Union Carbide
Agricultural Products Company, Inc.
Institute Plant

INDUSTRIAL HYGIENE SAMPLING RESULTS

TO: Mr. D. A. Duga
Building 23
Institute Plant

COPIES TO: Mr. W. K. Meadows
Mr. R. L. Newman
Mr. L. W. Youngblood

Purpose: ____ Quarterly __X__ Semiannually ____ Annually
____ Regulatory Agency Inspection ____ Other (See Comments)

Sample Date(s): September 29 and 30 and October 1 and 7, 1986
Sample Location: Gasket Fabrication Shop Department No.: 327
Process/Activity: Gasket Fabrication and Valve Repair
Contaminant: Asbestos
Exposure Limit: OSHA 0.2 fibers/cc (TWA_8); - (TWA_{12})
ACGIH 0.2 fibers/cc (TWA_8); - (TWA_{12})
UCC - (TWA_8); - (TWA_{12})
AIHA - (TWA_8); - (TWA_{12})
Sample Type: __X__ Personal __X__ Area ____ Source
____ Surface Wipe ____ Other (See comments)
Analytical Method: Per 29 CFR 1910.1001, Appex. A
Results: ____ See Comments __X__ See Attached Table

COMMENTS:

Four Gasket Fabrication Shop job positions were monitored for exposure to airborne asbestos fibers on the above dates. Area concentrations of airborne asbestos fibers were measured too. The monitoring encompassed typical shop activities, which included asbestos gasket cutting and punching, valve cleaning and repair using asbestos packing material and shop cleanup. The level of asbestos related activity was considered to be light on two days (i.e., less than one hour), moderate on one day (i.e., two to three hours) and heavy on one day (i.e., all day). The area cooling fans in the shop were operating during the survey.

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All personal and area monitoring results were well under the permissible exposure limit as well as the action level, which is one-half the PEL. Consequently, no follow-up activities are required (e.g., training, medical monitoring, etc.). Additional monitoring will be performed when a heavy asbestos related workload exists in order to substantiate this data. Current work practices appear to be sufficient to maintain area concentrations and personal exposures to airborne asbestos fibers at safe levels during gasket fabrication, valve repair and shop cleanup.

RECOMMENDATIONS: None.

Report Date: November 14, 1986

Signed: Erik A. Oslund Bldg. 2 Room: 172 Phone 6105

NOTE: ALL PERSONAL SAMPLE RESULTS MUST BE DISCUSSED WITH THE PARTICIPATING EMPLOYEE

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WORKPLACE LOCATION: Gasket Fabrication Shop NAME(s) OF SAMPLER(s): H. C. Ries

CONTAMINANT: Asbestos REPORT DATE: November 14, 1986

OSHA PEL: TWA_8 0.2f/cc, TWA_{12} - ACGIH TLV: TWA_8 0.2f/cc, TWA_{12} -

AIHA WEEL: TWA_8 -, TWA_{12} - UCC GUIDELINE: TWA_8 -, TWA_{12} -

Sample Number	Sample Date	Sample Description	Sample Time (min.)	Sample Results (f/cc)*
		SUPERVISOR		
W-4741-7944	9-29-86	R. L. Newman	382	0.02
W-4742-7952	9-30-86	R. L. Newman	394	0.008
W-4743-7962	10-1-86	R. L. Newman	426	0.007
W-4749-7963	10-7-86	R. L. Newman	396	0.01
		LABORER		
W-4741-7943	9-29-86	B. I. Gray	378	0.039
W-4742-7955	9-30-86	B. I. Gray	372	0.002
		SALVAGE MECHANIC		
W-4741-7945	9-29-86	E. E. Guthrie	374	0.02
W-4741-7946	9-29-86	J. F. Williams	371	0.038
W-4742-7953	9-30-86	E. E. Guthrie	391	0.01
W-4742-7954	9-30-86	J. F. Williams	371	0.005
W-4743-7961	10-1-86	E. E. Guthrie	424	0.01
W-4743-7964	10-1-86	J. F. Williams	422	0.002
W-4749-10419	10-7-86	J. F. Williams	395	0.045
W-4749-10420	10-7-86	E. E. Guthrie	395	0.037
W-4741-7948	9-29-86	Pole east of gasket cutting machine	379	0.008
W-4741-7949	9-29-86	Top of tool cabinet in in middle of shop	387	0.01
W-4741-7950	9-29-86	Middle of lunch table	385	0.003
W-4742-7956	9-30-86	Between disposal box and gasket cutting machine	382	0.004
W-4742-7957	9-30-86	Tool cabinet next to valve breakdown table at west end of shop	379	0.001

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INDUSTRIAL HYGIENE SAMPLING RESULTS - CONTINUED

Sample Number	Sample Date	Sample Description	Sample Time (min.)	Sample Results (f/cc)*
W-4742-7958	9-30-86	North wall next to No. 3 tool cabinet	377	0.007
W-4743-10414	10-1-86	Pole east of gasket cutting machine	424	0.002
W-4743-10415	10-1-86	Pole in middle of shop	429	0.005
W-4743-10416	10-1-86	Top of tool cabinet No. 5	425	0.002
W-4749-10421	10-7-86	Shelf east of No. 3 tool cabinet	389	0.02
W-4749-10422	10-7-86	Pole east of gasket cutting machine	392	0.027
W-4749-10423	10-7-86	Between disposal box and gasket cutting machine	390	0.02
W-4749-10424	10-7-86	Top of No. 5 tool cabinet	386	0.01

* Personal sample results are reported as time-weighted averages. Values for 8-hour time-weighted averages are the same as for 12-hour time weighted averages unless otherwise indicated.

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