WU-0125 #3

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fyi (7) ~~RJR~~ RJR (last) File # 503A Asbestos

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To: See Distribution List

Date: July 22, 1986

Orig. Dept: HS&EA

Area: Industrial Hygiene

C.C. T. L. Collins
T. E. Hanning
C. P. Maxwell

Subject: Amended Asbestos Standard

On June 20, 1986 OSHA amended its present standard 29 CFR 1910.1001 for Asbestos which has gone into effect on July 21, 1986.

A summary of the changes in the health standard has been prepared by T. E. Hanning of our Health, Safety and Environmental Technology Group is attached for your review.

A significant difference in the new standard is the permissible exposure limit now reduced from 2.0 fibers per c.c. (f/c.c.) to 0.2 f/c.c. with an action level of 0.1 f/c.c., 8-hour time-weighted average (TWA8). A ceiling limit of 10 f/c.c. is no longer applicable in the amended standard.

The amended standard will result in a few changes in how we handle asbestos containing materials. These changes are mainly relative to exposure monitoring techniques (Industrial Hygiene responsibility), posting, training and protective equipment.

We will provide guidance to those groups who are involved in handling asbestos containing materials. All questions relative to compliance with this standard may be addressed to this writer.

Manhar A. Patel

Manhar A. Patel
Technical Center Industrial Hygienist

Attachment/
MAP

PLAINTIFF'S EXHIBIT
UC-4277

UCC 011665

UNION CARBIDE CORPORATION

ENGINEERING, MANUFACTURING AND TECHNOLOGY SERVICES DEPARTMENT
HEALTH, SAFETY AND ENVIRONMENTAL TECHNOLOGY
SOUTH CHARLESTON, WEST VIRGINIA

JUL 15 1986
C. P. MAXWELL

MEMORANDUM
July 11, 1986

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M. A. PATEL

TO: S. W. Clark
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J. A. Leonard
J. B. Leverton
C. P. Maxwell
J. E. Neff
T. P. Raby

FROM: T. E. Hanning

SUBJECT: Final Rules for Occupational Exposure to Asbestos, Tremolite, Anthophyllite, and Actinolite (Amended Standard)

Gentlemen:

Attached is a preliminary summary of the changes between the amended subject health standard and the original asbestos standard as stated in 29 CFR 1910.1001. The amended standard was published by OSHA in the Federal Register on June 20, 1986 and will take effect on July 21, 1986.

The Safety and Health Technology Manual health operating practice SH-256 (Removal and Handling Asbestos Containing Insulation Material) will be revised to reflect the changes set forth in the amended OSHA standard.

Please call if you have further questions or comments.

Terry E. Hanning
T. E. Hanning
Ext. 5903

TEH/jc
Attachments

UCC 011666

Changes Between the Original and Amended Asbestos Occupational Health Standard

General

OSHA amends its present standard (29 CFR 1910.1001) regulating occupational exposure to asbestos by developing two final standards that apply to general industry and to construction because the differences in exposure and work place conditions in general industry and construction work sites warrant separate treatment.

UCC activities would generally fall under the revised standard for general industry.

OSHA has concluded that chemically modified asbestos should be regulated in the same manner as unmodified asbestos.

OSHA concludes that all forms of tremolite, anthophyllite and actinolite should be regulated under the revised standards.

In the final standard the action level has been set at 0.1 fibers per cubic centimeter (f/cc) which triggers the monitoring, medical, and employee information and training requirements. This action represents no real change to the standard with regard to this provision, but merely clarifies OSHA's policy.

Permissible Exposure Limit

OSHA has reduced the current 2 f/cc permissible exposure limit (PEL) to an 8-hour time-weighted average (TWA) PEL of 0.2 f/cc. This lower limit should reduce the recorded mortality from lung cancer, mesothelioma, gastrointestinal cancer, and other types of cancer due to asbestos exposure.

Ceiling Limit

The amended standards do not designate a ceiling limit for exposure to asbestos. The original standard had a ceiling limit of 10 f/cc and was met through engineering and work practice controls.

Exposure Monitoring

The table below lists the two exposure situations along with the monitoring frequency for each.

Exposure Scenario	Required Monitoring Activity
1. Below action level	1. No monitoring required
2. At or above the action level	2. Monitor exposure at least every 6 months

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The amended standard requires the employer to collect airborne asbestos samples using 25 mm diameter mixed cellulose filters and a 50 mm extension cowl. Samples must be analyzed using a phase contrast microscope calibrated using a phase shift test slide and equipped with a Walton-Beckett graticule. The filter samples must be prepared using acetone-triacetin clearing solution and be counted in accordance with the "A" rules contained in the NIOSH 7400 method.

Regulated Areas

The amended standard requires employers to identify as regulated areas any locations in their work places where there may be occupational exposures to airborne concentrations of asbestos above the PEL. The amended standard prohibits eating, drinking and smoking in these areas. Only authorized persons may enter regulated areas which must be clearly marked. The existing OSHA standard does not contain a provision for establishing regulated areas.

Methods of Compliance

The amended standard requires employers to institute engineering and work practice controls to reduce the exposure of employees to or below the PEL. If the employer establishes that such controls are not feasible, selected respirators may be used to supplement the engineering and work practice controls.

Respiratory Protection

Respirators may be used to limit employee exposure to asbestos in the following circumstances.

1. During the interval necessary to install or implement feasible engineering and work practice controls,

2. In work operations such as maintenance and repair activities or other activities which the employer establishes that engineering and work practice control procedures are not feasible.

3. In work situations where feasible engineering and work practice controls are not yet sufficient to reduce exposure to or below the PEL.

4. In emergencies.

These limitations on the required use of respirators are consistent with the requirements of the past asbestos standard and with good industrial hygiene practice.

Protective Work Clothing and Equipment

The final standard makes a change from the current standard to respond to the evidence developed since 1971 that asbestos is a potent human carcinogen. Protective clothing is to be supplied to employees exposed above the PEL of 0.2 f/cc.

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The final standard provides that the employer ensure that all protective clothing is removed at the end of each work shift only in change rooms. The standard emphasizes the need to assure that contaminated clothing is stored, cleaned/laundered, or disposed of in a safe manner.

The final standard clarifies that the obligation is on the employer to provide personal clothing at no cost to the employee.

The final standard also requires the employer to inform those who handle the contaminated protective clothing of the potentially harmful effects of exposure to asbestos.

Hygiene Facilities and Practices

The final standard like the existing standard reiterates the type of change room an employer must provide and the requirement that the employer prohibit the consumption of food and beverages in areas where there is exposure to toxic substances. Unlike the existing standard, the final standard requires employers to assure that employees exposed to asbestos during their work shift shower before leaving the plant and do not leave wearing work clothing.

The final standard requires employers to provide persons working in asbestos areas with filtered air lunchrooms which are readily accessible. Employers must also assure that employees wash their hands and face prior to eating or smoking and do not enter the lunch room wearing protective clothing, unless cleaned beforehand.

Communication of Hazards to Employees

The final rule for asbestos requires that legible caution signs be posted at each regulated area where occupational exposures could exceed the PEL. Signs must also be posted at all approaches to areas containing excessive concentrations of airborne asbestos fibers. Signs must bear the following:

Danger - Asbestos; Cancer and Lung Disease
Hazard - Authorized Personnel Only;
Respirators and Protective Are Required
in This Area.

The final standard is not substantially different from the present OSHA standard. The section on sign specifications simplifies the sign requirements and eliminates unnecessary detailed specifications (letter sizes and styles, spacing between lines) in favor of a more performance oriented approach.

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The amended standard also requires that all raw materials, mixtures, scrap, waste, debris, and other products containing asbestos fibers, or their containers, be labeled with the appropriate information.

Danger - Contains Asbestos
Fibers; Avoid Creating Dust;
Cancer and Lung Disease Hazard.

The new standard allows two exceptions to the labelling and material safety data sheets (MSDS) requirements; no label or MSDS is required in those instances where

- Asbestos fibers have been modified by a bonding agent provided that the manufacturing can demonstrate that during any use the employee will remain below the action level; or

- Asbestos is present in a product in concentrations less than 0.1%. The new standard updates the existing standard by providing that airborne concentrations must be kept below the action level rather than the PEL.

The final standard requires employers to provide a training program for all employees expected to be exposed to airborne asbestos at or above the action level of 0.1 f/cc.

Housekeeping

Unlike the existing standard which requires that surfaces be maintained free of accumulation of asbestos fibers if, with their dispersion, there would be an excessive concentration, the revised standard removes the ambiguous phrase of excessive concentration. Specific provisions for housekeeping are included in the final rule. Some of these are prohibiting the clean-up of asbestos dust with compressed air, dry-sweeping and dry clean-up, and prohibiting the accumulation of asbestos waste on surfaces. OSHA anticipates that compliance with this provision will entail a regular housekeeping schedule based on exposure conditions at a particular plant and the capability for emergency cleanup of spills or other unexpected source of exposure.

Medical Surveillance

The final standard requires that the medical surveillance program provide each affected employee with an opportunity for a comprehensive annual medical examination. This does not change the provisions of the existing standard. In the final standard however, OSHA believes it appropriate to trigger the medical surveillance requirements at the action level of 0.1 f/cc as an eight-hour TWA.

OSHA has also revised the time within which the employer must conduct preplacement examinations after hiring employees. The final standard requires that preplacement medical examinations be given prior to the assignment of an individual to a job exposed to concentrations of airborne asbestos. The current standard permits the employer to conduct medical examinations within the first 30 days of the hire date.

UCC 011670

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The employer is also required to have medical examinations performed by or under the supervision of a licensed physician, provide the physician with a copy of this standard and all work practice information performed by the employer, and obtain a written signed opinion from the physician containing the results of the medical examination.

The final standard requires that x-rays be offered at 5 year intervals during the 10 years following an employee's first exposure to asbestos. After 10 years the employee's age category will determine the frequency of x-ray testing.

Record Keeping

The final rule provides that records be kept to identify the employee monitored and to reflect the employee's exposure accurately. The employer is free to keep records the most effective way. The time period required for retention of exposure records is thirty years. Employers must notify the Director in writing at least 3 months prior to the disposal of any records.

Appendices

Eight appendices are included in this final standard.

Appendix	Status
A - Reference Method for Analyzing Air Samples for Asbestos	Mandatory
B - Asbestos Sampling and Analysis by NIOSH Method 7400	Mon-mandatory
C - Qualitative and Quantitative Respirator kit testing Procedures	Mandatory
D - Medical Questionnaire Given to Employees Who May Be Exposed to asbestos	Mandatory
E - Interpretation and Classification of Chest Roentgenograms	Mandatory
F - Work Practice and Engineering Controls for Automotive Brake Repair Operations	Non-mandatory
G - General Technical Information on Asbestos	Non-mandatory
H - Medical Surveillance Guidelines	Non-mandatory

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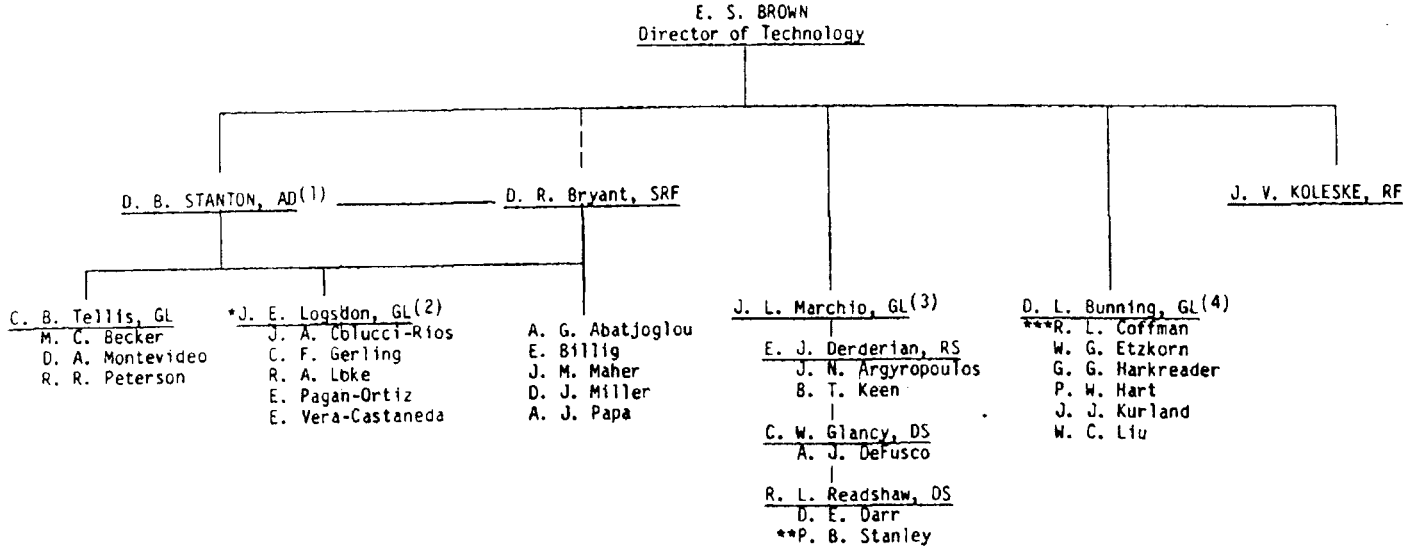
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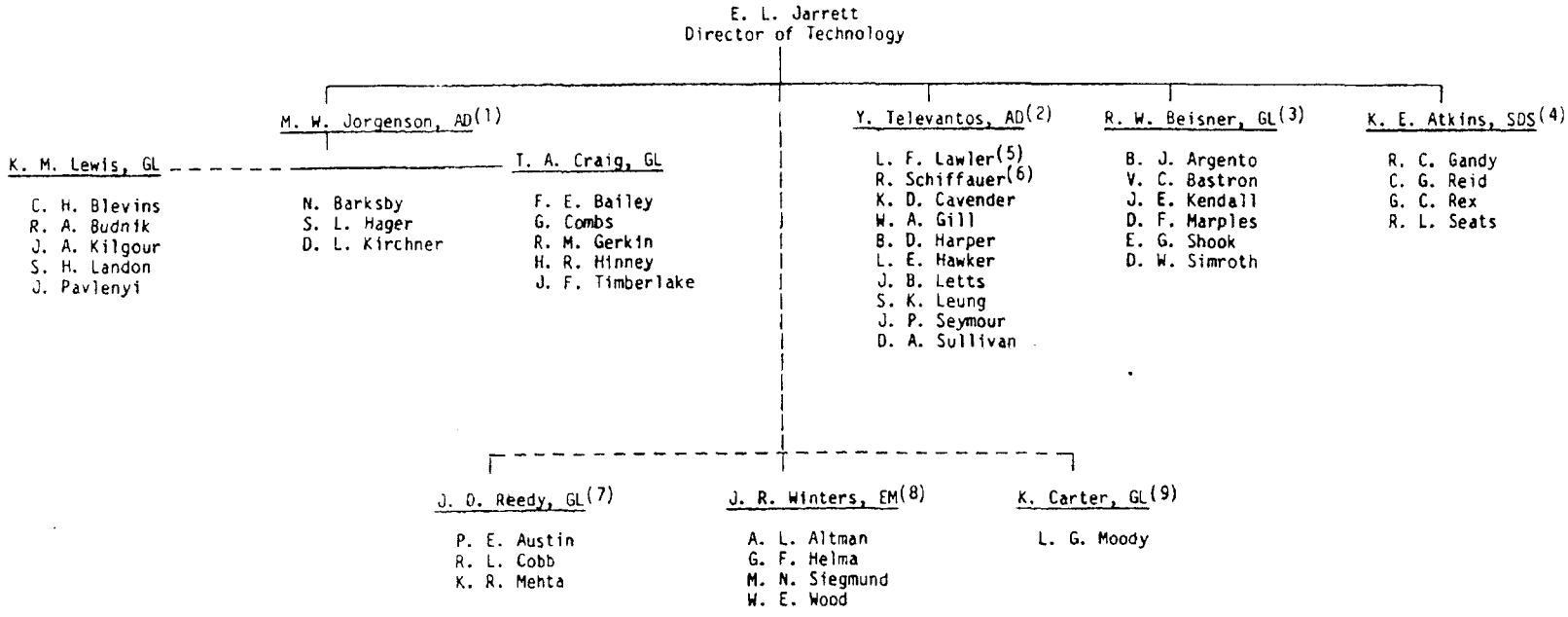
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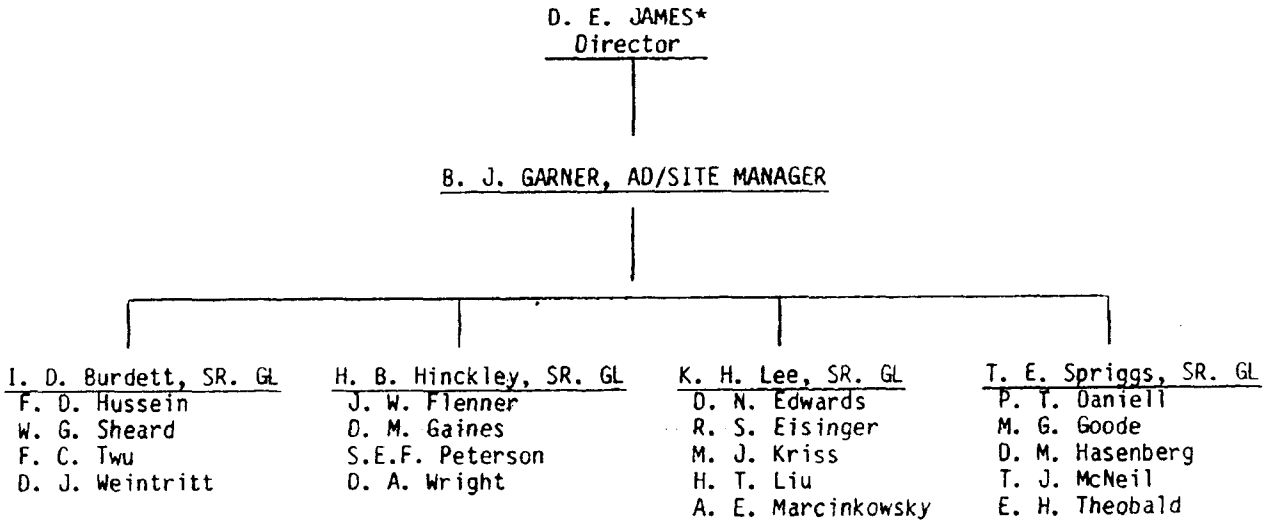
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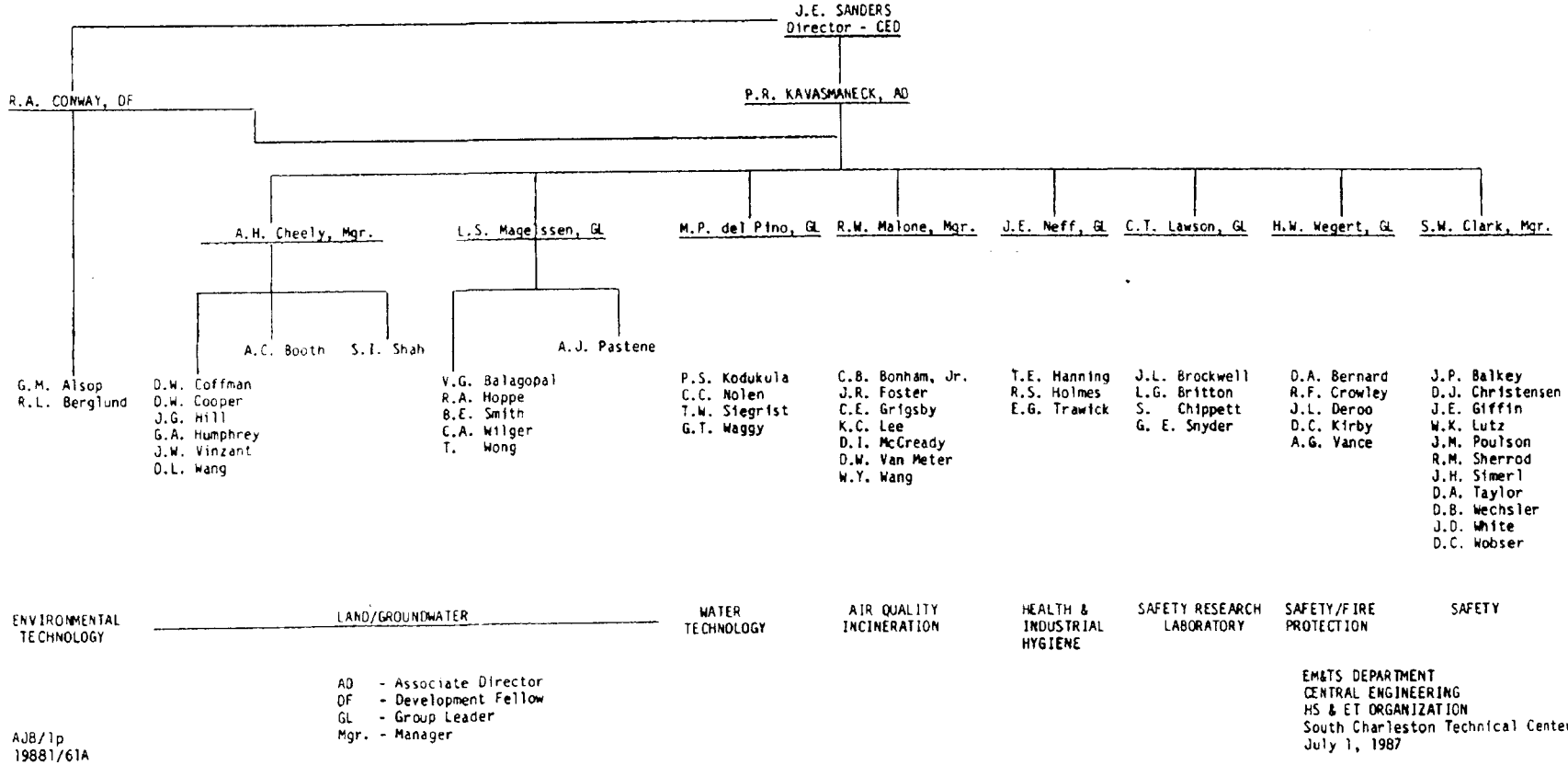
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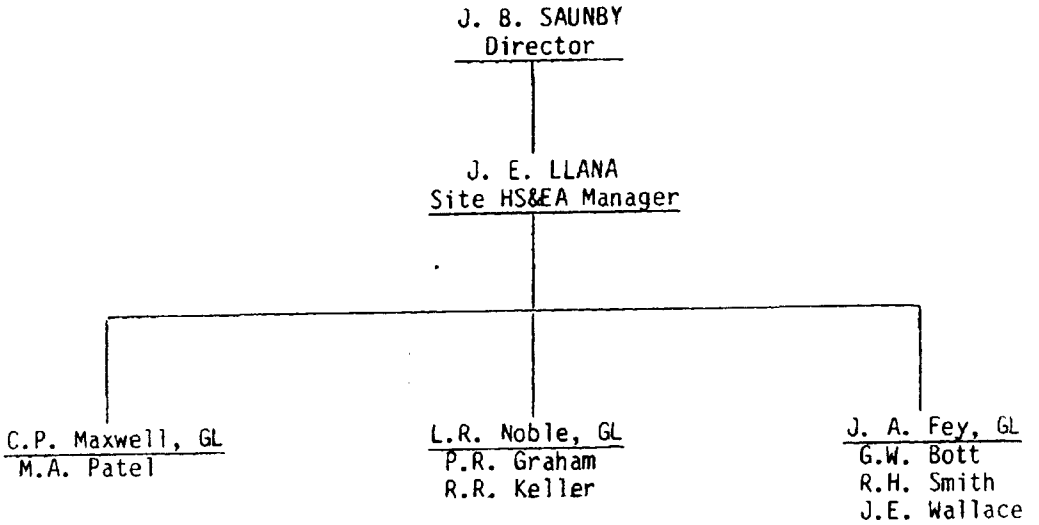
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July 1, 1987

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K.A. Sproul
R.H. Vogel

J.R. Vogel
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S.V. Ellis
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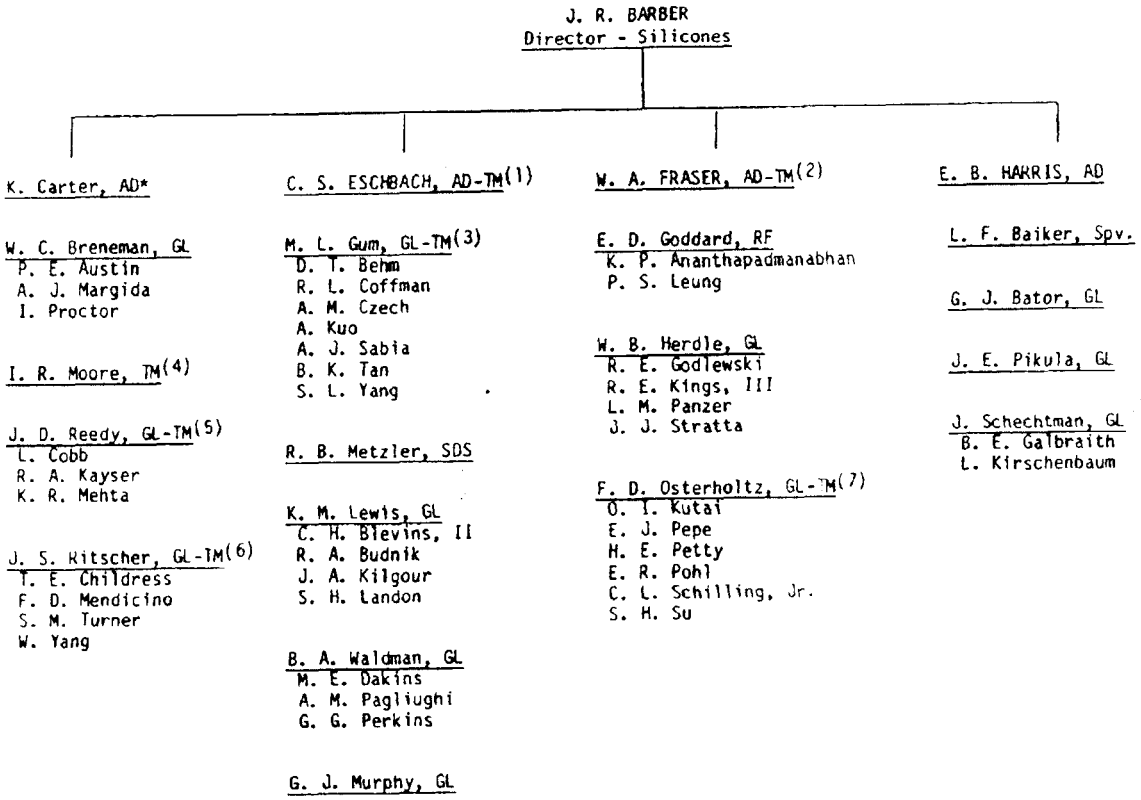
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(1) Applications TM - Fluids PC 340; Fibers, Threads & Mechanics; Heat Transfer
(2) Applications TM - Thermoplastics, Organofunctional Silanes PC 338
(3) Applications TM - Fluids PC 340; Antifoams & Emulsions, Personal Care & Chemical Specialties
(4) Process TM - Trichlorosilanes, Dichlorosilanes, PC 330; Methylchlorosilane Monomers, PC 339
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(6) Process TM - Organofunctional Silanes PC 338
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* Located at Sistersville, WV

AD - Assoc. Director
GL - Group Leader
RF - Research Fellow
SDS - Sr. Development Scientist
Spv. - Supervisor

Specialty Chemicals Division
Research and Development
Tarrytown Technical Center
July 1, 1987

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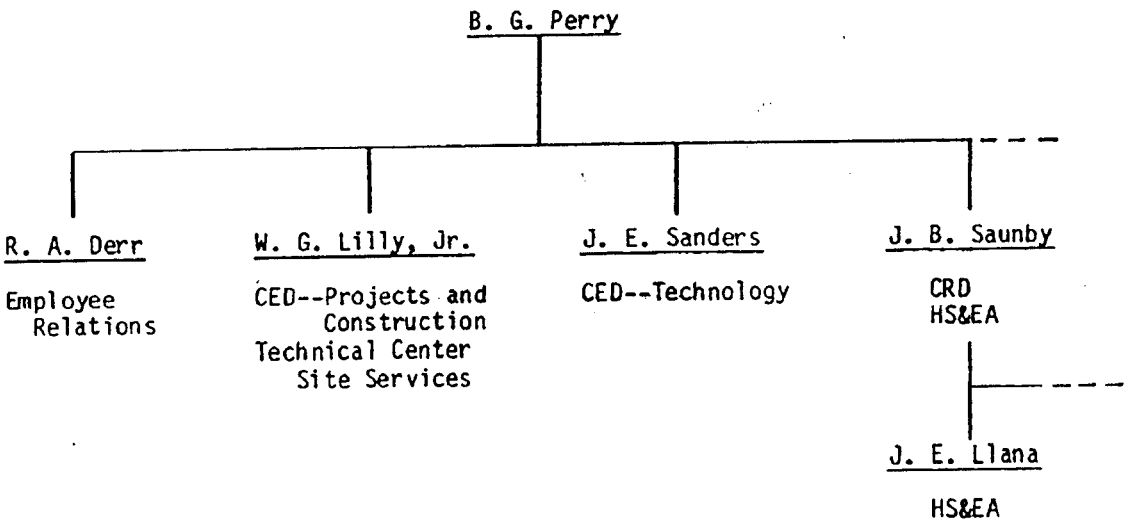
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Senior Managers	Component	Function
C. D. Aikman	Polyolefins	Engineering
	S&CM	
? E. H. Blair	C&P Group	Shared MIS
W. D. Bradbury	SCD	Engineering
E. S. Brown	S&CM	Research & Development
T. L. Collins	Corporate	HS&EP Audit
D. A. Dechman	S&CM	Product Supply
R. A. Derr	EM&TS	Employee Relations
? T. D. Epps	Corporate	Public Relations
B. J. Garner	Polyolefins	Research & Development
? D. A. Green	C&P Group	Data Processing
D. E. Heath	S&CM	Technology
E. L. Jarrett	SCD	Reseach & Development
H. P. Krog	ICD	Technology
W. G. Lilly	EM&TS	Engineering, Site Services
? D. L. Runyon	C&P Group	Purchasing
J. E. Sanders	EM&TS	Engineering
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UNION CARBIDE

INTERNAL CORRESPONDENCE

ENGINEERING, MANUFACTURING & TECHNOLOGY SERVICES

Bldg. 2000 - 4137
South Charleston, WV 25303

TO: Attached Distribution List

DATE: June 11, 1987

FROM: R. A. Derr

ORIG. DEPT.: ERD

SUBJECT: Employee Relations Department Organization

The transfer of R. P. Foster to the Solvents and Coatings Materials Division and the temporary assignment of G. M. Keller to Union Carbide Europe, necessitates several changes in the alignment of responsibilities within the EM&TS Employee Relations Department.

Effective immediately, Mr. E. B. Del Grande will assume responsibility for the management of the Employee Assistance Program, along with his current activities. Mr. P. K. Lambert will now report to Ed.

Mr. R. E. Jones, Jr. will become the EM&TSD Recruiting/Training Manager and will assume responsibility for the Engineering Department recruiting and continuing education activities. Richard will also manage the Publications/ Recreation functions. Dr. J. D. Cooke and Mr. R. J. Henderson will now report to Richard.

Mr. J. T. O'Brien will assume responsibility for Engineering liaison support, International Project liaison services, Central Employment and the Equal Opportunity skill centers. Mr. D. F. Springer will supervise these groups and report to Jack. Mr. R. C. Mullins, liaison to Divisional Engineering groups and the Pequiven project team, and Mrs. V. M. Hutchison, liaison to Central Engineering and Purchasing, will now report to Don Springer, who will relocate to Building 2000.

A complete listing of Employee Relations personnel is attached for your information. Individual assignments are briefly described to assist you in identifying the appropriate contact person for your organization or inquiry.

Very truly yours,

R. A. Derr

RAD:vc

Attachment
2974M

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UC HDS/SFS

ENGINEERING, MANUFACTURING & TECHNOLOGY SERVICES

EMPLOYEE RELATIONS DEPARTMENT

R. A. Derr, Associate Director, Technical Center E.R.
V. L. Clark, Administrative Secretary

E. B. Del Grande, Employee Relations Manager
D. L. Garrett, Administrative Secretary
D. F. Goebel, Tech Center Salary Admin. & Records Supv.
E. M. Humphreys, Salary Clerk - Eng. (exempts), Services, Specialty Chemicals Div.
C. L. Larck, Salary Clerk - R&D, HS and EA, Construction
D. E. Pellegrin, Records Clerk
D. J. Wright, Salary Clerk - E.R., Eng. (nonexempts), Adm. Groups
P. K. Lambert, Employee Assistance Program Administrator
B. J. Chandler, EAP Clerk
D. C. Myers, Construction Department Liaison
A. L. Kuhn, Liaison Clerk - Construction
K. W. Readshaw, Benefit Plans Administrator
D. M. Horton, Domestic Assignment/Benefit Plans Clerk - hourly retirements, LOA, Educ. Refunds, etc.
J. C. Smith, Benefit Plans Clerk - S&A, Workers Comp., retiree medical services, etc.
F. J. Wilson, Benefit Plans Clerk - Savings plan, employee medical plans, etc.
R. G. Rowe, M.D., Medical Director
C. S. Abshire, Medical Records Secretary
G. A. Mallory, Medical Technician
I. J. Morgan, Nurse
J. L. Morris, Nurse

R. E. Jones, Jr., Employee Relations Manager
P. S. Dewey, Administrative Secretary (R/D)
J. D. Cooke, Prof. Dev. Coordinator and Eng. Recruiting Mgr.
P. A. Fleck, Training and Recruiting Clerk
D. E. Gatewood, R&D Recruiting Manager and Liaison
C. R. Ison, Liaison Clerk - R&D Recruiting
C. L. Knopf, Liaison Clerk - R&D Training
R. J. Henderson, Supervisor - Publications and Recreation
M. C. Dainton, Plant Editor and CE interviewer
C. S. Foster, Publications Clerk, Mini-Store
S. L. Harper, Recreation, Publications and Retiree Liaison
H. C. Lewis, Services Department and Photoresist Supply Liaison
P. M. Thomas, Organizational Consultant

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J. T. O'Brien, Senior Labor Relations Consultant/E.R. Manager
D. L. Hunt, Administrative Secretary and IA support
E. N. Godfrey, Accounting/Data Center/MIS/HS&EA Liaison
N. M. Chambers, Liaison Clerk - Functional Groups
R. T. Hill, Distribution/Investment Recovery/Cust.Serv. Liaison
K. L. Wickline, Liaison Clerk - Functional Groups
D. F. Springer, Sr. Div. Head, Inter. Assignment Project/Eng. Liaison, Central Employment and E.O.
R. L. Dean, Central Employment and Equal Opportunity
V. M. Hutchison, Engineering and Purchasing Liaison
P. B. Moffatt, CE/EO Clerk
R. C. Mullins, Divisional Engineering and IA Liaison
K. G. Starr, Liaison Clerk - Engineering

REV: 06/11/87

2974M

This is the last page of the Employee Relations organization list (dated 6/11/87 - Derr's letter) that was inadvertently left off.

Cathy

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	R.P. Schreck			R.P. Nadin	M.J. Kriss
	F.G. Stakem		R.A. Schwarz	K.L. LaCava	H.T. Liu
			K.J. Christie, Jr.	L.A. Pacala	A.E. Marcinkowsky
				C.W. Park	
			T.L. Winterboer	H.W. Pouncy	T.E. Spriggs
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D. B. STANTON - ASSOCIATE DIRECTOR OF R&D
Technology Manager - Oxo,
Acetic Esters
S&I Licensing Technology Manager
(Nancy Parsons - Secretary)

D. R. Bryant - Senior Corporate Research Fellow
(Nancy Czenszak - Secretary)

A. G. Abatjoglou	Research Scientist
E. Billig	Senior Research Scientist
J. M. Maher	Project Scientist
D. J. Miller	Project Scientist
A. J. Papa	Research Scientist

C. B. Tellis - Group Leader
(Nancy Mitchell - Secretary)

M. C. Becker	Project Scientist
D. A. Montevideo	Project Scientist
R. R. Peterson	Project Scientist

J. E. Logsdon* - Group Leader, Technology Manager - Isopropanol, Derivatives, Ethanol, and Alkylamines
(Liz Amato - Secretary)

J. A. Colucci*	Senior Engineer
C. F. Gerling*	Senior Engineer
R. A. Loke*	Project Scientist
E. Pagan-Ortiz*	Senior Engineer
E. Vera-Castaneda*	Senior Engineer

*Located at Texas City

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E. S. BROWN - DIRECTOR OF R&D
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D. L. Bunning - Group Leader, Technology Manager - Acetyls, Acrylics, Glycol Ethers
(Karen McClung - Secretary)

R. L. Coffman*	Development Scientist
W. G. Etzkorn	Project Scientist
G. G. Harkreader	Senior Development Scientist
P. W. Hart	Project Scientist
J. J. Kurland	Research Scientist
W. C. Liu	Project Scientist

J. V. Koleske** - Corporate Fellow - Coatings Resins Support
(Dorothy Dawson - Secretary)

J. L. Marchio - Group Leader, Technology Manager - Business Development
(Paula Sims - Secretary)

E. J. Derderian - Research Scientist - Business Development
(Karen McClung - Secretary)

J. N. Argyropoulos	Senior Chemist
B. T. Keen	Research Scientist

C. W. Glancy - Development Scientist - New Solvents/Applications
(Jill Martin - Secretary)

A. J. DeFusco	Senior Chemist

R. L. Readshaw - Development Scientist - New Solvents/Technical Service
(Jill Martin - Secretary)

D. E. Darr	Project Scientist
P. B. Stanley***	Research Scientist

*Located at Tarrytown
**Member of Coatings Resins R&D Department, reporting administratively to S&I R&D
***Located at Bound Brook

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A. Hakki, 0500/K-4
M. B. Hamilton, 0500/N-1
B. L. Heimlicher, 0500/K-4
D. E. James, 312
E. L. Jarrett, 511
C. R. Kline, 0500/K-4
J. V. Koleske, 511
H. P. Krog, 511
N. R. Lawson, 511
D. D. Lee, 0500/K-4
J. E. Llana, 511
J. E. Logsdon, 515
J. L. Marchio, 511
R. P. Melton, 515
W. P. Miller, Cary
M. C. Morgan, 0500/K-4
K. D. Negley, 3001
R. F. Nelson, 0500/K-4
D. J. Peterka, 0500/K-4
F. S. Provenzano, 515
R. L. Readshaw, 511
J. B. Saunby, 511
F. A. Schillinger, 0500/K-4
R. A. Schongar, 0500/K-4
R. W. Scoular, 511
C. Seidel, 0500/K-4
D. B. Smith, 0500/K-4
D. F. Smith, 312
D. B. Stanton, 511
C. B. Tellis, 511
E. S. Varian, 0500/K-4
M. E. P. Vrabel, 0500/K-4
J. E. Weigel, 0500/K-4
R. C. Wise, 0500/K-4
P. F. Wolf, 312
D. J. Wright, 511
C. C. Yeaw, 0500/K-4
N. L. Zutty, 0500/K-4

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UNIPOL SYSTEMS/UNIPOL POLYMERS R&D
Bound Brook Technical Center

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J. E. Llana

D.E. JAMES

- - - J.H. Tepperman-R&D E/R Liaison

G.S. CIELOSZYK

T.R. Blakeslee
J.I. Apse
D.N. Jones
J.C. Miller
A.V. Ramamurthy

G.L. Goeke
H.K. Ficker
G.N. Foster
M.R. Rifi
G.G. Smith

F.J. KAROL

K.J. Cann
J.S. Drage
S.C. Kao
I.J. Levine
K.D. Schramm
B.E. Wagner
M.T. Zoeckler

A. Noshay
E.C. Baker
R.C. Brady
J.F. Cevallos-Candau
N.S. Marchant
W.S. Mialki
J.W. Nicoletti
R.P. Schreck
F.G. Stakem

S.P. SAWIN

M.W. Chen
M.C. Hwu
J.H. Moorhouse
K.B. Spall

R. J. Jorgensen
M.D. Awe
I.B. Radovsky
D.P. Zilker

L.S. SCAROLA

R.J. Bernier
J.O. Buhler-Vidal
H.E. McGee
S.J. Rhee
B.R. Rozenblat

F. Cozzarelli

J.R. Dearborn
A.B. Coleman
B.H. Gumbert

J.B.L. Hollingsworth
W.L. Peters
M.R. Svitil

R.A. Schwarz
K.J. Christie, Jr.

T.L. Winterboer
J.M. McGuinn
T. Nettl

K.C.H. YI

N.J. Maraschin
G.E. Ealer
L.D. Fishberg
W.D. Heitz
D.W. Kababik
S.I. Rizkallah

C.F. Martino
G. Bakis
H.L. Batleman
F.A. Cangelosi
W.J. Michie
A.R. Olivo
G.G. Waag

R.P. Nadin
K.L. LaCava
L.A. Pacala
C.W. Park
H.W. Pouncy
S.B. Samuels
S.M. Wickliffe

B.J. GARNER
(South Charleston)

I.D. Burdett
F.D. Hussein
W.G. Sheard
F.C. Twu
D.J. Weintritt

H.B. Hinckley
J.W. Flenner
D.M. Gaines
S.E.F. Peterson
D.A. Wright

K.H. Lee
D.N. Edwards
R.S. Eisinger
M.J. Kriss
H.T. Liu
A.E. Marcinkowsky

T.E. Spriggs
P.T. Daniell
M.G. Goode
D.M. Hasenberg
T.J. McNeil
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H. P. KROG - DIRECTOR OF TECHNOLOGY

C. S. Bailey - Senior Administrative Secretary

J. R. Gagnon - Associate Director, Engineering, and Manager of Hydrocarbons Technology

S. J. Morgan	Administrative Secretary

R. W. Gross - Group Leader, Hydrocarbons - Process Engineering

A. E. Middleton	Senior Secretary
D. P. Bronikowski	Senior Engineer
D. P. Fisher	Senior Engineer
R. J. Krinock	Senior Engineer
D. M. Lyons	Senior Engineer
T. F. Persohn	Senior Staff Engineer
R. J. Robson	Staff Engineer

A. C. Skinner - Group Leader/Engineering Manager, Hydrocarbons

C. S. McMillion	Senior Secretary
S. B. Hamilton	Senior Engineer
W. E. Ramsey	Senior Engineer
R. A. Redder	Senior Engineer
V. J. Stricker	Senior Engineer
A. W. Zwiener	Staff Engineer
B. L. Nester	Senior Clerk

R. L. Hogan - Principal Engineer

T. S. Humble - Principal Engineer

P. J. Robison (1) - Senior Staff Engineer - Working Budgets and Plant Support

T. A. Maliszewski - Group Leader/Engineering Manager, EOD

C. A. Wilkinson	Secretary
M. L. Baago	Senior Staff Engineer
C. J. Felber	Senior Engineer
J. L. Matherne, Jr.	Staff Engineer
F. A. Sorge	Engineer
W. H. Sutherland	Senior Staff Engineer
J. W. Welsh	Engineer

(1) Located at Houston

May 1, 1987
3524s

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R. Purre - Group Leader/Engineering Manager, ED/EG

D. K. Merguc	Senior Secretary
H. E. Andresen (2)	Senior Staff Engineer
R. J. Carr	Senior Engineer
T. C. Cleveland	Senior Engineer
P. R. Fairchild	Staff Engineer
M. A. Ramirez	Staff Engineer
D. D. Robinson	Senior Staff Engineer
J. L. Santos	Senior Engineer
K. E. Tyree	Senior Engineering Technician

(2) Temporarily Located at Houston

May 1, 1987

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K. F. Liu (3) - Group Leader/Technology Manager - Hydrocarbons

(M. C. Wells)	Administrative Secretary
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D. Milks	Research Scientist
J. H. LeMaster	Senior Laboratory Technician
J. B. Price	Senior Laboratory Technician

C. A. Smith - Group Leader/Technology Manager - CARBOWAX PEGs and TERGITOL Surfactants

G. J. Higginbotham	Senior Secretary
K. W. Dillan	Applications Manager - TERGITOL Surfactants
C. F. Hauser	Project Scientist
A. F. Joseph	Senior Chemist
J. D. Olson	Applications Manager - CARBOWAX PEGs
M. E. Reid	Senior Engineer
P. A. Siracusa	Senior Chemist
S. K. Verma	Development Scientist
G. W. Carr	Advanced Laboratory Technician
V. M. Davis	Senior Labortory Technician
K. A. Fisher	Advanced Computer Technician
C. E. Higginbotham	Senior Laboratory Technician
D. K. Lewis	Senior Laboratory Technician
S. K. Mierau	Advanced Laboratory Technician
E. W. Thacker	Advanced Laboratory Technician
B. Vickers	Senior Laboratory Technician

(3) Reports administratively to R. G. Meadows; functionally to J. R. Gagnon.

May 1, 1987

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INDUSTRIAL CHEMICALS DIVISION

J. H. Robson - Group Leader/Technology Manager - EG Market Area Applications

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B. A. Bower	Advanced Engineer
K. F. George	Project Scientist
D. E. Smith	Senior Chemist
P. B. Sullivan	Project Scientist
R. A. Billups	Senior Laboratory Technician
L. A. Courtney	Advanced Laboratory Technician
J. H. Paxton	Master Laboratory Technician
F. D. Williams	Senior Lab Technician

R. D. Teaney - Group Leader - Polysilicons

(E. Pauley)	Senior Secretary
F. A. Conneway	Advanced Engineer
C. B. Ramsey	Senior Engineer

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(P. Dewey)	Senior Administrative Secretary
M. M. Bhasin - Senior Research Scientist - EO Catalyst R&D	
B. Vance	Senior Secretary
P. Y. Chou	Senior Engineer
A. B. Rives	Project Scientist
S. R. Seyedmonir	Senior Chemist
D. G. Allport	Advanced Laboratory Technician
R. L. Miller	Senior Laboratory Technician
J. R. Payne	Senior Laboratory Technician
L. A. Kapicak - Group Leader - EO Catalyst R&D	
B. Titlow	Senior Secretary
M. P. Habenschuss	Project Scientist
M. S. Jarrell	Project Scientist
D. M. Minahan	Senior Chemist
E. M. Thorsteinson	Senior Research Scientist
L. M. Torres	Senior Chemist
J. R. Bailey	Advanced Laboratory Technician
S. A. Caster	Advanced Laboratory Technician
J. K. Elkins	Advanced Laboratory Technician
J. C. Winkler	Laboratory Technician
W. M. Woody	Advanced Laboratory Technician
J. A. Bromley - Group Leader - EO Process Support and Catalyst Evaluations	
B. Titlow	Senior Secretary
J. P. Dever	Senior Engineer
P. V. Hinman	Project Scientist
H. Soo	Project Scientist
G. R. Arnold	Master Laboratory Technician
W. H. Carpenter	Advanced Laboratory Technician
J. A. Czenszak	Senior Laboratory Technician
G. C. Huff	Senior Laboratory Technician
J. H. Patton	Master Laboratory Technician
J. E. Perry	Advanced Laboratory Technician
H. H. Phelps	Senior Laboratory Technician
S. Rivers	Advanced Laboratory Technician

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D. J. Schreck - Group Leader/Technology Manager - Ethyleneamines/Ethanolamines

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L. M. Burgess	Senior Engineer
R. G. Carter	Development Scientist
A. R. Doumaux	Senior Research Scientist
S. W. King	Project Scientist
B. C. Ream	Research Scientist
P. R. Umberger	Project Scientist
E. Beckner	Senior Laboratory Technician
J. E. Fleck	Senior Laboratory Technician
R. A. Hodges	Senior Laboratory Technician
J. D. Matheny	Advanced Laboratory Technician
J. A. Mease	Senior Laboratory Technician
B. A. Wartenburg	Senior Laboratory Technician
B. F. White	Senior Laboratory Technician
J. D. Wines	Advanced Laboratory Technician

May 1, 1987

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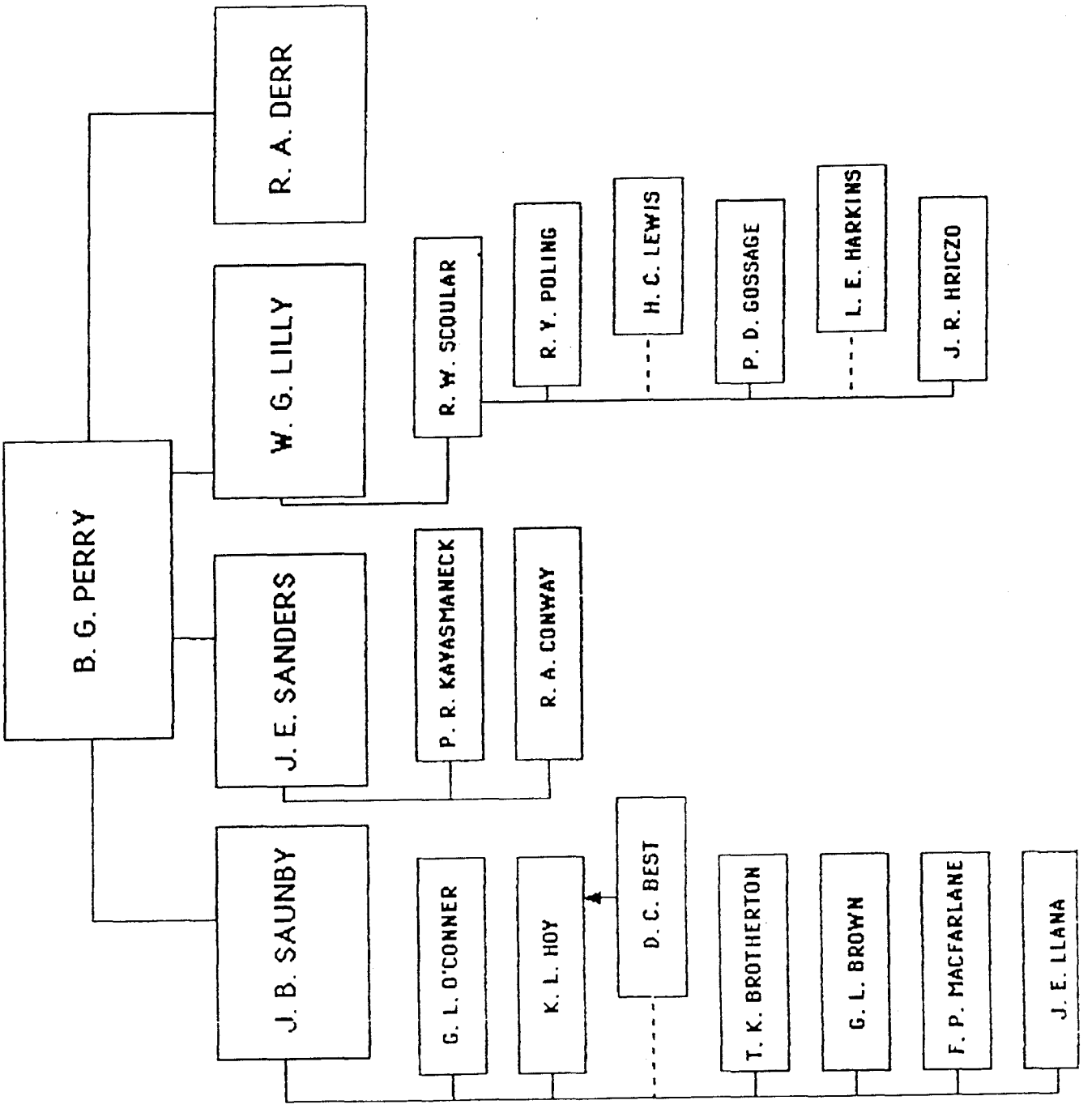
PERSONNEL ROSTER
INDUSTRIAL CHEMICALS DIVISION
RESEARCH & DEVELOPMENT/ENGINEERING DEPARTMENTS

Distribution

M. M. Bhasin
A. J. Bonham
R. Brabbin
E. S. Brown
[redacted]
L. C. D'Esposito
Q. W. Decker
J. R. Gagnon
B. J. Garner
M. A. Guariglia
R. J. Ireland
E. L. Jarrett
R. E. Jones
D. C. Macauley
R. G. Meadows
B. D. Pattie
J. B. Saunby
W. E. Shackelford
H. M. Short
P. H. Wadia

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UU-0126 #9



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Gents: Do you get these? FEB 27 1986

J. B. SAUNBY
Director

J. L. COLLINS Cathy

Do you want these?

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K. L. HOY, SRF

T. K. BROTHERTON, AD

J. H. Brubaker, PE
H. F. Bailey
G. L. Baker
F. F. Campbell, Jr.
R. O. Dillon
M. L. Green
J. R. Moss
D. R. Pauley, III
D. R. Steele
W. H. Wagner

E. Buck, GL
T. K. Buck
L. C. D'Esposito
M. R. Greene
P. A. Gupte
M. W. Lilly
J. C. Noronha
N. C. Patel
E. S. Sturnfield

M. A. Carey, GL
J. O. Dawson
P. D. Gaarenstroom
K. J. Garska
J. R. Hale
M. E. Mrvosh
S. L. Wellons
M. D. Wiegand

T. L. Dawson, GL
A. M. Harrison
D. S. Miller
M. B. Mitchell
P. C. Price
M. A. Smith
P. H. Tate
R. A. Thursack

R. C. Schoening, GL
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M. I. Busby
J. P. Fletcher
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M. L. Gentry
D. L. Haas
J. D. Jamerson
J. R. Morrison
M. P. Spratt
P. M. Wiegand

G. L. BROWN, AD

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F. G. Cowherd
J. C. Hatfield
C. Lee
C. L. Osborn
J. W. Taylor

C. D. Hendrix, RF
D. P. Brady
R. D. Foster
J. L. Hansen
R. A. Lewis
W. E. Zirk

G. E. Keller, RF
F. Ho
S. T. Hsieh
E. R. Larsen
K. A. Nielsen

D. R. Vredeveld, PE
G. L. Culp
L. J. Doster
N. M. Duty
R. Gautam
B. Y. Hill
R. E. Richardson
C. J. Rotz
J. S. Wareck
L. C. Wilder
W. D. Witherell

F. P. MACFARLANE, AD

A. J. Bonham

Q. W. Decker, GL
L. F. Alfred
A. S. Behr
N. R. Lawson

P. D. Sherman, SSA
J. A. Amos

M. W. Gilzow, GL
E. L. Cartmill
R. G. Cook
S. Ford
G. K. Graham
J. M. Hurt
C. A. Starcher
M. G. Stover
G. E. Vance
M. A. Wilson

D. C. BEST, AD

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M. J. Green
R. E. Murray
K. D. Olson
R. W. Wegman

D. C. Busby
K. C. Caster
F. A. Richey

B. D. Dombek, RS
M. E. Kinkade
T. K. Leung
K. G. Moloy
T. T. Wenzel

S. W. Kaiser, SRS
W. J. Bartley
P. C. Heah
J. H. McCain
A. W. Naumann
B. K. Warren

J. M. Lewis

AD - Assoc. Director
GL - Group Leader
PE - Principal Engineer
RF - Research Fellow
RS - Research Scientist
SRF - Sr. Research Fellow
SRS - Sr. Research Scientist
SSA - Sr. Staff Assoc.

EM&TS DEPARTMENT
Central Research & Development
South Charleston Technical Center
February 18, 1987

AB:lp
16381/61A

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JHI

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ENGINEERING, MANUFACTURING, AND TECHNOLOGY SERVICES
HEALTH, SAFETY, AND ENVIRONMENTAL AFFAIRS SECTION

PERSONNEL ROSTER

J. E. Llana	Manager HS&EA
M. C. Wells	Administrative Secretary
C. P. Maxwell	Manager, Health & Safety
K. L. Eggleton (1)	Senior Secretary
M. A. Patel	Staff Industrial Hygienist--Ind. Hygiene/Health/Toxicology
V. E. Stover	Industrial Hygiene Technician
R. C. Thomas	Industrial Hygiene Technician
L. R. Noble	Safety Director
B. K. Burgess	Skilled Clerk
R. W. Dillon	Senior Safety Inspector--Safety Supply
P. L. Graham	Safety Associate--Services/ER/Dist./Acct./Data Proc.
R. R. Keller	Safety Representative--R&D
M. L. Mills	Safety Associate--Construction
J. A. Fey	Manager, Environmental Affairs
R. A. Burgess	Secretary
C. W. Armstead	Waste Incinerator Operator
M. E. Bell	Air/Water/Waste Technician
G. W. Bott	Senior Environmental Specialist--Waste Disposal
M. A. Carter	Waste Disposal Clerk
H. L. Roberts	Waste Collection/Storage/Disposal
R. H. Smith	Staff Environmental Engineer--Air
J. E. Wallace	Environmental Specialist--Water

(1) Reports administratively to Central R&D

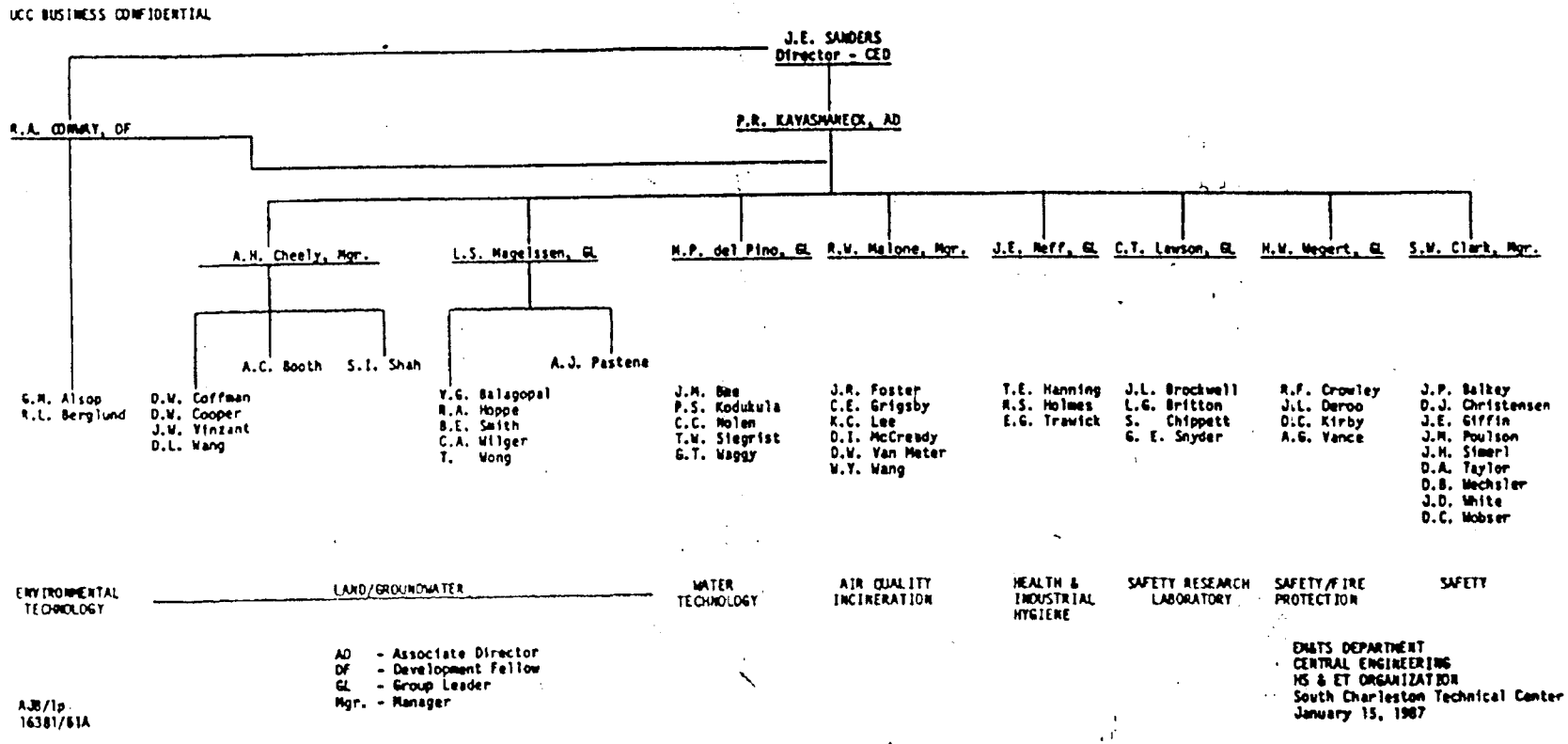
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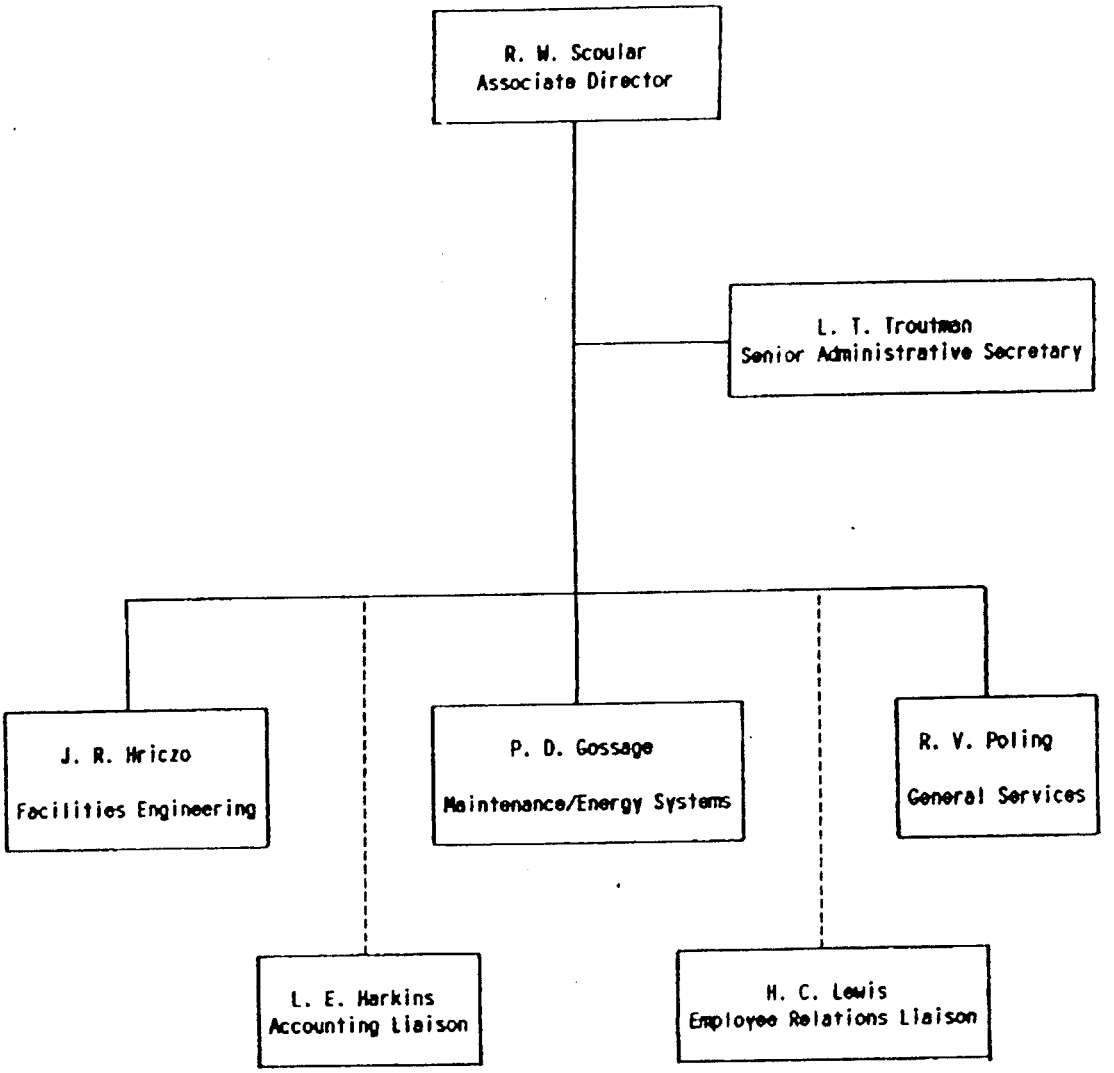
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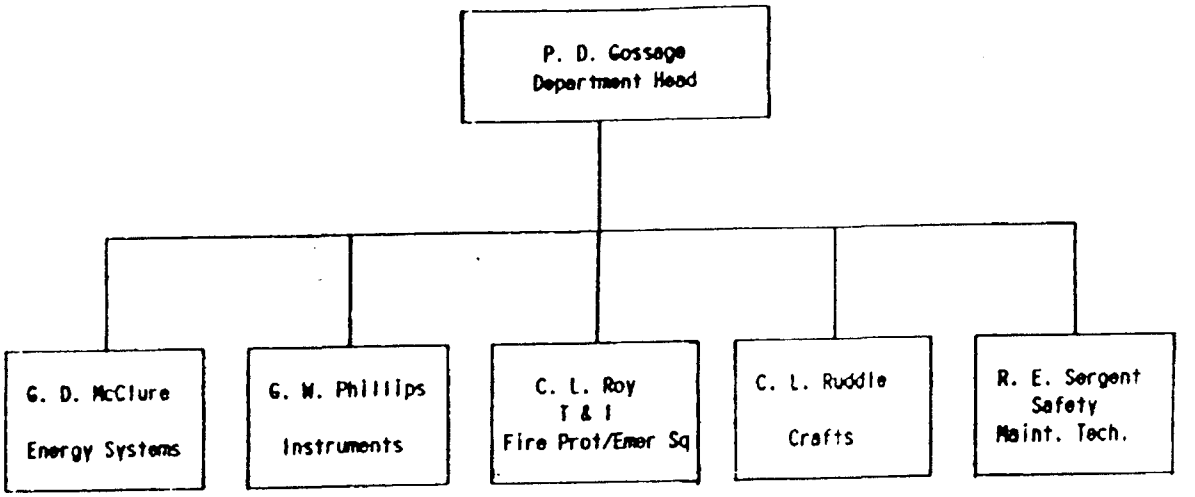
TECHNICAL CENTER SITE SERVICES



March, 1986

UCC 011708

MAINTENANCE/ENERGY SYSTEMS



Day Shift
G.W. Adams
D.T. McCormick
K.R. Pyles
C.B. Rigney, Jr.

A Shift
R. M. Young
Operations Supv.
M.D. Cunningham
R.M. Ruddle
S.L. Ryan
D.Scragg

B Shift
R. C. Young
Operations Supv.
S.J. Creech
R.C. Easter, Jr.
H.K. Hilbert
J.T. Meadows

C Shift
C. E. Carpenter
Operations Supv.
D.J. Crowder
B.J. Justice
R.L. Sherrod
D.O. Young

D Shift
E. Rucker
Operations Supv.
J.W. Chabot
R.O. Pauley
B.Reynolds
G.L. Stowers

Instrument Tech.
C.H. Atwood, Jr.
W.S. Ballingall III
J.R. Beckner
D.J. Canterbury
D.L. Casto
R.W. Cummings
O.W. Dearman
J.A. Ingram
G.W. McCamey
E.M. Skaggs
J.S. Swiney

Safety Inspectors
C.M. Casto
P.D. Kingrey
J.D. Pauley
J.K. Rymer
D.V. Samples
C.V. Slater, Jr.

(Detail on page 3)

Computer Application
TBA

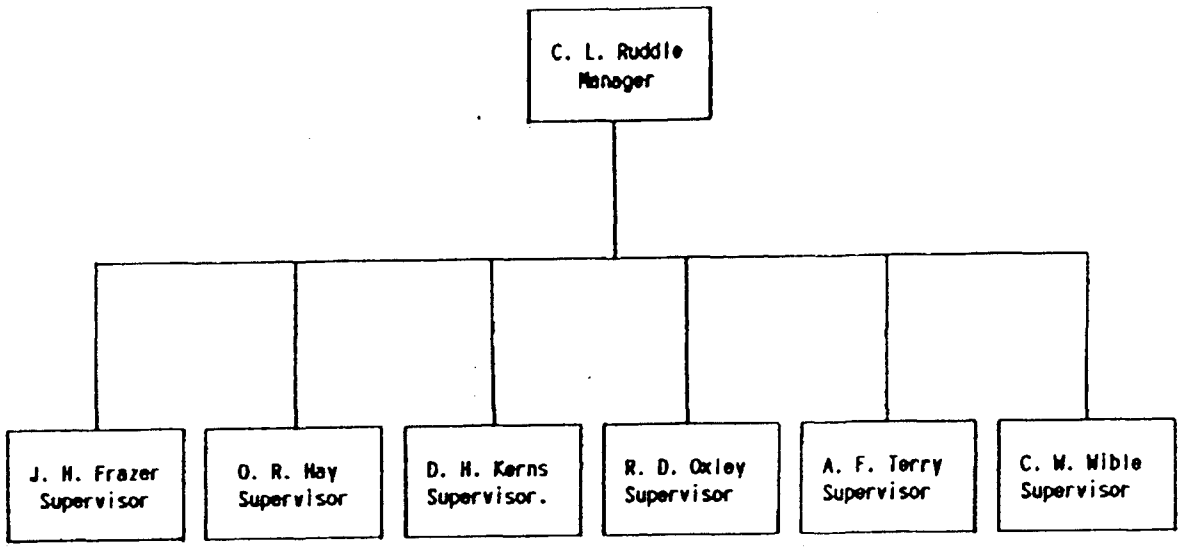
Safety/Training
A.B. Morgan III

PM/RM Scheduling
Project Scheduling
D.L. Brown
C.R. Smith

Maintenance
Clerical Support
K.C. Combs
J. Hedrick
P.A. McGhee

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CRAFTS



Millwrights
P.L.Allison
P.M.Chapman
J.D.Creech
D.L.Elmore
G.A.Ford
E.C.Gray
C.M.Hale
J.C.Hubbard
L.D.Newman
J.P.Perry
S.M.Stricker
C.F.Whittington
C.A.Worley

Riggers
K.L.Robinson

Laborers
*T.L.Baker
J.H.Bridges
B.D.Chapman
*B.L.Davis
W.E.Davis
K.K.Degler
O.R.Dunlap
M.J.Golden
J.W.Greenlee
R.D.Hall
G.L.Justice
A.Lee,Jr.
J.P.Mabe
E.A.Maddox
*J.L.Myers
*E.Moulin
R.W.Payne
R.E.Smith
W.L.Washington

Ironworkers
D.R.Evans
J.R.Hall
M.R.Lanham
D.J.McCormick
D.J.Wood

Machinists
W.K.Kiser
B.L.Schneider

Tool Room Attend.
D.M.Lawrentz

Salvage Mechanic
E.E.Grinstead

Pipefitters
R.D.Adkins
C.M.Chester
S.H.French
H.J.Karawan
L.C.Kinnard
D.L.Little
C.J.Mullins
A.L.Oxley
P.J.Shamblin
D.H.Snyder
P.M.Wallace
A.L.Withrow

Carpenters
D.E.Barcroft
W.D.Lynch
H.E.Maddox
J.W.Naylor
B.T.Shelton
J.A.Van Meter

Coatings Mech.
F.R.Creech
R.P.Hess
C.F.Miller
E.Moss
R.E.Raines
R.J.Vance

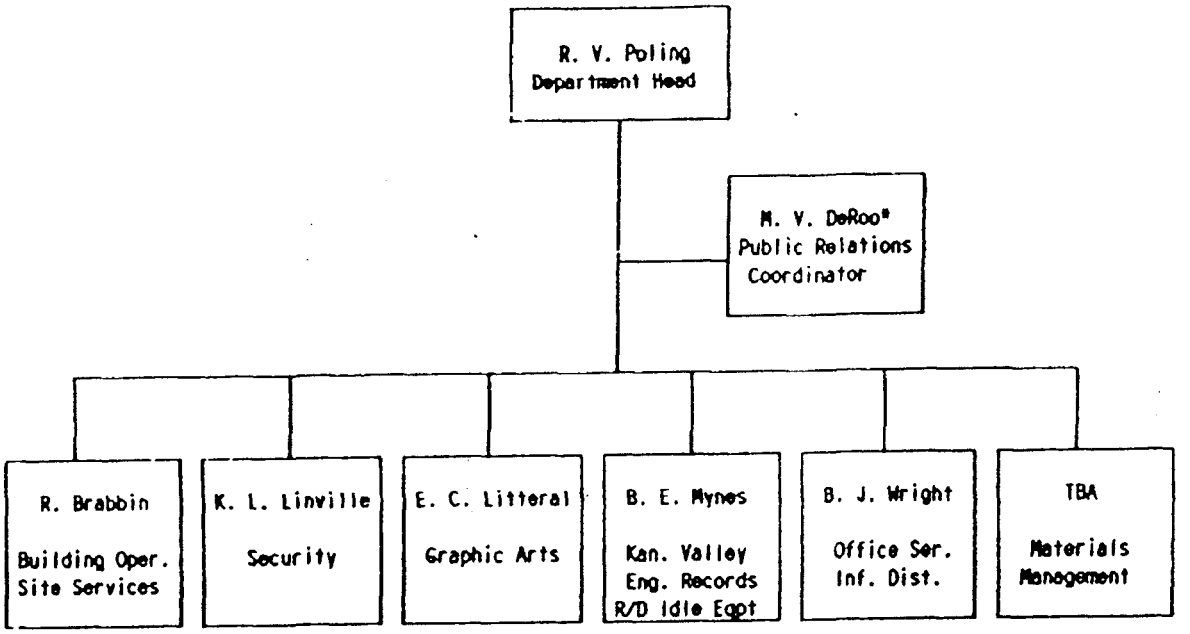
Sheetmetal Workers
G.S.Boggs
J.W.Perdew
D.C.Sayer

Electricians
G.R.Atkins
C.F.Clark,Jr.
R.K.Davis
W.D.Fleck
G.M.Hall
P.E.Hartman
V.C.Holstein
F.Howard
J.M.Kingrey
D.R.Kirkhart
C.M.McClung
B.W.Myers
J.H.Myers
H.E.Reynolds,Jr.
C.E.Sadler
G.E.VanBibber

*Extended temporarily

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GENERAL SERVICES



(Detail on page 5)

Section Leaders
J.C.Harrison
T.M.Hustead
P.E.Toney
J.M.Wiseman

Security Off.
J.L.Bare
E.E.Bays
H.C.Blankenship
M.L.Greene
M.J.Hairston
E.E.Jenkins
B.L.Lanham
R.A.Long
E.R.McLeod
M.E.Morrison
L.L.Smith
M.L.Thomas
M.A.Warner

Section Chief
R.Q.Botkin

Printing/Graph. Machine Oper.
J.A.Abbott
J.C.Bridges
J.L.Brogan
V.J.Butcher
P.R.Carden
R.A.Carter
R.D.Foster
D.Gilliam
R.O.Green
S.O.Henley
L.S.Hyre
T.W.Smith,Jr.
M.W.Stover
B.C.Stowers

Art Group
A.L.Spradling

TV Studio
G.L.Montgomery

Tech. Photography
J.C.Eldridge
G.J.M.Henshall

Senior Clerk
S.L.Smith

Records Clerks
K.M.Bevins
J.F.Bridges
T.F.Elliott
E.L.Holley
R.L.Igo
W.M.Mollohan
G.E.Walker

R/D Idle Equip.
G.L.Martin

Word Processing
J.K.Hill
S.S.Lunsford
E.K.Pauley
E.A.Stern
N.R.Turley

Receptionist
S.A.Lynch

Tele-Communications
P.A.Bailey
A.M.Thomas

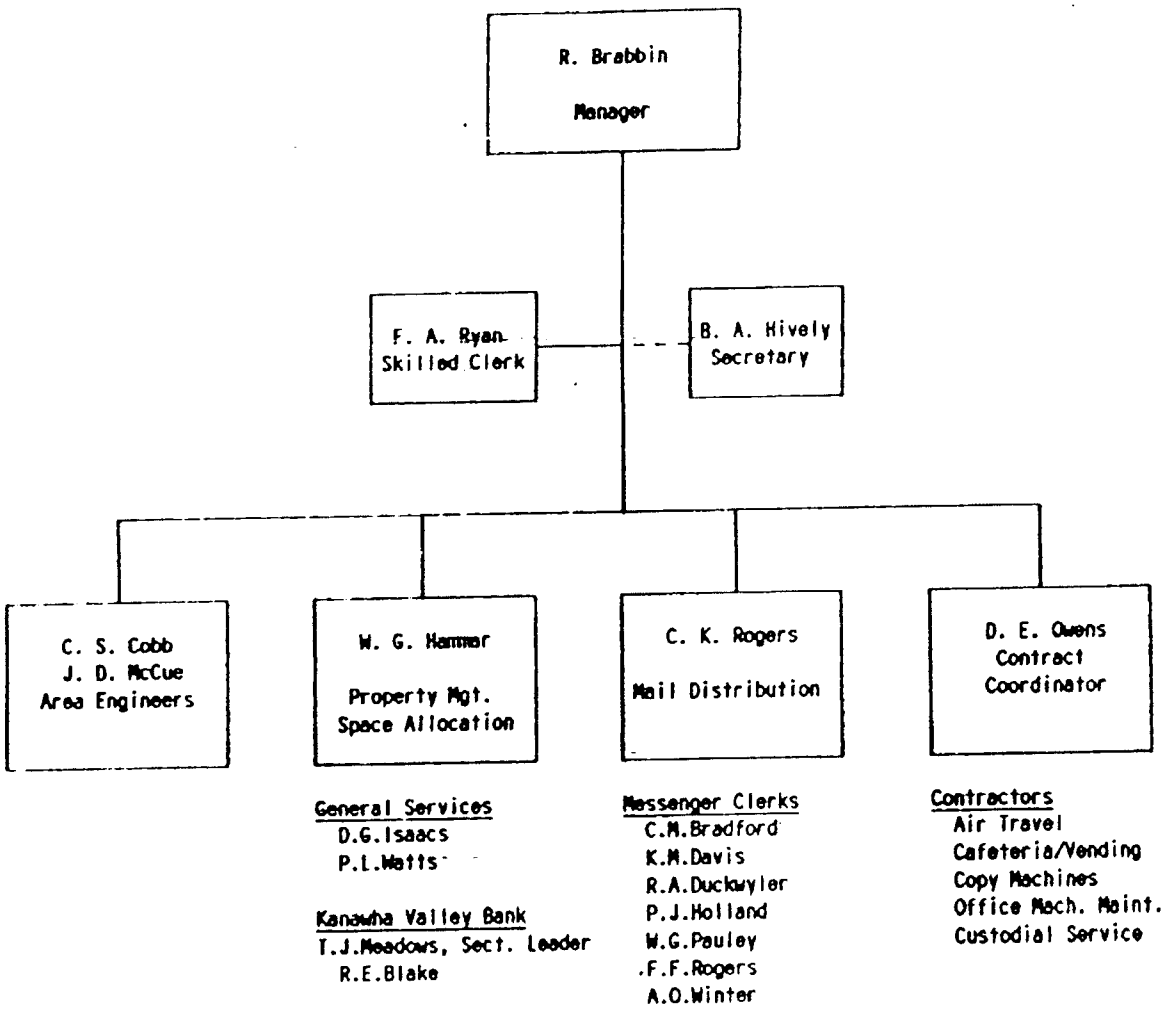
R.B.Underwood
Section Chief
Stores/Receiving
J.K.Campbell
J.E.Clark
B.E.Combs
R.D.Conley
E.L.Erby
J.R.Patton
T.K.Saunders
S.E.Sims
D.L.Starcher

M.E.Lawrentz
Section Chief
Truck./Ship.
L.E.Angel
P.D.Barton
E.M.Beasley
G.E.Bishop
R.M.Farley
J.B.Garrett
W.R.Green
J.R.Kushner
J.L.Lambert
D.G.Price

*Assigned to T.D.Epps
Mgr. of Public Affairs

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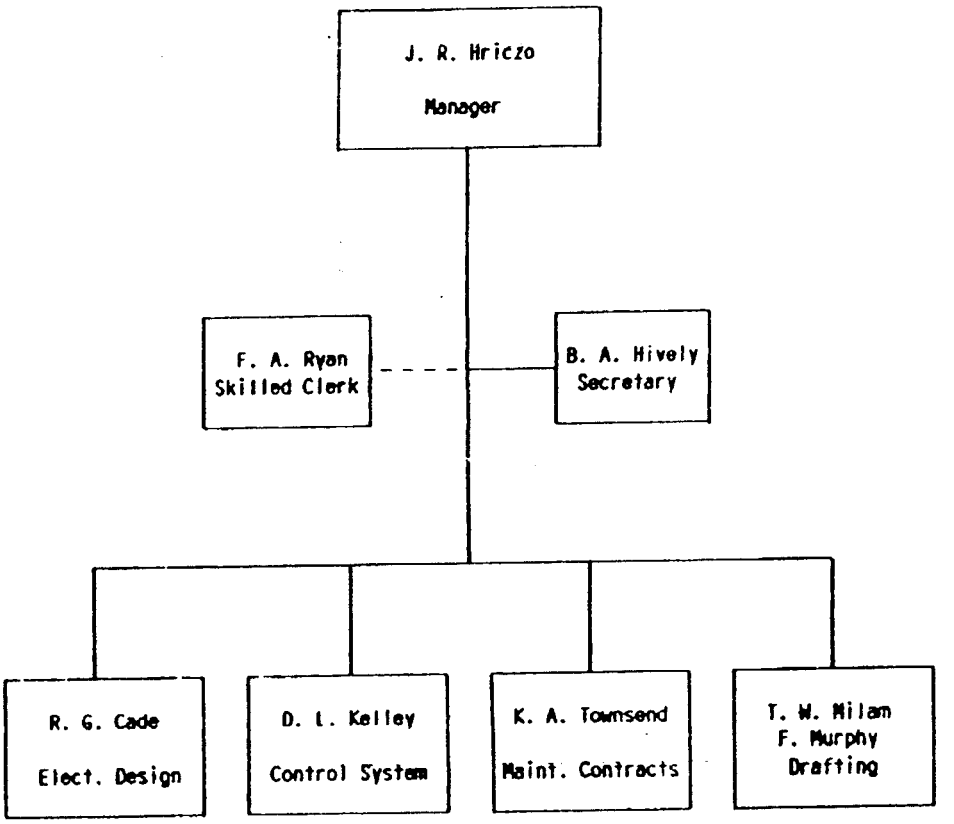
BUILDING OPERATIONS/SITE SERVICES



UCC 011712

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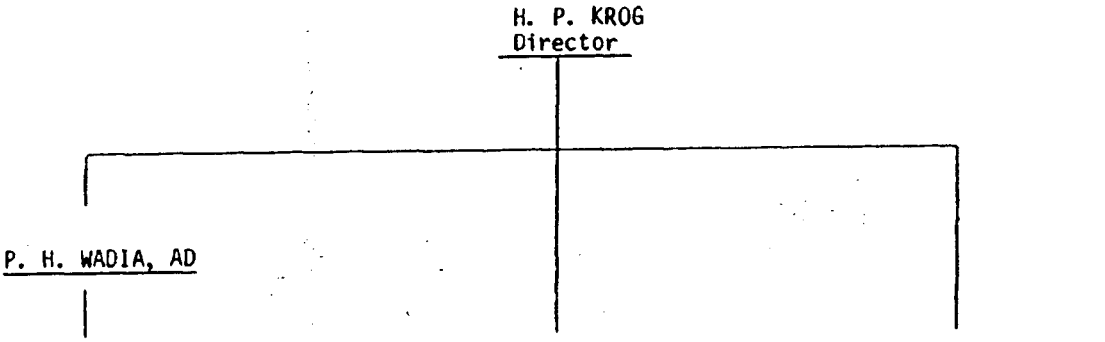
FACILITIES ENGINEERING



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WV-01260 #10

UCC BUSINESS CONFIDENTIAL



M. M. Bhasin, SRS
A. B. Rives
S. R. Seyedmonir

L. A. Kapicak, GL
M. P. Habenschuss
M. S. Jarrell
D. M. Minahan
E. M. Thorsteinson
L. M. Torres

K. F. Liu, GL
D. C. Garska
W. H. Henstock
D. Milks

J. H. Robson, GL(1)
B. A. Bower
K. F. George
D. E. Smith
P. B. Sullivan

C. A. Smith, GL
J. P. Dever
P. V. Hinman
H. Soo

J. D. Olson, GL(2)
K. W. Dillan
C. F. Hauser
A. F. Joseph
M. E. Reid
P. A. Siracusa
S. K. Verma

D. J. Schreck, GL(3)
L. M. Burgess
R. G. Carter
A. R. Doumaux
S. W. King
B. C. Ream
P. R. Umberger

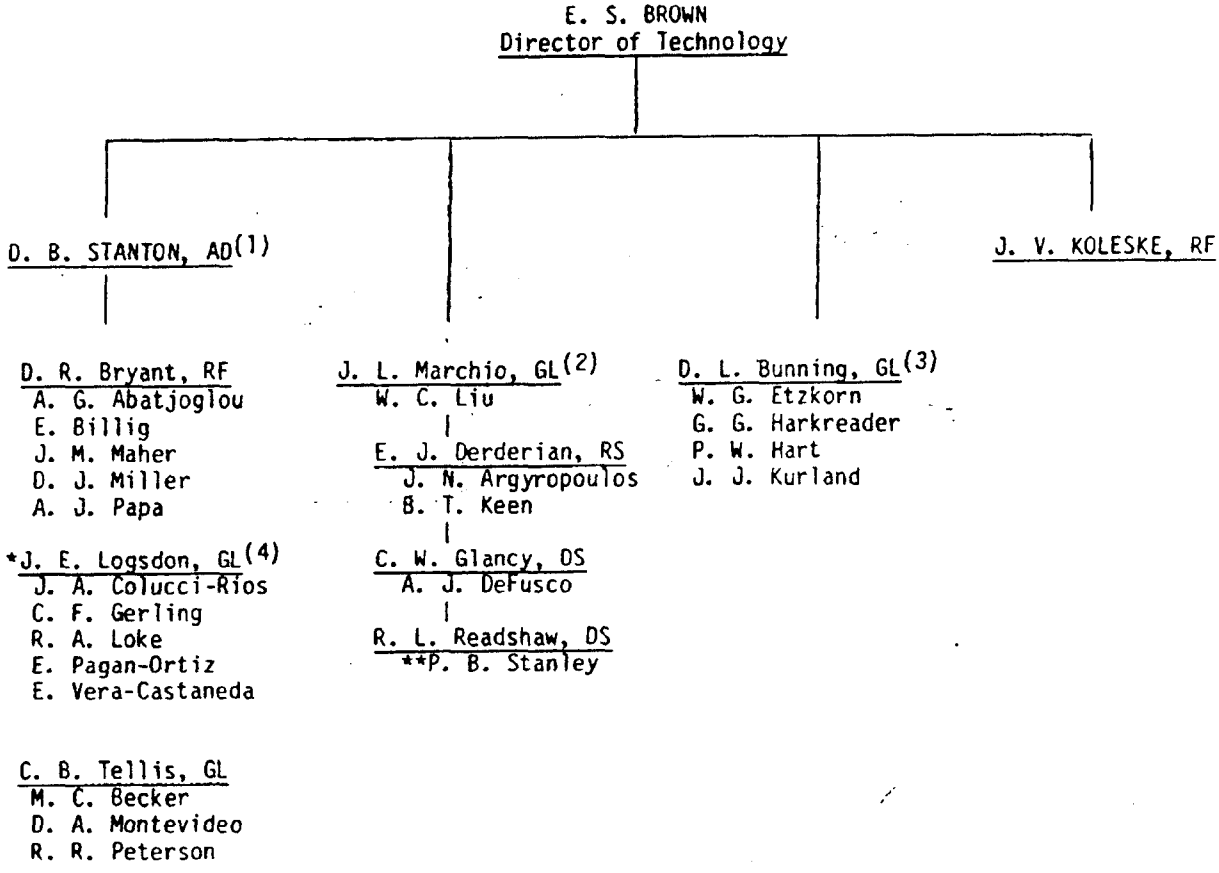
(1) - TM EG Market Area Applications
(2) - TM CARBOWAX and Surfactants
(3) - TM Ethyleneamines/Ethanolamines
AD - Associate Director
GL - Group Leader
SRS - Sr. Research Scientist

INDUSTRIAL CHEMICALS DIVISION
Research & Development
South Charleston Technical Center
January 15, 1987

AB:lp
16381/61A

UCC 011714

UCC BUSINESS CONFIDENTIAL



* Located in Texas City
** Located in Bound Brook

(1) - TM Oxo, Acetic Esters; S&I Licensing Technology Mgr.
(2) - TM Business Development
(3) - TM Acetyls, Acrylics, Glycol Ethers
(4) - TM Ethanol, Isopropanol, Acetone & Derivatives

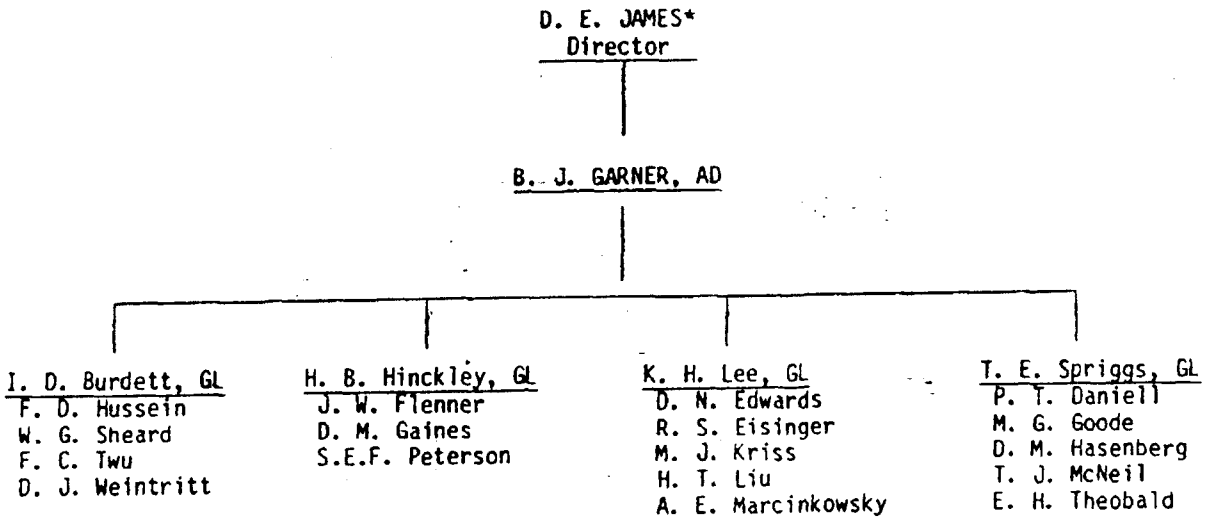
AD - Associate Director
DS - Development Scientist
GL - Group Leader
RF - Research Fellow
RS - Research Scientist

SOLVENTS & INTERMEDIATES DEPARTMENT
SOLVENTS & COATINGS MATERIALS DIVISION
Research and Development
South Charleston Technical Center
January 15, 1987

AB:lp
16381/61A

UCC 011715

UCC BUSINESS CONFIDENTIAL



* Bound Brook, NJ

AD - Associate Director
GL - Group Leader

UNIPOL SYSTEMS/POLYOLEFINS
South Charleston Technical Center
Research & Development
January 15, 1987

AB:lp
16381/61A

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WV-0126 #11

Roy is promoted to R&D!

ICD DIRECTOR OF TECHNOLOGY

H.P. Krog

ASSOCIATE DIRECTOR R&D	ASSOCIATE DIRECTOR R&D	ASSOCIATE DIRECTOR ENGINEERING
P.H. Wadia	R.G. Meadows	J.R. Gagnon
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M.M. Bhasin	J.H. Robson	R.W. Gross
L.A. Kapicak	J.D. Olson	A.C. Skinner
C.A. Smith	K.F. Liu	R. Purre
D.J. Schreck	R.D. Teaney	T.A. Maliszewski
		R.L. Hogan(1)
		T.S. Humble(1)
		P.J. Robison(1)

(1) Reports directly to J. R. Gagnon.

3/30/87
08860

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cc: CPM - LKN - RJK/JHF WV-0126 #17

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T. L. COLLINS

INDUSTRIAL CHEMICALS DIVISION

EOG/D ENGINEERING DEPARTMENT

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R. G. Meadows - Associate Director of Engineering and Licensing - ICD
(J. O'Dell) — Administrative Secretary

R. L. Hogan — Principal Engineer
A. C. Kuo — Staff Engineer

T. A. Maliszewski - Manager of Engineering - Derivatives
A. E. Middleton — Senior Secretary
C. A. Wilkinson — Secretary

M. L. Baago — Senior Staff Engineer
C. J. Felber — Senior Engineer
J. L. Matherne, Jr. — Staff Engineer
F. A. Sorge — Engineer
W. H. Sutherland — Senior Staff Engineer
J. W. Welsh — Engineer

R. Purre - Group Leader - Process/Licensing
D. K. Merguc — Senior Secretary

H. E. Andresen — Senior Staff Engineer
J. A. Bromley — Staff Engineer
R. J. Carr — Senior Engineer
T. C. Cleveland — Senior Engineer
P. R. Fairchild — Staff Engineer
M. A. Ramirez — Staff Engineer
D. D. Robinson — Senior Staff Engineer
J. L. Santos — Senior Engineer

K. E. Tyree — Senior Engineering Technician

3413s

March 1, 1987

UCC 011718

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PERSONNEL ROSTER

INDUSTRIAL CHEMICALS DIVISION
RESEARCH & DEVELOPMENT DEPARTMENT

M. P. KROG - DIRECTOR OF TECHNOLOGY
C. S. Bailey - Senior Administrative Secretary

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G. J. Higginbotham	Senior Secretary
K. W. Dillan	Applications Manager
C. F. Hauser	Project Scientist
A. F. Joseph	Senior Chemist
M. E. Reid	Senior Engineer
P. A. Siracusa	Senior Chemist
S. K. Verma	Development Scientist
G. W. Carr	Advanced Laboratory Technician
V. M. Davis	Senior Laboratory Technician
K. A. Fisher	Advanced Computer Technician
C. E. Higginbotham	Senior Laboratory Technician
D. K. Lewis	Senior Laboratory Technician
S. K. Mierau	Advanced Laboratory Technician
E. W. Thacker	Advanced Laboratory Technician
B. Vickers	Senior Laboratory Technician

D. J. Schreck - Group Leader/TM - Ethyleneamines/Ethanolamines

C. S. Bailey	Senior Administrative Secretary
L. M. Burgess	Senior Engineer
R. G. Carter	Development Scientist
A. R. Doumaux	Senior Research Scientist
S. W. King	Project Scientist
B. C. Ream	Research Scientist
P. R. Umberger	Project Scientist
E. Beckner	Senior Laboratory Technician
J. E. Fleck	Senior Laboratory Technician
R. A. Hodges	Senior Laboratory Technician
J. D. Matheny	Advanced Laboratory Technician
J. A. Mease	Senior Laboratory Technician
B. A. Wartenburg	Senior Laboratory Technician
B. F. White	Senior Laboratory Technician
J. D. Wines	Advanced Laboratory Technician

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March 1, 1987

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PERSONNEL ROSTER
INDUSTRIAL CHEMICALS DIVISION
RESEARCH & DEVELOPMENT DEPARTMENT

P. H. Wadia - Associate Director of R&D - ICD

(P. Dewey)	Senior Administrative Secretary

M. M. Bhasin - Senior Research Scientist - EO Catalyst R&D

B. Vance	Senior Secretary
A. B. Rives	Project Scientist
S. R. Seyedmonir	Senior Chemist
D. G. Allport	Advanced Laboratory Technician
R. L. Miller	Senior Laboratory Technician
J. R. Payne	Senior Laboratory Technician

L. A. Kapicak - Group Leader - EO Catalyst R&D

B. Titlow	Senior Secretary
M. P. Habenschuss	Project Scientist
M. S. Jarrell	Project Scientist
D. M. Minahan	Senior Chemist
E. M. Thorsteinson	Senior Research Scientist
L. M. Torres	Senior Chemist
J. R. Bailey	Advanced Laboratory Technician
S. A. Caster	Advanced Laboratory Technician
J. K. Elkins	Advanced Laboratory Technician
J. C. Winkler	Laboratory Technician
W. M. Woody	Advanced Laboratory Technician

K. F. Liu - Group Leader - Hydrocarbons Process and Plant Support and Process Support

(M. C. Wells)	Administrative Secretary
D. C. Garska	Senior Engineer
W. H. Henstock	Project Scientist
D. Milks	Research Scientist
J. H. LeMaster	Senior Laboratory Technician
J. B. Price	Senior Laboratory Technician

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PERSONNEL ROSTER
INDUSTRIAL CHEMICALS DIVISION
RESEARCH & DEVELOPMENT DEPARTMENT

J. H. Robson - Group Leader/TM - EG Market Area Applications

B. Vance	Senior Secretary
B. A. Bower	Advanced Engineer
K. F. George	Project Scientist
D. E. Smith	Senior Chemist
P. B. Sullivan	Project Scientist
R. A. Billups	Senior Laboratory Technician
L. A. Courtney	Advanced Laboratory Technician
J. H. Paxton	Master Laboratory Technician
F. D. Williams	Senior Lab Technician

C. A. Smith - Group Leader - EO Process Support and Catalyst Evaluations

B. Titlow	Senior Secretary
J. P. Dever	Senior Engineer
P. V. Hinman	Project Scientist
H. Soo	Project Scientist
G. R. Arnold	Master Laboratory Technician
W. H. Carpenter	Advanced Laboratory Technician
J. A. Czenszak	Senior Laboratory Technician
G. C. Huff	Senior Laboratory Technician
J. H. Patton	Master Laboratory Technician
J. E. Perry	Advanced Laboratory Technician
H. H. Phelps	Senior Laboraory Technician
S. Rivers	Advanced Laboratory Technician

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UCC BUSINESS CONFIDENTIAL
UNION CARBIDE CORPORATION
INTERNATIONAL MATERIALS ORGANIZATION
Director of Technology
E. L. Jarrett
T. A. Craig
K. M. Lewis
K. M. Jorgensen(1)
C. H. Blevins
B. A. Bundy
J. H. Jansen
P. J. Lynch
K. E. Askins(4)
R. M. Beisner(3)
Y. Tsivoulis(5)
M. A. Patel(6)
J. C. Bristow
J. C. Box
R. J. Segis
E. M. Arcipello
E. G. Brown
D. M. Smith
M. M. Bundy(5)
J. E. Hamilton(5)
R. C. Kenyon
D. E. Markpeis
W. A. Dill
B. O. Harper
J. E. Hawker
D. A. Leffis
S. J. Sullivan
E. E. Bailey
G. J. Combs
R. M. Dexter
S. J. Kilcoyne
S. K. Lund
T. E. Thompkins
R. P. Tedrahilfer(10)
L. G. Moody
J. R. Wingfield(9)
A. L. Aikman
C. F. Helms
J. D. Reedy(8)
P. E. Austin
K. R. Mathis
Group Leader, Scientific Assistant
201 - 57. Development Scientific Assistants
202 - 57. Research Scientific Assistants
(1) Technology Manager, UI New Product Research and Development
(3) Technology Manager, UI Applications
(4) Technology Manager, UI/PPM Process Development
PPM
(5) Manager, Technical Service - Mold and Mold Release
(6) Manager of Technical Service - Slab and Insulation
(7) Technology Manager, Surfactants - Interfacials
(8) Technology Manager, UI/PPM
(9) Engineering Manager, Surfactants
(10) Engineering Manager, Surfactants
SECTIONAL CHEMICALS DIVISION
South Charleston Technical Center
Research and Development
January 28, 1981
1202

UCC 011722

WV-01276 #14

SOLVENTS AND COATINGS DIVISION

UCAR COATINGS RESINS

D. F. SMITH - - - E. J. Denson
L.M. Santillo

I. Colon	R.F. Eaton	C.B. Mallon	K.R. Szoc
--C.E. Wilcox(1)	A.C. Ashcraft	--R.S. Sebok	H.W. Altmann
S.W. Chow	R.J. Weber	R.J. Burns	W.F. Ark
J.R. Harvey	P.B. Stanley	H. Chu	M.G. Goodman
R.N. Johnson		T. Ginsberg	E.J. Nagel
R.J. Stregowski		W.P. Mayer	S.N. Semerak
M. Suresh			D.P. Yavorsky
C. Goodyear	S.E. Bowne	J.C. Doll	E.W. Buczek
M.J. Jupina	R.E. Brown	R.G. Folsom	C.B. Davis
G.J. Misko	G.S. Collister	J.P. Gacek	N. Holley
R.B. Proctor	E. Rauser	E.J. Hopeck	R.E. Johnson
R. Prow	L.O. Russo	P.L. LaGozino	T.P. Lynch
L.L. Watts		D.P. MacMath	T.A. Nuber
E.I. Wu		J.J. McDonald	A.W. Pieper
D. Yacka		M.P. Paleologo	G.J. Wolf
		E.B. Trzaska	

(1) Supports W. F. Hale.

February 1, 1987

UCC 011723

WV-0176 #15

cc: JAF - CPM - DRN - TLC

UCAR COATINGS RESINS DEPARTMENT
SOLVENTS AND COATINGS MATERIALS DIVISION

EP FILE COPY

D. E. HEATH - DIRECTOR OF ENGINEERING
(L. L. Shamblin) - Administrative Secretary

J. B. Sapp - Engineering Manager - Phenolics and Phenoxy		
J. McWilliams	Senior Secretary	
D. C. Metzler (1)	Senior Engineer	
R. L. Criser - Engineering Manager - Solution Vinyl Resins		
(J. McWilliams)	Senior Secretary	
S. M. Getz	Advanced Engineer	
D. A. Gipe	Staff Engineer	
D. L. Hanks - Group Leader - Peracetic Acid and Derivatives		
(J. McWilliams)	Senior Secretary	
J. B. Miller	Senior Engineer	
K. R. Szoc* - Technology Manager - UCAR Coatings Resins		(1)
R. Palma	Secretary	(1)
W. H. Altmann*	Project Scientist	(1)
W. F. Ark*	Research Scientist	(1)
M. G. Goodman*	Project Scientist	(1)
E. J. Nagel*	Project Scientist	(1)
S. N. Semerak*	Senior Engineer	(1)
D. P. Yavorsky*	Project Scientist	(1)

(1) Located at Bound Brook

* Reports administratively to D. F. Smith

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March 1, 1987

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SUMMARY - PERSONNEL CHANGES

TRANSFERS OUT: None

TRANSFERS IN: None

TERMINATIONS: J. S. Graves' 2/27/87 (VQ)

6578L

March 1, 1987

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DISTRIBUTION

Sue Bailey	740/4413
Barbara Booth	2000/3201
Virginia Clark	2000/4135
Nancy Czenszak	770/308
Pat Dewey	770/305
Henrietta Edwards	2000/3235
Peggy Fleck	2000/3435
Barbara Hively	770/207
Carol Huffman	770/310
Donna Hunt	2000/3401
Vickie Hutchinson	2000/3407
Rose McDaniel	2000/2432
Rosemary McKinney	2000/4107
Earline Meadows	2000/4201
Beverly Meadows	2000/1201
Sandy Morgan	2000/4227
Audrey Mullins	770/341
Wanda Myers	(514) 82/714
Janet O'Dell	2000/4234
Juanita Reed	2000/4501
Pam Reynolds	2000/4335
Fran Schneider	2000/2235
Nancy Smith	2000/2201
Kathy Starr	2000/3434
Anita Thaxton	2000/3336
Debbie Thomas	2000/2335
Linda Troutman	701/400
Cathy Wells	740/2324
Debbie Workman	740/5424
Billie Jean Wright	2000/4335

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WV-01260#16

cc. JAF - CMM - LKN - TLC

SOLVENTS AND COATINGS MATERIALS DIVISION

PERSONNEL ROSTER

EP FILE COPY

D. A. DECHMAN - DIRECTOR OF ENGINEERING
L. L. Shamblin - Administrative Secretary

M. A. Blessing - Process Engineering Manager - Oxo, Acetic Esters, Licensing
S. C. Williams — Senior Secretary

K. D. Sorensen - Group Leader-Oxo Technology & Studies
S. R. Marcus — Senior Engineer
K. M. Simpson — Senior Engineer
W. T. Geiger(2)

I. B. Cox - Lead Engineer - Oxo Licensing
V. E. Johnson — Senior Engineer

T. E. Kennell — Staff Engineer (Syn Gas)
B. K. Richards(2)

R. A. McKenney - Process Engineering Manager - Ethanol, Isopropanol and Derivatives and Alkylamines
(A. M. Jones) — Senior Secretary

K. A. Dolph — Senior Engineer
J. R. Guidroz — Senior Engineer
J. R. Bogan(1)

G. G. Weissert - Process Engineering Manager - Acetyls, Acrylates, Glycol Ethers, Fuel Alcohols, and New Products
A. M. Jones — Senior Secretary

K. B. Bryan — Senior Engineer
E. K. Harris, Jr. — Staff Engineer
W. M. Haydon — Senior Staff Engineer
B. K. Lo — Senior Engineer
V. T. Leques — Senior Engineer
M. G. Von Hagen — Advanced Engineer

(1) On loan from 512 Production
(2) On loan from 515 Plant Engineering

March 18, 1987

6578L

UCC 011727

BOUND BROOK PLANT ENGINEERING

PERSONNEL ROSTER

R. A. Sander - Manager		
K. O'Meara	Secretary	
L. Masessa	Engineering Clerk	
E. F. Meharg	Staff Engineer	Lead Engineer
M. E. Pagan	Senior Engineer	
T. R. Jensen	Advanced Engineer	
C. Campos	Master Designer	
E. J. Delanoy	Designer	
C. Vopat	Master Designer	
H. L. Holm	Mechanical Designer	Contract
J. Roll	Mechanical Designer	Contract
+G. H. Salisbury	Records Clerk	Contract
+C. H. Jakoplic	Electrical Engineer	Contract
G. H. Reinhardt	Senior Engineer	Lead Engineer
W. E. Mitchell	Engineering Assistant	
O. E. Olugbodi	Engineer	
M. G. Ferri	Mechanical Engineer	Contract
A. J. Nichols	Mechanical Engineer	Contract
+R. G. Schlemm	Cost Engineer	Contract
J. S. Schrager	Process/Project Engineer	Contract
R. J. Lucas	Cost Estimator	Contract
D. C. Metzler	Senior Engineer	(1)

(1) Reports to D. E. Heath/J. B. Sapp

\+ Part-time

March 18, 1987

6578L

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TEXAS CITY PLANT ENGINEERING

PERSONNEL ROSTER

W. W. Long - Manager

Norma Zamora	Secretary	(1)
Gwen Mathews	Receptionist	

D. R. Holcomb - Group Leader - Process and Billing/Records

L. C. Brinchman	Advanced Secretary
W. T. Geiger	Senior Engineer
R. M. Guardiola	Engineering Assistant
J. A. Halliday	Engineer
W. W. Henderson	Staff Engineer (Lead Engineer)
K. S. Hoang	Senior Engineer
D. A. Hoge	Senior Engineer (Lead Engineer)
R. Jares	Senior Staff Engineer (Lead Engineer)
L. S. Jenkinson	Advanced Engineer
R. I. Larach	Advanced Engineer
M. A. Menezes-Carter	Advanced Engineer
H. M. Najarian	Senior Engineer
G. Reynolds	Senior Engineer
B. K. Richards	Senior Engineer
J. T. Tannos	Senior Staff Engineer
G. A. Wages	Senior Engineering Assistant
P. M. Youngblood	Senior Engineer
E. N. Goebel	Skilled Clerk
M. D. Lowery	Senior Engineering Technician - Process
M. A. Schlesinger	Senior Clerk
H. C. Sonnier	Advanced Clerk

V. E. Thompson - Design Supervisor

D. L. Bergeron	Senior Draftsperson
R. E. Claunch	Senior Draftsperson
G. Irizarry	Draftsperson
M. K. Junemann	Senior Draftsperson
L. C. Mack	Draftsperson
W. L. Szanyi	Senior Draftsperson
F. V. Trevino	Senior Draftsperson

(1) Contract

March 18, 1987

5019L

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W. W. Long (Contd)

I. L. Wilcox - Group Leader - Control Systems, Electrical, and Civil

K. G. Young	Advanced Secretary

CONTROL SYSTEMS ENGINEERING

L. Q. Dang	Senior Engineer
E. L. Fletcher	Staff Engineer
B. J. Martin	Senior Engineer
J. H. Patschke	Engineering Assistant
S. N. Roy	Staff Engineer
R. J. Warrick	Engineering Assistant
L. R. Zinck	Senior Staff Engineer (Lead Engineer)
C. H. Keeling	Engineering Technician - (Control Systems)

ELECTRICAL ENGINEERING

A. J. Candish	Staff Engineer (Lead Engineer)
T. M. Dean	Engineering Assistant
J. E. Franks, III	Staff Engineer (Lead Engineer)
P. B. Holman	Advanced Engineer
G. L. Sturgeon	Senior Engineer
B. L. Watson	Senior Engineer

CIVIL ENGINEERING

B. K. Fuller	Senior Engineer
D. G. Waits	Advanced Engineer

ELECTRICAL/CONTROL SYSTEMS/COMPUTER AIDED DRAFTING

L. D. Schexsnayder - Design Supervisor

D. R. Ferrino	Senior Draftsperson
J. A. Lassiter	Draftsperson
H. L. Ridenour	Senior Draftsperson
J. D. Steele	Draftsperson
B. J. Tax	Senior Draftsperson

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SUMMARY - PERSONNEL CHANGES

TERMINATIONS

2/1/87 R. G. Schlemm Early Retirement

NEW HIRES

1/5/87 J. A. Halliday W. W. Long/D. R. Holcomb

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DISTRIBUTION

Sue Bailey	740/4413
Barbara Booth	2000/3201
Virginia Clark	2000/4135
Nancy Czenszak	770/308
Pat Dewey	770/305
Henrietta Edwards	2000/3235
Peggy Fleck	2000/3435
Barbara Hively	770/207
Carol Huffman	770/310
Donna Hunt	2000/3401
Vickie Hutchinson	2000/3407
Rose McDaniel	2000/2432
Rosemary McKinney	2000/4107
Earline Meadows	2000/4201
Beverly Meadows	2000/1201
Sandy Morgan	2000/4227
Audrey Mullins	770/341
Wanda Myers	(514) 82/714
Janet O'Dell	2000/4234
Juanita Reed	2000/4501
Pam Reynolds	2000/4335
Fran Schneider	2000/2235
Nancy Smith	2000/2201
Kathy Starr	2000/3434
Anita Thaxton	2000/3336
Debbie Thomas	2000/2335
Linda Troutman	701/400
Cathy Wells	740/2324
Debbie Workman	740/5424
Billie Jean Wright	2000/4335

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