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Technical File

Newport, Delaware
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H. H. GYORGY
NEWPORT

DRYING TESTS - GAMMA QUINACRIDONE

STRONG-SCOTT "TURBULIZER"

The Strong-Scott "Turbulizer" is not satisfactory in its current state of development for drying crude quinacridone pigments. In recent tests in Minneapolis, it was ultimately possible to reduce pigment moisture content within specification in two passes through the machine, but the complex nature of a stacked system makes the unit unattractive from both an operating and an economic standpoint.

The attached report from Strong-Scott describes in detail the problems encountered. On the basis of these tests, there is no hope of providing adequate drying in a single unit. The two-stage unit required introduces unattractive operating complexities, such as an intermediate collection system between stages, dual controls and the like.

In no case did the tests provide information about the sustained reliability of the unit, and I have serious reservations in this area based on the machine's erratic behavior pattern when processing wet cake. The power requirement surged even under the most favorable conditions due to cyclic build-up and discharge of caked material from the chamber walls. This could be quite troublesome in a sustained run.

The "Turbulizer" has potential use in pigment drying applications, but not in its present form. Further development work is required to adapt it for process cake handling. I, therefore, recommend that we eliminate the "Turbulizer" from consideration for Newport's quinacridone drying application.

A. M. Auster

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AMA/tmj
attach.

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