

tabershaw cooper associates inc.

2180 Milvia Street, Berkeley, California 94704. Telephone (415) 845-3355



April 1, 1974

W. J. Wilcox
B. F. Goodrich Chemical Co.
6100 Oak Tree Blvd.
Cleveland, Ohio 44131

Dear Mr. Wilcox:

Here are the lists we discussed. Alongside each name is the date the man left Louisville. If you could just indicate whether or not they are still employed by Goodrich that would be all we need to know for our followup. Our cut-off date is approaching rapidly and we are trying to locate as many people as possible before the end of the study. I really appreciate your help.

Thanks,


Jane Lindsey
Records Supervisor

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Avon Lake

Bain, Robert J.	9-56
Ballou, Charles	6-51
Black, James M.	10-67
Cornwell, James P.	8-63
Hearn, Robert Wm.	7-51
Lawrence, Philip H.	5-51
Linak, Thomas R.	4-56
McLain, Wm. G.	7-55
Miller, Harold G.	9-60
Nisbet, Garland A.	6-54
Paulsen, E.L.	8-51
Schreiner, Wm. E.	3-59
Schutz, Eugene R.	9-56
Stafford, Ralph D.	11-48
Welch, Richard E.	5-49
Yount, Robert A.	8-60

Henry

Berdin, Michael J.	8-63
Grover, Russell C.	9-57
Rys, David L.	11-69

Long Beach

Ball, Clarence W.	4-60
Beeler, Edward Lee	2-70
Clements, Albert W.	4-68
Martin, Tommy G.	6-63

Akron

Blanton, Kenneth L.	4-64
Cato, Walter L.	8-64
Davis, Kenneth B.	2-49
Weaver, Curtis R.	1-67

Calvert City

Atkins, Ernest E.	4-67
Brand, Lynn J.	8-52
Compton, Henry W.	7-64
Cordon, Charles R.	10-52
Duwelius, Lloyd A.	10-52
Gerhard, Earl W.	5-70
Goss, Walter T.	10-71
Jacob, Wm. T.	8-52
Kemp, Charles E.	12-52
Lehman, J. Kenneth	3-65
McNeal, Johnstone H.	12-52
Pfeifer, Myron	12-52
Piers, Joseph P.	6-52
Sollman, Frank H.	3-64
Towers, Terence G.	1-70
Wheeler, James B.	1-70
Woods, Charles L.	8-66

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Cleveland

Banks, Wm. L. 3-71
Blackler, Wm. F. 2-71
Buck, Charles E. 4-53
Clendenen, Woodrow B. 12-53
Coffey, Gerald F. 10-71
Ditto, Paul E. 6-54
Doughty, Michael M. 5-68
Goetsch, John Wm. 10-65
Huhn, Gerald E. 11-68
Jennings, Garland B. 9-47
Lechner, Irvin L. 5-59
Lewis, James W. 2-66
Martinelli, Edward C. 1-66
Mather, Rolland S. 4-62
Matthews, David L. 10-50
Norman, James T. 1-58
Norman, Richard E. 2-65
Page, Gary A. 9-67
Palkovic, John J. 11-64
Parks, Clarence E. 3-49
Puckett, Lee M. 6-62
Ryder, John 3-52
Schaaf, Glen D. 6-64
Schlegel, Walter F. 8-57
Schmeing, W. Anthony 3-67

Schroeder, Elmer F. 6-48
Shankin, Marvin Y. 1-62
Smith, Arnold R. 8-51
Vernotzy, Alvin W. 6-52
Wilkins, Wilbur L. 12-55

Sponge Prod.-Shelton, Ct.

Terranova, Joseph A. 12-69

Footwear Div.

Evans, Harold T. 12-65

Institute-Goodrich-Gulf

Haas, John R. 3-56

Orange

Fannin, James D. 8-70

Company-wide Co-op

Glock, Milton F. 9-65

L. A. Tires

Hofmeister, Allen G. 6-66

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Pedricktown

Goodman, John G.	10-71
Himes, Gary L.	10-69
Steiniger, John L.	11-69
Wright, Don T.	9-69

D-5017 Plant 3

Johnson, Carl E.	8-50
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Institute

King, Wm. H.	3-56
Warrick, Walter R.	4-56

Pt. Neches

Lydy, Dwayne	2-47
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Brecksville

Marger, Jerome S.	8-66
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Watson

Marsh, Howard E.	3-60
Miller, Richard K.	2-60

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ROBERT F. BOGGUS, P.E. MBA
Vice President,
Projects and Administration

February 15, 1974

Maurice Johnson, M.D.
B. F. Goodrich Company
Building 5-1
500 South Main Street
Akron, Ohio 44318

Dear Dr. Johnson:

In response to your request for professional support in the current matter of vinyl chloride exposure as well as in the area of total comprehensive occupational health, Tabershaw/Cooper Associates, Inc. proposes to provide three types of action for the B. F. Goodrich Chemical Company. These are:

1. Emergency Action - Establish, in as great a detail as possible, what has actually happened in occupational health terms at the Louisville and Avon Lake Plants and at Niagara, New York.
2. Comprehensive Program - Initiate a long range, comprehensive program which will address itself to (a) the development of an Occupational Health Surveillance System, (b) a Technical Information Monitoring System, (c) the review and adjustment of the occupational medical program, (d) the development of a series of epidemiological studies and (e) the review and adjustment of current industrial hygiene activities.
3. General Consultation - Establish an on-going retainer relationship so that Dr. I. R. Tabershaw and others on the TCA, Inc. professional staff can respond to specific needs of the company in the occupational health field and to serve as the professional spokesman on technical matters as required by Goodrich.

These actions will provide Goodrich with the best available knowledge of what actually happened in the past in its vinyl chloride operations; establish medical, industrial hygiene and administrative procedures to

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assure early detection of any future problems of this nature and provide a means of maintaining a professional perspective during the coming months of Goodrich's relations with government agencies, the press, labor unions and the medical/scientific community.

Tabershaw/Cooper Associates, Inc. is prepared to field a team of professional individuals with skills in occupational medicine, industrial hygiene, occupational nursing, epidemiology and system analysis supported by the necessary clerical and administrative staff as required. Goodrich personnel and resources will be utilized to the extent available with the TCA, Inc. effort being directed toward their guidance, and the provision of supplemental skills as required. A more detailed discussion of each of these types of actions is included in the following paragraphs.

EMERGENCY ACTION

Industrial Hygiene and Medical Evaluation of the Louisville, Avon Lake and Niagara situation.

Dr. Tracy Barber will visit the Louisville plant for approximately two days beginning Tuesday, February 19 to identify individuals for whom morbidity and mortality detail is required. Plant medical records, local hospital records, private physician records and employment records which are available will be photocopied for return to TCA, Inc.'s Berkeley office for detailed analysis.

During the same week, Dr. Bernard Tebbens, Senior Industrial Hygienist, will spend approximately two days at the Louisville Plant to establish data requirements for the verification of dust and fume levels. He will be accompanied by a field industrial hygienist prepared to take immediate measurements as required.

Mr. Richard Davis and Ms. Jane Lindsey also will be present at the Louisville plant for approximately four days, beginning February 19, to collect data and direct the TCA, Inc. effort to assure that all subject matter is available for TCA, Inc. evaluation and analysis.

The team will repeat the process at the Avon Lake Plant with Dr. Barber arriving in Avon Lake on Thursday, February 21, and other team members following as tasks at Louisville are complete. If necessary, the team may be augmented by Dr. Clark Cooper and Dr. William Gaffey who will provide additional medical and epidemiological input.

With Louisville and Avon Lake complete, the necessary team members will address the Niagara Plant situation and collect the necessary data to reconstruct the mortality experience which occurred there.

Data collected will be analyzed by TCA, Inc. Occupational Physicians and Industrial Hygienist's so that the complete picture concerning

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health effects, levels of exposure, current morbidity patterns and actual mortality experience can be constructed for these three locations. On the basis of this information, the course of future action can be developed.

COMPREHENSIVE PROGRAM

As quickly as the emergency action has progressed to a satisfactory point, TCA, Inc. will begin work on the following functions. These are not mutually exclusive nor will they be accomplished sequentially. Each is designed to feed information into the other so that a total system of occupational health is developed.

1. Occupational Health Surveillance System - Develop a management information system which assures Goodrich that it provides employment and places of employment free from recognized hazards likely to cause death or serious physical harm to its employees. The system will synthesize information about three subjects; (a) work environment quality, (b) the work experience of individual employees and (c) the medical status of individual employees. Development of this system will involve the accomplishment of an industrial hygiene description of the various Goodrich operations, the nature of potential inherent exposures, the accurate classifications of jobs involved in those operations from the perspective of hazardous exposures, the recording of employee assignments to these jobs and the performance of medical examinations structured to reveal medical abnormalities at the earliest possible time.

Such a system will allow Goodrich to retrieve synthesized information from either the work environment perspective or the employee perspective. Given an employee with specific medical signs, the physician can call forth an accurate description of his occupational exposure during his working lifetime to determine if anything in that background could be the cause of physical impairment. Likewise, discovery that longterm exposure at a given point in the production stream causes a specific medical problem, the doctor can immediately identify all employees in the company who should be placed under specific surveillance.

The development of this system will require the services of an industrial hygienist, an occupational physician and a systems analyst supported by administrative and clerical personnel working with counterparts in the Goodrich organization. In addition to TCA, Inc., Informatics, Inc. will provide systems analysis, program design and other such services from their staff of over 300 professional personnel in Rockville, Md. TCA, Inc. and Informatics, Inc. are both wholly owned subsidiaries of The Equitable Life Assurance Society of the United States.

2. Technical Information System - The TCA, Inc. Information Center will provide an exhaustive literature search by scientifically trained and bibliographically experienced researchers and research analysts covering

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VCM, PVC, vinylidene and other related materials as they affect health. The techniques for used in this service were planned by TCA, Inc.'s information specialists in the field of occupational health, and involve the thorough search of all the major scientific and technical indexing and abstracting services related to the subject, the careful screening of retrieved information by health professionals with an eye towards relevance thereby setting a foundation for discovery of heretofore unrealized relationships. The search ends with the indexing of materials based upon the creation of a "minithesaurus" of relevant indexing terms (with a complete and consistent syndetic structure) to be plugged into the more comprehensive but genreal thesaurus of occupational health indexing terms created by NIOSH. Such a system will provide a basis for the rapid retrieval of information with the assurance that the information retrieved corresponds with Goodrich's needs.

Until the total existing body of information is in hand, TCA, Inc. will provide periodic reports of literature collected. Once the existing body is indexed and evaluated, the service will continue by providing monthly reports to Goodrich of newly discovered or published literature thereby updating the existing body of knowledge.

3. Occupational Medical Program - TCA, Inc. will review current Goodrich practices in the area of Occupational Medicine including pre-employment physical examinations, periodic examinations, biological monitoring procedures, special physical examinations, first aid and emergency care procedures, etc. These will be reviewed from the standpoint of criteria, content and provision of service. It will recommend adjustments of the current program as indicated.

In addition to forming the basis for specific recommendations, the knowledge developed out of this review will contribute vital information to the development of the Occupational Health Surveillance System and the Epidemiology functions discussed in the next section.

4. Epidemiologic Studies - A variety of related epidemiologic studies will provide Goodrich with specific information about the probable cause and effect relationships associated with its processes and the health of its employees, demonstrate the company's determination to meet its occupational health responsibilities, and provide guidance for on-going medical practices. These studies should include all Goodrich processes beginning with vinyl chloride.

Of primary priority is the clinical follow-back of all deaths of Goodrich employees or former employees. So far as is possible, death certificates will be obtained and clinical histories analyzed for all individuals where the cause of death could be related to an industrial exposure. Employment histories on each individual so classified will be reconstructed and analyzed for similarities. This will be accomplished on the vinyl-chloride-exposed population first, then extended to include all of the Goodrich population.

The second requirement is a morbidity study of all workers with potential

exposure to vinyl chloride anywhere in the VCM/PVC processing and fabrication chain. In such a study TCA, Inc. will establish the medical criteria for identification of high risk groups. Specific medical signs will be selected for grouping employees into defined populations. Such indicators might include all employees possessing any of the symptom complex associated with acroosteolysis, anyone ever rendered unconscious by exposure to vinyl chloride, all employees exhibiting an abnormal liver profile, etc.

Once these populations have been segregated, two studies will be conducted. First, the work histories of each member of the population will be reconstructed to identify any similarities. This information will be an indicator to the degree of risk associated with various jobs.

The second study will involve following these groups prospectively to monitor the development of an excess of untoward medical events. In addition to assisting in the development of early detection techniques, this study will demonstrate Goodrich's determination to provide medical surveillance for anyone with an indicated health impairment.

5. Industrial Hygiene - TCA, Inc. will review the Goodrich work environment measurement practices and techniques, and will recommend changes where indicated. It will pay particular attention to the sampling for dust concentrations and examine the need for specific industrial hygiene sampling at the fabrication end of the chain. An appropriate program will be developed with Goodrich industrial hygiene personnel to provide TCA, Inc. sampling for verification of Goodrich data. This activity will begin in plants associated with vinyl chloride and be extended to cover all Goodrich plants at the appropriate time.

GENERAL CONSULTATION

Because there will continue to be specific, but as yet unidentified consulting needs, TCA, Inc. is prepared to provide up to forty (40) consultative days during this calendar year. In this way, an entire spectrum of services can be made available, should a need arise anywhere within Goodrich. Typical of this action is the continuing direct participation of Dr. Tabershaw in the vinyl chloride situation. We will be prepared to provide occupational physicians and nurses, safety and insurance specialists, medical program administrators, epidemiologists, industrial hygienists and the like.

Schedule and Cost Requirements.

We are responding immediately to the "Emergency Action" portion of our proposal and we anticipate a preliminary report will be available by April 1, 1974. The cost is \$21,000 which will include professional labor, overhead, profit and all other items except travel. Travel costs will be billed as incurred, our estimate for this is \$6,000.

We think that the "Comprehensive Program" can be accomplished in 6-8 months of effort. However, the start of this work will be influenced

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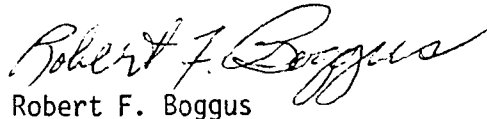
by the information gathered, and procedures developed, during the "Emergency Action" period. We will plan, therefor, to develop details of this program for your review on May 1, 1974. Our estimate of cost ranges from \$85,000 to \$110,000. This estimate will also be firmly established in the May 1 submittal.

The "General Consultation" period will continue from February 1, 1974 through December 31, 1974. The cost of this retainer is \$18,000 plus travel costs as actually incurred.

Monthly invoices will be prepared in detail and submitted for each of the three major areas.

We look forward to working with you on the many challenging assignments facing Goodrich this year. If you have any questions concerning this proposal, please call me at your convenience.

Very truly yours,


Robert F. Boggus

RFB/jm

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