SEP 22 1977

THE DOW CHEMICAL COMPANY

BENNETT BUILDING
2030 DOW CENTER
MIDLAND, MICHIGAN 48640

September 16, 1977

J. T. Seawell, MCA ✓
Zeb Bell, PPG
Walt Harris, UNIROYAL
M. N. Johnson, MD., BFG
Howard Kusnetz, SHELL
Gary TerHaar, ETHYL
Mayo Smith, AIR PRODUCTS
R. N. Wheeler, UNION CARBIDE
W. E. Nichols, ORGANIZATION RESOURCES COUNSELORS, Inc.
John Lawrence, SPI
John Stafford, ICI
Clark Cooper, MD., EQUITABLE ENVIRONMENTAL HEALTH

Dr. John Stafford was kind enough to send an up-date of his angiosarcoma registry dated September 1, 1977. Note that he has again asked for help on several questions. Can anyone supply me with the information to complete these cases?

Ted Torkelson

T. R. Torkelson, Chairman
MCA Technical Panel on
Vinyl Chloride Research

bh

IMPERIAL CHEMICAL INDUSTRIES LIMITED
PLASTICS DIVISION

LIVER ANGIOSARCOMA CASES (REVIEW DATE - 1st SEPTEMBER 1977)

CMA 004984

1 Tabl Sequence

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Belgium	1
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J Stafford
1 September 1977

2 Significant Changes

Germany 10? at Burghausen (Wacker) - new case
Germany 11? at Marl (CWH) - new case
Sweden 04 at Sundsvall (Kemanord) - more details
US 24? at South Charleston (UCC) - new case
US 19 at South Charleston (UCC) - confirmation of death

3 Help Required

Germany - (a) does anyone recognise NIOSH Case 08.
If it is genuine may I have details please.
(b) Is Case 06 (initials NH) a Hoechst case and was it at Gendorf?
(c) What do I do with case 03? Did Dynamit Nobel fill aerosol cans? If not which company is this and where? Should I remove 03 from our list?

Italy - What do I do with case 01?

Japan - Has Mr Garnett asked Mr Ohnishi for Japan PVC Association comment? I find it difficult to believe that Japan has only 1 case of AS.

USA - (a) Is case 16 BFG? Louisville? Avon Lake?
(b) " " 17 " " " Still Alive?
(c) Is case 18 Charlie Arthur? Avon Lake? Reconcile two entries in table.
(d) Whose case is 20? Details please.
Also cases 22 & 23 please.

ICI PLASTICS DIVISION
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WELWYN GARDEN CITY

LIVER Angiosarcoma Cases - (Review Date:- 1 September 1977)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
COUNTRY AND REFERENCE NO	NAME OR INITIALS	DATE OF BIRTH	COMPANY	FACTORY	FIRST VC EXPOSURE	DATE OF DIAGNOSIS	AGE AT DIAGNOSIS	YEARS OF EXPOSURE TO DIAGNOSIS	YEARS OF EXPOSURE	DATE OF DEATH	HISTOLOGICAL CONFIRMATION	ESTIMATED EXPOSURE LEVEL	OCCUPATION	OTHER CAREER HIGHLIGHTS	OTHER COMMENTS
Belgium 01		12.01.1[illegible]	Solvay	Jemeppe	00.07.58	00.05.76	63	18	17	29.06.76	Yes	High	Autocleaner 14 yrs Polyworker 3 yrs	Driller in a foundry (2 yrs) Farmer (15 yrs) Work in glass ind. & chemical industry	Hepatic tests in October 1974 were normal. Retired Feb 1975 Hospitalised May 1976

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* All dates use UK system
DAY - MONTH - YEAR

** All this information should be held confidential until it is published by Dr Theriault of Laval University in Quebec.

*** Many of dates altered to fit NIOSH 31/3/77 list.

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CANADA 1		15-12-13	SHAWINIGAN		1944	1955	41	10	11	2-9-55	Yes		Reactor Cleaner	Operator polymerisation	Smoker
2		6-3-14			1943	1957	43	14	14	21-12-57	Yes		Maintenance, millwright, pipefitter	Operator,	Worked overtime Smoker
3		26-8-19			1941	1962	42	21	20	23-3-62	Yes		Operator, foreman		Worked overtime Non-smoker
4		5-4-19			1945	1967	48	22	22	21-1-68	Yes		Reactor Cleaner	Operator, foreman, watercooling unit	Worked overtime Smoker
5		7-5-11			1944	1968	57	24	5	5-7-68	Yes		Reactor Cleaner	Water cooling unit	Worked overtime Smoker
6		15-12-19			1947	1971	51	24	23	10-4-71	Yes		Reactor Cleaner	Maintenance millwright	Worked overtime Smoker
7		9-11-19			1946	1972	53	26	25	24-12-72	Yes		Reactor Cleaner	Machine Shop operator and poly unit	Worked overtime Smoker
8		13-5-20			1961	1973	53	12	5	12-6-73	Yes		Reactor Cleaner	Maintenance machine shop	In plant 25 years! Smoker

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Canada 9		19-7-21	Shawinigan		1946	1974	53	28	26	4-9-74	Yes		Furnace op pipefitter maintenance		Worked overtime Smoker
10		16-5-15			1953	1976	61	23	14	00-04-77	Yes		Reactor Cleaner	Furnace op mainterance, packaging	Ex-smoker

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Czecho-slovakia 01		00.00.26			00.00.57	00.00.73	46	16	16	00.00.74	Yes				
02		00.00.26			00.00.51	00.00.66	40	15	15	00.00.66	Yes				

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CHA 004989

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FRANCE 01		15.04.24	00.01.46	18.02.67	43	21	19	19.02.67	Yes	High	Polyworker 19 years		Ref. Ravier et Al Arch. Mal. Prof. T 30 n° 3 - nov 75 p. 171-177
02		03.06.11	06.07.59	15.01.75	63	16	12	24.01.75	Yes	High	Polyworker 10 years		Ref. G. Bonnoton et A "Nouvelle presse medicale" 5 nov. 77 - p. 735
03		06.01.20	00.00.46	15.01.75	55	29	29	29.06.75	Yes	High	Polyworker 10 years	VCM Production 16 years Compounding 2 years	Ref. Rety et Al Arch. Mal. Prof. T 37 n° 6 Juin 76 p. 551 - 555
04		27.01.27	19.10.49	16.01.76	49	26	26	04.01.76	Yes	High	Production worker 8 years Autocleaner 18 years		
05		29.01.38	10.01.65	13.05.76	38	11	11	13.05.76	Yes	High	Polyworker 11 years		
06		14.4.34	01.03.58	12.08.76	42	10	13 (NIOSH says 17)	11.09.76 (NIOSH says 12.09.76)	Yes	High	Polyworker 10 years		Ref P Coudore et Al "Semaine des hopitaux 10 Septembre 76 Previously had bone angiosarcoma"

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07		00.00.27	01.07.50	After death	49	26	22	02.07.76	Yes	High	Plant foreman		Died of septicaemia Small liver lesion found after autopsy
09		01.04.34	23.05.57	03.12.75	42	19	19	30.01.77	Yes	High	Packer then polyworker		

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Germany 01	OT	04.06.30	Dynamit	Troisdorf	01.10.56	19.9.68	38		11	25.01.69	Yes (NIOSH)		Polyworker		Dates altered to fit NIOSH 31/3/77 List
02	HA	26.07.31	Dynamit	Troisdorf	14.10.57	25.9.70	40 (39?)	13	12	14.12.71	Yes (NIOSH)		Polyworker		Dates altered to fit NIOSH 31/3/77 List
03	UA	16.07.30	Dynamit?		09.06.52	00.03.73	43	21	21 (NIOSH says 14)	10.10.73	Yes (NIOSH)		Filling pesticide aerosol cans with VC		Reported under non-polymerisation workers in NIOSH list of 31/3/77. Is this correct?
04		04.09.30	Wacker	Burg-hausen	16.04.57	26.11.74	44	17	17 (NIOSH 11?)	25.11.74	Yes (NIOSH - no comment)		Polyworker & temp autocleaner		
05	MW	01.01.32	Dynamit	Troisdorf	16.12.62	00.00.75	43	13	12	10.01.75	Yes		Polyworker		
06	MH	09.05.36	Hoechst	Gendorf?	02.04.60	00.12.73	38	13 (NIOSH says 03)	05 (NIOSH says 03)	16.12.74	Yes (NIOSH)		Polyworker (NIOSH says assistant factory chemist)		Reported under non-polymerisation workers in NIOSH list of 31/3/77
07		29.09.?6	Wacker	Burg-hausen	15.04.54	12.11.75	49	21 (NIOSH says 17)	21 (NIOSH says 12)	13.11.75	Yes		Autocleaner 12 yrs Foreman Tech Dev 8 yrs		

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LIVER Angiosarcoma Cases - (Review Date:- 1 September 1977)

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Germany (cont'd)															
08?	?	19.10.17	?	?	19.04.54	1975	- (I presume 58)	22	21	25.12.75	Yes	?	?	?	In NIOSH list of 16.2.77 awaiting details. These details given by NIOSH on 31.3.77. Whose case is this? Why have we not heard of it?
09?	RK	13.12.34	CWH	Marl	00.02.61 (NIOSH says 2.12.59 but CWH confirm 00.02.61)	end '76 (NIOSH says 16.6.76 but CWH confirm end 76)	42	15 (NIOSH says 17 but CWH confirm 15)	13 (NIOSH says 15 but CWH confirm 13)	Still alive	(NIOSH says yes)	High peaks	Autoworker & cleaner 8 yrs Next job 3 yrs Control room 1 yr		Still Alive In job A was 17% cleaner with average 700 ppm exposure and occasionally 1000 +. In job B, 17% cleaner with average 250 ppm. In job C, 75 ppm average exposure
10?	WJ	25.7.29	Wacker	Burg-hausen	10.10.55	28.6.77	47	22	22	28.6.77	Yes	High	3 years autoclave cleaner 19 years filter operator		
11?	RK	29.12.36	CWH	Marl	02.01.61	00.00.77	41	16	10	07.03.77	Yes	High peaks	9 years autocleaner		exposures identical to RK case from Marl

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* Should this case be removed from the list? NIOSH have it on their supplementary list relating to non-polymerisation workers.

JS 1/8/77

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Italy 01		15.06.34			00.00.65	19.04.71	36	06	03	16.04.71	?Yes		PVC Bag Extruder		Primary tumour may have been pericardium. Not homogeneous with other cases.
02		13.11.29	Montedi-son	Porto Marghera	1957	13.12.72	43	15	06	00.12.72	Yes		Polyworker		
03		14.03.20	Solvay		00.01.53	10.07.75	55	22	21	10.07.75	Yes	High~	Autocleaner 8 yrs Autoclave operator 12 yrs		

* Could Japanese PVC Association be asked to comment on this table.

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JAPAN 01	TOMOJI MORI	01-08-22	MITSUI TOATSU	NAGOYA	1951? (NIOSH 00-04-537)	21-08-75 (NIOSH 21.08.74)	52	22	22	24-10-75	YES (NIOSH No comment)	often 3000 ppm and no protective measures until 1974	13 yrs autoclave cleaner 1964 - assigned to different work since had ill health.		Japan Times 25-10-75
	SHIZUO SATO		SUB CONTRACTOR TO MITSUI TOATSU	NAGOYA								Reactor cleaner 1964-1974			Pre-cancerous disorder of liver. Japan Times 25.10.75
	SHIGEO TANAKA		MITSUI TOATSU	NAGOYA	1953	Nov '68	43	16		14-01-69					Japan Times 27-10-75 (some figures uncertain - bad print)
	KAZUYOSHI ONO		MITSUI TOATSU	NAGOYA		Dec '67	47			Dec '67					Japan Times 27-10-75

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Norway 01	AH	23.12.15	Norsk Hydro	Heroya	00.03.50	20.12.71	56	22	21	04.01.72	Yes	High	Foreman & Autoclave Supervisor		Confirmed by Dr Thiis-Evanson of NH

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Sweden 01	NU	23.06.27	Kemanord	Sundsvall	14.08.51	20.10.70	43	19	18	20.10.70	Yes		Polyworker		
02	BL	27.11.11	Kemanord	Sundsvall	00.01.45	00.08.72	61	27	27	16.08.72	Yes		VCM production		but Mr Blomquist remembers him as polymerisation worker and personally pulling him unconscious from the PVC works
03	NE	10.06.10	Kemanord	Sundsvall	00.05.47	18.03.76	65	29	21	19.03.76	Yes	High	Polyworker		
04	AL	16.11.14	Kemanord	Sundsvall	00.00.46	12.05.77	64	31	31	12.05.77	Yes	High	1946-1958 polymerisation worker (12 yrs) & 1958-1977 foreman(19 yrs)		In first 12 years of employment had been heavily exposed. In 1974, liver abnormality and necrosis diagnosed.

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UK 01	WJ	20.04.01	ICI	Hillhouse	00.00.44	00.12.72	71	28	22	00.12.72		500 ppm	1944-7 VCM 1947-8 Drier 1948-61 Autoclave operator 1961-66 Drier		
03	BJW	02.06.37	BP	Barry	00.02.66	00.12.74	37	09	3.5	24.12.74	Yes		Autoclave cleaner		Exposure limited to 2/66 - 9/69
															* NIOSH are still quoting Case 02 from IOCO which has been discounted in the UK. IOCO spread many polymers including PVC onto fabrics.

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USA 01	EARL PARKS	17-10-23	BFG	Louisville	09-12-48	03-03-73	49	24 (NIOSH says 22)	16	03-03-73	YES				Rolling Stone Art Ref 1 NY Acad of Sc Symp
02		19-08-33	BFG	Louisville	15.11.55	00-05-70	37	14	13	27-09-71 (NIOSH says 28.09.71)	YES				Ref 1 Also Block JAMA 1/7/74 p53
03		25.05.15	BFG	Louisville	28.11.45	19-12-73	58	28	28	19-12-73	YES				Ref 1
04		15-01-24	BFG	Louisville	06-07-52	19-08-67	43	15	15	07-01-68	YES				Ref 1
05		25-01-12	BFG	Louisville	19-06-44	09-04-64	52	20	18	09-04-64	YES				Ref 1
06	RAY AUSTIN JONES?	00-00-29	BFG	Louisville	17-01-62	00-02-74	45	12	12	24-07-75	YES		US Air Force		Ref 1 + Louisville Time 23/7/75 Retired April 1974
07	CHARLES T SMART	03-05-22	UCC	S Charleston	00-08-44	00-00-68	45	24	18	23-03-68	YES				Ref 1
08		06-05-20	Goodyear	Niagara	07-10-46	00-08-61	41	15	15	29-08-61	YES				Ref 1

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USA 09	RAYMOND GETTLE-FINGER?	08-11-31	BFG	Louisville	09-09-54	01-03-74	43	19 (NIOSH says 17)	17	11-03-75	YES	2000 ppm			Ref 1 has wrong figures re first exposure. Louisville Times 29-10-74, 12-3-75, 10-3-76
10		16-08-13	Goodyear	Niagara	12-06-51	00-05-68	55	17	17	10-05-68	YES				Ref 1
11		27-05-09	Goodyear	Niagara	14-10-46	00-03-70	61	23	23	16-03-70	YES				Ref 1
12		17-11-13	Firestone	Pottstown	13-09-49	02-05-69	50	20	15	02-05-69	YES				Ref 1
13	RICHARD EDWARD CLEMENTS	01-12-21	BCC	S Charleston	19-08-44	00-05-74	52	30	30	07-04-74	YES	2000 ppm			Charleston Daily Mail 21/7/75
14															Dubious fabrication case
15															Dubious fabrication case
16		04-11-27	BFG?		08-05-50	00-00-69	41	18 (NIOSH says 17)	4	27-03-69	YES		1951-4 VCM Polymerisation	From 1954 onwards in Army and other service. 46-50-Army	Table 4 in Wagoner Testimony to US Senate.
17		08-05-31	BFG?		23-06-55	11-10-74	43	19	19	ALIVE?	YES				

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USA 18	Is this Charlie Arthur?	22-04-28	Is this BFG?	Is this Avon Lake	00-00-54	00-00-75	46	21	13	02-11-75	Yes				
19	VIRGIL CHRISTIAN	00-00-15	UCC	S Charleston	00-00-43	19-06-75	60	32	32	6-4-76		2000 ppm			Williamsport Sun Gazette 21 June 1975 Charleston Daily Mail 21/7/75.
20		31-08-71			00-00-47	30-01-76		29	22	30-01-76	Yes				
21	CHESTER HINKLE	1910	UCC	S Charleston	1946	early 1977	67	30	22	02-01-77	Yes				28 yrs with UCC at SC Retired News Release 23-2-77
22		02-10-23	Is this BFG?	Is this 10th Louisville victim?	00-00-49	00-01-76	52	27	27	04-12-76	Yes				
23		00-00-23								06-04-76					
Is this 18?	CHARLIE ARTHUR	22-07-28	BFG	AVON LAKE	54	00-03-75	47	21	13	75		13 years AUTO-CLEANER —— 8 yrs on ESTOL PLASTICISER AND CARDOSET OPERATIONS	NAVY — TYRE STORE		Rolling Stone Magazine 15/1/76

CMA 005000

ICI PLASTICS DIVISION
BESSEMER ROAD
WELWYN GARDEN CITY

CMA 005001

LIVER Angiosarcoma Cases - (Review Date:- 1 September 1977)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
COUNTRY AND REFERENCE NO	NAME OR INITIALS	DATE OF BIRTH	COMPANY	FACTORY	FIRST VC EXPOSURE	DATE OF DIAGNOSIS	AGE AT DIAGNOSIS	YEARS OF EXPOSURE TO DIAGNOSIS	YEARS OF EXPOSURE	DATE OF DEATH	HISTOLOGICAL CONFIRMATION	ESTIMATED EXPOSURE LEVEL	OCCUPATION	OTHER CAREER HIGHLIGHTS	OTHER COMMENTS
Is this 22?			BFG	Louisville No 10		24-01-76		26		ALIVE					Louisville Times 26-1-76. Said to be 10th AS victim at Bells Lane factory of whom 8 have died so far.
24?	Charles Edward Moore	17.5.17	UCC	South Charleston	1939	27.5.77?	60?	38?	24?	27.5.77		Medium to High for 24 years	1941-65 Non-solvent vinyl resin unit and Dispersion vinyl resins unit first as fitter helper, then shift utility man	1937-39 was off and on labourer 1939-41 may have been exposed as reactor cleaner 1943 became shift fitter 1946 became shift utility man 26.4.1965 employment was terminated	N M Wheeler letter of 18/3/77 to J Stafford gives details.

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Yugoslavia 01		05.04.14			00.00.53	08.04.73	59	20	20	08.04.73	Yes				
02		15.11.31			00.00.50	12.07.73	42	23	18	12.07.73	Yes				

CMA 005002