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Newport, Delaware
April 6, 1966

"AFFLAIR" - NEWPORT

XOA-5

TITLE: Mica Classification for NF-128-D

PURPOSE: The purpose of this run is to pre-classify the mica which will be charged to a batch of NF-128-D "Afflair" (Improved Gold) in order to eliminate the fines (estimated - 5 microns) from the mica charge. This batch, when completed, will be used for initial Sales evaluation of this grade. *GOAL - MEP-1037-7*

BACKGROUND: Research has found that the fine particles in the original mica and fine TiO_2 introduced into the "Afflair" during hydrolysis markedly reduces the brilliance of the sparkle of "Afflair" pigments. By pre-classifying the mica feed, a substantial portion of these fines are removed before hydrolysis, making subsequent classification much easier.

The current blend of mica will, after classification, be used in a plant hydrolysis to prepare a batch of improved Gold "Afflair". The hydrolysis cake will be subsequently reclassified by a procedure to be determined, will be calcined and again reclassified before packaging.

NUMBER OF TEST LOTS: One. An estimated six shifts will be required for classification.

STARTING DATE: Modification of the existing classifier adjustments will be required. Mechanical work is expected to start on April 7 and classification is expected to start on April 10.

PROCEDURE: The Hurricane classifier is to be set up with 5 classification decks, the interior curved edges of the blades to be pointing in a direction opposite to the direction of rotation. 35° louver curtains are to be used and the machine is to be run

PROCEDURE: (Continued)

at 3000 rpm. Feed rate is to be between 275 and 350#/hr.
Air flow is to be controlled to give 70% $\pm$ 5% of the feed
in the 2-1 (rejects) fraction.

SAFETY: No unusual operating hazards are involved.

RESPONSIBILITY FOR CLOSING REPORT: P. G. Reis

APPROVALS:

H. H. George / g
Research Supervisor

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Production Supervisor

/tmj