

FILE NAME: Rogers Corporation (ROG)

DATE: 1971 Nov 24

DOC#: ROG007

DOCUMENT DESCRIPTION: J-M Letter to ROG with Recommendation of In Plant Industrial Hygiene Surveys to Locate Problem Areas

ATD/43/4000/7112
Denver, Colorado 80217
603/770-1000

November 24, 1971

Mr. M. Kupsaw, Director of Personnel
Rogers Corporation
Rogers, CT 06263

Dear Mr. Kupsaw:

Thank you for making the necessary arrangements for our Mr. Skip Lindsay to visit your Manchester, Connecticut Plant. The assistance provided by Messrs. Donle and Sweeney was most helpful. The visit indicated that there are several areas where asbestos and general dusts could be a problem.

Our recommendation would be to conduct an Industrial Hygiene Survey to locate problem areas and determine their magnitude. The test results will not only point out which areas need further attention but will provide background information for the new Occupational Health and Safety Law if such information is needed at a later date. The survey will also provide data for making engineering decisions regarding the upgrading of existing dust and fume collecting systems as well as the design of a new system.

Three methods approved by the United States Public Health Service will be used for measuring airborne dust concentrations. These methods are:

1. Membrane Filter/Personal Air Sampler Technique

This method is applicable to the determination of atmospheric concentrations containing asbestos fiber. The Membrane Filter method is suited for sampling in mixed dust areas, since asbestos fibers alone are counted without interference from granular dusts.

The Membrane Filter counts are made using a 430X phase contrast microscope. These counts are expressed in fibers per cubic centimeter (F/cc) of air.

2. Impinger Method

This method is used for the determination of atmospheric dust concentrations containing any insoluble inorganic dusts.

The impinger counts are made using a 100X light microscope. These counts are expressed in millions of particles per cubic foot.

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3. Area Hi Volume Sampling

This method of sampling is used to quantitatively and qualitatively analyze the atmospheric dust concentrations. This method is particularly useful when possible silica exposures are present, such as in clay.

These three methods will provide accurate dust counts which can be compared with current TLVs of fiber glass, asbestos, resins, clay and the other dusts present in the areas you are concerned with.

Direct reading instruments will be used to measure time concentrations. These instruments give an immediate indication of the level of toxicity for each type of dust which can be compared to the current Threshold Limit Values. These instruments also give the percentage of fume/vapor (by volume) present up to the lower explosive limit.

Our sampling program will include a minimum of 66 samples: 26 membrane filter, 27 impinger, 4 hi volume and 10 fume/vapor.

Extra samples may be taken at the discretion of the Industrial Hygienist.

One trained Industrial Hygienist will spend a minimum of four days collecting samples in your Manchester, Connecticut Plant. All sample analysis and reporting are completed in our laboratories. A full report containing a discussion of sampling and analysis methods, analysis of all samples, locations of samples, conditions existing at the time samples were taken, comparison with current TLVs along with our recommendations as to further actions will be forwarded to you.

The cost of the completed survey will be \$1,300, plus travel expenses, and per diem billed at actual cost. The total cost, work plus travel, will not exceed \$1,500.

Attached is a contract outlining the scope of work in greater detail. If you are interested in having Johns-Manville Industrial Hygiene Engineering Services perform this work for you, please sign and return a copy of this proposal to me. If you have any further questions, please contact our Area Sales Engineer: Mr. Murray W. Lindsay, Johns-Manville Research & Engineering Center, P.O. Box 159, Manville, New Jersey 08854, 201-722-9000 Ext. 296.

Very truly yours,

W. B. Reitze

W. B. Reitze, Manager
Industrial Hygiene Engineering Services

Attachments