



October 10, 1968

L.M. Rockett, Toronto 247

R.W. Kirkland, Toronto 247

Trip Report - South Plainfield, N.J. - October 8, 1968

PURPOSE OF TRIP

To resolve the problem of excessive dust in SprayDon Type A.

PRESENT

K. Setterberg - South Plainfield Plant
L. Infante - South Plainfield Plant
S. Ponia - Metropolitan Spray Inc.
D. Kempthorne - Sprayon Research Corp.
D. Little - Donalco Services Ltd.
R.W. Kirkland - Canadian Gypsum Co. Ltd.

SUMMARY

A number of trials were carried out with various combinations of formulation and oil application. It became increasingly evident that a dust free wool could not be produced within the limitations of the Underwriters' specifications. The trials were concluded with a small hand made sample which contained approximately twice the oil presently being applied to the Type A fiber. This appeared to improve the dust condition and K. Setterberg agreed to obtain additional oil nozzles and produce similar high oil samples on a production run by Friday, October 11, 1968. Ponia agreed to test the samples as soon as they are received. Depending on the results of the test Kempthorne will obtain Underwriters' approval for a modified formula.

The main result of the meeting was to place the onus fully on Kempthorne to provide U.S.C. with a formula which when manufactured by U.S.C. will meet the dust requirements of the end user.

DETAILS OF TRIALS

The various test materials were sprayed wet with a Universal blowing machine supplied by Metropolitan Spray Inc. All tests were carried out with SprayDon Type A material.

1. Regular Type A (from normal production run) containing 2.7% oil - i.e. extra oil so that test is just within the Underwriters requirement for ash content. Results - very dusty.
2. Type A with diatomaceous earth removed. Results - very dusty.
3. Type A with 15% asbestos (compared with 30% for regular Type A) and oil applied to asbestos and chemicals only at the point where they enter rotary mixer. (30% asbestos could not be used because screw to mixer would not handle this amount of asbestos.) Results - dust level acceptable.





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4. Same as 3 except diatomaceous earth removed. Result - slightly dustier than 3.
5. Type A with 30% asbestos and approximately 2.7% oil applied with a crude spray at the top of asbestos fluff. Result - dust level unacceptable.
6. Oil poured on unfluffed block of asbestos. Result - oil appeared to soak into block but a check showed penetration was only about 1/16". No test carried out with spray machine.
7. Type A produced by Torrance, California Plant. Result - material blew very dusty and appeared to be dustier than South Plainfield's regular Type A production.
8. Hand sample of regular Type A produced with approximately 2.7% oil. The oil was added to asbestos and dry chemicals prior to mixing asbestos and wool. Result - dust level unacceptable.
9. Hand sample of regular Type A similar to #8 except oil level approximately twice #8. Results - dust level acceptable. However, it is not known how the oil will react when the material is sprayed or what bearing it will have on the fire test.

EWK

EWK/d

cc K. Setterberg, South Plainfield
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