E.I. DU PONT DE NEMOURS & COMPANY

PIGMENTS DEPARTMENT

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Newport, Delaware
September 26, 1966

"AFFLAIR" - NEWPORT

XOA-8 - CLOSING REPORT

TITLE: Classification of Calcined Product, Batch 28-1.

PURPOSE: This classification was made to remove residual fines and dust from the calcined product and to remove oversize, as is done in current plant operation.

RESULTS: The classification was carried out at the prescribed operating conditions, and the following cuts were made:

Cut	11	21	31
Wt.-Lbs.	1731	1462	239
Cut	16	26	36
Wt.-Lbs.	700	684	65

2431
1462
684
65
4581

The product consisted of the combined 11 and 16 cuts and amounted to 2431 pounds. (51% ?)

Quality was deficient as compared to the same material classified on the machine at the Engineering Test Center. The lot was accepted by Sales, however, as a sample lot despite its being duller and more opaque due to excessive fines.

CONCLUSIONS: The classification systems, both at Newport and at the Engineering Test Center, are two stage classifiers (Hurricane mill plus air cyclone). The second stages at the two locations are of different sizes and have different performance characteristics, and consequently overall system performance cannot be closely matched. In this classification, performance was matched to the

CONCLUSIONS: (Cont'd)

Hurricane mill (oversize control) since two prior classifications had been made to remove undersize.

In future operation, classification conditions will be modified to afford adequate fines removal.

CLOSING REPORT WRITTEN BY: P. G. Reis, Research Division

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