Manville, NJ

INDUSTRIAL ENGINEERING DEPARTM T

JOHNS-MANVILLE

MANVILLE FACTORY

Report No. 440-4-218-B

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Date 1/7/57

SUBJECT- REPLACE DUST CONTROL EQUIPMENT AT SHINGLE AND TRANSITE FORMING MACHINES (SUPPLEMENT)

A.R. NO: 040-IR-021[illegible]-B

FILE NO: 440-2-242

I PROJECT

To improve control of dust collection, where inadequate in the recently installed extensive system, to protect health of employees.

II FACILITIES

A. Present

The equipment previously authorized, composed of collectors, blowers and ductwork, has been installed. It is in use and its operation stabilized in accord with GE, "Dust Abatement Project Evaluation" procedure dated 5/10/54. However, in a review of dust counts, dust control has been found to be inadequate at five locations covered by this system as described in H. H. Jackson's letter of 5/1/56. The locations which require correction are on #3 Machine, before and after the first fluff box or base mix distributor, before and after the second fluff box, and over the transfer belt.

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Corrective additions have not been made as authorized funds have been almost completely expended.

B. Proposed

Improvement of controls is proposed to reduce the dust counts below the maximum allowable concentration. These improvements would be composed of suitable additional hoods and connections to existing ductwork.

III TYPE OF PROJECT

This is a project to protect safety and health of employees.

IV ESTIMATED EXPENDITURE

GPED project BF-MAN-1303-A

	Previous Approval	Revised Total	Additional Required
Provide dust control equipment at forming machines. Supplement includes additional hoods and connections to existing ductwork.	$38,586.	$40,523.	$1,937.
Est. life 7 years.			

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Doctor Merrill

PREPARED BY F. E. Rader REQUESTED BY P. D. Frost APPROVED See Page 3.

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ALWAYS REFER TO ABOVE REPORT NUMBER IN CORRESPONDENCE

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IV ESTIMATED EXPENDITURE (CONT'D.)

A. Comparison of major items in original and supplemental proposals, with explanation of cause.

	Labor	Materials	Total
Revised proposal	$19,491.	$21,032.	$40,523.
Previous proposal	18,135.	20,451.	38,586.
Supplemental proposal	$ 1,356.	$ 581.	$ 1,937.

Dust abatement evaluation procedure, mentioned previously, prescribes a repeated attack upon a dust problem until it is reduced to within allowable limits. Upon stabilization of operation of the dust control system further dust counts indicated that additional dust control is necessary, relatively minor compared to the entire dust system.

B. Effect on benefits to be obtained: the proposed improvement will make the existing dust control system effective in the area where the hoods are installed and thereby help ensure satisfactory results from the whole collector system.

C. Amount expended to date: $37,923.

D. Amount committed in excess of that spent: None.

E. Amount that has to be expended to complete project: $2,600.

F. Value of material that could be used or sold if project were discontinued: All material is now in use.

G. Cost to Company to cancel outstanding commitments, if project were discontinued: None.

OTHER INVESTMENT

None.

VI BENEFITS

1 - Improved protection of safety and health will result through dust control for 5 men who work at the #3 forming machine. This machine is in continuous operation 8 or more hours per day throughout the work week.

2 - Compliance with dust concentration limits for this type exposure, as specified by the J-M Industrial Health Standards, will be attained. The actual concentration is more than the 5 million particles per cubic foot allowable. Also, the free silica dust around this machine is over the 5% maximum allowable.

VII TIME TO COMPLETE PROJECT

Estimated time to complete project, two months.

VIII RECOMMENDATIONS

The contents of dust at the Shingle forming machine are asbestos fibre, silica, cement and Traprock, a serious exposure.

A disability resulting from this exposure is compensable in the approximate amount of $18,000 for total disability plus litigation and medical examination costs. Existing New Jersey Workman's Compensation Law is contained in Title 34:15.

Therefore, to avoid costly consequences of continuing with inadequate equipm and to secure benefits of Section VI, early consideration for approval of this project is recommended.

APPROVALS

Approval by the Department Superintendent indicates belief in the improvement set forth and requests the Factory Manager's approval.

DEPARTMENT SUPERINTENDENT

Approval by the Industrial Engineering Supervisor certifies the savings and benefits set forth are as represented, and that the proposal is sound by all standards which can be applied.

INDUSTRIAL ENGINEERING SUPERVISOR

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