

July 22, 1974

To: Mr. P. M. Shellenberger
Subject: Confirmation of NIOSH Contractor's
Visit to Baton Rouge North

Enclosed for your information and further transmission to Mr. Cornell is Bendix Corporation's letter regarding subject visit.

Based on the plant's recommendation, I called Bendix Corporation and confirmed the date of August 7, 1974 for their visit to our plant.

W. S. Ferguson

WSF:nn

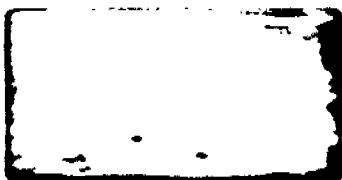
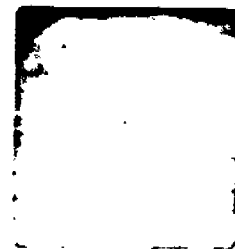
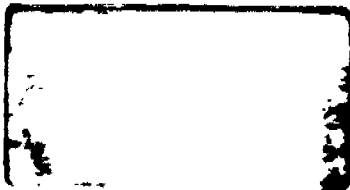
ASI 00004486



W L Barnhart
Manager
Special Projects

**Launch Support
Division**

1355 N Atlantic Avenue
Cocoa Beach, Florida 32931
Tel (305) 783-5610



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19 July 1974

ASI 00004488



DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
CENTER FOR DISEASE CONTROL

NATIONAL INSTITUTE FOR OCCUPATIONAL
SAFETY AND HEALTH

Reference: CDC-99-74-50
Environmental/Industrial Hygiene Surveys of Vinyl Chloride Monomer
Manufacturing Operations Where Polyvinyl Chloride and Copolymers
of Polyvinyl Chloride are Processed

Bendix Launch Support Division
1355 North Atlantic Avenue
Cocoa Beach, Florida 32931

Gentlemen:

Enclosed are four copies of the proposed contract document. Upon acceptance, three copies are to be executed by an authorized official of your organization. One copy may be retained for information purposes. The three signed copies should be returned to the Contracting Officer on or before June 26, 1974

National Institute for Occupational
Safety and Health/CDC
Procurement Branch, Room 3-44
5600 Fishers Lane
Rockville, Maryland 20852

If the name and address as shown on the face page are in error, you are requested to make this discrepancy known when returning the documents.

Mr. James H. Jones
has been appointed Project Officer with the authority set forth in the contract. Mr. Philip J. Bierbaum has been designated Alternate Project Officer and acts only in the absence of the Project Officer.

Upon receipt of three copies of the document, the Contracting Officer will execute the contract on behalf of the Government and return a signed copy for your retention. Work under the proposed contract may not be undertaken, nor will Government funds be obligated, until the contract has been executed by the Contracting Officer.

Sincerely,

Leo A. Sanders
Contracting Officer

4 Enclosures

ASI 00004489

ARTICLE I
Description of Work

- A. Independently and not as an agent of the Government, the Contractor shall exert its best efforts to document past and present worker exposures to vinyl chloride during (1) the monomer production and the (2) processing of polyvinyl chloride and polyvinyl chloride copolymers. In addition to documenting worker exposures to vinyl chloride, information on work practices, environmental control procedures, industrial hygiene practices and worker exposures to other known liver toxins also will be documented. Specifically the contractor shall perform the following tasks:

Task I. Vinyl Chloride Monomer Production

There are 15 plants in the United States that produce vinyl chloride monomer according to NIOSH information (Attachment A). From these 15 plants, and any other plants that the contractor identifies, three plants shall be selected for on-site environmental/industrial hygiene surveys. Within 90 days of award of contract, the contractor shall present to the project officer (s) the list of vinyl chloride monomer plants and polymer processing plants that have been chosen for the environmental/industrial hygiene surveys. This presentation shall include the basis for the selection. The actual surveys shall not commence until this information has been reviewed and approved in writing by the project officer (s). Maximum review time shall be five working days.

The criteria for selection shall include, but not be limited to:

(1) information gained from preliminary site visits; (2) information gained from literature searches; (3) information gained from personal contacts; (4) the representativeness of the plants to industrywide operations; (5) the plants having the greatest potential for work exposure to vinyl chloride; (6) the plants having the greatest gradient of worker exposures to vinyl chloride; (7) the availability of historical inplant air measurements of vinyl chloride; and (8) the plants having the longest history of vinyl chloride monomer production.

The surveys at the selected three plants shall consist of documenting past and present worker exposures to vinyl chloride and past and present work practices, environmental control procedures and industrial hygiene practices that involve the reduction of worker exposures to vinyl chloride. At a minimum, the following specific information shall be obtained and/or constructed: (1) a general description of the vinyl chloride monomer processing operation; (2) 8-hour daily time-weighted average exposures (TWAs) of vinyl chloride for each different job-type/job-operation in the monomer processing area, including a specific job description for each of the job-types; (3) general area (stationary) samples of vinyl chloride in areas of suspected high concentrations; (4) raw material and product lists and quantities thereof that relate to the past and present vinyl chloride level

(5) ventilation design and ventilation measurements, including documentation of dates of ventilation changes and the extent of changes and how they relate to past and present vinyl chloride levels; (6) work practices that have been instituted to lower vinyl chloride levels; (7) photographs, sketches, etc. to document existing conditions; and (8) documentation of past and present industrial hygiene practices, including utilization of protective clothing (i.e., type, frequency of change, laundering practices, etc.), protective devices (i.e., respirator-usage, frequency type, etc.) housekeeping practices, shower requirements, eating smoking and drinking practices in production areas, etc.

Task II. Processing of Polyvinyl Chloride and Polyvinyl Chloride Copolymers

Environmental/industrial hygiene surveys shall be conducted in production areas where polyvinyl chloride and polyvinyl chloride copolymers* are processed including, but not limited to, the following operations: (1) compounding; (2) extrusion; (3) molding; (4) calendaring; (5) thermoforming; (6) binding; (7) foams; (8) fibers; and (9) plastisol processing. The surveys shall be conducted so that each processing operation is sampled at three different plants (locations). The criteria for the selection of these three plants shall include, but not be limited to: (1) information gained from preliminary site visits; (2) information gained from literature searches; (3) information gained from personal contacts; (4) representativeness of the operations to industry-wide processing; (5) operations having greatest potential for worker exposures to vinyl chloride; (6) operations having the greatest gradient of worker exposures to vinyl chloride; and (7) availability of historical inplant air measurements of vinyl chloride; and (8) the operations having the longest history of polymer processing. The information that shall be obtained and/or constructed shall be the same as the eight items listed under Task I for the vinyl chloride monomer production operations. In addition, to these eight items past and present TWA worker exposures to other known liver toxins (if present) including, but not limited to, mercury, 2, 2 dichlorovinyl dimethyl phosphate, ozone, dioxane, beryllium, lead, diacetate, copper, trichlorethylene, carbon-tetrachloride, arsine and tetrahydrofuran shall be measured and/or constructed.

* Polyvinyl chloride-acetate, polyvinyl chloride-propylene and polyvinyl chloride vinylidene chloride

Task III. Sample Collection and Data Analyses

All vinyl chloride sampling and analytical techniques shall be approved by the Project Officer prior to initiation of sampling. If sampling is required for other known liver toxins, the sampling and analytical procedures must be approved by the project officer(s) prior to use by the contractor.

The contractor is cognizant of the fact that vinyl chloride is considered a potential human liver carcinogen and all employees and agents of the contractor should be provided with appropriate protective equipment. These equipment needs will be discussed with the project officer(s) prior to the field surveys.

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The sample collection shall be conducted in such a manner as to provide statistically valid data that are representative of present worker exposures (categorized by different job-types) to vinyl chloride and other liver toxins, if found. Past worker exposures (by job-type) shall be constructed based on the information that is collected on the changes in processing, ventilation, environmental control, work practices and industrial hygiene practices that have occurred over the years and on historical air sampling data (preferably personal sampling data) collected in the plant, if deemed reliable and accurate. All assumptions that are made in arriving at the constructed concentrations shall be presented. All of the above information on processing changes, ventilation changes, etc. shall be presented as part of the report on the surveys.

DISCUSSION AND SURVEY AGENDA

Code _____

Company Name _____

Address _____

Telephone No. _____

Technical Contact and Title _____

Number of Employees _____

Company Products _____

Does company have a Safety Program Yes _____ No _____

Will they permit us to collect information and samples Yes _____ No _____

1. Product/s Involved _____

2. Process Used

- A Ethylene - Oxychlor Process
- B Ethylene - Acetylene Process
- C Acetylene Process
- D Other _____

3. Indoor or Outdoor Operation _____

4. Length of time present process has been used _____

5. Identify changes in process _____

6. Ventilation - Description _____

7. Process Schedule _____

8. Employee information _____

9. Number of employees exposed _____

10. Has company previously sampled area
Yes _____ No _____

11. Sampling method used _____

12. Has sampling method or program changed
Yes _____ No _____

If yes how? _____

13. Are results of company sampling available _____

14. Vacu-Sample high concentration areas.

Location _____ Sample # _____

Location _____ Sample # _____

Location _____ Sample # _____

Location _____ Sample # _____

Location _____ Sample # _____

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15. Obtain company product literature

16. Product Samples _____

Sample ID _____

Sample ID _____

Sample ID _____

Sample ID _____

Sample ID _____

Sample ID _____

17. Raw material list _____

18. Suspected other known liver toxins

19. Comments _____

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20. Sketch

21. Signature of interviewer _____

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