



Shell Oil Company
Interoffice Memorandum

PLAINTIFF'S EXHIBIT

SH-1469

→ 02-DPM-172
02-WLR-THS
02-NMC-145

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MARCH 22, 1990

FROM: STAFF INDUSTRIAL HYGIENIST, PRODUCTS HEALTH & SAFETY
TO: SEE ATTACHED DISTRIBUTION LIST
SUBJECT: CERAMIC FIBER MONITORING DATA SUMMARY

Attached is a compilation of all exposure data collected to date for MMMF. As additional data is collected, please remember to copy Robert Evans at DPMC who will be maintaining a summary.

P. J. Snyder
P. J. Snyder

PJS:1fb

Attachment

cc: J. P. Chadwick
C. F. Phillips

LAM 028177

BJTF9008101

DST-001845

DISTRIBUTION LISTMANUFACTURING LOCATIONS

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Ceramic Fiber Monitoring Data Summary

As of: 03/01/90

Location	Date	Job Title	Sx. Time (min.)	Result (f/cc)	Task Description
WRMC	12/04/85	Maint. Foreman	1	< 0.01	Cut thermal barrier (fire blanket) and beat material.
WRMC	12/04/85	Brickmason	8	4.80	Hand-sawed KACWOOL block and gouged holes. Cut KACWOOL blanket. Dry swept area.
WRMC	12/04/85	Insulator	15	0.29	Band-sawed KACWOOL board. Had local exhaust Cut KACWOOL blanket.
WRMC	01/27/86	Laborer	24	1.45	Removed refractory from inside pre-heat duct with shovel.
WRMC	01/27/86	Laborer	14	5.90	Shoveled refractory inside pre-heat duct.
WRMC	01/27/86	Laborer	24	0.35	Shoveled refractory inside pre-heat duct 10 minutes. Put bags in drums outside 14 minutes.
WRMC	01/27/86	Laborer	14	1.29	Installed liners in drums outside opening in pre-heat duct.
WRMC	02/20/89	Laborer	45	0.11	Cleaned up bricks and refractory material inside Alcorn heater at CR-2.
WRMC	02/21/89	Laborer	156	Invld.	Chipped refractory material inside Alcorn heater at CR-2. (Sample overloaded)
WRMC	02/21/89	Laborer	65	0.21	Chipped refractory material inside Alcorn heater at CR-2.
WRMC	02/21/89	Laborer	34	0.83	Chipped refractory material inside Alcorn heater at CR-2.
WRMC	02/21/89	Laborer	31	0.64	Chipped refractory material inside Alcorn heater at CR-2.
WRMC	02/23/89	Laborer	55	0.57	Shoveled refractory material inside Alcorn heater at CR-2.
WRMC	02/23/89	Laborer	135	Invld.	Shoveled refractory material inside Alcorn heater at CR-2. (Sample overloaded)
WRMC	12/89 (?)	(?)	40	0.31	Installing KACWOOL on heater ceiling
WRMC	12/89 (?)	(?)	111	0.29	Installing KACWOOL on heater ceiling
WRMC	12/89 (?)	(?)	118	0.24	Installing KACWOOL on heater ceiling
WRMC	12/89 (?)	(?)	119	0.21	Installing KACWOOL on heater ceiling
DPMC	01/18/89	Insulator	415	Invld.	Removing KACWOOL and CERABLANKET insulation from furnace interior. (Sample overloaded)
DPMC	01/18/89	Insulator	413	Invld.	Removing KACWOOL and CERABLANKET insulation from furnace interior. (Sample overloaded)
DPMC	01/18/89	Insulator	411	Invld.	Removing KACWOOL and CERABLANKET insulation

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DPHC	01/18/89	Insulator	410	Invid.	Removing KACWOOL and CERABLANKET insulation from furnace interior. (Sample overloaded)
DPHC	01/19/89	Insulator	223	Invid.	Removing KACWOOL and CERABLANKET insulation from furnace interior. (Sample overloaded)
DPHC	01/19/89	Insulator	223	0.86	Removing KACWOOL and CERABLANKET insulation from furnace interior.
DPHC	01/19/89	Insulator	216	Invid.	Removing residual insulation. Cleaning up. Discarding bagged insulation. (Sample overloaded)
DPHC	01/19/89	Insulator	381	Invid.	Removing and installing ceramic fiber insulation in a heater. (Sample overloaded)
DPHC	01/19/89	Insulator	450	0.24	Removing and installing ceramic fiber insulation in a heater.
DPHC	02/16/89	Insulator	296 245	0.07 0.13	Constructing equipment insulation pads from ceramic fiber blanket insulation.
DPHC	02/16/89	Insulator	288 247	0.04 0.04	Constructing equipment insulation pads from ceramic fiber blanket insulation.
DPHC	02/17/89	Insulator	296 233	0.07 0.14	Constructing equipment insulation pads from ceramic fiber blanket insulation.
DPHC	02/17/89	Insulator	291 237	0.10 0.16	Constructing equipment insulation pads from ceramic fiber blanket insulation.
NMC	04/88	*	*	0.10	Building scaffolds to remove ceramic fiber insulation from furnace interior.
NMC	04/88	*	*	2.10	Tear out of insulation inside ethylene furnace
NMC	04/88	*	*	1.60	Bagging insulation, taping bags and lowering to floor.
NMC	07/87	*	*	0.06 0.05 0.04 0.03	Installation of new FIBERFRAX blanket insulation in furnace penthouse.
NMC	10/86	*	*	0.32 0.32 0.17 0.17 0.14 0.12	Installing new ceramic fiber brick and blanket in convection section of furnace. No pneumatic tools used.
			*	0.15	Area sample.
			*	0.13	Area sample
	10/86	*	*	0.02	Removal of old ceramic fiber tape and application of new ceramic fiber material to pressure vessel.
NMC	06/86	Welders	*	2.07 1.63 1.16 0.35 0.00	Performing, grinding, welding and rigging of tubes in firebox after insulation had been removed.

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		*	0.51	Hanging tubes in firebox only
		*	0.20	
		*	0.04	
06/86	Insulators	*	0.58	Preparation, transportation and installation
		*	0.44	of FIBERFRAX insulation.
		*	0.40	
		*	0.37	
		*	0.20	
		*	2.61	Removal of old ceramic fiber insulation from
		*	1.55	firebox, some sweeping and cleaning up debris.
		*	0.01	
		*	1.83	Area sample downwind of insulators removing
				overhead insulation
		*	<0.01	No work in progress.

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