

Interoffice Memorandum

PLAINTIFF'S
EXHIBIT
CEL-604

TO (Name and Location)

Mr. R. M. Guedin - CCCTC

DATE

February 15, 1977

FROM (Name and Location)

E. S. Ramey - CCCTC

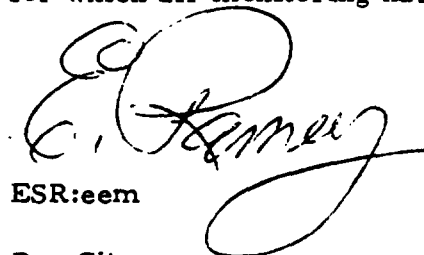
REFERENCE NO.

ESR-312-77

Technical Center Air Monitoring

Attached is the summary of air monitoring at the Technical Center during January. Four locations were examined with concentrations of 8 compounds measured at various locations. The data is given in Table I.

A list of ESR letters containing air monitoring (or related) data written during 1976 is given in Table II. This will be added to the air monitoring data files for 1976. These files have been rechecked. I will maintain a sequence air monitoring and a chemical compound file of those having OSHA standards for which air monitoring has been done.



ESR:eem

Bay City

Ms. J. L. White

Bishop

Mr. J. Jackson

Houston

Mr. E. Green

New York

Mr. J. M. Ramey

Pampa

Mr. M. Stenzel

CCCTC

Dr. B. J. Bland

Dr. R. F. Stubbeman

Dr. L. Starr

Mr. W. E. Heinz

Mr. R. D. Damron

Mr. J. P. Hawthorne

Mr. C. D. Barrett

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Unitersms

Air Monitoring

OSHA

TLV

Health

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TABLE I
INDUSTRIAL HEALTH MONTHLY MONITORING SUMMARY

Date	Unit	Name, Social Security No.	Job Description	Contaminant Monitored	Monitoring Method	8 hr TWA Exposure (mg/m ³)	Acceptable TWA (1) (mg/m ³)	Ceiling Level (mg/m ³) Duration in min (1)	Highest Conc Detected (mg/m ³)	Comments
1-10-77	Lab 102	Area Sample	Trioxane Treatment	Benzene	PI-101 Analyzer		32 mg/m ³ 10 ppm (3)	160 (10) 50 ppm (10)	3 mg/m ³ < 1 ppm	Minimum Sensitivity < 0.01 ppm
1-12-77	Lab 264	Area Sample	Trioxane Synthesis	CH ₂ O	Drager Tube CH 264		3.7 mg/m ³ 3 ppm	12 (30) 10 ppm (30)	< 1.2 mg/m ³ < 1 ppm	
1-17-77	Rm 113 B	Area Sample	isoC ₄ VPO	Methacrolein	PTD-Century (5)		N.E. (2)		0.5 mg/m ³ 0.2 ppm	Tenax-GC
1-24-77	Rm 113 B	Area Sample	C ₃ VPO	Acrylic Acid	Kodak Meth (6)	3 mg/m ³ 1 ppm	N.E.	N.E.	3 mg/m ³ 1 ppm	
1-20-77	Rm 113 B	Area Sample	isoC ₄ VPO	Methacrolein	PI-101 Analyzer		N.E.	N.E.	20 mg/m ³ 7 ppm* (8)	Maximum Excursion at Analyzer Vent
1-20-77	Rm 113 B	Area Sample	isoC ₄ VPO	Methacrolein	GC/MS		N.E.	N.E.	None Found	3 hour average
1-24-77	Lab 287	Area Sample	MeOH Ox Unit	CH ₂ O	Drager Tube CH 264		3.7 mg/m ³ 3 ppm	12 mg/m ³ (30)	3 mg/m ³ 2 ppm	Inside the hood (7)
1-25-77	Rm 113 B	Area Sample	isoC ₄ VPO	MeOH	Drager Tube CH 29701		260 mg/m ³ 200 ppm		< 70 mg/m ³ < 50 ppm	Inside the hood (7)
1-25-77	Rm 113 B	Area Sample	isoC ₄ VPO	Methacrylic Acid	Kodak (6)		N.E.	N.E.	2 mg/m ³ 0.5 ppm	
1-28-77	Lab 287	Area Sample	MeOH Ox Unit	Isobutylene	PI-101 Analyzer		N.E.	N.E.	1 mg/m ³ < 0.5 ppm	
1-28-77	Lab 287	Area Sample	MeOH Ox Unit	HF	Drager Tube CH 30301		2.5 mg/m ³ 3 ppm	5 mg/m ³	< 1.3 mg/m ³ < 1.5 ppm	Inside the hood (7)
1-28-77	Lab 287	Area Sample	MeOH Ox Unit	CH ₂ O	Drager Tube 67 26760		3.7 mg/m ³ 3 ppm	12 mg/m ³ (30) 10 ppm	2.5 mg/m ³ 2 ppm	Inside the hood (7)

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- (1) Federal Register, Vol 39, No. 125, pp 23541-43.
- (2) Not Established, N. E.
- (3) NIOSH has recommended lowering benzene PEL to 1 ppm.
- (4) NIOSH has recommended lowering CH₂O PEL to 1 ppm.
- (5) Programmed Thermal Desorber, Century Systems Corp. Tennax Adsorbent.
- (6) Ref: H. Brockmyre and F. Miller, Laboratory of Industrial Medicine, Eastman Kodak Co., Rochester, New York.
- (7) Worst Case Example, Concentration of lab air will be much lower. Sample measured inside closed hood next to MeOH Ox microunit.
- (8) Worst Case Example, Maximum excursion at exhaust of process analyzer.

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TABLE II

ESR AIR MONITOR LETTERS 1976

- ESR-282-76, January 8, 1976, "Benzene Analysis of Bishop Plant Air Monitor Samples".
- ESR-283-76, January 14, 1976, "Hexamethylphosphoramide Disposal".
- ESR-284-76, February 3, 1976, "Asbestos Fiber Count".
- ESR- -76, February 3, 1976, Information Request for Activated Charcoal Tubes and "Air Check" Analysis System, SKC, Inc.
- ESR_ -76, February 3, 1976, Information Request for Modified Activated Charcoal, Barnebey and Cheney Co.
- ESR- -76, February 4, 1976, Request for Air Monitoring Analytical Methods for Diacetone Alcohol and Methyl Acrylate, National Institute for Occupational Safety and Health.
- ESR-285-76, February 12, 1976, "Tech Center Noise Level Survey".
- ESR-286-76, March 5, 1976, "Tech Center Mercury Vapor Survey".
- ESR-287-76, March 31, 1976, "Analysis of Bishop Plant Air Monitor Samples" (Ref: AER-14-76).
- ESR-288-76, May 6, 1976, "Respirable Particulate - Lab 114".
- ESR- -76, May 6, 1976, Information Requested on Impregnated Asbestos, Southern Asbestos Co.
- ESR- -76, May 13, 1976, Eight Hour Drager Tubes, National Mine Service Co.
- ESR-290-76, June 4, 1976, "Respirable Asbestos Fibers - Lab 114".
- ESR-291-76, July 20, 1976, "Bay City Plant Insulation/Asbestos".
- ESR-292-76, August 3, 1976, "Oil Mist Analysis".
- ESR-297-76, September 9, 1976, "Asbestos Fiber Count", (National Loss Control Service Corp).

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