

752
A-2-10-10

JULY 28, 1986

PLAINTIFF'S EXHIBIT

SH-925

A. F. SCHMIT
DEER PARK MFG. COMPLEX

A1:

You'll note that the DPMC data includes considerable data that doesn't appear in the HSS. This was selectively extracted from "the books" last month when I visited. Peak data, non-TWA samples and area measurements have been excluded.

Attachment

P. J. Snyder

BT8620901

P. J. SNYDER

DPMC-05823

LAM 009383



Shell Oil Company
Interoffice Memorandum

JULY 28, 1986

FROM: SR. INDUSTRIAL HYGIENIST, HEALTH & SAFETY, MFG. & TECH.
TO: SEE ATTACHED DISTRIBUTION LIST
SUBJECT: ASBESTOS MONITORING SUMMARY

Attached for your information is a preliminary summary of eight-hour TWA monitoring data collected at Shell locations since 1978. Generally this summary reflects data entered into the Health Surveillance System.

The purpose of reviewing the data collectively is to aid in assessing the exposure potential of generic tasks throughout Shell Manufacturing and to identify opportunities for sharing successful control strategies. This review is not intended to substitute for the "initial determination" required under the revised asbestos standard.

Please note that the following definitions were used in categorizing the monitoring data by type of exposure potential.

"Major Removal" - The objective of the job monitored was in fact asbestos removal. Examples would include demolition work and the removal of insulation on two exchangers during a turnaround. This category also includes laborers cleaning up debris.

"Incidental Exposure" - The purpose of the job monitored was other than insulation stripping and the exposure occurred as a natural consequence of the work done. Examples include working on piping immediately adjacent to exposed asbestos, an operator knocking insulation out of the way, carpenters building scaffolding next to exposed asbestos, etc.

"Other" - The employee monitored worked in the vicinity of the potential exposure, but had no known direct contact. Examples include a hole watch, an operator who is responsible for an area where a removal operation is underway, employees working downwind of removal operations, etc.

The other categories such as brake repair, inside demolition, transite cutting, and gasket handling appear to be self-explanatory.

Although this database will be updated as additional TWA data is submitted, the preliminary data does appear to suggest that differences do exist between locations, especially in the category of "major removal". Comments and suggestions on the proposed approach are welcome.

BT8620602

DPMC-05824

LAM 009384

As we become more familiar with the asbestos exposure potential for each exposure-task category, it would also be useful to better understand the underlying workpractices. Accordingly, it is requested that currently available written procedures for handling asbestos be submitted to Health & Safety, Mfg. & Tech. Either a generic procedure incorporating the best of approaches will be prepared or the most comprehensive will be shared with other locations.

Thanks again.

Phil Snyder

P. J. Snyder

PJS:bjd

Attachment

cc: A. D. Ditmar
J. D. Ransdell
J. L. Rivard

ENVIRONMENTAL/IND. HYGIENE	
DATE 7-27-86	NAME <i>A. J. Ditmar</i>
☐	Return Document to File
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INDUSTRIAL HYGIENE REPRESENTATIVES

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DEER PARK MANUFACTURING COMPLEX
A. F. SCHMIT

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M. T. BARCLAY

MARIETTA PLANT
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MARTINEZ MANUFACTURING COMPLEX
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NORCO MANUFACTURING COMPLEX
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WOODBURY PLANT
R. NOCCO

WOOD RIVER MANUFACTURING COMPLEX
W. M. CUNNINGHAM

SUMMARY OF ASBESTOS MONITORING DATA ON FILE
NO. OF SAMPLES COLLECTED BY EXPOSURE RANGE

CATEGORY: MAJOR REMOVAL

LOCATION	MEASUREMENT CATEGORIES IN F/CC, 8 HOUR TWA						Σ > .1 F/CC FG THIS LOCATION
	TOTAL NUMBER	.01-.05	.06-.10	.11-.15	.16-.2	>.2	
DPMC	38	22	7	2	2	5	23.68%
NORCO	9	2	1	0	2	4	66.67%
WILMINGTON	18	8	8	2	0	0	11.11%
WOODBURY	2	1	1	0	0	0	N/A
WOODRIVER	12	0	2	1	2	7	83.33%
MARTINEZ	0						
GEISMAR	0						
TOTAL	79	33	19	5	6	16	
PERCENT EXCEEDING .05 F/CC			58.00%				
PERCENT EXCEEDING .10			34.00%				
PERCENT EXCEEDING .2			20.00%				

CATEGORY: OTHER

DPMC	0	0	0
NORCO	0	0	0
WILMINGTON	11	9	2
WOODBURY	0	0	0
WOODRIVER	4	3	1
MARTINEZ	5	5	0
GEISMAR	2	2	0
TOTAL	22	19	3
PERCENT EXCEEDING .05%		13.64%	

CATEGORIES OF POTENTIAL EXPOSURE	
A.	INTERIOR DEMOLITION
	DEMOLITION, STRIPPING, & CLEANUP
B.	MAJOR REMOVAL
C.	INCIDENTAL EXPOSURE
D.	BRAKE REPAIR
E.	TRANSITE CUTTING
F.	TRANSITE REMOVAL & INSTALLATION
G.	HANDLING OF GASKETING MATERIAL
H.	OTHER

CATEGORY: INCIDENTAL EXPOSURE

DPMC	0				
NORCO	0				
WILMINGTON	18	14	3	0	1
WOODBURY	0				
WOODRIVER	1	1	0	0	0
MARTINEZ	0				
GEISMAR	0				
TOTAL	19	15	3	0	1
PERCENT EXCEEDING .05		21.05%			

DPMC-05827

LAM 009387

SUMMARY OF ASBESTOS MONITORING DATA FOR SELECTED SHELL LOCATIONS - INCLUDES ONLY PERSONAL EXPOSURE DATA

LOCATION	DATE	SHIFT TIME (MIL.)	WORK ACTIVITY	EXPOSURE CATEGORY	MEASURED VALUE (f/cc)	CALC. BR. THAI (f/cc)	WHO DID THE WORK	WHERE
MC = WILMINGTON GP = BELSVAR LMC = DEER PARK MC = NEWCO MC = MARTINEZ MC = MOORVIEW MC = MOORVIEW								
MC	1981	433	Handling transite to workers on tel roof with aid of forklift	TRANSITE HANDLING	0.02	0.02	Shell	Tankers
MC	1981	434	Revised/reinstalled transite; 15 in peats of .68 and .3	TRANSITE HANDLING	0.03	0.03	Shell	Various
MC	1981	418	Installing transite on roof of tel building. 15 in peat meas. at .64 f/cc	TRANSITE HANDLING	0.07	0.07	Shell	Tankers
MC	1981	442	Boiling down transite to tel roof. 15 in peats were .79 and .69 f/cc	TRANSITE HANDLING	0.05	0.05	Shell	Tankers
MC	1983	451	Cutting Thermo 12 block with hand saw during day	TRANSITE CUTTING	0.13	0.12	Contract	Boilerhouse
GP	1983	423	Routine operator work; no known asbestos exposure	OTHER	0.02	0.02	Shell	K2
GP	1983	415	Delivery work including disposal of a bag of asbestos waste	OTHER	0.01	0.01	Shell	Warehouse
MC	1981	430	Routine operator exposure. No apparent exposure.	OTHER	0.01	0.01	Shell	LP Util
MC	1984	420	Routine operator work, no apparent asbestos exposure.	OTHER	0.01	0.01	Shell	LP Util
MC	1984	429	Routine operator exposure, no apparent asbestos exposure.	OTHER	0.01	0.01	Shell	LP Util
MC	1982	470	Routine operator work with transite cleanup in area	OTHER	0.01	0.01	Shell	LP Util
MC	1982	467	Routine operator work with transite cleanup in area	OTHER	0.01	0.01	Shell	LP Util
MC	1985	460	Blender operator working in compounding and blending	OTHER	0.01	0.01	Shell	HP/562
MC	1985	455	Filling drums in compounding area	OTHER	0.02	0.02	Shell	HP/562
MC	1985	453	Working with heavy equipment; no apparent exposure	OTHER	0.05	0.05	Shell	Compounding
MC	1984	464	Working with crane operator; no apparent exposure	OTHER	0.02	0.02	Shell	Compounding
MC	1984	464	Working with crane operator; no apparent exposure	OTHER	0.03	0.03	Contract	Utilities
MC	1981	450	Repair of mechanical pump seals, no apparent exposure	OTHER	0.01	0.01	Shell	Utilities
MC	1982	433	Working around but not with insulation	OTHER	0.04	0.04	Shell	Machine Shop
MC	1981	451	Working with crew handling transite and on transite	OTHER	0.07	0.07	Shell	BI
MC	1981	450	Pulled three valves loose insul. underfoot (peak of .11 f/cc). Other misc. wk.	OTHER	0.03	0.03	Shell	Various
MC	1981	458	Building scaffold on column. Nearby worker breaking loose insulation.	OTHER	0.02	0.02	Shell	Hydro
MC	1981	450	Pipelitter work at store pond, change room, etc.	OTHER	0.06	0.06	Shell	Cat Cracker
MC	1983	393	Routine operator work including looking for a steel leak	OTHER	0.1	0.08	Shell	Various
MC	1983	398	Routine operator work, 90 min outside	OTHER	0.05	0.04	Shell	Utilities
MC	1983	398	Routine operator work	OTHER	0.01	0.01	Shell	Utilities
MC	1981	420	Routine operator work	OTHER	0.05	0.04	Shell	Utilities
MC	1985	398	Removed insulation wet from 3 inch line in pipework	MAJOR REMOVAL	0.07	0.04	Contractors	Utilities
MC	1985	185	Asbestos removal in Resins unit using s.o.p.	MAJOR REMOVAL	0.07	0.01	Contractors	Resins
MC	1985	175	Asbestos removal in Resins unit using s.o.p.	MAJOR REMOVAL	0.01	0.01	Contractors	Resins
MC	1985	157	Rem. asbestos from exchangers, wet exp. when metal bands read	MAJOR REMOVAL	0.16	0.05	Contractors	Ex Unit
MC	1985	157	Removal of asbestos from exchangers at grade, everything wet	MAJOR REMOVAL	0.22	0.07	Contractors	Ex Unit
MC	1985	157	Removal of asbestos from exchangers at grade, everything wet	MAJOR REMOVAL	0.07	0.01	Contractors	Resins
MC	1985	157	Removal of asbestos from exchangers at grade, everything wet	MAJOR REMOVAL	0.19	0.09	Contractors	Ex Unit
MC	1985	398	Removal of asbestos from exchangers at grade, everything wet	MAJOR REMOVAL	0.19	0.06	Contractors	Ex Unit
MC	1985	398	Removal of asbestos from exchangers at grade, everything wet	MAJOR REMOVAL	0.39	0.25	Contractors	Ex Unit
MC	1985	333	Ground laborer cleanup work	MAJOR REMOVAL	0.03	0.02	Contractors	Ex Unit
MC	1983	420	Stripping insul. off piping wet	MAJOR REMOVAL	0.21	0.18	Contractors	Ex Unit
MC	1983	451	Stripping insul. off piping wet	MAJOR REMOVAL	0.12	0.12	Contractors	Thermal Cracking
MC	1983	445	Stripping insul. off piping wet	MAJOR REMOVAL	0.15	0.15	Contractors	Crude Unit
MC	1983	420	Stripping insul. off piping wet	MAJOR REMOVAL	0.38	0.33	Contractors	Crude Unit
MC	1983	425	Stripping insul. off piping wet	MAJOR REMOVAL	0.1	0.1	Contractors	Thermal Cracking
MC	1983	420	Stripping insul. off piping wet	MAJOR REMOVAL	0.37	0.32	Contractors	Crude Unit
MC	1983	420	Stripping insul. off piping wet	MAJOR REMOVAL	0.45	0.57	Contractors	Thermal Cracking
MC	1983	420	Stripping insul. off piping wet	MAJOR REMOVAL	0.01	0.01	Contractors	Thermal Cracking
MC	1980	180	Stripping insul. off column	MAJOR REMOVAL	0.02	0.01	Contractors	Crude Unit
MC	1980	115	Stripping insul. off column	MAJOR REMOVAL	0.02	0.01	Contractors	Crude Unit
MC	1980	150	Stripping insul. off column	MAJOR REMOVAL	0.01	0.01	Contractors	Crude Unit
MC	1979	19	Cutting/fabrication with transite outside	MAJOR REMOVAL	1.1	0.04	Shell	Solvents and Treat

Values less than 0.01 are reported as 0.01

DPMC-05828

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WC	1984	450	Applying thermal mastic coating on insulation and reinsulating another line	INCIDENTAL EPMOS.	0.04	0.04	Contrai	Ally - Hydro
WC	1984	461	Pipefitting work in general	INCIDENTAL EPMOS.	0.03	0.03	Shell -	Du-5
WC	1984	460	Pipefitting work in general	INCIDENTAL EPMOS.	0.03	0.03	Shell -	Du-5
WC	1983	427	Installed insulation at Ally pump 339. No known asbestos exposure.	INCIDENTAL EPMOS.	0.1	0.09	Shell -	Ally
WC	1983	442	Insulated pipeline at B1 during day. No known asbestos exposure	INCIDENTAL EPMOS.	0.05	0.05	Shell -	B1
WC	1983	462	Applying urethane sealing mud to outside of reactor	INCIDENTAL EPMOS.	0.03	0.03	Shell -	Ally2
WC	1983	449	Installed insulation and sealing mud. No known asbestos exp. No ask worn.	INCIDENTAL EPMOS.	0.03	0.03	Shell -	Ally
WC	1983	456	Installed sheet metal over insulation and applied sealing mud	INCIDENTAL EPMOS.	0.01	0.01	Contrac	Boilerhouse
WC	1981	353	Pipefitter work in change room.	INCIDENTAL EPMOS.	0.01	0.01	Shell -	Various
WC	1981	15	Removed relief valve on catalyst line at B1; loose insulation broke off	INCIDENTAL EPMOS.	0.29	0.01	Shell -	B1
WC	1981	426	Routine filter work including removal of bolts from valve adj. to asbestos	INCIDENTAL EPMOS.	0.06	0.05	Shell -	B1
WC	1981	15	Replaced motor valve. Loose insulation present in immediate area.	INCIDENTAL EPMOS.	0.49	0.02	Shell -	Ally
WC	1981	459	Building scaffold near column and used hammer to break away insulation	INCIDENTAL EPMOS.	0.03	0.03	Shell -	Cat Cracker
WC	1981	470	Wkg on a.v. with expos. insul. near by heat of .98 f/cc. Open bag nearby.	INCIDENTAL EPMOS.	0.06	0.05	Shell -	Cat
WC	1981	455	Replaced motor valve. Loose insulation present in immediate area	INCIDENTAL EPMOS.	0.04	0.04	Shell -	Ally
WC	1981	15	Cleaning out around boiler in change ra.; old insulation underfoot from boiler	INCIDENTAL EPMOS.	0.74	0.02	Shell -	Changeroom
WC	1980	450	Burning on railing covered with insulation	INCIDENTAL EPMOS.	0.05	0.05	Shell -	Dubbs
SCP	1983	410	Filled orders; some handling of requested gasketing material	GASKETING	0.02	0.02	Shell -	Warehouse
DFC	1985	70	Brake repair work with vacuum system; water used per sop	BRAKE REPAIR	0.11	0.02	Shell -	Garage
Herco	1985	153	Brake repair work	BRAKE REPAIR	0.02	0.01	T. Kivaul	Garage

DPMC-05830

LAM 009390