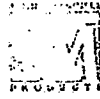


JOHNS-MANVILLE

SALES CORPORATION

PACKINGS AND FRICTION MATERIALS DIVISION

CHESTNUT ST. AT FOURTH • PHILADELPHIA 6, PA. • PHONE: WALNUT 2-5000 • AREA CODE 215



The Mail Building

September 10th 1963

General Electric Company
Salem, Virginia

ATT.: Mr. P. J. Esperti,
Buyer

RE.: JOHNS-MANVILLE BOWDED BRAKE
BLOCK ASSEMBLIES TO YOUR
DWG. 151 A-7932, REV. 3 AND
ALT. NOTICE DATED 11/21/62

Gentlemen:

Since writing you under date of September 3rd, 1963, we are advised by our Waukegan Factory that they are experiencing considerable difficulty in attempting to produce assemblies to your Drawing 7932 having shear test forces in accordance with the figures tabulated in my letter of September 3rd.

Waukegan advises us that the 24 pcs. of part #2 to Drawing 7932 on your order 068-WX-522698, our order PP-50063, that they calculated shear load forces based on the ratio of the Brake Block surface area. These are the forces as tabulated in our letter of September 3rd 1963.

However, when Waukegan attempted to shear test these 7932-2 Blocks, they experienced high rejects due to crushing the edge of the block but in no case did they experience a bond line failure.

A re-examination of their data disclosed that although the surface area of 7932-2 was approximately 50% greater than the surface area of part 2 per your Drawing 7931, the cross section area at the edge of the Block which bears the entire force was about 10% less. Based on a test force of 6,500 lbs. for 7931-2 this works out to be approximately 2,240 lbs. per square inch on the edge. Using 9,000 lbs. for 7932-2, the force on the edge is 3,500 lbs. per square inch. This is more force than our Style #1202 Friction material can reasonably be expected to withstand and as would be expected, the edge of the Block crushed and mushroomed.

PLAINTIFF'S
EXHIBIT

WV-021519

PLAINTIFF'S
EXHIBIT

78636.00

GEWVOCT04-011748

WV-21519

Page #1

Part numbers 7932-1, 4, 5 and 6 are reasonably close in area to their corresponding counterpart numbers on Drawing 7931. Part numbers 7932-2 and 3 are somewhat larger in area. Subject to your approval, we propose to use the same test forces for the 7932 series as are currently being used for 7931. These test forces are as follows and they supersede and cancel those given in my letter of September 3rd.

7932 - 1	4,000 lbs.
- 2	6,000 lbs.
- 3	13,000 lbs.
- 4	15,000 lbs.
- 5	18,000 lbs.
- 6	25,000 lbs.

Will you kindly advise me promptly if the foregoing does not meet with your approval.

Very truly yours

O. BUSCH, District Sales Manager
Packings and Textile Department
