

PTS	< 1ppm	1-5 ppm	5-25 ppm	> 25	Floor 1	Floor 2	Floor 3
1	0	36	4	0			
2	0	(4)	(31)	5			
3	2	32	6	0			
4	0	7	31	2			
5	2	(3)	(24)	11			
6	9	31	0	0			
TOTAL	13	113	96	18			

~~1ST FLOOR (PTS 1-4)~~

1ST FLOOR

2ND FLOOR

3RD FLOOR

0-1 ppm: 0% Time

2%

14%

1-5 ppm: 54% Time

9%

79%

5-25 ppm: 44% Time

69%

7%

> 25 ppm: 2% Time

20%

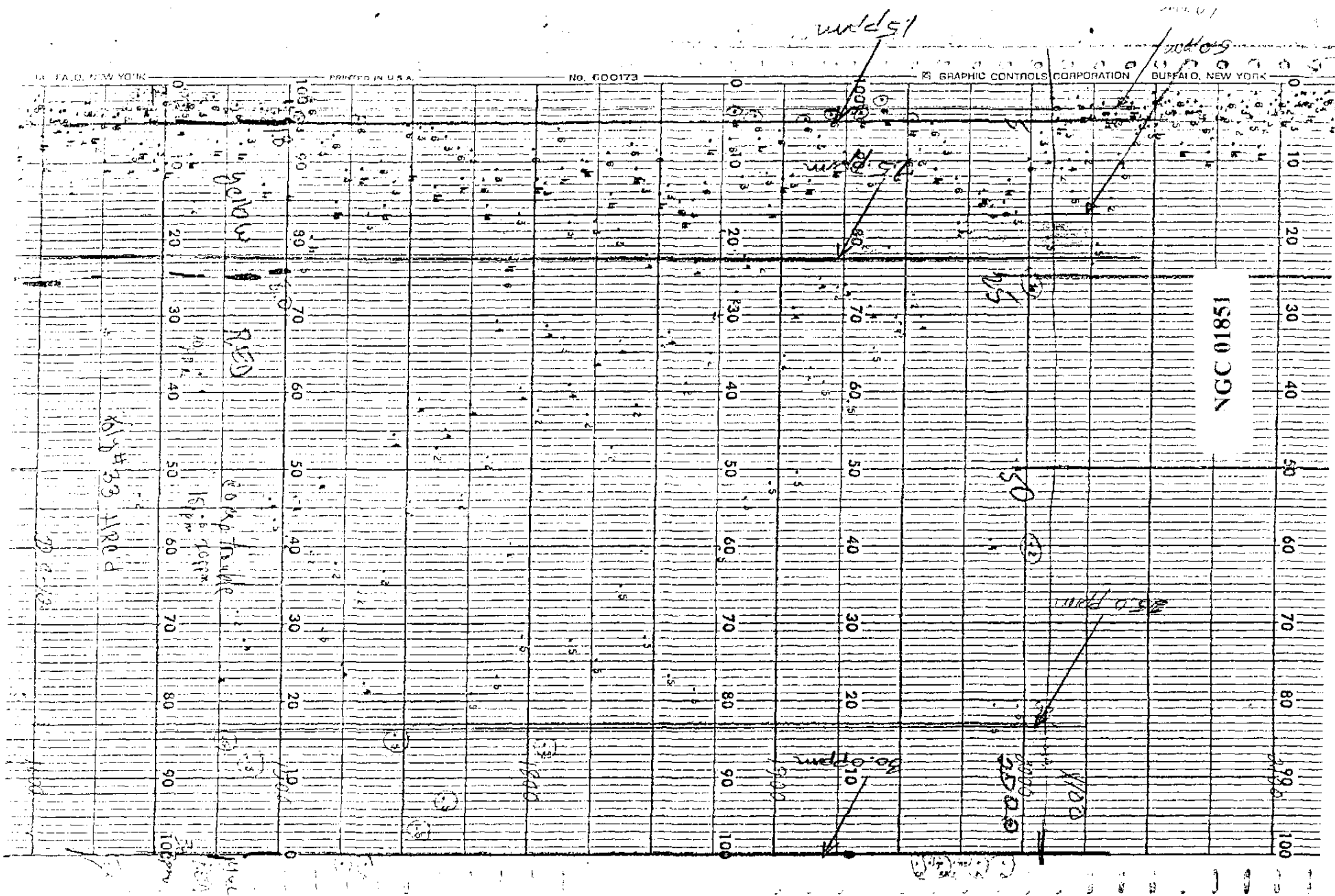
0%

CHAPTER 1

I have attached a summary of the Bendix data. This shows the following:

	1 ST FL	2 ND FL	3 RD FL
No protection Needed	0%	2%	14%
1 ST STAGE Protection (Yellow light)	54%	9%	79%
2 ND STAGE Protection (Red light)	46%	89%	7%

Blue Lines represent Account Activity for May of 2007 (10/17/07)



Inter-Organization Correspondence

TO: Distribution

See Below

FROM: A. M. Fairlie - J. C. Schaap

Cleveland

May 24, 1974

Sampling For Ambient Vinyl Chloride in Air -- Paired Sampling

~~AWF~~

N/R

CJL

TO: O. F. Beckmeyer	E. B. Katzenmeyer, Jr.	J. W. Robben
R. L. Bowles	A. L. Keller	R. N. Rylands
Dave Brooks	R. M. Kreager	J. P. Sandoz - J. R. Kute
V. Carson	P. H. Lawrence	G. D. Schaaf
A. W. Clements	<u>C. J. Lee</u>	R. D. Scott
C. B. Cooper	T. R. Linak	R. W. Strassburg
L. B. Crider	G. H. Metzger	R. A. Vanko
R. J. Fawcett	R. C. Nattkemper	A. Vittone
C. R. Flynn	J. L. Nelson	H. Waltemate
D. Giffin	D. P. O'Keefe	A. R. Webber
J. G. Goodman	G. Pow	W. J. Wilcox
E. W. Harrington	B. A. Prusinoski - T. E. Neff	C. L. Woods
M. N. Johnson	M. D. Rider	B. M. G. Zwicker

In our note of May 2, 1974, we neglected to point out the work of Cliff Lee concerning paired sampling.¹ A copy of his note was distributed to the PIC Engineers in all domestic PVC manufacturing plants on the issue date and should be available locally. Henry successfully adopted this technique when their Bendix instrument was installed.

The intent of the May 2nd note was to reinforce the work at Henry and to try to answer the various objections raised against this method because it had not been generally adopted.

A M Fairlie
A. M. Fairlie

J C Schaap
J. C. Schaap

AMF-JCS/cis

1. C. J. Lee to D. E. Giffin, "Statistical Justification for Composite Sampling of Ambient VCl with the Six Point Bendix Analyzer," BFG Interorganization Correspondence, Henry Plant, February 27, 1974.

NGC 01852

BFGoodrich**INTER ORGANIZATION CORRESPONDENCE**

TO	D. M. James	FIELD POINT OR DEPT. & BLDG. NO. Henry Plant	DATE YOUR LETTER
FROM	C. J. Lee	FIELD POINT OR DEPT. & BLDG. NO. Henry Plant	DATE THIS LETTER 4/11/78
SUBJECT			

Bendix Data Analysis by Shifts: 1/1/78 to 3/30/78

Introduction:

A systematic sampling of hourly Bendix readings are routinely collected to calculate weekly Poly Building Floor averages. At your request, I have used three months of this data to compare shift averages of ambient vinyl chloride levels for each floor. See Table I for a summary of results.

Conclusions:

- 1) "C" shift has the highest ambient vinyl chloride averages for all three floors of the Poly Building.
- 2) "A" shift has the lowest ambient vinyl chloride averages on floors 1 and 2 of the Poly Building.
- 3) "B" and "D" shifts have the lowest ambient vinyl chloride averages on third floor of the Poly Building.
- 4) The differences in shift averages listed above are statistically significant with 95% confidence.

Recommendations:

The biggest opportunity for reducing the floor averages is working with "C" shift, in particular the Recovery Operators.

C. J. Lee
C. J. Lee
Plant Statistician

CJL:vck

Attachment

cc: A. W. Otto
D. E. Giffin
L. V. Goode
W. A. Edwards
T. E. Neff
File  COPY FOR

TABLE I

AVERAGE AMBIENT VCL LEVELS, 1/1/78 to 3/30/78

<u>Shift</u>	<u>Floor 1</u>	<u>Floor 2</u>	<u>Floor 3</u>	<u>Building</u>	<u>Rows of Data</u>
A	1.15	1.17	1.58	1.30	521
B	1.65	1.44	1.13	1.41	499
C	2.50	2.20	1.67	2.12	491
D	1.70	1.665	1.14	1.50	501
Grand Average	1.75	1.62	1.38	1.58	2012

NGC 01854

4-17-78
CJL

$$S = \sqrt{\frac{\hat{p}(1-\hat{p})}{n}}$$

$(\hat{p} - 2.5S, \hat{p} + 2.5S)$ 99% confidence interval

Halt	P	=
printout		↓(3)
↓(1)		↑(1)
Halt	n	-
printout		↑(3)
↓(2)		=
↑(1)		printans
chg sign		↑(1)
+		+
1.		↑(3)
=		=
X		printans
↑(1)		Reset
=		To (0)
÷		
↑(2)		
=		
√		
printans		
X		

2.5 *

NGC 01855

* 99% confidence interval, 2.0 for 95%, 1.65 for 90%

To: Roe Vadas
From: C.J. Lee

1010.5

DATE 4-17-78

Guide Line For Using Bendix Data

Number of excursions greater than or equal to 3ppm using a sample size of 8 for an 8 hour shift.	Number of hours not could reasonably be in for light time. (90% confidence)
0	1 hour
1	2.5 hours
2	4.0 hours
3	5.5 hours
4	7.0 hours

c.c. A.W. Otto
file ✓

NGC 01856