

Interoffice Memorandum



(Name and Location) *As Listed	DATE January 21, 1986
(Name and Location) A. B. Savage	REFERENCE NO. ABS-15-86

*G. E. Organ
T. N. Moody
I. O. Coleman, Jr.
R. W. King
C. J. Duey
C. J. Libby
C. W. Whaley

What are we doing here?
1st WK April

PLAINTIFF'S EXHIBIT
CEL-115

SUBJECT: IH Monitoring Program

DATE: 1/28/86
TIME: 1-3 p.m.
PLACE: Laboratory Library

AGENDA: *15 min* IH Methods and Techniques

25 min ECP Monitoring Goals

15 min 1986 Monitoring Plans

- 1986 Method Development Plans

Noise ——— [Octave Band STELS
Cosimeter TWA's]

Chromatographic - Filtration
Solvent extraction
Thermal desorption
Drager tubes

Calibration: Noise generator (pure)
Wet chemical - standard solution (prepared on site)
G.L. Prepared by SEA [page]
Generated gas [bifurcated] — weight tube/vic

A.C.H. for the bedbugs

directing
not diff. Vt
A.O.H.
Buck

A. B. Savage

ABS/las

Page

bcc: I. O. Coleman, Jr.
R. W. King
C. J. Libby
A. B. Savage

There will be a planning meeting for this presentation 1/23/86 from 9-11 in the Lab Library.

005803

Industrial Hygiene Monitoring - 1986

1986 Forecast -

Complete - Acetic Acid Monitoring (Drager Tubes)

Approximately 30 samples needed

Complete - Proh Monitoring (Method Developed)

Graph made in 1984, needs to be verified, this will involve loading and analyzing 32 tubes, 8 at each PEL.

Field sampling - Approximately 55 samples needed.

Vinyl Acetate -

Method developed, graph needs to be verified, date on graph Jan 84, Government cracking down on potential health effects, possibly lowering the TLV. Current limits 10 PPM TWA/30 PPM STEL. Need more samples for Base Case, possible toxicology studies. Samples required, at least 3 samples per job classification, 80 to 100 samples. This will include samples taken around the perimeter of the plant, to satisfy possible requirements, I.O. Coleman.

Ach -

Method developed, graph dated Nov 84, at present time I am trying to verify graph. I am having plenty of trouble doing so. Haven't determined at this point if it is the Dynal or the Capillary column.

There has been an engineering design change approved for the sampling process on the way the unit operators catch finished Ach samples. It will possibly be installed with the next Unit turnaround. This change should lower the exposure limit of the operator. Celanese possibly lowering the TLV of Ach, present limits: 1.0 PEL = 100 PPM TWA/150 PPM STEL. Samples required - 10 to 15.

Also will take more samples at the loading rack, they have inputted new administrative procedures on the way the loaders catch Ach samples of shipments. Samples required - 10 to 15

PBQ -

Operators in VA Unit complaining about effects of PBQ they received during mixing procedure. I am currently collecting samples in the VA Unit when the mixing is done. Estimate to take 20 samples for overall view.

005804

Noise Monitoring -

C. Whaley states that we have enough noise samples for base case.
I will need to catch at least 3 samples from each job classification,
Celanese and Arthur Bros. personnel to make sure we are in compliance.
PEL = OSHA 90 dBA/8 hours / Celanese 85 dBA/8 hours
Estimated number of samples - 90

During Unit Turnarounds -

Want to take as many samples as possible from Unit operators while
washing down, draining and cleaning our unit for maintenance personnel,
that is, on containments that we have methods developed for/are Drager
Tubes.

Number of samples required - As many as possible

If and when the above sampling and method development is done/are somewhere
in between, work on getting samples of :

Oxalic Acid
Manganese Acetate
Copper Acetate
Asbestos
Welding Fumes
Whatever may become a problem?

Ground water monitoring -

Groundwater samples are currently being caught quarterly. There are 28 wells,
2 disposal wells and 13 surface water samples that are being analyzed at
present. With myself and J. Libby working of these samples full time, it
takes us from 3 to 4 weeks for complete analysis, each quarter.

Between all of the above sampling and analyzing, work on any special projects
that may arise during the year.

005805

Interoffice Memorandum



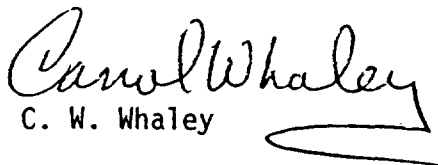
TO (Name and Location) ✓ A. B. Savage	DATE January 22, 1986
FROM (Name and Location) C. W. Whaley	REFERENCE NO. CWW-646-86

cc: G. E. Organ
M. R. Stenzel - Dallas

SUBJECT: Industrial Hygiene Monitoring Plan For 1986 - Bay City Plant

The subject industrial hygiene monitoring plan which we developed in our January 14, 1986 meeting is attached. The plan includes plantwide surveys for acetaldehyde, vinyl acetate, noise and samples for miscellaneous contaminants. The completion of propanol and acetic acid surveys initiated last year is also included in the plan. In our discussion you stated that some sampling may be necessary at the plant parameter for environmental purposes. This plan does not include those samples.

Method development and validation efforts should continue for acetic acid, butanol, propionaldehyde and butyraldehyde.


C. W. Whaley

CWW/b1

005806

DO IT RIGHT THE FIRST TIME

n-Propanol Samples*

<u>Job Classification</u>	<u>Exposure Zone</u>				
	<u>5</u>	<u>6/10</u>	<u>23</u>	<u>25</u>	<u>29</u>
A Operator	0/7		14/14		
B Operator	0/6				
Analyzer Mechanic	5/5				
Maintenance (All Crafts)	7/0				
A Analyst - Shift		5/5			
B Analyst - Shift		5/5			
A Analyst - Day		5/5			
A/B Personnel				5/0	
Clerk/Technical					5/0

*TWA/STEL

NOTE: During unit turnarounds obtain additional samples on operations personnel when performing potentially high exposure duties.

005807

Acetic Acid Samples*

<u>Job Classification</u>	<u>Exposure Zone</u>					
	<u>3</u>	<u>6/10</u>	<u>23</u>	<u>25</u>	<u>29</u>	<u>36</u>
A Operator	7/7		14/14			
B Operator						7/7
Analyzer Mechanic A/B	5/5					
Maintenance (All Crafts)	7/0					
A Analyst - Shift		5/5				
B Analyst - Shift		5/5				
A Analyst - Day		5/5				
A/B Personnel				5/0		
Clerk/Technical					5/0	

*TWA/STEL

NOTE: During unit turnarounds obtain additional samples on operations personnel when performing potentially high exposure duties.

005808

Acetaldehyde Samples*

<u>Job Classification</u>	<u>Exposure Zone</u>					
	<u>36</u>	<u>2</u>	<u>6</u>	<u>23</u>	<u>25</u>	<u>29</u>
A Operator		7/7		7/14		
B Operator	7/7					
Analyzer Mechanic A/B		5/5				
Maintenance (All Crafts)		7/0				
A Analyst - Shift			5/5			
B Analyst - Shift			5/5			
A Analyst - Day			5/5			
A/B Personnel					5/0	
Clerk/Technical						5/0

*TWA/STEL

NOTE: During unit turnarounds obtain additional samples on operations personnel when performing potentially high exposure duties.

005809

Vinyl Acetate Samples *

<u>Job Classification</u>	<u>Exposure Zone</u>					
	<u>3</u>	<u>6</u>	<u>23</u>	<u>25</u>	<u>29</u>	<u>36</u>
A Operator	7/7		14/14			
B Operator						7/
Analyzer Mechanic A/B	5/5					
Maintenance (All Crafts)	7/0					
A Analyst - Shift		5/5				
B Analyst - Shift		5/5				
A Analyst - Day		5/5				
A/B Personnel				5/0		
Clerk/Technical					5/0	

*TWA/STEL

NOTE: During unit turnarounds obtain additional samples on operations personnel when performing potentially high exposure duties.

005810

Noise Samples

<u>Exposure Zone</u>	<u>Job Classification</u>	<u>Number of Samples</u>
002	A Operator	3
003	A Operator	3
005	Shift Supervisor	3
005	A Operator	3
005	B Operator	3
007	A Operator	3
008	B Operator	3
009	A Operator	3
020	Shift Supervisor	3
020	A Operator	3
020	B Operator	3
023	A Operator	3
023	Shift Supervisor	3
032	A Operator	3
033	Shift Supervisor	3
036	Shift Supervisor	3
036	B Operator	3
999999	Boilermaker	3
999999	Electrician	3
999999	Instrument Person	3
999999	Pipefitter	3
999999	Machinist	3
999999	Rigger	3
999999	Welder	3
999999	Mechanic	3
024	A/Brothers Personnel	15

005811

Miscellaneous Samples*

<u>Contaminant</u>	<u>Exposure Zone</u>	<u>Job Classification</u>	<u>Number Of Samples</u>
Triphenylphosphine	5	A/B Operator	0/5
	20	A/B Operator	0/5
Nickel Carbonyl	32	Area	As Needed
Iron Carbonyl	32	Area	As Needed
Asbestos	-	A/B Personnel	10/0
PBQ	36	B Operator	0/5
Oxalic Acid	20	A/B Operator	0/5
Manganese Acetate	20	A/B Operator	0/5
Copper Acetate	20	A/B Operator	0/5
Welding Fume			As Needed
- Total Particulate			
- Nickel			
- Copper			
- Iron Oxide			
- Total Chrome			
- Chrome VI			
Paint Vapor/Mist	34	A/B Personnel	5/5
- Methyl Ethyl Ketone		and Celanese	
- Xylene			
- Butyl Acetate			
- Lead			
- Chrome VI			
- Etc.			

*TWA/STEL

Note: PBQ samples are to be taken during filter change and V-212 pump work (J. C. Nash request).

005812