

WV-811
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ENGINEERING, MANUFACTURING, AND TECHNOLOGY SERVICES
HEALTH, SAFETY, AND ENVIRONMENTAL AFFAIRS MONTHLY REPORT
JUNE, 1986

PLAINTIFF EXHIBIT

UC-2801

Safety Performance Summary

Listed below is a summary of the significant statistics for the month and year:

	<u>MONTH</u>		<u>YTD</u>		<u>LIMIT</u>	
	<u>NO.</u>	<u>RATE</u>	<u>NO.</u>	<u>RATE</u>	<u>NO.</u>	<u>RATE</u>
LOST WORKDAY CASE INJURIES	0	0.00	1	0.11	2	0.10
RECORDABLE INJURIES	1	0.66	9	1.00	18	0.92
OFF-THE-JOB DISABLING INJURIES	0	0.00	13	3.99	35	4.97
PROPERTY LOSS, \$M	0		0		0	

Outstanding Safety Performance

The Technical Center has completed another month without a serious occupational injury. We have now worked over seven months without a Recordable Injury and over two years without a Lost Workday Case Injury.

On The Job Injury/Illness Experience

The Department reported no Lost Workday Cases or Recordable Illnesses and one Recordable Injury during the month of June. The Department has a Lost Workday Case Incident Rate of 0.11 compared to a limit of 0.10 and a Recordable Injury Rate of 1.00 compared to a limit of 0.92. The following is a brief description of the one Recordable Injury:

June 11 - Construction - An insulator bent over to pick up a piece of insulation material and struck his right forearm against a roll of stainless steel weather barrier. He suffered a small laceration of his forearm that required two staples.

In the May report, the Construction Department was charged with one Recordable Injury. This injury involved an alleged embedded foreign body in an employee's eye. It was later determined that the employee did not have an embedded foreign body in his eye; therefore, this injury will be deducted from Construction's year-to-date performance.

Off-The-Job (OTJ) Injury Experience

The Department did not report any OTJ injuries in June. This is the first time this has happened since the OTJ Safety Committee was established in January, 1984, and our present injury reporting system was improved in May of the same year. Year-to-date the Department has reported 13 OTJ injuries which represents 293 days of work lost. The OTJ Disabling Injury Rate is 3.99 compared to a limit of 4.97.

Changes in UCC Injury and Illness Classification and Reporting System

Effective July 1, UCC adopted the new Bureau of Labor Statistics (BLS) Guidelines for classification of workplace injuries and illnesses in complying with OSHA reporting requirements. All injuries and illnesses that occurred from January through June of this year will be reviewed to determine if they must be reclassified to conform with the new BLS guidelines.

Safety Recognition Luncheon

On July 17, the Central Safety Committee will sponsor a luncheon for all Technical Center and Construction Safety and Health Committee members at the Technical Center cafeteria. The purpose of the luncheon is to recognize these employees for their dedicated service and to issue to the safety committee members, as representatives of all employees, the 1985 Technical Center National Safety Council (NSC) Award of Merit. Bob Perry, Vice President of EMTS, will be presenting this award to the committee members.

B. G. Perry's Safety Message-Videotape

A videotape has been prepared by Bob Perry for use by all Technical Center functions. It focuses primarily on human behavior and physical environment issues. The tape and an outline that provides a suggested format have been distributed to the various functional committees for implementation.

New Asbestos Standard

On June 20, 1986, OSHA published a final standard on occupational exposure to asbestos that will become effective on July 21, 1986. This standard establishes a permissible exposure limit of 0.2 fiber per cubic centimeter (f/cc) of air determined as an 8-hour time weighted average airborne concentration. This limit is ten times lower than the current limit of 2 f/cc. An action level standard of 0.1 f/cc will trigger worker training, medical surveillance, and other requirements. There is no ceiling value. The current standard has a ceiling of 10 f/cc.

NPDES Permitting

There ~~were~~^{was} no NPDES Permit violations in June. A meeting between representatives of the West Virginia Department of Natural Resources (WVDNR) and the Technical Center Environmental Protection Department (EPD) was conducted in an attempt to resolve the outstanding NPDES Permit appeal issues. The issues

were not resolved, and they will be presented before the Water Resources Board in the near future.

Best Management Practices (BMP) Plan

The BMP Plan was reviewed by legal counsel, presented to Site management, and submitted to the WVDNR on June 17, 1986. The Plan describes in detail the potential sources of spills or leaks of oils, hazardous or toxic materials, and the control measures to prevent the discharge of these materials to surface waters.

Incinerator Scrubber Water

Steps have been initiated to modify the NPDES Permit to allow the direct discharge of incinerator scrubber water into Davis Creek. This will require a major NPDES Permit modification, a sampling and analytical program, and a caustic addition system at the incinerator. If successful, this modification will improve incinerator on-line reliability in the future.

Part B Storage Permit Modifications

A second comment period was initiated by WVDNR due to EPA's claim that the initial comment activity was invalid due to the RCRA program reversion issued. Long construction delays for the new storage facility were imminent. Legal counsel, however, has resolved the issue; and the WVDNR, via written correspondence, has given permission to initiate construction of the new permitted storage facility.

Incinerator Trial Burn

A telephone conference between UCC, Region III EPA, and the West Virginia Air Pollution Control Commission (WVAPCC) personnel resolved many of the outstanding technical issues. UCC will update the trial burn plan and submit it to the USEPA and WVAPCC in July. The trial burn will most likely occur late 3Q or early 4Q 1986.

Incinerator

Gas supply to the waste incinerator was temporarily interrupted as a result of problems with the Logan supply line. The incinerator was shut down on June 9 and is not expected (pending the installation of a new line from the Mountaineer Gas line) to start up until July 1. While down, the incinerator underwent a thorough routine maintenance inspection. This inspection triggered the need for significant repairs to the chamber and a re-lining of the chamber's refractory. Efforts will be made in July to reduce the waste disposal back-log that has resulted from the incinerator outage.

CERCLA Continuous Reporting Request

The CERCLA Continuous Reporting Request was prepared. According to the Corporate guidelines, the Technical Center has two situations which require

reporting: (1) four boilers which were registered with the WVAPCC and are in compliance but are not "Federally Permitted" for NO₂ emissions and (2) 771 reactor vents and 770/771 analyzer vents of ethylene oxide.

Environmental Audits

The Phase I final report for the EP Department Internal Audit was issued from the Audit Team in June. An action plan addressing issues raised by the Audit Team will be issued by mid-July.

The Phase II Internal Audits of 772 Polyolefins (July 8), 704 Shops (July 15), and 704 Boilers (July 22) are scheduled with the remaining Technical Center areas to be audited (two areas per month) by December.

The Corporate HS&EA Audit group is scheduled to audit the Technical Center the week of July 28. In conjunction with the Corporate Audit, the Site's Location Environmental Inventory (LEI) will be completed by July 14.

Kanawha River Cooperative Monitoring Project

Organic priority pollutant results have been received from Technical Testing Laboratories, Inc., and were issued to the WVDNR and Kanawha Valley industry sponsors. The findings indicated that very few priority pollutants are present in the Kanawha River at very low (less than 10 ppb) concentrations. Metals and conventional pollutant analyses are being performed by WVDNR and are expected to be completed.

Regional Incinerator Work Group

The group met and reviewed preliminary cost estimates for a "grass roots" incinerator facility and a facility located at an existing Union Carbide location. Additional work is required by the various locations to better define the waste characteristics and waste contributions to a regional incinerator.

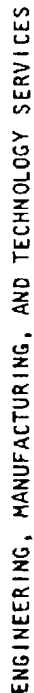
Budget Projections

In the last week of June, the Site accounting group requested a quarterly projection of Department budget costs for the remaining 1986 quarters. The EPD budget is projected to underrun \$75,000 due to delayed requirements for groundwater monitoring under the Site's NPDES and RCRA permits.

Spills/Incidents

In June, no CERCLA, Agency, or Danbury reportable incidents occurred at the Technical Center. The EPD group was notified of seven spills or incidents involving one pound or more of chemicals.

July 7, 1986
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Safety Statistics Report

DATE: June, 1986

LOST WORKDAY INJURY EXPERIENCE

	ON THE JOB										OFF THE JOB						
	EMPLOYEES, NUMBER	CURRENT MONTH			YEAR TO DATE						CURRENT MONTH			YEAR TO DATE			
		EXPOSURE 000 HOURS	INCIDENTS, NUMBER	WORKDAYS LOST	EXPOSURE 000 HOURS	INCIDENTS, NUMBER	WORKDAYS LOST	INCIDENCE RATE	GOAL	EMPLOYEE HOURS SINCE LAST WORKDAY CASE	EXPOSURE 000 HOURS	WORKDAYS LOST	DAYS LOST	EXPOSURE 000 HOURS	WORKDAY CASES	DAYS LOST	FREQUENCY RATE
CENTRAL ENGINEERING	546	94		592				0.00	13,625,022	170			1,068	1	1	0.94	2.57
TECHNICAL CENTER SERVICES	260	45		262				0.00	1,431,717	81			473				5.34
CONSTRUCTION	609	105		618	1	47	0.32	0.25	612,522	190		52	1,115	9	189	8.07	7.32
RESEARCH AND DEVELOPMENT	240	42		250				0.00	3,516,349	75		42	450	3	103	6.66	4.45
DANBURY OFFICE AND OFF-SITE	10	2		9				0.00	213,144	3			17				0.00
EMPLOYEE RELATIONS	51	9		53				0.00	1,018,278	16			95				0.00
HS&EA	22	4		23				0.00	83,050	7			41				0.00
TOTAL EMTS	1,738	301	0	1,807	1	47	0.11	0.10	1,792,744	542	0	94	3,259	13	293	3.99	4.97

***INCIDENCE RATE =** **NUMBER OF LOST WORKDAY CASES X 200,000**
EMPLOYEE HOURS EXPOSURE

$$\text{...FREQUENCY RATE} = \frac{\text{NUMBER OF LOST WORKDAY CASES} \times 1,000,000}{\text{EMP/1000 HOURS EXPOSURE}}$$

J. L. Collins,

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ENGINEERING, MANUFACTURING, AND TECHNOLOGY SERVICES

Safety Statistics Report

DATE: June, 1986

RECORDABLE INJURY/FIRE LOSS EXPERIENCE

	RECORDABLE INJURIES						FIRE LOSSES						
	CURRENT MONTH			YEAR TO DATE				CURRENT MONTH		YEAR TO DATE			
	EXPOSURE, 000 HOURS	INCIDENTS, NUMBER	INCIDENCE RATE	GOAL	EXPOSURE, 000 HOURS	INCIDENTS, NUMBER		INCIDENCE RATE	GOAL	No.	\$000	No.	\$000
CENTRAL ENGINEERING	94			0.00	592	1	0.34	0.00	HOSTED LOCATIONS	0		0	
TECHNICAL CENTER SERVICES	45			0.77	262			0.77	TECHNICAL CENTER	0		0	
CONSTRUCTION	105	1	1.90	1.82	618	8	2.59	1.82					
RESEARCH AND DEVELOPMENT	42			0.80	250			0.80					
DANBURY OFFICE AND OFF-SITE	2			0.00	9			0.00					
EMPLOYEE RELATIONS	9			0.00	53			0.00					
HS&EA	4			0.00	23			0.00					
TOTAL EMTS	301	1	0.66	0.92	1,807	9	1.00	0.92					

*INCIDENCE RATE = $\frac{\text{NUMBER OF LOST WORKDAY CASES} \times 200,000}{\text{EMPLOYEE HOURS EXPOSURE}}$

V. L. Collins
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UNION CARBIDE CORPORATION - SAFETY SUMMARY

MAY 1986

RECORDABLE INJURIES - DOMESTIC						
COMPONENT	NO.	RATE	YTD	LIMIT	1985	ACTUAL
CARBON PROD. BUS. GRP.	1	1.60	8	0.94	0.95	1.02
International Petro.	0	0.00	0	0.00	0.00	0.00
Industrial Chemicals	1	0.70	3	0.44	0.38	0.26
Solv. & Coat. Mat.	3	1.30	9	0.77	0.47	0.57
Polyolefins	1	0.59	7	0.80	0.60	0.49
C&P Staff Departments	0	0.00	2	0.82	0.00	0.39
Eng. Mfg. & Tech. Serv.	1	0.69	9	1.19	0.92	0.66
Specialty Chemicals	7	3.14	15	1.37	0.75	1.00
Agricultural Products	12	4.44	23	1.74	0.94	1.04
Eng. Poly. & Comp.	0	0.00	6	2.17		1.10
TOTAL C&P BUS. GRP.	25	1.94	74	1.15	0.66	0.72
IND. GASES BUS. GRP.	6	1.13	30	1.11	1.07	0.88
Electronics	8	1.26	29	0.96	0.70	0.66
Catalysts & Services	2	1.10	14	1.24	1.20	0.77
TOTAL SPC. & SRV. BUS GRP	10	1.22	43	1.04	0.85	
Corporate Dept.	0	0.00	1	0.18	0.15	
Battery Products	0	0.00	8	0.37	0.70	0.49
Films-Packaging			3	0.74		0.92
Home & Automotive	3	1.37	9	0.84	0.70	0.66
Umetco - Domestic	1	1.66	5	1.76	1.70	1.86
TOTAL DOMESTIC	46	1.26	181	0.97	0.78	0.74

RECORDABLE INJURIES - INTERNATIONAL						
COMPONENT	NO.	RATE	YTD	LIMIT	1985	ACTUAL
U.C. Eastern	11	0.74	25	0.34	0.39	0.45
U.C. Europe	1	0.22	10	0.42	0.31	0.40
U.C. Pan America	8	0.51	40	0.53	0.56	0.67
U.C. Africa Mid-East	0	0.00	7	0.68	0.81	0.58
U.C. Southern Africa	6	1.06	23	0.80	0.89	0.89
Umetco - Inter. Oper.	1	1.01	4	0.81	1.23	1.20
U.C. Canada Ltd.	5	1.50	16	0.97	1.13	1.15
Katalistika	0	0.00	3	5.14		
TOTAL INTERNATIONAL	32	0.74	128	0.59	0.48	0.64

RECORDABLE INJURIES - ALL UCC						
COMPONENT	NO.	RATE	YTD	LIMIT	1985	ACTUAL
TOTAL UCC	78	0.94	309	0.74	0.61	0.69

INJURIES WITH DAYS AWAY FROM WORK - DOMESTIC						
COMPONENT	NO.	RATE	YTD	LIMIT	1985	ACTUAL
CARBON PROD. BUS. GRP.	0	0.00	1	0.12	0.10	1.06
Eng. Poly. & Comp.	0	0.00	0	0.00	0.00	0.24
Industrial Chemicals	0	0.00	0	0.00	0.00	0.00
International Petro.	0	0.00	0	0.00	0.00	0.00
Polyolefins	0	0.00	0	0.00	0.05	0.09
Solv. & Coat. Mat.	0	0.00	0	0.00	0.03	0.03
Eng. Mfg. & Tech. Serv.	0	0.00	1	0.13	0.10	0.04
Specialty Chemicals	0	0.00	3	0.27	0.08	0.14
Agricultural Products	2	0.74	4(1)	0.30	0.13	0.15
C&P Staff Departments	0	0.00	1	0.41	0.00	0.41
TOTAL C&P BUS. GRP.	2	0.16	9(1)	0.14	0.07	2.67
IND. GASES BUS. GRP.	0	0.00	4	0.15	0.11	1.66
Electronics	2	0.31	3	0.10	0.07	1.63
Catalysts & Services	0	0.00	2	0.18	0.10	1.60
TOTAL SPC. & SRV. BUS GRP	2	0.24	5	0.12	0.08	1.62
Films-Packaging			0	0.00		0.00
Battery Products	0	0.00	0	0.00	0.03	0.00
Umetco - Domestic	0	0.00	0	0.00	0.28	0.23
Home & Automotive	0	0.00	1	0.09	0.08	0.84
Corporate Dept.	0	0.00	1	0.18	0.15	4.79
TOTAL DOMESTIC	4	0.10	21(1)	0.13	0.08	1.57

INJURIES WITH DAYS AWAY FROM WORK - INTERNATIONAL						
COMPONENT	NO.	RATE	YTD	LIMIT	1985	ACTUAL
Katalistika	0	0.00	0	0.00		0.00
U.C. Eastern	1	0.07	7	0.10	0.11	2.15
U.C. Canada Ltd.	2	0.30	2	0.12	0.16	3.14
U.C. Pan America	3	0.19	12	0.16	0.10	3.72
U.C. Europe	1	0.22	4	0.17	0.06	5.45
U.C. Southern Africa	1	0.18	5	0.17	0.17	3.57
Umetco - Inter. Oper.	0	0.00	1	0.20	0.10	6.52
U.C. Africa Mid-East	0	0.00	6	0.58	0.33	12.75
TOTAL INTERNATIONAL	7	0.16	37	0.172	0.098	3.86

INJURIES WITH DAYS AWAY FROM WORK - ALL UCC						
COMPONENT	NO.	RATE	YTD	LIMIT	1985	ACTUAL
TOTAL UCC	11	0.132	58(1)	0.139	0.090	2.81

* Fatalities shown in ()

6/19/86

UCC CHEMICALS AND PLASTICS GROUP - SAFETY SUMMARY

RECORDABLE INJURIES - DOMESTIC					
COMPONENT	NO.	RATE	NO.	RATE	YTD
C&P Distribution	0	0.00	0	0.00	0.00
C&P Financial Control	0	0.00	0	0.00	0.00
International Petro.	0	0.00	0	0.00	0.00
EMTS Excl. Const.	0	0.00	0	0.00	0.00
Industrial Chemicals	1	0.20	1	0.20	0.35
International Petro.	1	0.20	1	0.20	0.38
Solv. & Coat. Mat.	3	1.30	9	0.77	0.47
Polyolefins	1	0.59	7	0.80	0.60
Specialty Chemicals	7	3.14	15	1.37	0.75
Agricultural Products	12	4.44	23	1.74	0.94
Eng. Poly. & Comp.	0	0.00	5	2.17	1.10
C&P Administrative	0	0.00	2	2.60	0.00
EMTS Const.	1	2.10	8	3.12	1.82
TOTAL DOMESTIC C&P	25	1.94	74	1.15	0.66
U.C. Canada Ltd.	5	1.30	16	0.97	1.13
TOTAL C&P	30	1.85	90	1.11	0.77

1985 DOMESTIC C&P LIMIT = 0.80
1985 TOTAL C&P LIMIT = 0.89

UCC SAFETY/LOSS CONTROL SUMMARY

ACCIDENTAL PROPERTY LOSS (\$000)				
COMPONENT	MONTH	YTD	LIMIT	
Agricultural Products	5	45	200	
C&P Administrative	0	0	0	
C&P Distribution	0	0	25	
C&P Financial Control	0	0	0	
Eng. Poly. & Comp.	0	0	0	
EMTS Const.	0	0	0	
EMTS Excl. Const.	0	0	0	
Industrial Chemicals	0	0	200	
International Petro.	0	0	0	
Polyolefins	0	0	200	
Solvents & Coat. Mat.	0	0	350	
Specialty Chemicals	0	5	100	
TOTAL DOMESTIC C&P	5	50	1075	
U.C. Canada Ltd.	0	0	350	
TOTAL C&P	5	50	1425	

1985 DOMESTIC C&P LIMIT = 1045
1985 TOTAL C&P LIMIT = 1465

MAY 1986

INJURIES WITH DAYS AWAY FROM WORK - DOMESTIC					
COMPONENT	NO.	RATE	NO.	RATE	YTD
C&P Distribution	0	0.00	0	0.00	0.00
C&P Financial Control	0	0.00	0	0.00	0.00
EMTS Excl. Const.	0	0.00	0	0.00	0.00
Industrial Chemicals	0	0.00	0	0.00	0.00
International Petro.	0	0.00	0	0.00	0.00
Eng. Poly. & Comp.	0	0.00	0	0.00	0.00
Solv. & Coat. Mat.	0	0.00	0	0.00	0.00
Polyolefins	0	0.00	0	0.00	0.00
Specialty Chemicals	0	0.00	3	0.27	0.08
Agricultural Products	2	0.74	4(1)	0.30	0.13
EMTS Const.	0	0.00	1	0.39	0.25
C&P Administrative	0	0.00	1	1.30	0.00
TOTAL DOMESTIC C&P	2	0.155	9(1)	0.140	0.066
U.C. Canada Ltd.	1	0.300	2	0.121	0.16
TOTAL C&P	3	0.185	11(1)	0.136	0.083

*Fatalities shown in () 1985 DOMESTIC C&P LIMIT = 0.087
1985 TOTAL C&P LIMIT = 0.103

OFF-THE-JOB DISABLING INJURIES C&P OPERATIONS					
COMPONENT	NO.	DIFR. LIMIT	IPAT. DAFN	ACT.	1985
International Petro.	0	0.00	0.00	0	0.00
EMTS Excl. Const.	4	2.23	3.36	0	62
Polyolefins	7	2.37	2.70	0	73
C&P Distribution	1	2.89	4.85	0	19
C&P Financial Control	1	3.02	0.00	0	8
C&P Administrative	1	3.15	3.36	0	10
Specialty Chemicals	14	3.55	4.57	0	143
Solvents & Coat. Mat.	15	3.58	5.45	0	186
Industrial Chemicals	9	3.85	4.94	1	144
Eng. Poly. & Comp.	4	4.03	0	0	28
Agricultural Products	28	5.68	6.09	0	240
EMTS Const.	9	9.73	7.32	0	137
TOTAL DOMESTIC C&P	93	4.02	4.82	1	1050
U.C. Canada Ltd.	37	5.69	7.50	0	399
TOTAL C&P	130	4.38	5.40	1	1449

1985 DOMESTIC C&P LIMIT = 6.02
1985 TOTAL C&P LIMIT = 6.56

DAFN = Days Away From Work