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PLAINTIFF'S EXHIBIT

SH-1847

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BWD HLL  
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Reference: Thermal Insulation

Via phone with Dick Stapleton, Vice President Construction and Technical Services, Johns-Manville, Denver:

1.) Asbestos emissions --

J-M made 300 asbestos emissions analyses covering field fabrication and installation of asbestos containing insulating materials and on only 10-15 occasions were asbestos counts up to 6 or 7.

They developed the practice of posting the results at the job site for awareness of insulation workers, supervision, and job management - also for any OSHA inspectors.

NICA's request for a variance from OSHA standards -- bases (1) not being ready to fulfill medical surveillances and (2) the unsatisfactory relationship between actual emission levels and required work practices was turned down pending OSHA's holding additional hearings on the asbestos standard preparatory to a new standard.

2.) New insulation materials --

J-M are well along on their conversion to asbestos free calcium silicate insulations. Their Manville (N.J.) plant conversion is completed and in satisfactory operation. Long Beach will be on-stream mid-July, and the new facility at Waukegan (which provides greater total capacity than they had for Thermobestos) will be in operation in October.

Apparently the new product has good acceptance with good properties for field fabrication and installation. It is reported to be thermally equivalent or superior to Thermobestos.

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3.) Engineering data --

Insulation Manufacturers Association have extended a grant to the Thermal Conductivity Laboratory at Ohio State to update economic thickness data. Results apparently will have been geared to variations in fuel costs and energy values, and will apparently be used by GSA, Corps of Engineers, Department of the Navy - also Fluor, Braun, etc.

Stapleton will advise me of the principals in his association and at Ohio State who are directing this work.

At an imminent date we will discuss the usefulness to Shell (or perhaps representatives of the Division of Refining) of meeting with the principals so that their work gets the benefit of our overview and our understanding.



R. K. MacIntyre

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