PLAINTIFF'S EXHIBIT

BIR-231

3926A

MEMORANDUM

In Reply to _____ *Date* 1/23/76 *From* BBH *To*

Subject ACCELERATED WEATHERING OF COATING ASPHALTS

BB- Mr. Hixon
BBR- Mr. Frazier
BBQ- Mr. Homan
MB- Mr. Clay
MK- Mr. Powers
MS- Mr. Colvin
MJ- Mr. Miller
MP- Mr. Suva
PB- Mr. Koval
PK- Mr. Zinkowski
PS- Mr. Marsh
PJ- Mr. Dickinson
PBL- Mr. Clark
PKL- Mr. Price
PSL- Mr. Potter
PJL- Mr. Sutton

Pacific Division-

Mr. Wood
Mr. Fitzpatrick
Mr. McClung
Mr. McAnulty
Mr. Koopmann
Mr. Costa

Accelerated weather testing of unfilled and filled asphalts, representing the coatings being used by the various mills during mid-1975 have been completed. The tests were run on 28 ±1 mil coatings applied to aluminum panels. The weathering took place in a Model DMC-R Weather-Ometer according to ASTM D 529-62, Cycle A.

Cycles to failure were as follows:

Unfilled Coatings		53% Filled Coatings	
FK	38	FK	71
FB	38	FB	59
FJ	35	FJ	52
FS	33	FS	46
FW	22	FW	35
FO	21	FO	34
FM	16	FM	22

Conclusions:

1. The cycles to failure for all samples run in this comparison were well below what we have experienced during semi-annual testing for the past several years. However, the relative ranking of the various coatings has remained the same.

2. As usual, among the unfilled coatings, FK and FB topped the list, with FJ and FS intermediates in durability, and the Pacific Division coatings failing the soonest.

   Previous experience with Merbon asphalt as represented by the Martinez sample has also resulted in very early failure. Merbon asphalt was formerly identified by Shell as being Persian in origin.

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3. The filled coatings were ranked in the same order as the unfilled, where all of them showed some improvement due to the presence of filler.

4. The asphalt coatings were all generally satisfactory in stain resistance.

PSHoye/rp
Attach.

ASPHALT COATING DURAF ITY - CYCLES TO FAILURE IN AWT

Series #1 Texas Stain	Asphalt Coating	S.P. °F.	Pen 0.1 mm	Unfilled Sample	Unfilled Cycles	53% Filled Sample	53% Filled Cycles
3.5	Perth Amboy	224	17.5	791-1	34	792	52
	Trumbull-Venezuelan			-2	36		
	Average				35		
	Filler						GAF B65
3.5	Charleston	225	17	793-1	38	794	71
	Exxon Venezuelan			-2	38		
	Average				38		
	Filler						FKW Dust
4.0	Martinez	222	19	795-1	16	796	22
	Shell Marbon $FeCl_3$			-2	16		
	Average				16		
	Filler						Fair Oaks
4.0	Portland	232.5	18	797-1	21	798	34
	Shell Iranian $FeCl_3$			-2	22		
	Average				21		
	Filler						Limestone
3.5	Shreveport	227.5	16	799-1	34	800	46
	Arkansas, East Texas			-2	32		
	Average				33		
	Filler						Glenwood
4.0	Wilmington	225	19	801-1	22	802	35
	South California, Cat.			-2	22		
	Average				22		
	Filler						3M Filler
3.5	Norwood	226	18	803-1	38	804	59
	Exxon/Shell Venezuelan			-2	38		
	Average				38		
	Filler						FBW Dust

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1/23/76

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