

**PLAINTIFF'S
EXHIBIT**

CEL-116

V. 2 (5/74)

Interoffice Memorandum

TO (Name and Location)	DATE
A. B. Savage	December 6, 1984
FROM (Name and Location)	REFERENCE NO.
C. W. Whaley	CW-553-84

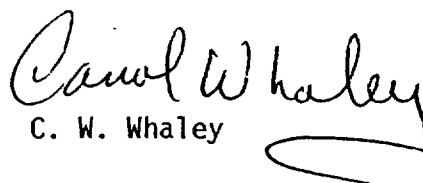
cc: J. N. Gann
M. R. Stenzel - Dallas

SUBJECT: Proposed Industrial Hygiene Monitoring Plan For 1985 - Bay City Plant

Attached is the proposed industrial hygiene monitoring plan for 1985. The plan includes plantwide surveys for propanol, butanol, carbon monoxide, acetic acid, propionaldehyde, butyraldehyde, noise and samples for miscellaneous contaminants.

A validated method exists for propanol. This method can probably be validated for butanol thus allowing the two contaminants to be monitored simultaneously in many cases. Similarly the acetaldehyde method can probably be validated for propionaldehyde and butyraldehyde. These contaminant can also be monitored simultaenously in many instances. I recommend we use long-term Drager Tubes for acetic acid monitoring until a validated method can be developed.

You can readily see this is a broad and ambitious plan. As in the past, we will work together closely on specific short term goals and priorities.


C. W. Whaley

CWW/bl

005813

Carbon Monoxide Samples* *as available*

<u>Job Classification</u>	<u>Exposure Zone</u>			
	<u>1</u>	<u>5</u>	<u>20</u>	<u>32</u>
Warehouse/Stockroom	3/0			
A-Operator		3/0	3/0	3/0
B-Operator		3/0	3/0	3/0
Analyzer Mechanic A/B		3/0	3/0	3/0
Maintenance (Any Craft)		3/0	3/0	3/0

*TWA/STEL

005814

Acetic Acid Samples* *as available*

<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 and maintenance personnel when performing potentially high exposure duties.

005815

n-Propanol Samples* (1)

<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 and maintenance personnel when performing potentially high exposure duties.

005816

n-Butanol Samples* (2)

<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	7/7		14/14		
B Operator	7/7				
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 and maintenance personnel when performing potentially high exposure duties.

005817

Propionaldehyde 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	7/7		7/7		
B Operator	7/7				
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 and maintenance personnel when performing potential high exposure duties.

005818

Butyraldehyde 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	7/7		7/7		
B Operator	7/7				
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 and maintenance personnel when performing potentiall high exposure duties.

005819

Noise Samples *IOC*

<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	Analyzer Mechanic	3
024	A/Brothers Personnel	15

005820

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
Benzene	6	A/B Analyst	5/0
	20	A/B Operator	5/5
	23	A Operator	5/5
Carbon Tetrachloride	6	A/B Analyst	3/3
Chloroform	6	A/B Analyst	3/3
Hydrazine	7	A Operator	0/5
	7	Area	3/0
Lime	7	A Operator	5/0
Hydrogen Sulfide	20	A/B Operator	3/0
Nickel Carbonyl	32	Area	As Needed
Iron Carbonyl	32	Area	As Needed
Asbestos	-	A/B Personnel	10/0
Oil Mist	36	Area	0/10
PBQ	36	B Operator	0/5
Oxalic Acid	20	A/B Operator	0/5
Welding Fume	3	Welder	7/7
- Total Particulate			
- Nickel			
- Copper			
- Iron Oxide			
- Total Chrome			
- Chrome VI			
Paint Vapor/Mist	34	A/B Personnel	5/5
- Methyl Ethyl Ketone			
- Xylene			
- Butyl Acetate			
- Lead			
- Chrome VI			
- Etc.			

*TWA/STEL

005821