PLAINTIFF'S EXHIBIT
AL-267

FROM JAMES E. HINES
INGOT CASTING DIVISION
ALCOA TECHNICAL CENTER - B

TO DISTRIBUTION

MARIO J. CAPRIO
PURCHASING DEPARTMENT
PITTSBURGH OFFICE - 19

1979 OCTOBER 31

RE: MOLTEN METAL MARINITE USAGE

Tabulated in Table I is the amount of 1219 x 2438-mm (4 x 8-ft) asbestos-containing Molten Metal Marinite sheets reportedly being purchased at each Alcoa ingot plant per year. Although most plants have attempted to reduce their usage of asbestos, there is still a substantial quantity used. The asbestos problem from a health hazard and from the additional costs to Alcoa to comply with OSHA Standards has not diminished. This fact together with Johns-Manville's objective to stop production of Marinite products containing asbestos by the end of 1980 should motivate all plants to make a concentrated effort to evaluate the more promising asbestos-free candidates mentioned below.

To date two products, Marinite I (Johns-Manville) and Pyrotherm B-2 (Pyrotek, Inc.), have been identified by both Alcoa Laboratories and limited plant trials as promising substitutes for regular grade, asbestos Marinite. Marinite I in the as-received form can be used only in non-molten metal contact areas (i.e., trough covers). However, with a simple preheat to approximately 149°C (300°F) to remove atmospheric moisture, it can be used as distributors or floats. An experimental heat treatment to 290°C (550°F) has been scheduled with Johns-Manville. At this exposure temperature, the board has provided good results as basins, troughing, feedboards, and dams. Large plant trials are scheduled initially at Massena, Tennessee and Warrick. Pyrotherm B-2, on the other hand, is supplied in the heat treated condition and can be used as a direct MM Marinite substitute. Pyrotek locations stocking this board are listed in Table III.

In Table II are the trial amounts of 25.4-mm (1-inch) and 50.8-mm (2-inch) sheets requested by the plants, along with the product suggested for evaluation. Some plants have already made these substitutes. They are indicated by asterisks.

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TABLE I

MOLTEN METAL MARINITE USAGE BY PLANT*

	Board Grade and Size						
	Regular Grade					Header Grade	
	12.7 mm (0.5 in)	25.4 mm (1 inch)	BF	50.8 mm (2 inch)	BF	25.4 mm (1 inch)	
Badin		50	1600	100	6400	50	
Davenport		60	1920	-		-	
Lafayette		30 ~100 headers	960	5	320	-	
Massena		78	2496	-		300	
Rockdale		178	5696	225	14400	-	
Tennessee		358	11456	150	9600	100	
Vancouver		-		-		-	
Vernon	12	12 ~50 headers	384	-		-	
Warrick		120	3840	240	15360	1600	51200 BF
Total	12	936		720		2050	66000
			(30,000 BF)		(46500		

*Wenatchee and Point Comfort were not included in this survey.

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TABLE II

TRIAL QUANTITIES OF ASBESTOS-FREE BOARD REQUESTED

	Boards			
	25.4 mm (1 inch)		50.8 mm (2 inch)	
Badin	50	Marinite I or Pyrotherm B-2	100	Pyrotherm B-2
Davenport	10	Marinite I		
Massena	15	Marinite I or Pyrotherm B-2	15	Marinite I
Rockdale	178	Pyrotherm B-2	225	Pyrotherm B-2
Tennessee	5	Pyrotherm B-2	5	Marinite I
Vancouver	3	Marinite I		
Vernon	12	Marinite I*		
Warrick	120	Pyrotherm B-2	240	Marinite I or Pyrotherm B-2*

*Substitutions already in progress

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TABLE III

PYROTEK, INC. LOCATIONS

Plant	Address
Spokane, WA	E. 9601 Montgomery Avenue Spokane, WA 99206 Phone: (501) 926-6211
Carlisle, PA	Box 77, RD 1, Claremont Road Carlisle, PA 17013 Phone: (717) 249-2075
Trenton, IN	Kellwood Drive Trenton, IN 38382 Phone: (901) 855-0104

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It is hoped that each plant makes known their testing so that information can be disseminated to the other locations and the level of activity can be monitored. A frequent updating of the Molten Metal Marinite situation and each plant's progress toward eliminating asbestos will be made. If a plant does not have the recommended asbestos-free candidates on hand or on order, Mr. M. J. Caprio in Pittsburgh Purchasing should be contacted immediately.

Any questions, comments, or additions to the attached would be appreciated. Only through a cooperative effort can asbestos be replaced.

JAMES E. HINES

MARIO J. CAPRIO

JEH/MJC:gih

Attachments - 3

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PLANT METALLURGICAL ENGINEERS

C. T. Barger, Jr. - Badin Wks.
T. F. Arnold - Cleveland Wks.
A. F. Maloit - Corona Wks.
R. J. Stokwisz - Davenport Wks.
D. O. Collins - Lafayette Wks.
D. E. Scott - Lafayette Wks.
M. Scherbak - Massena Oprs.
G. G. Owens - Rockdale Wks.
G. K. Reichelt - Tennessee Oprs.
J. M. Ekenes - Vancouver Oprs.
W. C. Harvey - Vernon Wks.
D. Fleener - Warrick Oprs.
J. B. Gorss - Warrick Oprs.
P. C. Scheble - Warrick Oprs.
J. E. Gunn - Wenatchee Wks.

PLANT PURCHASING

H. A. Barton - Badin Wks.
T. G. Pollak - Cleveland Wks.
Shirley Price - Corona Wks.
R. W. Murphy - Davenport Wks.
R. C. Miessler - Lafayette Wks.
E. R. Werner - Massena Oprs.
J. R. Fry - Rockdale Wks.
J. Taylor - Rockdale Wks.
W. S. Zuber - Tennessee Oprs.
M. D. Wooden - Vancouver Oprs.
J. Heron - Vernon Wks.
T. A. Innes - Warrick Oprs.
D. Lutz - Warrick Oprs.

INFORMATION COPIES TO:

PLANT SUPERINTENDENTS

J. N. Rumble - Badin Wks.
M. A. Gambill - Davenport Wks.
W. K. Dalton - Lafayette Wks.
G. L. McCullough - Massena Oprs.
G. L. Williams - Pt. Comfort Wks.
T. J. Randall - Rockdale Wks.
D. W. Freeman - Tennessee Oprs.-S
D. F. Simonic - Tennessee Oprs.-N
D. E. Luckett - Vancouver Oprs.
M. L. Redhair - Vernon Wks.
A. Pearson - Warrick Oprs.
R. S. Grundhoefer - Warrick Oprs. (Can Reclamation)
E. T. Vanderheyden - Wentachee Wks.

C. J. Cox - 3 WPH
J. W. McIntee - 3 WPH
H. G. Reavis - AB 23
E. L. Rooy - AB 23
H. G. Sakoian - AB 7
A. J. Sartschev - 3 WPH
D. L. Schaeffer - AB 23
J. Damiano - ATC, C
T. W. Lee - ATC, D
R. E. Spear - ATC, C
J. R. Stemler - ATC, C
R. E. Miller/R. G. LaBar - ATC, B

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