluoride ~~smoke~~/cu. ~~meter~~.

Remarks Operator using flux while sample was being taken.

Supervisor W. H. Ketcham Date 1/3/47

Sampling Reference BL 528 P. 6

Analysis Ref. BL 218 P. 97

Works Laboratory Department
Industrial Hygiene Section

Report Number IH 315

Copy Number 1

Service Report

Date of Service Trip 12-16-46

Location: Building 1024 Room or Area Room 13

L.L. Forward

Samples Taken Air samples for mercury vapor analysis

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level, west end of aisle # 1: 0.2 mg Hg/Cu meter

Face level, aisle # 2: 0.4 mg Hg/Cu meter

Face level, aisle # 3: less than 0.1 mg Hg/Cu meter

Remarks Normal operation in progress, no mercury spills noticed.

Supervisor W. H. Ketcham Date 12/27/46

Sampling Reference EL 528, P 3 & 4

Analysis Reference EL 528, P 3 & 4

Works Laboratory Depar
Industrial Hygiene Section

Report Number HH 812

Copy Number 1

Service Report

Date of Service Trip 12-13-46

Location: Building 1024 Room or Area Room 4

L. L. Forward

Samples Taken Air analyses for combustible vapor (kerosene).

Reason for Service Trip Request of Mr. E. K. Mayer.

Sampling Positions and Analyses Air analyses were made thruout the entire room using the Davis Vapotester. No combustible gas mixture was found.

Remarks

Supervisor W. H. Ketcham Date 12/27/46

Sampling Reference BL 528 Page 3

Analysis Reference

Works Laboratory Department
Industrial Hygiene Section

Report Number IIA 799

Copy Number 1

Service Report

Date of Service Trip 12-9-46

Location: Building 1024 Room or Area Room 13

L.L. Forward

Samples Taken Air samples for mercury analysis

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level, Aisle # 1: less than 0.1 mg Hg / Cu meter

Face level, Aisle # 2: less than 0.1 mg Hg/Cu meter

Face level, Aisle # 3: less than 0.1 mg Hg/Cu meter

Remarks No mercury spills noticed

Supervisor W.H. Ketcham Date 12/27/46

Sampling Reference BL 528 P 1

Analysis Reference BL 218 P 85

Works Laboratory Department
Industrial Hygiene Section

Report Number IIA 792

Copy Number 1

Service Report

Date of Service Trip 12-4-46

Location: Building 1024 Room or Area Room 4 - Vapor Phase Degreasor

L. L. Forward

Samples Taken Air analysis for Phosgene

Reason for Service Trip Request from E. K. Mayer

Sampling Positions and Analyses The air analysis was made approximately three inches from the top of the trichloroehtylene reservoir of the instrument degreaser.

No phosgene found.

Remarks The trichloroehtylene was boiling, and the characteristic odor was noticed. An army CWS kit was used in the above analysis.

Supervisor N. H. Ketcham Date 12/12/46

Sampling Reference BL 257, P-84

Analysis Ref.

Works Laboratory Department
Industrial Hygiene Section

Report Number IHA 787

Copy Number 1

Service Report

Date of Service Trip 12-3-46

Location: Building 1024 Room or Area Room 4 - VAPOR PHASE DEGREASOR

L. L. Forward

Samples Taken ~~Air analyses for trichloroethylene~~

Reason for Service Trip Request from E. K. Mayer.

Sampling Positions and Analyses

By corner of trichloroethylene reservoir where there is a small opening under the dry ice tray: 100-200 ppm -occasional

Area around the entire degreaser: less than 75 ppm constant.

By exhaust of evacuation pump: less than 75 ppm constant.

Remarks The degreaser was operating normally when the analyses were made.

Supervisor W. H. Ketcham Date 12/12/46

Sampling Reference BL 257, P-81, 82

Analysis Reference

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 788

Copy Number 1

Service Report

Date of Service Trip 12-3-46

Location: Building 1024 Room or Area Room 4.- LIQUID DEGREASOR

L. L. Forward

Samples Taken Air analysis for trichloroethylene

Reason for Service Trip Requested by E. K. Mayer

Sampling Positions and Analyses

Analyses made at face level around degreasing well showed:

less than 75 ppm TCE, constant.

Remarks No degreasing operations were in progress. Degreasing well was charged with TCE and stirrer was running. Further analyses will be made when degreasing is in progress.

Supervisor M. H. Ketcham Date 12/12/46

Sampling Reference BL 257, P-82

Works Laboratory Depar t
Industrial Hygiene Section

Report Number IA 789

Copy Number 1

Service Report

Date of Service Trip 12-3-46

Location: Building 1024 Room or Area ~~Room 13~~

L. L. Forward

Samples Taken Air samples for analysis for fluoride smoke.

Reason for Service Trip Routine inspection.

Sampling Positions and Analyses

Face level to operator using soldering flux: 1.2 mg F smoke/cu. meter

Face level in aisle #3, no flux in use : less than 0.5 mg F smoke/cu.meter

Remarks Normal operations in progress.

Supervisor N. H. Ketcham Date 12/12/46

Sampling Reference BL 264, P-148

Analysis Reference BL 218, P-81

M-1333 (22 Oct. 46)

Works Laboratory Department
Industrial Hygiene Section

Report Number IIA 784

Copy Number 1

Service Report

Date of Service Trip 12-2-46

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken Air samples for analysis for Fluoride dust and smoke

Reason for Service Trip Routine Inspection

Sampling Positions and Analyses

Face level in center of aisle #1, no soldering in Progress:

less than 0.5 mg. F smoke/cu. meter.

Face level to operator soldering a small tube: 5 mg. F smoke/cu. meter

Remarks No odor of HF was noticed.

Supervisor N. H. Ketcham Date 12/12/46

Sampling Reference BL 257, P-81

BL 218, P-80

Works Laboratory Depar[illegible]ent
Industrial Hygiene Sec[illegible]

Report Number IIA 789

Copy Number 1

Service Report

Date of Service Trip 12-2-46

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken Air samples for mercury analysis

Reason for Service Trip Routine inspection.

Sampling Positions and Analyses

Face level, aisle #1, east end: 0.1 mg Hg/cu. meter

Face level, aisle #2, east end: 0.1 mg. Hg/cu. meter

Face level, aisle #3, center: less than 0.1 mg. Hg/cu. meter

Remarks Normal operations in progress, no mercury spills noticed.

Supervisor N. H. Ketcham Date 12/12/46

Sampling Reference BL 264, P-147

Analysis Reference BL 257, P-82

M-1333 (22 Oct. 46)

Works Laboratory Department
Industrial Hygiene Section

File MJ G.L.F.

Report Number HA-779

Copy Number 1

Service Report

Date of Service Trip 11-29-46

Location: Building 1024 Room or Area Room 13

L.L. Forward

Samples Taken Air samples for fluoride analysis

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Face level, aisle # 1, no soldering flux in use:

less than 0.5 mg fluoride smoke/Cu meter

Face level, aisle # 2, by operator using soldering flux:

less than 0.5 mg fluoride smoke/Cu meter

Remarks The first sample above represents normal room condition. The second sample represents atmosphere breathed by operator during silver soldering operation.

Supervisor N. H. Ketcham Date 12/27/46

Sampling Reference BL 264 P 147

Analysis Reference BL 218 P 79 & 80

Works Laboratory Depar t
Industrial Hygiene Sec...

Report Number HA 776

Copy Number 1

Service Report

Date of Service Trip 11-27-46

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken Air sample for fluorine analysis

Reason for Service Trip Routine inspection

Sampling Positions and Analyses The air sample was taken at face level in aisle #3.

0.01 PPM F_2

Remarks Normal operations in progress.

Supervisor N. H. Ketcham Date 12/12/46

Sampling Reference BL 264, P-146

Analysis Reference BL 2 8, P-79
M-1333 (22 Oct. 46)

Works Laboratory Department
Industrial Hygiene Section

Report Number IIA 765

Copy Number 1

Service Report

Date of Service Trip 11-25-46

Location: Building 1024 Room or Area Rooms 13 and 14

L. L. Forward

Samples Taken Air samples for mercury vapor analysis

Reason for Service Trip Routine inspection

Sampling Positions and Analyses The air samples were taken at face level as below:

Room 13, east end of aisle #1: 0.1 mg. Hg/cu. meter

Room 13, center of aisle #2: less than 0.1 mg. Hg/cu. meter

Room 13, center of aisle #3: less than 0.1 mg. Hg /cu. meter

Room 14, east end of room: less than 0.1 mg. Hg/cu. meter

Remarks Normal operation in progress. No mercury spills visible.

Supervisor W. H. Ketcham Date 12/4/46

Sampling Reference BL 264, P 142 and 143

Analysis Reference BL 218, P-77

M-1333 (22 Oct. 46)

Works Laboratory Department
Industrial Hygiene Section

Report Number HA 761

Copy Number 1

Service Report

Date of Service Trip 11-22-46

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken ~~Air samples for cadmium fume analysis~~

Reason for Service Trip Routine Inspection

Sampling Positions and Analyses Sample #1 was taken in aisle #1 at the work bench at face level by an operator silver soldering a valve on a sample tube. Sample #2 was taken in the same position as #1, while the same type soldering operation was in progress.

Sample #1: 0.05 mg. Cd/cu. meter.

Sample #2: 0.04 mg. Cd/cu. meter

Remarks

Supervisor W. H. Ketcham Date 11/29/46

Sampling Reference BL 264, P-142

Analysis Reference BL 264, P-142

M-1333 (22 Oct. 46)

Works Laboratory Depar[illegible]nt
Industrial Hygiene Sec[illegible]n

Report Number IIA 737

Copy Number 1

Service Report

Date of Service Trip 11-19-46

Location: Building 1024 Room or Area Room 12

L. L. FORWARD

Samples Taken:

Reason for Service Trip Telephone request from Mr. W. T. Allman

Sampling Positions and Analyses Odor of fluorine dispersed before our representative arrived.

Remarks Mr. Allman reported a strong odor of fluorine coming in the window of his office about twenty minutes before our representative arrived.

Supervisor N. H. Ketcham Date 11/29/46

Sampling Reference BL 218, p. 78

Analysis Reference BL 218, p. 74

M-1333 (22 Oct. 46)

Works Laboratory Department
Industrial Hygiene Section

Report Number IIA 248

Copy Number 1

Service Report

Date of Service Trip 11-18-46

Location: Building 1024 Room or Area Rooms 12 and 13

L. L. Forward

Samples Taken ~~Air samples for mercury vapor analysis~~

Reason for Service Trip Routine Inspection

Sampling Positions and Analyses ~~The air samples were taken at face level~~ as below:

Room 12, west end of room: less than 0.1 mg. Hg/cu. meter

Room 13, east end of aisle #3: 0.2 mg. Hg./ cu. meter

Room 13, center of aisle #2: 0.1 mg. Hg./ cu. meter

Room 13, center of aisle #1; less than 0.1 mg. Hg/ cu. meter

Remarks Normal operation in progress. No mercury spills visible.

Supervisor W. H. Ketcham Date 11/29/46

Sampling Reference BL 264, P. 136 and 137

Analysis Reference BL 218, P-75

M-1333 (22 Oct. 46)

Works Laboratory Depar nt
Industrial Hygiene Section

Report Number IIA 726

Copy Number 1

Service Report

Date of Service Trip 11/14/46

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken Air samples for cadmium fume analysis

Reason for Service Trip Routine Inspection

Sampling Positions and Analyses Samples 1,2, and 3 were taken at approximately 8 inches above the level of the operators face. Sample 4 was taken at normal face level to an operator who is standing up.

Sample #1: By silver soldering operation in southend of room: 0.04 mg. Cd/cu. meter.

Sample #2: By silver soldering operation in southend of room: 0.06 " " "

Sample #3: By silver soldering operation in southend of room: 0.04 " " "

Sample #4: Center of aisle #1 (south aisle) face level: 0.006 mg. Cd/cu. meter

Remarks The electrostatic precipitator was allowed to run only as long as soldering operation was in progress in Samples 1, 2, and 3. A 35 cu. ft. sample was taken in sample #4.

Supervisor N.H. Ketcham Date 11/20/46

Sampling Reference BL 257, P-80

Analysis Reference BL 257 - P-80
M-1333 (22 Oct. 46)

Works Laboratory Depar nt
Industrial Hygiene Section

MF1

Report Number IIA 728

Copy Number 1

Service Report

Date of Service Trip 11-11-46

Location: Building 1024 Room or Area Rooms 13 and 14

L. L. Forward

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine inspection

Sampling Positions and Analyses ~~The air samples were taken~~ at face level as below:

Room 13, Aisle #1: Less than 0.1 mg. Hg/cu. meter

Room 13, Aisle #2: Less than 0.1 mg. Hg/cu. meter

Room 13, Aisle #3: 0.2 mg. Hg/cu. meter

Room 14, east side of room: 0.1 mg. Hg/cu. meter.

Remarks Ventilation fans in room 14 operating. Normal operations in progress during sampling.

Supervisor M. H. Ketcham Date 11/20/46

Sampling Reference BL 264, P-130 & 131

Analysis Reference BL 218, P-71

M-1333 (22 Oct. 46)

Works Laboratory Depar nt
Industrial Hygiene Sect n

Report Number HA 713

Copy Number 1

~~RESTRICTED~~

Service Report

Date of Service Trip 11/6/46

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken Air samples for T analysis.

Reason for Service Trip Telephone call from Mr. W. T. Allman stating that PG from an unknown source was thought to be in the building.

Sampling Positions and Analyses Air samples were taken at face level as below:

East end of center aisle in Instrument Section: 0.00 mg. T/cu. meter

West end of center aisle in Instrument Section: 0.02 mg. T/cu. meter

Remarks No PG was seen or tasted by our technician during the sampling reported above. Some operators reported that they saw and tasted PG before our technician arrived.

Supervisor N. H. Ketcham Date 11/14/46

Sampling Reference BL 264, P - 128

Analysis Reference BL 264, P - 128

M-1333 (22 Oct. 46)

HA-713 — DECLASSIFIED —
by authority of: TW Selby 4/6/95
(CG-PGD-4) Classification Specialist MMES
(Authorized Declassifier's name and organization)
or
(Official declass. notice memo, TIC notice, etc.) 4/26/95
(Person making change) 4/26/95
(Document identification verified by) (date)

Works Laboratory Depar nt
Industrial Hygiene Sec on

Report Number HA 709

Copy Number 1

Service Report

Date of Service Trip 11/4/46

Location: Building 1024 Room or Area Rooms 13 and 14

L. L. Forward

Samples Taken Air samples for mercury vapor analysis

Reason for Service Trip Routine inspection

Sampling Positions and Analyses The air samples were taken at face level to operator at positions below:

Room 13, aisle No. 1: Less than 0.1 mg. Hg/cu. meter

Room 13, aisle No. 2: Less than 0.1 mg. Hg/cu. meter

Room 13, aisle No. 3: Less than 0.1 mg. Hg/cu. meter.

Room 13, just outside of door to Room 12: Less than 0.1 mg. Hg/cu. meter

Room 14, center of room: Less than 0.1 mg. Hg/cu. meter

Remarks Small amount of mercury spilled in the sink in aisle No. 1.

Supervisor M H Ketcham Date 11/4/46

Sampling Reference BL 264, P - 126

Analysis Reference BL 264, P - 126

M-1333 (22 Oct. 46)

Works Laboratory Depar ent
Industrial Hygiene Secti

Report Number IHA 764

Copy Number 1

Service Report

Date of Service Trip 10/30/46

Location: Building 1024 Room or Area Room 4 (clock repair)

L. L. Forward

Samples Taken Air analyzed for combustible mixture.

Reason for Service Trip Routine inspection

Sampling Positions and Analyses

Analysis with the Davis Vapotester gave a reading of 0.04 during kerosene degreasing operation.

Remarks Laboratory investigation of Davis Vapotester with kerosene, showed that a reading of 0.04 was well below a combustible gas mixture.

Supervisor N.H. Ketcham Date 11/7/46

Sampling Reference BL 264, P 120

Analysis Reference

M-1333 (22 Oct. 46)

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number IIA 673
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 10/11/46

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken **Air sample for mercury vapor**

Reason for Service Trip **Routine inspection**

Sampling Positions **Air sample was taken at face level in the east end of aisle No. 3.**

Analysis of Samples **Less than 0.1 mg. Hg/cu. meter**

Remarks **Aisles numbered from south to north in order.**

No mercury spills visible.

Supervisor W H Ketcham Date 10/15/46

Sampling Reference **BL 264, Page 107**

Analysis Reference **BL 218, Page 64**

M-1333

Research and Development Laboratory
Trouble-Shooting Section

Report Number 114 670
Copy Number 1

Dr. R. H. Lafferty, Jr.
Section Supervisor

Industrial Hygiene Service Report

Date of Service Trip 10/10/46 and 10/11/46

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken Air samples for mercury analysis.

Reason for Service Trip To correlate 24 hour analyses using selenium sulfide lamp with spot sampling and chemical analysis.

Sampling Positions See attached.

Analysis of Samples See attached.

Remarks

Supervisor M H Ketcham Date 10/15/46

Sampling Reference HL 264, Page 108, 109, and 110

Analysis Reference HL 218, Page 64

M-1333

Report No.: HA 670

Period covered by selenium sulfide lamp analysis

9:00 a.m. 10/10/46 through 9:00 a.m. 10/11/46

Analysis from Selenium Sulfide Lamp:

Location of Lamp	Analysis
Lamp #1, center of aisle #3	Less than 0.1 mg. Hg/cu. meter

Analysis by Chemical Method:

Time and Date Sample Taken	Sampling Position	Analysis
9:10 a.m., 10/10/46	Face level by lamp #1	0.1 mg. Hg/cu. meter
3:50 p.m., 10/10/46	Face level by Lamp #1	Less than 0.1 mg. Hg/cu. meter
9:00 a.m., 10/11/46	Face level by Lamp #1	Less than 0.1 mg. Hg/cu. me³

Aisles in Room 13 numbered from south to north in order.

No mercury spills visible.

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number IIA 669
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 10/9/46 and 10/10/46

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken Air samples for mercury analysis

Reason for Service Trip To correlate 24 hour analyses using selenium sulfide lamp with spot sampling and chemical analysis.

Sampling Positions See attached.

Analysis of Samples See attached.

Remarks

Supervisor N. H. Ketcham Date 10/15/46

Sampling Reference BL 264, Page 108

Analysis Reference BL 218, Pages 63 and 64

M-1333

Report No.: HA 669

Period covered by Selenium Sulfide Lamp Analysis

9:00 a.m. 10/9/46 through 9:00 a.m. 10/10/46

Analysis from Selenium Sulfide Lamp:

Location of Lamp	Analysis
Lamp No. 1: West end of aisle No. 3	Less than 0.1 mg. Hg/cu. meter

Analysis by Chemical Method

Time and Date Sample Taken	Sampling Position	Analysis
8:50 a.m., 10/9/46	Face level by Lamp #1	Less than 0.1 mg. Hg/cu. meter
3:50 p.m., 10/9/46	Face level by lamp #1	0.1 mg. Hg/cu. meter
9:00 a.m., 10/10/46	Face level by lamp #1	Less than 0.1 mg. Hg/cu. m r

Aisles in Room 13 numbered from south to north in order.

No mercury spills visible.

Research and Development Laboratory
Trouble-Shooting Section

Report Number HA 667
Copy Number 1

Dr. R. H. Lafferty, Jr.
Section Supervisor

Industrial Hygiene Service Report

Date of Service Trip 10/8/46 and 10/9/46

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken Air samples for mercury analysis

Reason for Service Trip To correlate 24 hour analyses using selenium sulfide lamp with spot sampling and chemical analysis.

Sampling Positions See attached.

Analysis of Samples See attached

Remarks

Supervisor W N Ketcham Date 10/11/46

Sampling Reference BL 264, Pages 106 and 107

Analysis Reference BL 218, Pages 62 and 63

M-1333

Report No.: HA 667

Period covered by selenium sulfide lamp analysis:

9:00 a.m. 10/8/46 through 9:00 a.m. 10/9/46

Analysis from Selenium Sulfide Lamp:

Location of Lamp	Analysis
Lamp. No. 1: East end of aisle #2	Less than 0.1 mg. Hg/cu. meter

Analysis by Chemical Method

Time and Date Sample Taken	Sampling Position	Analysis
9:10 a.m., 10/8/46	Face level by lamp No. 1	Less than 0.1 mg. Hg/cu. meter
3:30 p.m., 10/8/46	Face level by lamp No. 1	0.1 mg. Hg/cu. meter
8:40 a.m., 10/9/46	Face level by Lamp No. 1	Less than 0.1 mg. Hg/cu. meter

Aisles in Room 13 numbered from south to north.

No mercury spills visible.

Research and Development Laboratory
Trouble-Shooting Section
Dr. H. H. Lafferty, Jr.
Section Supervisor

Report Number HA-661
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 10/7/46 and 10/8/46

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken Air samples for mercury analysis

Reason for Service Trip To correlate 24 hour analyses using galenium sulfide lamp with spot sampling and chemical analysis.

Sampling Positions See attached

Analysis of Samples See attached

Remarks

Supervisor M H Ketcham Date 10/4/46

Sampling Reference NL 284, Pages 104, 105 and 106

Analysis Reference NL 214, Page 62

M-1333

Period Covered By Selenium Sulfide Lamp Analysis:
9:00 A.M. 10/7/46 thru 9:00 A.M. 10/8/46

Analysis from Selenium Sulfide Lamp:

Location of Lamp	Analysis
Lamp #1: Center of Aisle #2	Less than 0.1 mg Hg/cu. meter

Analysis by Chemical Method:

Time and Date - Sample Taken	Sampling Position	Analysis
9:10 A.M. 10/7/46	Face Level by Lamp #1	Less than 0.1 mg Hg/ cu. meter.
3:30 P.M. 10/7/46	Face Level by Lamp #1	0.1 mg Hg/cu. meter
9:00 A.M. 10/8/46	Face level by Lamp #1	Less than 0.1 mg Hg/cu. meter

Aisles in Room 2E numbered from south to north in order.

No mercury spills visible.

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number HA 659
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 10/7/46

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken Air sample for mercury analysis

Reason for Service Trip Routine Inspection

Sampling Positions Air sample was taken at face level at the west end of Aisle 12.

Analysis of Samples 0.2 mg Hg/cu. meter

Remarks No mercury spills noted.

Supervisor N H Ketcham Date 10/9/46

Sampling Reference SL 164, Page 104

Analysis Reference SL 215, Page 62

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number IIA 650
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 10/4/46

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken Air sample for mercury vapor analysis.

Reason for Service Trip Routine inspection.

Sampling Positions Face level at west end of aisle No. 2.

Analysis of Samples

Sample taken 9:20 a.m.: Less than 0.1 mg. Hg/cu. meter.

Sample taken 3:30 p.m.: Less than 0.1 mg. Hg/cu. meter.

Remarks No mercury spills noted.

Supervisor W H Ketcham Date 10/9/46

Sampling Reference BL 264, Page 102 + 104

Analysis Reference BL 218, Page 60 + 62

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. M. Lafferty, Jr.
Section Supervisor

Report Number IIA 649
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 10/3/46 and 10/4/46

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip To correlate 24 hour analyses using selenium sulfide lamp with spot sampling and chemical analysis.

Sampling Positions See attached.

Analysis of Samples See attached.

Remarks

Supervisor N H Ketcham Date 10/9/46

Sampling Reference BL 264, Page 102

Analysis Reference BL 218, Page 60

M-1333

Report No.: HA 649

Period covered by selenium sulfide lamp analysis: 9:00 a.m., 10/3/46 through 9:00 a.m., 10/4/46.

Analysis from selenium sulfide lamp:

Location of Lamp	Analysis
Lamp #1, North east end of aisle #1:	Less than 0.1 mg. Hg/cu. meter

Analysis by chemical method

Time and date sample taken	Sampling position	Analysis
3:50 p.m., 10/3/46	Face level in south east end of aisle #1	Less than 0.1 mg. Hg/cu. meter
4:00 p.m., 10/3/46	Face level by lamp #1	Less than 0.1 mg. Hg/cu. meter
9:10 a.m., 10/4/46	Face level by lamp #1	0.1 mg. Hg/cu. meter

Aisles in Room 13 numbered from south to north in order.

The bulb on lamp No. 2 burned out. No replacement bulbs have been located on the area.

No mercury spills visible.

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number IIA 648
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 10/2/46 and 10/3/46

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken Air samples for mercury vaper analysis.

Reason for Service Trip To correlate 24 hour analyses using selenium sulfide lamp with spot sampling and chemical analysis

Sampling Positions See attached.

Analysis of Samples See attached.

Remarks

Supervisor W H Ketcham Date 10/9/46

Sampling Reference RL 264, pages 99, 101, and 102

Analysis Reference RL 215, Page 60

L-1333

Report No.: HA 648

Period covered by selenium sulfide lamp analysis: 9:00 a.m., 10/2/46 through 9:00 a.m., 10/3/46.

Analyses from Selenium sulfide lamps:

Location of lamps	Analysis
Lamp No.1: North center of aisle #1:	Less than 0.1 mg. Hg/cu. meter
Lamp # 2: South center of aisle #1:	Less than 0.1 mg. Hg/cu. meter

Analysis by chemical method:

Time and Date sample taken	Sampling position	Analysis
9:40 a.m., 10/2/46	Face level by lamp #2	0.1 mg. Hg/cu. meter
9:50 a.m., 10/2/46	Face level by lamp #1	Less than 0.1 mg. Hg/cu. meter
3:30 p.m., 10/2/46	Face level by lamp #2	0.1 mg. Hg/cu. meter
3:40 p.m., 10/2/46	Face level by lamp #1	Less than 0.1 mg. Hg/cu. meter
9:30 a.m., 10/3/46	Face level by lamp #1	Less than 0.1 mg. Hg/cu. meter
9:40 a.m., 10/3/46	Face level by lamp #2	0.1 mg. Hg/cu. meter

Aisles in Room 13 numbered from south to north in order.

No mercury spills visible.

Works Laboratory Department
Industrial Hygiene Section

Report Number IIA 679

Copy Number 1

Service Report

Date of Service Trip 10/1/46 - 10/18/46

Location: Building 1024 & 1004-C Room or Area Rooms 13, 265 and 261

L. L. Forward; L. A. Smith

Samples Taken Air samples for cadmium analysis

Reason for Service Trip Request of Plant Hazards Committee

Sampling Positions and Analyses See attached

Remarks See attached

Supervisor W H Ketcham Date 10/30/46

Sampling Reference NL 257, Pages 71, 73, 74, 75, 76, 77
NL 257, Pages 71, 73, 76

Analysis Reference

M-1333 (22 Oct. 46)

Industrial Hygiene Section
Survey Report No. Cd - 1

Section Report
No. HA - 679

Report of Survey of Cadmium Fume Contamination
of the Atmosphere in the Vicinity of Silver Soldering Operations
in Building K-1024, Room 13; Bldg. K-1004-C, Rooms 261 and 265

Twenty-three air samples were taken for cadmium analysis during the period October 1, 1946 to October 18, 1946, inclusive. Only one analysis showed a cadmium concentration exceeding the generally accepted maximum allowable concentrations of 0.1 milligram cadmium per cubic meter of air.

The data is representative of the atmosphere operators breathe during the performance of the usual silver soldering operations on small pieces of work where the air circulates freely. We were unable to obtain any samples representative of cadmium concentrations which would accumulate in the atmosphere when silver soldering is done on large pieces in confined quarters.

A summary of the data is attached.

Date Sample Taken	Building	Room	Sampling Position	Description of Soldering Job	Analysis as Mg Cd./cu. Meter Air
10/1/46	1024	13	Face level by operator	Small tubing on tube racks	0.02
10/2/46	1024	13	South aisle, face level	No soldering while sample taken	0.01
10/4/46	1024	13	Face level by operator	Small tubing at work bench	0.02
10/4/46	1024	13	Face level by operator	Unsoldering large joint on tube rack	0.02
10/4/46	1024	13	Face level by operator	Small tubing on tube rack	0.01
10/7/46	1024	13	Face level by operator	Small tubing on tube rack	0.01
10/7/46	1024	13	Face level by operator	Chemical traps at work bench	0.01
10/7/46	1024	13	Face level by operator	Unsoldering joints on tube rack	0.01
10/8/46	1024	13	Face level by operator	Small tubing on tube rack	0.04
10/8/46	1024	13	South aisle, face level	No soldering while sample taken	0.00
10/9/46	1024	13	South aisle, face level	No soldering while sample taken	0.00
10/14/46	1024	13	Face level by operator	Small tubing on tube rack	0.02
10/18/46	1024	13	Face level by operator	Small tubing on tube rack	0.01
10/18/46	1024	13	Face level by operator	Metal braid to copper rod, at work bench	0.01
10/2/46	1004-C	265	Face level by operator	Large tubing at work bench	0.25
10/2/46	1004-C	265	Same as above sample	20 minutes after above sample	0.04
10/7/46	1004-C	265	Face level by operator	Bottoms on chemical traps at work bench	0.02
10/9/46	1004-C	261	Center of room, face lev.	No soldering while sample taken	0.00
10/11/46	1004-C	265	Face level by operator	Bottoms on chemical traps at work bench	0.00
10/11/46	1004-C	265	Face level by operator	Bottoms on chemical traps at work bench	0.00
10/11/46	1004-C	265	Face level by operator	Bottoms on chemical traps at work bench	0.00
10/14/46	1004-C	265	Face level by operator	Bottoms on chemical traps at work bench	0.01
10/14/46	1004-C	265	Face level by operator	Bottoms on chemical traps at work bench	0.01

HA 647

Research and Development Laboratory
Trouble-Shooting Section
Dr. R.H. Lafferty Jr.
Section Supervisor

Report Number _____
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 10-1-46 and 10-2-46

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken Air samples for mercury vapor analysis

Reason for Service Trip To correlate 24 hour analyses using selenium sulfide lamp with spot sampling and chemical analysis.

Sampling Positions See attached

Analysis of Samples See attached

Remarks

Supervisor W H Ketcham Date 10/4/46

Sampling Reference HL 264 Pages 98,99 and 101

Analysis Reference HL 218 Page 59

M-1333

Period covered by Selenium Sulfide Lamp Analysis: 9:00 A.M. 10-1-46 thru 9:00 A.M. 10-2-46

Analyses from Selenium Sulfide Lamps:

Location of Lamps:	Analysis:
Lamp # 1: Northwest corner of aisle # 1	Less than 0.1 mg Hg/cu meter
Lamp # 2: Southwest corner of aisle # 1	Less than 0.1 mg Hg/cu meter

Analyses by Chemical Method:

Time and date Sample taken	Sampling Position	Analysis
9:00 A.M. 10-1-46	Face level by Lamp #1	Less than 0.1 mg Hg/ cu meter
9:00 A.M. 10-1-46	Face level by Lamp # 2	0.1 mg Hg/cu meter
4:00 P.M. 10-1-46	Face level by Lamp # 1	0.1 mg Hg/cu meter
4:10 P.M. 10-1-46	Face level by Lamp # 2	0.1 mg Hg/cu meter
9:00 A.M. 10-2-46	Face level by Lamp # 2	0.1 mg Hg/cu meter
9:10 A.M. 10-2-46	Middle of aisle # 1	0.1 mg Hg/cu meter

Aisles in Room 13 numbered from south to north in order.

Mercury visible in the sink in the area near which the analyses were obtained.

Research and Development Laboratory
Trouble-Shooting Section

Report Number IIA 639
Copy Number 1

Dr. R. H. Lafferty, Jr.
Section Supervisor

Industrial Hygiene Service Report

Date of Service Trip 9-25-46

Location: Building 1024 Room or Area Rooms 13 and 14

L. L. Forward

Samples Taken Air samples for mercury analysis.

Reason for Service Trip Routine Inspection.

Sampling Positions Air samples were taken at face level as below.

Analysis of Samples

Room 13: Aisle #1: Less than 0.1 mg. Hg/cu meter.

Room 13: Aisle #2: Less than 0.1 mg. Hg/cu meter.

Room 13: Aisle #3: Less than 0.1 mg. Hg/cu meter.

In hallway outside Room 14: Less than 0.1 mg. Hg/cu meter.

Remarks Mercury spills noted in sink in Room 13. Nearly all windows in Room 13 open.

Supervisor M H Kelcham Date 10/1/46

Sampling Reference NL 264 Page 94 and 95

Analysis Reference NL 218 Page 57

K-1333

IIA 625

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number ____
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 9-20-46

Location: Building 1024 Room or Area Rooms 13 and 14

L. L. Forward

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine Inspection.

Sampling Positions Air samples were taken at face level except as indicated below.

Analysis of Samples Room 13, Aisle #1: less than 0.1 mg. Hg/cu meter.
Room 13, Aisle #2: less than 0.1 mg. Hg/cu meter.
Room 13, Aisle #3: less than 0.1 mg. Hg/cu meter.
Room 14, approximately 4 1/2 ft. above floor, over sink: less than 0.1 mg. Hg/cu met

Remarks
Aisles in Room 13 numbered from south to north in order. Nearly all windows in Room 13 open. Both exhaust fans in Room 14 operating.

Supervisor M H Ketcham Date 9/27/46

Sampling Reference HL 264 Page 88

Analysis Reference HL 257 Page 69

M-1333

IIA 616

Research and Development Laboratory
Trouble-Shooting Section

Report Number _____
Copy Number 1

Dr. R. F. Lafferty, Jr.
Section Supervisor

Industrial Hygiene Service Report

Date of Service Trip 9-18-46

Location: Building 1024 Room or Area Rooms 13 and 14

L. L. Forward

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine Inspection.

Sampling Positions Air samples were taken at face level as below.

Analysis of Samples Room 13, Aisle #1: less than 0.1 mg. Hg/cu meter.

Room 13, Aisle #2: less than 0.1 mg. Hg/cu meter.

Room 13, Aisle #3: less than 0.1 mg. Hg/cu meter.

Room 14, Aisle: Center of Room: less than 0.1 mg. Hg/cu meter.

Remarks

Supervisor M H Kelchtam Date 9/27/46

Sampling Reference NL 264, pages 86 and 87

Analysis Reference NL 264, Pages 86 and 87

M-1333

Research and Development Laboratory
Trouble-Shooting Section

Report Number IIA 609
Copy Number 1

Dr. R. H. Lafferty, Jr.
Section Supervisor

Industrial Hygiene Service Report

Date of Service Trip 9-16-46

Location: Building 1024 Room or Area Room 4

L.L. FORWARD

Samples Taken Air sample for mercury analysis.

Reason for Service Trip Routine Inspection.

Sampling Positions The air sample was taken at face level in the south portion of the room.

Analysis of Samples Less than 0.1 mg. Hg/cu meter.

Remarks Normal operations in progress.

Supervisor T. H. Ketcham Date 9/20/46

Sampling Reference MI 264 Page 64

Analysis Reference MI 264 Page 64

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number ____
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 9-10-46

Location: Building 1024 Room or Area Rooms 13 and 14

L. L. Forward

Samples Taken Air samples for mercury analyses.

Reason for Service Trip Routine Inspection.

Sampling Positions Air samples collected at face level as below:

Analysis of Samples

Room 13, center of room: less than 0.1 mg. Hg/cu meter.

Room 14, aisle #1: 0.2 mg. Hg/cu meter.

Room 14, aisle #2: less than 0.1 mg. Hg/cu meter.

Room 14, aisle #3: less than 0.1 mg. Hg/cu meter.

Remarks

A chemical trap was being blown out in aisle #1. No mercury visible on the floors.

Supervisor W H Ketcham Date 9/20/46

Sampling Reference M. 264 Page 79

Analysis Reference M. 257 Page 66

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number ...
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 9-10-46

Location: Building 1024 Room or Area Room 4

L. L. Forward

Samples Taken Air sample for mercury analysis.

Reason for Service Trip Routine Inspection.

Sampling Positions Air sample collected at face level thruout the room.

Analysis of Samples Less than 0.1 mg. Hg/cu meter.

Remarks Almost all doors and windows were open.

Supervisor H Kincaam Date 9/20/46

Sampling Reference SK 264 Page 79

Analysis Reference SK 257 Page 66

M-1333

Research and Development Laboratory
Trouble-Shooting Section

Report Number IIA 569
Copy Number 1

Dr. R. H. Lafferty, Jr.
Section supervisor Industrial Hygiene Service Report

Date of Service Trip 9-9-46

Location: Building 108 Room or Area Room 13

L. L. Howard

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Request of R. Williams.

Sampling Positions Air samples were taken at three level in aisle #3 as below.

Analysis of Samples

Above area of spilled mercury: 0.2 mg. Hg/cu meter

Approx. 6 ft. from area of spilled mercury: 0.1 mg. Hg/cu meter

Approx. 20 ft. from area of spilled mercury: 0.2 mg. Hg/cu meter

Remarks A mercury diffusion pump had broken in aisle #3 during the preceding night. The above samples were taken at 8:30 A.M., estimated as at least 8 hours after the pump broke.

Supervisor M H Ketcham Date 9/20/46

Sampling Reference M. 257 Page 65

Analysis Reference M. 257 Page 66

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. P. H. Lafferty, Jr.
Section Supervisor

Report Number HA 568
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 9-9-46

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken Air sample for mercury vapor analysis.

Reason for Service Trip Routine Inspection.

Sampling Positions The air sample was taken at face level in aisle #1.

Analysis of Samples 0.2 mg. Hg/cu meter.

Remarks A bottle of mercury had been dropped in aisle #1. The mercury was being cleaned up while the air sample was taken.

Supervisor W H Ketcham Date 9/20/46

Sampling Reference HL 264 Page 78

Analysis Reference HL 257 Page 66

M-1333

Research and Development Laboratory
Trouble-Shooting Section

Report Number [illegible] 502
Copy Number 1

Dr. R. H. Lafferty, Jr.
Section Supervisor

Industrial Hygiene Service Report

Date of Service Trip 9-4-46

Location: Building 1022 Room or ~~Area~~ 13 and 14

L.L. FORWARD

Samples Taken Air samples for mercury analyses.

Reason for Service Trip Routine Inspection.

Sampling Positions Air samples taken at face level as below:

Analysis of Samples

Room 13, Hole #1: less than 0.1 mg. Hg/cu meter

Room 13, Hole #2: less than 0.1 mg. Hg/cu meter

Room 13, Hole #3: less than 0.1 mg. Hg/cu meter.

Room 14, Center : less than 0.1 mg. Hg/cu meter.

Remarks

Doors and windows open in Room 13.

Exhaust fans running in room 14.

Supervisor WH Ketcham Date 9/18/46

Sampling Reference ~~M. 264, Page 75~~

Analysis Reference ~~M. 264, Page 75~~

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R.H. Lafferty, Jr.
Section Supervisor

Report Number [illegible] 563
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 8-30-46

Location: Building 1024 Room or Area Rooms 13 and 14

L . L. Forward

Samples Taken Air samples for mercury vapor analysis

Reason for Service Trip Routine Inspection

Sampling Positions The air samples were taken at face letel as below.

Analysis of Samples Room 13, Aisle #1: 0.2 mg Hg/cu. meter

Room 13, Aisle #2: Less than 0.1 mg. Hg/cu. meter

Room 13, Aisle #3: Less than 0.1 mg. Hg/cu. meter

Room 14, Center of Room: Less than 0.1 mg Hg/cu. meter

Remarks Mercury pump broken in Aisle #1 approximately two hours before these samples were taken. Mercury had been cleaned up immediately.

Aisles in room 13 numbered from south to north in order.

Supervisor T H Ketcham Date 9/17/46

Sampling Reference NL 264, Page 72 and 73

Analysis Reference NL 218, Pages 54 and 55

M-1333

Research and Development Laboratory
Trouble-Shooting Section

Report Number _____
Copy Number 1

Dr. R. H. Lafferty, Jr.
Section Supervisor

Industrial Hygiene Service Report

Date of Service Trip 8-29-46

Location: Building 1024 Room or Area _____

L. L. Forward

Samples Taken Air analyses for combustible gas. (Pyrofax)

Reason for Service Trip Request of R. Millican to locate source of Pyrofax leak.

Sampling Positions

Analysis of Samples

Remarks

The source of leakage was located and eliminated.

Supervisor W H Ketchum Date 8/30/46

Sampling Reference ML 213 Page 68

Analysis Reference _____

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number HA 549
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 8-27-46

Location: Building 1024 Room or Area Rooms 13 and 14

L. L. Forward

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine Inspection.

Sampling Positions Air samples were taken at face level as below

Analysis of Samples Room 13, Aisle #1: Less than 0.1 mg. Hg./cu. meter

Room 13, Aisle #2: Less than 0.1 mg. Hg./cu. meter

Room 13, Aisle #3: Less than 0.1 mg. Hg./cu. meter

Room 14, Center of room: Less than 0.1 mg. Hg./cu. meter

Remarks Aisles in room 13 numbered from south to north in order.

Both exhaust fans running in room 14.

Supervisor N H Ketcham Date 8/30/46

Sampling Reference BL 264 Page 70

Analysis Reference BL 218 Page 54

M-1333

HA-549 — DECLASSIFIED —
by authority of: TW Selby 4/6/95
(CG-PGD-4) Classification Specialist MMES
(Authorized Declassifier's name and organization)
or
(Official declass. notice memo, TIC notice, etc.) 4/26/95
(Person making change) (date) 4/26/95
(Document identification verified by)

HA 541

Research and Development Laboratory
Trouble-Shooting Section

Report Number _____
Copy Number 1

Dr. R. H. Lafferty, Jr.
Section Supervisor

Industrial Hygiene Service Report

Date of Service Trip 8-23-46

Location: Building 1024 Room or Area Rooms 13 and 14

L. L. Forward

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine Inspection.

Sampling Positions All samples were taken at face level as below.

Analysis of Samples Room 13, Aisle #1: 0.2 mg.Hg./cu. meter

Room 13, Aisle #2: 0.1 mg. Hg./cu. meter

Room 13, Aisle #3: Less than 0.1 mg.Hg./cu. meter

Room 14, center of room: Less than 0.1 mg. Hg./cu. meter.

Remarks Aisles in room 13 numbered from south to north in order. No mercury spills visible in room 13. Almost all windows in room 13 were open. Both exhaust fans running in room 14.

Supervisor W H Ketcham Date 8/30/46

Sampling Reference EL 264 Page 69

Analysis Reference EL 218 Page 52

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number _____
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 8-21-46

Location: Building 1024 Room or Area Rooms 13 and 14

L. L. Forward

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine Inspection

Sampling Positions Air samples were taken at face level as below.

Analysis of Samples Room 13, aisle #1: 0.1 mg. Hg/cu. meter.
Room 13, aisle #2: 0.2 mg. Hg/cu. meter.
Room 13, aisle #3: Less than 0.1 mg. Hg/cu. meter.
Room 14, center of room: Less than 0.1 mg. Hg/cu. meter.

Remarks Aisles in room 13 numbered from south to north, in order.
Both exhaust fans running in room 14.

Supervisor W H Ketcham Date 8/29/46

Sampling Reference NL 264 Page 67

Analysis Reference NL 218 Page 51

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number SA 516
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 8-14-46

Location: Building 1024 Room or Area Room 4

L. L. Forward

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine inspection.

Sampling Positions Air samples were taken at approximate face level as below.

Analysis of Samples

In front of bench #3: Less than 0.1 mg.Hg./cu. meter.

In front of bench #4: Less than 0.1 mg.Hg./cu. meter.

Remarks Almost all windows were open.

Supervisor N H Ketcham Date 8/19/46

Sampling Reference HL 264 Page 63 and 64

Analysis Reference HL 264 Page 63 and 64

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number HA 514
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 8-14-46

Location: Building 1024 Room or Area Rooms 13 and 14

L. L. Ferrari

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine Inspection

Sampling Positions Air samples were taken four feet above the floor in room 13 and at face level in room 14.

Analysis of Samples Room 13, aisle #1; less than 0.1 mg.Hg./cu. meter.
Room 13, aisle #3; less than 0.1 mg.Hg./cu. meter.
Room 13, aisle #5; less than 0.1 mg.Hg./cu. meter.
Room 14, center of room; 0.1 mg.Hg./cu. meter.

Remarks

Supervisor W. F. Ketcham Date 8/19/46

Sampling Reference NL 264 Page 65

Analysis Reference NL 264 Page 65

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number HA 502
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 8-8-46

Location: Building 1024 Room or Area Rooms 13 and 14

L. L. Forward

Samples Taken **Air samples for mercury vapor analysis.**

Reason for Service Trip **Routine inspection**

Sampling Positions **All samples were taken at face level as below.**

Analysis of Samples

Room 13, aisle #1: Less than 0.1 mg. Hg./cu. meter.

Room 13, aisle #2: 0.2 mg.Hg./cu. meter.

Room 13, aisle #3: 0.4 mg. Hg./cu. meter.

Remarks **Room 14, center of room: Less than 0.1 mg.Hg./cu. meter.**

Immediately prior to taking these samples a glass trap containing mercury was sealed into a tube rack in aisle #2.

Aisles in room 13 numbered from south to north.

Supervisor M H Kelchum Date 8/15/46

Sampling Reference ~~BL 264 Page 59 and 60~~

Analysis Reference ~~BL 218 Page 48~~

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number HA 507
Copy Number 1

Industrial Hygiene Service Report

1949 INV.-D

Date of Service Trip 8-7-46

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken Air samples for T and mercury vapor analysis.

Reason for Service Trip To evaluate possible T and mercury exposure resulting when a RF tube rack is disassembled.

Sampling Positions See Attached Sheet

Analysis of Samples See Attached Sheet

Remarks Further study of this operation will be made.

— DECLASSIFIED —
HA-507
by authority of: TW Selby 4/6/95
(CG-PGD-4) Classification Specialist NMBS
(Authorized Declassifier's name and organization)
or (Official declass. notice memo, TIC notice, etc.) 4/26/95 (date)
(Person making change)
(Document identification verified by) (date)

Supervisor M H Ketcham Date 8/19/46

Sampling Reference BL 215 Page 62

Analysis Reference BL 215 Page 48 and 49

M-1333

1038
Inv. 5-18-48
L. Trout

Inv. 9-27-46
L. T.

REPORT NO. HA 507

COPY NO. 1

Three air samples were all taken within one or two inches of the hot copper joints as they were unsoldered. The heat was applied for longer periods than usual in order to assure that maximum analyses would result. Further sampling will be required in order to evaluate the possible extent of personnel exposure under normal conditions.

Sample #1 was taken near several joints being opened on the feed side of the t ube rack. Analysis for T was made and showed none present.

Sample #2 was also taken near several joints being opened on the feed side of the tube rack. Analysis for mercury was made and showed mercury present in the order of only 0.1 mg.Hg./cu. meter.

Sample #3 was taken when the large line just upstream of the mercury diffusion pump was opened. Analysis for mercury was made and showed an unusually high mercury vapor concentration in the order of 30 to 50 mg.Hg./cu. meter.

NT

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number UA 289
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 8-6-46

Location: Building 1024 Room or Area Room 4

L. L. Forward

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine inspection

Sampling Positions Air samples were taken approx. 4 ft. above the floor as below.

Analysis of Samples

In front of bench #2: 0.1 mg Hg/cu meter

In front of bench # 26: Less than 0.1 mg Hg/cu meter

Remarks Most of the windows were open.

Supervisor MH Ketcham Date 8/12/46

Sampling Reference BL-264 page 58

Analysis Reference BL-218 page 48

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number 44 88
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 8-6-46

Location: Building 1024 Room or Area Rooms 13 and 14

L. L. Forward

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine inspection.

Sampling Positions All samples were taken approximately 4 ft. above the floor ~~in~~ AS below.

Analysis of Samples Room 13, aisle #1: Less than 0.1 mg Hg/cu meter

Room 13, aisle #2: Less than 0.1 mg Hg/cu meter

Room 13, aisle #3: Less than 0.1 mg Hg/cu meter

Room 14, ~~c~~enter of room: 0.1 mg Hg/cu meter

Remarks Aisles in room 13 numbered from south to north in order.

~~Most windows open and several fans running in room 13. Both fans running~~ in room 14.

Supervisor M H Ketcham Date 8/12/46

Sampling Reference BL-264 page 58

Analysis Reference BL-218 page 48

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number HA -78
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 8-1-46

Location: Building 1024 Room or Area Rooms 13 and 14

L. L. Forward

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine inspection.

Sampling Positions All air samples were taken at face level as below.

Analysis of Samples Room 13, aisle #1: Less than 0.1 mg Hg/cu meter

Room 13, aisle #2: 0.1 mg Hg/cu meter

Room 13, aisle #3: Less than 0.1 mg Hg/cu meter

Room 14, center of room: 0.1 mg Hg/cu meter

Remarks Aisles in room 13 numbered from south to north in order.

Almost all windows in room 13 open. Both fans in room 14 running.

Door between room 14 and hallway closed.

Supervisor F H Ketcham Date 8/12/46

Sampling Reference BL-264 page 55

Analysis Reference BL-218 page 46

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number HA-471
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 7-30-46

Location: Building 1024 Room or Area Rooms 13 and 14

L. L. Forward

Samples Taken Air samples for mercury vapor analysis

Reason for Service Trip Routine inspection

Sampling Positions As below

Analysis of Samples Room 13, face level in aisle #1: Less than 0.1 mg Hg/cu meter

Room 13, face level in aisle #2: Less than 0.1 mg Hg/cu meter

Room 13, face level in aisle #3: Less than 0.1 mg Hg/cu meter

Room 14, face level in center of room: Less than 0.1 mg Hg/cu meter

Remarks Most windows in room 13 open and several fans running.

Both ventilating fans in room 14 running and door to hallway open.

Supervisor W W Ketcham Date 8/6/46

Sampling Reference BL-264 page 53

Analysis Reference BL-218 page 45

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number MA 461
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 7-26-46

Location: Building 102h Room or Area Rooms 13 and 14

L. L. Forward

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine inspection

Sampling Positions As below

Analysis of Samples Room 13, face level in aisle #1: 0.1 mg Hg/cu meter

Room 13, face level in aisle #2: 0.1 mg Hg/cu meter

Room 13, face level in aisle #3: Less than 0.1 mg Hg/cu meter

Room 14, face level in front of hood: Less than 0.1 mg Hg/cu meter

Remarks Aisles in room 13 numbered from south to north in order. Most windows in room 13 open, and several fans running. Both ventilating fans in room 14 running.

Supervisor NH Ketcham Date 7/31/46

Sampling Reference BL-257 page 56

Analysis Reference BL-257 page 56

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number HA -60
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 7-24-46

Location: Building 1024 Room or Area Rooms 13 and 14

L. L. Forward

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine inspection

Sampling Positions As below

Analysis of Samples

Room 13, four feet from floor in aisle #1: Less than 0.1 mg Hg/cu meter

Room 13, four feet from floor in aisle #3: 0.1 mg Hg/cu meter

Room 14, four feet from floor in center of room: Less than 0.1 mg Hg/cu meter

Remarks Aisles in room 13 numbered from south to north in order. Most windows in room 13 open and several fans running. Both ventilating fans in room 14 running and door to hallway closed.

Supervisor M H Ketcham Date 7/31/46

Sampling Reference BL264 page 52

Analysis Reference BL264 page 52

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. E. Lafferty, Jr.
Section Supervisor

Report Number HA -51
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 7-18-46

Location: Building 1024 Room or Area Rooms 13 and 14

L. L. Forward

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine inspection.

Sampling Positions As below.

Analysis of Samples Room 13: face high aisle #1: Less than 0.1 mg Hg/cu meter
Room 13: face high in aisle #2: Less than 0.1 mg Hg/cu meter
Room 13: face high in aisle #3: Less than 0.1 mg Hg/cu meter
Room 14: face high in center of room: Less than 0.1 mg Hg/cu meter

Remarks Aisles in room 13 numbered from south to north in order.
Room 14: Both ventilators running - door closed
Room 13: Several fans running - most windows open.

Supervisor M H Ketcham Date 7/30/46

Sampling Reference NL-264 pages 50 & 51

Analysis Reference NL-264 pages 50 & 51

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number IHA -43
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 7-16-46

Location: Building 1024 Room or Area Room 4

L. L. Forward

Samples Taken Air samples for mercury vapor analysis

Reason for Service Trip Routine inspection

Sampling Positions Sample #1 was taken at the work bench top level in the north portion of the room. Sample #2 was taken at the same level in the south portion of the room.

Analysis of Samples Sample #1: Less than 0.1 mg Hg/cu meter

Sample #2: Less than 0.1 mg Hg/cu meter

Remarks

Supervisor N H Kelchan Date 7/19/46

Sampling Reference BL-257 page 52

Analysis Reference BL-257 page 52

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number HA 442
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 7-16-46

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine inspection

Sampling Positions As below

Analysis of Samples

Face level in aisle #1 about 6 ft. from sink: Less than 0.1 mg Hg/cu meter

Face level in aisle #2: Less than 0.1 mg Hg/cu meter

Face level in aisle #3: 0.2 mg Hg/cu meter

Remarks Aisles numbered from south to north in order.

No obvious explanation for result obtained in aisle #3.

Supervisor W H Ketcham Date 7/19/46

Sampling Reference BL-257 page 52

Analysis Reference BL-257 page 52

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number HA #38
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 7-12-46

Location: Building 1024 Room or Area Room 13

L. L. Forward

Samples Taken Air samples for mercury vapor analysis

Reason for Service Trip Routine inspection

Sampling Positions As below

Analysis of Samples

Face level in aisle #1: Less than 0.1 mg Hg/cu meter

Face level in aisle #2: Less than 0.1 mg Hg/cu meter

Face level in aisle #3: 0.2 mg Hg/cu meter

Remarks Aisles numbered from south to north in order. Almost all doors and windows open. Several fans running. There was no obvious explanation for the result obtained in aisle #3.

Supervisor W H Ketcham Date 7/9/46

Sampling Reference BL-257 page 51

Analysis Reference BL-257 page 51

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number HA 137
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 7-12-46

Location: Building 1024 Room or Area Room 4

L. L. Forward

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine inspection.

Sampling Positions As below

Analysis of Samples

Face level in extreme north part of room: Less than 0.1 mg Hg/cu meter

Face level about 3 ft. from sink along west wall: Less than 0.1 mg Hg/cu meter

Bench top level about 8 ft. from sink: Less than 0.1 mg Hg/cu meter

Remarks Almost all doors and windows open. Several fans running.

Supervisor W H Ketcham Date 7/19/46

Sampling Reference BL-257: page 51

Analysis Reference BL-257: page 51

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number HA 433
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 7-10-46

Location: Building 1024 Room or Area Rooms 13 & 14

L. L. Forward

Samples Taken Air samples for mercury vapor analysis

Reason for Service Trip Routine inspection

Sampling Positions As below

Analysis of Samples

Room 13: Face level between aisles #1 and #2: Less than 0.1 mg Hg/cu meter

Room 13: Four feet above floor in aisle #3: Less than 0.1 mg Hg/cu meter

Room 14: Four feet above floor in middle of room: Less than 0.1 mg Hg/cu meter

Remarks Almost all windows in room 13 were open. Exhaust fans in room 14 running. Door to room 14 was open.

Supervisor W. H. Ketchum Date 7/16/46

Sampling Reference BL-264: page 47 & 48

Analysis Reference BL-264: page 47 & 48

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number HA 420
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 7-2-46 and 7-3-46

Location: Building 1024 Room or Area Rooms 4, 13 and 14

Samples Taken Air samples for mercury vapor analyses.

Reason for Service Trip To evaluate the extent ventilation resulting from open doors and windows influences the mercury vapor analyses in these rooms.

Sampling Positions See attached sheet.

Analysis of Samples See attached sheet.

Remarks

Supervisor N H Ketcham Date 7/9/46

Sampling Reference BL-257 page 47; BL-264 page 45

Analysis Reference BL-257 page 47; BL-264 page 45

M-1333

MERCURY VAPOR ANALYSES IN BUILDING K-1024, ROOMS 4, 13, and 14

The first series of air samples was collected on July 2, between about 9:00 a/m/ and 10:30 a.m. Almost all the windows were open and the ventilating fans were all in operation.

The second series of air samples was collected on July 3, between about 7:00 a.m. and 8:00 a.m. The windows and doors had all been closed and all fans turned off for the past seven or eight hours. No windows were opened or fans turned on until after we had sampled, except in Room 14, where the two large ventilators were turned on just before we started taking the sample.

The third series of air samples was collected on July 3, between about 2:30 p.m. and 3:30 p.m. Almost all the windows were open and the ventilating fans were all in operation.

All air samples were collected at from three to five feet above the floor.

The aisles in Room 13 are numbered from south to north in order.

The results below are expressed as milligrams Hg/cubic meter of air sampled.

Room	Section of Room	1st Series	2nd Series	3rd Series
14	------	Less than 0.1	0.2	0.1
13	Aisle #1	Less than 0.1	0.1	Less than 0.1
13	Aisle #2	Less than 0.1	0.2	Less than 0.1
13	Aisle #3	Less than 0.1	0.1	0.1
4	North End	Less than 0.1	Less than 0.1	Less than 0.1
4	South End	Less than 0.1	Less than 0.1	Less than 0.1

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report No. HA 401
Copy No. 1

Industrial Hygiene Service Report

Date of Service Trip 6-27-46

Location: Building 1024 Room or Area Room 4

Samples Taken Air sample for mercury vapor analysis

Reason for Service Trip Routine inspection

Sampling Positions Air sample taken 4 ft. above the floor in front of bench #26

Analysis of Samples Less than 0.1 mg Hg/cu meter

Remarks Almost all windows open. Two fans running.

Supervisor W H Ketcham Date 7-9-46

Sampling Reference BL-264 page 42

Analysis Reference

M-1333

Research and Development Laboratory
Trouble-Shooting Section

Report No. HA-400
Copy No. 1

Dr. R. H. Laffety, Jr.
Section Supervisor

Industrial Hygiene Service Report

Date of Service Trip 6-27-46

Location: Building 1024 Room or Area Room 13 and 14

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine inspection

Sampling Positions As below

Analysis of Samples

Room 13, face level in aisle #1: Less than 0.1 mg Hg/cu meter

Room 13, 4 ft. above floor in aisle #2: Less than 0.1 mg Hg/cu meter

Room 14, 4 ft. above floor in center of room: Less than 0.1 mg Hg/cu meter

Remarks Aisles in room 13 numbered from south to north in order.

Almost all doors and windows open in room 13. Four fans running in room 13. Two fans running in room 14.

Supervisor W H Ketcham Date 7/9/46

Sampling Reference BL-264 page 42

Analysis Reference BL-264 page 42

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report No. HA 386
Copy No. 1

Industrial Hygiene Service Report

Date of Service Trip 6-20-46

Location: Building 1024 Room or Area Room 4

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine inspection

Sampling Positions As below

Analysis of Samples

Four ft. above floor near bench #3: Less than 0.1 mg Hg/cu meter

Four ft. above floor near bench #26: Less than 0.1 mg Hg/cu meter

Remarks Almost all windows open.

Supervisor W H Ketchum Date 6/22/46

Sampling Reference NL-264 page 36

Analysis Reference NL-264 page 36

M-1333

Research and Development Laboratory
Trouble-Shooting Section

Report No. HA 385
Copy No. _____

Industrial Hygiene Service Report 1

Dr. R. H. Lafferty, Jr.
Date of Service Trip _____
Section Supervisor _____

Location: Building 6-20-46 Room or Area _____

1024 Rooms 13 and 14

Samples Taken _____

Air samples for mercury vapor analysis.

Reason for Service Trip _____

Routine inspection

Sampling Positions _____

As below.

Analysis of Samples _____

Room 14: Four ft. above floor in front of sink: 0.1 mg Hg/cu meter

Room 13: Four ft. above floor in aisle # 3: Less than 0.1 mg Hg/cu meter

Remarks

Room 13: Five ft. above floor in aisle #1: Less than 0.1 mg Hg/cu meter

Aisles in room 13 numbered from south to north in order.

Water glass being applied to floors. Two small sinks replaced with large sink in room 14.

Supervisor H H Ketcham Date 6/27/46

Sampling Reference _____

Analysis Reference RL-264 page 37

M-1333

RL-264 page 37

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor Industrial Hygiene Service Report

Report No. HA 376
Copy No. 1

Date of Service Trip 6-18-46

Location: Building 102k Room or Area Room 4

Samples Taken Air sample for mercury vapor analysis.

Reason for Service Trip Routine inspection

Sampling Positions Air sample taken immediately above the surface of the work bench in the north end of the room.

Analysis of Samples Less than 0.1 mg Hg/cu meter

Remarks

Supervisor W H Ketcham Date 6/22/46

Sampling Reference ML-257 page 40

Analysis Reference ML-257 page 40

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor Industrial Hygiene Service Report

Report No. HA 379
Copy No. 1

Date of Service Trip 6-18-46

Location: Building 1024 Room or Area Room 13 and 14

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine inspection

Sampling Positions Room 13, face level in aisle #1: Less than 0.1 mg Hg/cu m

Room 13, face level in aisle #2: Less than 0.1 mg Hg/cu meter

Room 13, at bench top level near door to room 12: Less than 0.1 mg Hg/cu meter

Room 13, just above top of bench in south part of room: Less than 0.1 mg Hg/ m

Room 14, face level just inside door: Less than 0.1 mg Hg/cu meter

Analysis of Samples

Remarks Aisles in room 13 numbered from south to north, in order.

Supervisor W H Ketcham Date 6/21/46

Sampling Reference M-257 page 40

Analysis Reference M-257 page 40

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number HA 368
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 6-13-46

Location: Building 1024 Room or Area Room 4 and in hallway outside room 2.

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine inspection.

Sampling Positions Room 4, Spl #1: Just above the bench top of the next to the last unnumbered bench near the clock repair area.

Room 4, Spl #2: Just above the top of the last bench in the north end of the room.

In the hallway just outside room 2, approx. 3 ft. above the floor.

Analyses: Rm. 4, Spl #1: Less than 0.1 mg Hg/cu meter

Rm. 4, Spl #2: Less than 0.1 mg Hg/cu meter

In Hallway: Less than 0.1 mg Hg/cu meter

Remarks Almost all doors and windows were open.

Supervisor N H Ketcham Date 6/27/46

Sampling Reference MI-857 page 38

Analysis Reference MI-857 page 38

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number HA 369
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 6-13-46

Location: Building 1024 Room or Area Rooms 13 and 14

Samples Taken Air samples for mercury vapor analysis

Reason for Service Trip Routine inspection

Sampling Positions As below

Analysis of Samples

Room 13, face level aisle #1, near sink: Less than 0.1 mg Hg/cu meter

Room 13, face level in aisle #2, Less than 0.1 mg Hg/cu meter

Room 14, face level about 2 ft. inside room: Less than 0.1 mg Hg/cu meter

Remarks Aisles in room 13 numbered from south to north in order.
Almost all doors and windows open.

Supervisor M H Ketcham Date 6/27/46

Sampling Reference M-257 page 38

Analysis Reference

M-1333

Research and Development Laboratory
Trouble-Shooting Section

Report Number HA 362
Copy Number 1

Dr. R. H. Lafferty, Jr.
Section Supervisor

Industrial Hygiene Service Report

Date of Service Trip 6-11-46

Location: Building 1024 Room or Area Room 4

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine inspection

Sampling Positions As below

Analysis of Samples

Face level near bench # 36: Less than 0.1 mg Hg/cu meter

Face level near bench # 2: Less than 0.1 mg Hg/cu meter

Remarks Almost all windows open.

Supervisor N H Ketcham Date 6/14/46

Sampling Reference BL 264 Page 31

Analysis Reference BL 218 Page 40

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number HA 361
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 6-11-46

Location: Building 1024 Room or Area Rooms 13 and 14

Samples Taken Air samples for mercury vapor analysis

Reason for Service Trip Routine inspection

Sampling Positions As below

Analysis of Samples Room 14: Face level in front of sink: 0.1 mg Hg/cu meter
In hallway, four ft. above floor, just outside room 14: Less than 0.1 mg Hg/cu meter
Room 13: Area sample at face level in aisle # 1: Less than 0.1 mg Hg/cu meter
Room 13: Area sample at face level in aisle # 2: Less than 0.1 mg Hg/cu meter

Remarks Door to room 14 closed. Both fans in room 14 in operation.
Aisles in room 13 numbered from south to north in order.

Supervisor N H Ketcham Date 6/14/46

Sampling Reference BL-264 page 31

Analysis Reference BL-218 page 40

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number HA 350
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 6-6-46

Location: Building 1024 Room or Area Room 13

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine inspection

Sampling Positions AND ANALYSIS:

Face level above sink in aisle # 1	0.1 mg Hg/cu meter
As above after hot water run into sink for 15 min.	0.1 mg Hg/cu meter
Face level in aisle # 2	0.1 mg Hg/cu meter
One ft. above floor in aisle # 2	Less than 0.1 mg Hg/cu meter
One ft. below ceiling in aisle # 2	Less than 0.1 mg Hg/cu meter

Remarks

Aisles in room 13 numbered from south to north in order.

Supervisor W H Ketchum Date 6/14/46

Sampling Reference BL-264 page 28

Analysis Reference BL-264 page 28

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number HA 351
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 6-6-46

Location: Building 1024 Room or Area Room 4

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine inspection.

Sampling Positions As below.

Analysis of Samples

Face level, in front of bench # 34 .....Less than 0.1 mg Hg/cu meter

Face level, in front of bench # 9 .....Less than 0.1 mg Hg/cu meter

Face level, in area of clock repair ....Less than 0.1 mg Hg/cu meter

Remarks

Most of the windows were open.

Supervisor M H Ketcham Date 6/14/46

Sampling Reference BL-264 page 28

Analysis Reference BL-264 page 28

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number HA 341
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 6-4-46

Location: Building 1024 Room or Area Room 4

Samples Taken Air samples for mercury vapor analysis

Reason for Service Trip Routine inspection

Sampling Positions As below.

Analysis of Samples

At face level of operator working at bench in south aisle: less than 0.1 mg Hg/cu meter

Integrated area sample at face level in the middle of the room: 0.1 mg Hg/cu meter

Remarks Windows and doors open.

Supervisor N H Ketcham Date 6/12/46

Sampling Reference BL-257 page 32

Analysis Reference BL-257 page 32

M-1333

Research and Development Laboratory
Trouble-Shooting Section

Report Number HA 342
Copy Number 1

Dr. R. H. Lafferty, Jr.
Section Supervisor

Industrial Hygiene Service Report

Date of Service Trip 6-4-46

Location: Building 1024 Room or Area Room 13 and 14

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine inspection

Sampling Positions As below.

Analysis of Samples Face level above sink in aisle #1: 0.1 mg Hg/cu meter

Area sample at face level in aisle # 2: Less than 0.1 mg Hg/cu meter

Face level in room 14, near the door: less than 0.1 mg Hg/cu meter

Face level in hallway just outside room 14: 0.1 mg Hg/cu meter

Remarks Aisles in room 13 numbered from south to north in order.

No hot water had been run into sink before sample taken.

Room 14 door closed and ventilators running.

Supervisor W H Ketcham Date 6/12/46

Sampling Reference BL-257 page 32

Analysis Reference BL-257 page 32

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty Jr.
Section Supervisor

Report Number HA 328
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 5-31-46

Location: Building 1024 Room or Area ~~Entire Building~~

Samples Taken Air samples for mercury vapor analysis

Reason for Service Trip Routine inspection

Sampling Positions AND ANALYSES

Room 13: 6 inches above drain in sink in south aisle: 0.2 mg T/cu meter

Room 13: Immediately above the top of work table in south aisle: less than 0.1 mg Hg/cu meter

Room 14: Face level near the door, both fans running: 0.1 mg Hg/cu meter

Hallway outside room 14: Face level just outside room 14: 0.1 mg Hg/ cu meter

~~Analysis of Samples~~

Corner of hallway between rooms 10 and 17 at face level: less than 0.1 mg Hg/cu meter

Corner of hallway between rooms 2 and 24 at face level: less than 0.1 mg Hg/cu meter

Room 4: Face level in clok repair section of room: less than 0.1 mg Hg/ cu meter

Remarks Hot water run into the sink in room 13 for a ten minute period before the first sample above was taken.

Supervisor N H Ketcham Date 6/11/46

Sampling Reference ~~BL 257 Page 30~~

Analysis Reference BL 257 Page 30

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty Jr.
Section Supervisor

Report Number HA 315
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 5-28-46

Location: Building 1024 Room or Area ENTIRE BUILDING

Samples Taken ~~Air samples for mercury vapor analysis~~

Reason for Service Trip ~~Routine inspection~~

Sampling Positions AND ANALYSES

~~Room 13: integrated area sample in south aisle, face high: 0.3 mg Hg/cm meter~~

~~Room 14: face level near work bench: 0.1 mg Hg/cm meter~~

~~Hallway outside room 14, face level: less than 0.1 mg Hg/cm meter~~

~~Face level in hallway between rooms 10 and 17: less than 0.1 mg Hg/cm meter~~

~~Analysis of Samples~~

~~Face level in hallway between rooms 2 and 24: less than 0.1 mg Hg/cm meter~~

~~Room 4: integrated area sample south end of room: 0.1 mg Hg/cm meter~~

Remarks ~~All doors and windows closed in rooms #13 AND #4.~~

~~Ventilator running in room 14.~~

Supervisor W W Ketcham Date 6/5/46

Sampling Reference ~~HL 257 Page 28~~

Analysis Reference ~~HL 257 Page 28~~

M-1333

Research and Development Laboratory
Trouble-Shooting Section

Report Number HA 318
Copy Number 1

Dr. R. H. Lafferty Jr.
Section Supervisor

Industrial Hygiene Service Report

Date of Service Trip 5-24-46

Location: Building 1024 Room or Area Room 13

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip To evaluate extent to which the sink at the west end of the south aisle contributes to the mercury vapor content of the atmosphere.

Sampling Positions Sample #1 was taken inside the sink while it was not in use. Sample #2 was taken inside the sink after hot water had been running for 15 minutes.

Analysis of Samples

Sample #1: less than 0.1 mg Hg/cu meter.

Sample #2: 0.3 mg Hg/cu meter.

Remarks

Supervisor W H Ketcham Date 6/11/46

Sampling Reference BL 264 Page 21

Analysis Reference BL 264 Page 21

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty Jr.
Section Supervisor

Report Number HA 317
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 5-24-46

Location: Building 1024 Room or Area Room 13

Samples Taken Air samples for mercury vapor analysis

Reason for Service Trip Routine inspection

Sampling Positions Aisles numbered from south to north in order. Janitor sweeping the aisle while sample being taken in aisle #2.

Analysis of Samples Integrated area sample aisle #2, four feet above floor: 0.1 mgHg/cu meter

Center of aisle #1, four feet above floor: less than 0.1 mg Hg/cu meter

Center of aisle #1, six inches above floor: less than 0.1 mg Hg/cu meter

Center of aisle #1, one foot below ceiling: 0.1 mg Hg/cu meter

Remarks

Normal operations in progress.

Supervisor N H Ketcham Date 6/11/46

Sampling Reference BL 264 Page 20 and 21

Analysis Reference BL 264 Page 21

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty Jr.
Section Supervisor

Report Number HA 316
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 5-24-46

Location: Building 1024 Room or Area Room 4

Samples Taken Air sample for mercury vapor analysis

Reason for Service Trip Routine inspection

Sampling Positions Air sample was taken approximately four feet above the floor in front of work table #26

Analysis of Samples Less than 0.1 mg. Hg/cu meter

Remarks Open beaker of mercury on table top. Spilled mercury visible on table top and on floor.

Supervisor N H Ketcham Date 6/11/46

Sampling Reference BL 264 Page 20

Analysis Reference BL 264 Page 20

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty Jr.
Section Supervisor

Report Number HA 300
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 5-20-46

Location: Building 1024 Room or Area Rooms #13 and #14.

Samples Taken Air samples for mercury vapor analysis

Reason for Service Trip Routine inspection

Sampling Positions All samples taken at approximately face level. Aisles in roon #13 numbered from south to north in order.

Analysis of Samples

Room #13

Aisle #1, integrated area: 0.1 mg Hg/cu meter

Aisle #2, integrated area: 0.1 mg Hg/cu meter

Aisle #3, integrated area: Less than 0.1 mg Hg/cu meter

In doorway to room # 14: less than 0.1 mg Hg/cu meter

Remarks Ventilators in room #14 running

Supervisor W H Ketcham Date 6/5/46

Sampling Reference BL 257 Page 22

Analysis Reference BL 257 Page 22

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number AECD 298
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 5-20-46

Location: Building 1024 Room or Area Room # 4

Samples Taken Air samples for mercury vapor analysis

Reason for Service Trip Routine inspection

Sampling Positions As below

Analysis of Samples

Face level in area near first (south) bench: less than 0.1 mg Hg/cu meter

Face level of operator working at bench: less than 0.1 mg Hg/ cu meter.

Remarks

Supervisor W. H. Ketcham Date 6/5/46

Sampling Reference BL-257 Page 22

Analysis Reference BL-257 Page 22

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty Jr.
Section Supervisor

Report Number AE A294
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 5-17-46

Location: Building 1024 Room or Area Room #4

Samples Taken Air sample for mercury vapor analysis.

Reason for Service Trip To initiate periodic routine inspection.

Sampling Positions Air sample taken approximately five feet above the floor in an area midway between the first two work benches in the south end of room # 4.

Analysis of Samples Less than 0.1 mg Hg/cu meter of air.

Remarks Windows open.

Supervisor N H Ketcham Date 6/5/46

Sampling Reference BL-264 Page 15

Analysis Reference BL-264 Page 15

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty Jr.
Section Supervisor

Report Number AL-A-293
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 5-17-46

Location: Building 1024 Room or Area ~~Rooms # 13 and # 14~~

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip ~~Routine inspection.~~

Sampling Positions and analyses:

Room # 14, face level in area in front of hood and sink: 0.1 mg Hg/cu meter.

Four feet above floor in doorway to room # 14: less than 0.1 mg Hg/cu meter.

Room # 13: Aisle #1, integrated area sample face level: less than 0.1 mg Hg/cu meter.

Room # 13: Aisle #2, intergrated area sample face level: 0.1 Mg Hg/cu meter.

~~Room # 13: Aisle #3, integrated area sample face level: Less than 0.1 mg Hg/cu meter.~~

Remarks The room previously identified as #14 is now renumbered to # 13.

~~The room previously called the cleaning room is now numbered # 14.~~

Room # 13 aisles numbered from south to north in order.

Room # 14 ventilators running.

Supervisor W H Ketcham Date 6/5/46

Sampling Reference BL 264 Page 15

Analysis Reference BL 264 Page 15

M-1333

NHK

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number AE A280
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 5-15-46

Location: Building 1024 Room or Area # 14 and Cleaning Rooms

Samples Taken Air samples for mercury vapor analysis.

Reason for Service Trip Routine inspection

Sampling Positions All samples taken at face level. Aisles in room # 14 numbered from south to north in order.

Analysis of Samples Room # 14

Integrated area sample, aisle #1: 0.1 mg Hg/cu meter
Integrated area sample, aisle #2: 0.1 mg Hg/cu meter
Integrated area sample, aisle # 3: 0.1 mg Hg/cu meter

Cleaning Room - At work bench: 0.1 mg Hg/cu meter

Remarks Mercury droplets visible on the floor and line recorder pump frames in room # 14.

Ventilation system in operation in cleaning room. Some mercury droplets on cleaning room work bench.

Supervisor N H Ketcham Date 5/27/46

Sampling Reference BL-257 page 19

Analysis Reference BL-213, page 54

M-1333

MHK

Research and Development Laboratory
Trouble-Shooting Section
Dr. R.H. Lafferty, Jr.
Section Supervisor

Report Number AEA 269
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 5-13-46

Location: Building 1024 Room or Area Cleaning Room

Samples Taken Air analyses for Trichloroethylene

Reason for Service Trip Routine inspection

Sampling Positions Air analyses were made immediately in front of the hood containing uncovered beakers of trichloroethylene, and near the trichloroethylene storage cans.

Analysis of Samples Both locations gave negative analyses.

Remarks Both the large and small ventilating fans were operating.

Supervisor M.H. Ketcham Date 5/21/46

Sampling Reference BL 264 Page 9

Analysis Reference

M-1333

NHK

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
~~Lab't'y~~ Section Supervisor

Report Number AE A278
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 5-13-46

Location: Building 1024 Room or Area # 14 and Cleaning Rooms

Samples Taken Air samples for mercury vapor analysis

Reason for Service Trip Routine inspection

Sampling Positions Aisles in room # 14 numbered from south to north, in order. Cleaning room, integrated area sample, face high, along fronts of sink and hood: 0.2 mg Hg/cu meter

In hall by door to cleaning room, 2 ft. above floor: 0.2 mg Hg/cu meter

Room # 14 aisle # 1, integrated area sample, face level: 0.2 mg Hg/cu meter

~~Analysis of Samples~~

Room # 14, aisle # 2, integrated area sample, face level: 0.05 mg Hg/cu meter

Room # 14, aisle # 3, integrated area sample, face level: 0.2 mg Hg/cu meter

Remarks Ventilation system in cleaning room in operation.

Supervisor W. H. Ketcham Date 5/27/46

Sampling Reference BL-264 page 9

Analysis Reference BL-264 page 9

M-1333

JHK

Research and Development Laboratory
Trouble-Shooting Section
Dr. R.H. Lafferty, Jr.
Section Supervisor

Report Number AEA 276
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 5-10-46

Location: Building 1024 Room or Area # 14 and cleaning Rooms

Samples Taken Air samples for mercury vapor analysis

Reason for Service Trip Routine inspection

Sampling Positions All samples taken at face level

Aisles in room 14 numbered from south to north in order.

Analysis of Samples Room # 14:
Integrated area sample, aisle # 1: 0.1 mg Hg/cu meter
Integrated area sample, aisle # 2: 0.1 mg Hg/cu meter
Integrated area sample, aisle # 3: 0.05 mg Hg/cu meter
Cleaning Room: Along front of sink & hood: 0.1 mg Hg/cu meter

Remarks Cleaning room ventilators were in operation.
These ventilators draw air in part from room # 14.

Supervisor W. F. Ketcham Date 5/24/46

Sampling Reference BL 264, Page 8

Analysis Reference BL 264 Page 8

M-1333

Research and Development Laboratory
Trouble-Shooting Section

Report Number AEC 261
Copy Number 1

R. H. Lafferty, Jr.
Section Supervisor

Industrial Hygiene Service Report

Date of Service Trip 5-8-46

Location: Building 1024 Room or Area # 14 and Cleaning Room

Samples Taken Air samples for mercury vapor analysis

Reason for Service Trip Routine inspection

Sampling Positions Air samples were taken at face level in the three aisles in room 14 (aisles numbered from south to north), and at face level along the fronts of the hood and sink in the cleaning room.

Analysis of Samples In front of hood and sink - cleaning room: 0.1 mg Hg/cu meter

Room 14 aisle # 1: 0.2 mg Hg/cu meter

Room 14 aisle # 2: 0.1 mg Hg/cu meter

Room 14 aisle # 3: 0.1 mg Hg/cu meter

Remarks Ventilating system in cleaning room had been out of order. Turned on as sample was being taken.

Routine operations and remodeling activities in progress in room 14.

Supervisor W. H. Ketcham Date 5/14/46

Sampling Reference BL-264 - p.6 & 7

Analysis Reference BL-264 - p.6 & 7

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number AEC 259
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 5-8-46

Location: Building 1024 Room or Area Cleaning Room

Samples Taken Air analyses for phosgene

Reason for Service Trip To demonstrate formation of phosgene when trichloroethylene spills onto a hot plate.

Sampling Positions Analyses were made just below the top outside edge of hood opening and in the hood near a hot plate on which trichloroethylene had been deliberately boiled over.

Analysis of Samples Analyses in both positions showed phosgene present.

Remarks The hood duct was not connected. Small ventilating fan in cleaning room running. Large ventilating fan not running.

Supervisor W. H. Ketcham Date 5/13/46

Sampling Reference BL-257 p. 12

Analysis Reference

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number AEA 257
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 5-8-46

Location: Building 1024 Room or Area Cleaning Room

Samples Taken Air analyses for trichloroethylene

Reason for Service Trip To evaluate possible exposure to trichloroethylene resulting from manual degreasing operation.

Sampling Positions Analyses made as below:

Face high, in front of hood in which degreasing done: 200-300 ppm

Near operator pouring trichloroethylene into beaker: 300-500 ppm

Near operator observing the degreasing of small pieces in a beaker of hot trichloroethylene on hot plate under hood: 200-300 ppm

Analysis of Samples

Remarks The hood duct was not connected. Small ventilating fan in cleaning room running. Large ventilating fan not running.

Supervisor W. H. Ketcham Date 5/13/46

Sampling Reference BL-257 p.12

Analysis Reference

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section Supervisor

Report Number AEC 251
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 5-6-46

Location: Building 1024 Room or Area Room 14

Samples Taken Air samples for mercury vapor

Reason for Service Trip Routine inspection

Sampling Positions General area samples taken at face level in the three aisles, numbered from south to north.

Analysis of Samples

Aisle # 1: 0.3 mg Hg/cu meter

Aisle # 2: 0.2 mg Hg/cu meter

Aisle # 3: 0.1 mg Hg/cu meter

Remarks Mercury visible on the floor in aisle # 1. Open dishes of mercury observed on the tables.

Supervisor W. K. Ketcham Date 5/8/46

Sampling Reference BI-264, p. 3

Analysis Reference BI-264, p. 3

M-1333

NHK

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Lab. D, Section Supervisor

Report Number AEA 249
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 5-3-46

Location: Building 1024 Room or Area Room 14

Samples Taken Air samples for mercury vapor

Reason for Service Trip Routine inspection

Sampling Positions General area samples teken at face level in the three aisles, numbered from south to north.

Analysis of Samples

Aisle # 1: 0.2 mg Hg/cu meter

Aisle # 2: 0.1 mg Hg/cu meter

Aisle # 3: 0.2 mg Hg/cu meter

Remarks

Supervisor N. H. Ketcham Date 5/8/46

Sampling Reference BL-264 p.2&3

Analysis Reference BL-264 p. 2 & 3

M-1333

VHL

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty, Jr.
Section supervisor

Report Number AEA 237
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 5-1-46

Location: Building 1024 Room or Area ~~Room 14~~

Samples Taken Air samples for mercury vapor

Reason for Service Trip ~~Routine inspection~~

Sampling Positions ~~All samples taken to represent atmosphere operators would breath when working in the areas.~~

Analysis of Samples ~~In aisle nearest outside entrance: 0.05 mg Hg/cu meter~~
~~In aisle next nearest to outside entrance: 0.05 mg Hg/cu meter~~
~~In front of hood and sink in cleaning room: 0.0 mg Hg/cu meter~~
~~By operator removing plug from mercury trap at north work bench: 0.2 mg Hg/cu meter~~

Remarks

Supervisor W. H. Ketcham Date 5/8/46

Sampling Reference ~~BL-264, p. 1~~

Analysis Reference ~~BL-264, p. 1~~

M-1333

Research and Development Laboratory
Trouble-Shooting Section
Dr. R. H. Lafferty Jr.
Section Supervisor

Report Number AEA 233
Copy Number 1

Industrial Hygiene Service Report

Date of Service Trip 4-26-46

Location: Building 1024 Room or Area Line Recorder Repair

Samples Taken Air samples for mercury analysis

Reason for Service Trip Routine inspection

Sampling Positions Air samples were taken in the immediate area of the two groups of line recorder pumps. A general room air sample was taken in the equipment wash room.

Analysis of Samples

Near north group line recorder pumps : 0.05 mg Hg/cu meter

Near south group line recorder pumps: 0.2 mg Hg/cu meter

Equipment wash room: 0.05 mg Hg/cu meter

Remarks

There was no visible evidence that any mercury spills had occurred.

Supervisor W. K. Ketchum Date 5/6/46

Sampling Reference BL-257 Pages 2

Analysis Reference BL-257 Page 2

M-1333

THK

Date 2-6-46

WORKS LABORATORY SAMPLE REPORT

Report No. AEC 208

Department Industrial Hygiene

Dept. Supervisor E. Staple

Copy No. 1

Description Sequence No. Time Received Time Completed

SAMPLE Air samples for mercury analysis 2/5/46

Source of Sample 1024 Building Section # 14 and adjacent rooms

RESULTS: By sink, face high - Hg present but less than 0.1 mg /cu meter

Mid Room, face high - 0.2 mg / cu meter

Machine Shop, face high - Hg present but less than 0.1 mg /cu meter

Acid Cleaning Room, face high -Hg present less than 0.1 mg/cu meter

Office, face high - Hg present but less than 0.1 mg/cu meter

Face high, in area where line recorder pump broken 2/4/46 - 0.1 MgHg/cu meter/

Date Book No. BL 213 Page No. 34 Operator R.H. Rainey

MU-24 Supervisor N. Ketcham