

~~CONFIDENTIAL INFORMATION~~

- Operation, Exposed since 1948
Letter & Data to Dr. Hull 4/74 -

UCC 095953

E. Q. HULL, M.D.

June 7, 1974

TECHNICAL CENTER

Dear Quint:

The attached lists represent operator employees who have had vinyl chloride exposure since the process started early in 1948. Laborers, maintenance employees, and product handlers who have been exposed in these areas and/or in Vinylite Shipping (PVC) have ^{been} not included. The previous lists which I forwarded to you did include everyone except maintenance and product handlers (Vinylite Shipping).

Lists for Buildings 109 and 110 and Building 115 do not include employees with less than one year service, whereas the other lists do.

These lists are "hopefully reasonably" accurate but were developed by a series of Manpower girls and others under some pressure to complete the job inside a deadline. We have found some duplications and some errors in length of exposure. We have corrected those which we could. In time we will have data which we will vouch for but it will probably take another week.

I am also attaching a compilation of the results of the blood work survey, a copy of the completed deceased list, and a copy of the breakdown of years of exposure.

I have Merle Eisenhower's estimates on degree of exposure based on present day monitoring and weighted to include his knowledge of past conditions back to 1948. Don Deese's estimates are also included and represent deductions from present day monitoring.

The medical information is, of course, confidential and should be used with discretion. I have used "Ethanol" to indicate an admitted heavy drinker who is not a confirmed alcoholic.

Sincerely,

David H. Glenn, M.D. /eb
Encs.

UCC 095954

VINYL CHLORIDE

Texas City Plant

4/74

Total Group (operators, laborers, laboratory, exempt, and non-exempt personnel)	447
Status unknown (terminated or no laboratory values)	<u>185</u>
Known with laboratory done	<u>262</u>
Normal profiles (bilirubin, alkaline phosphatase, LDH, SGOT) (See Legend (*) below)	238
Abnormal profiles	24
Laboratory values considered insignificant (See Legend (**) below)	

16 employees showed 1 borderline abnormality as follows:

Bilirubin	8
Alkaline phosphatase	5
LDH	1
SGOT	2

3 employees showed questionable laboratory findings as follows:

Bilirubin	2.2
Alkaline phosphatase	5.1
Alkaline phosphatase	3.5

3 employees showed two abnormal laboratory findings as follows:

Bilirubin	1.6	LDH	619
Bilirubin	2.0	LDH	796
Alkaline phosphatase	2.7	SGOT	73

2 employees showed three abnormal laboratory findings as follows:

Bilirubin	1.3	Alkaline phosphatase	2.7	SGOT	77
Bilirubin	2.4	Alkaline phosphatase	2.9	SGOT	81 Icteric spec.

UCC 096026

VINYL CHLORIDE

Texas City Plant

7 employees demonstrated history of significant disease as follows:

Infectious hepatitis	3
Basal cell carcinoma, nose	1
Blood dyscrasia (now normal)	1
Benign tumors (vocal cords, thyroid)	2

16 deaths attributed to the following causes:

Vascular	7
Trauma	5
Malignancy	3
Liver	1

Legend * Normal ranges:

Bilirubin	0.1 - 1.2
Alkaline phosphatase	0.8 - 2.3
LDH	200 - 600
SGOT	8 - 40

** Borderline to abnormal range:

Bilirubin	2.0 or less
Alkaline phosphatase	3.0 or less
LDH	825 or less
SGOT	150 or less

VINYL CHLORIDE

Texas City Plant

Operators and laborers	350
Status unknown (terminated or no laboratory)	<u>147</u>
Known with laboratory done	203
Normal profiles	187
Abnormal profiles	16

11 laborers had 1 liver test out of normal limits:

Bilirubin	1.3	3
Bilirubin	1.4	1
Bilirubin	1.8	1
Bilirubin	2.2	1
Alkaline phosphatase	2.7	1
Alkaline phosphatase	2.8	1
Alkaline phosphatase	5.1	1
LDH	822	1
SGOT	62	1

3 employees had 2 abnormals:

Bilirubin	2.0	LDH	796
Bilirubin	1.6	LDH	619
Alkaline phosphatase	2.7	SGOT	73

2 employees had 3 abnormals

Bilirubin	2.4	Alkaline phosphatase	2.9	SGOT	81	Icteric
Bilirubin	1.3	Alkaline phosphatase	2.7	SGOT	77	

4 employees demonstrated history of significant disease as follows:

Infectious hepatitis	2
Blood dyscrasia (now normal)	1
Basal cell carcinoma, nose	1

11 deaths attributed to the following causes:

Vascular	6
Trauma	5

VINYL CHLORIDE
Texas City Plant

Exempt and non-exempt personnel	17
Status unknown (terminated or no laboratory	<u>2</u>
Known with laboratory done	15
Normal profiles	12
Abnormal profiles	3

Bilirubin	1.3 (was 1.9 in 1971)	1
Bilirubin	1.5	1
Bilirubin	1.6	1
Alkaline phosphatase	2.8	1
SGOT	134	1

4 employees demonstrated history of significant disease as follows:

Infectious hepatitis	1
Benign granuloma and papilloma vocal cords	1
Benign thyroid adenoma	2

1

2 deaths attributed to the following causes:

Carcinoma lung	1
Lymphosarcoma disseminated	2