

THE W. S. TYLER COMPANY
3615 Superior Avenue
Cleveland, Ohio 44114

June 8, 1964

E. I. DuPont DeNemours and Co.
Newport Plant
Wilmington, Del.

ATTENTION: Mr. David Watson
Technical Section.

Dear Mr. Watson:

It was indeed our pleasure having Messrs. Ed Klenke, Don Bowers and yourself visit us on May 26th to conduct further screening tests on the sample of Afflair Pigment as reported under Test No. 16-910, Sub-Tests Nos. 1 to 4, copies of which are enclosed and from our understanding of our conversation of June 4th, your primary interest lies in the fourth and last test conducted at a rate of 200 pounds per hour to a 3' wide x 10' long, 2-surface Hum-mer Screen-recovering the 40x120 mesh product at the rate of 138 pounds per hour or 68.8% of the total feed, analyzing 99.1% -40 mesh and 94.4% +100 mesh.

Actually, the 4th test is similar to Test No. 3 with the exception of the feed rate which in the 3rd test was only 100 pounds per hour, the product analyzing almost the same but at a slightly less percentage of recovery which we are sure Mr. David Irwin had explained rather thoroughly to you at the time of your visit as well as explaining to you why the separations are so difficult when considering the bulk density of the material.

On the basis of these tests and your preference for the results of Tests Nos. 3 and 4, we are pleased to enclose our proposal on one 3' x 10' long, 2-surface Hum-mer Screen as shown on drawings Nos. H-1275, B-5243 and B-9631 - all of which should be installed at a 30 degree angle as indicated by the tests. The first two drawings indicate the primary installation dimensions of the 3' x 10' 2-surface Hum-mer Screen with the steel plate balance gate feeder with extension which we suggest be used to help distribute the material across the entire width of the screen to take maximum use of the available screening area. Drawing B-9631 indicates the 3' x 10' collecting fines hopper that should be attached to the lower flanges of the Hum-mer body to act as a central collecting point for the -120 mesh fines.

You will also note the four 4" O.D. air suction pipes running laterally across the width of the hopper with the bottom side of each pipe having a full width 3/8" slotted opening extending inside the hopper with the pipes connected to a common header on each side of the screen and air under semi-negative pressure can be drawn equally out of each end of the pipe, thereby creating a natural downdraft of air through the screen - picking up and eliminating from the area of the screen all extreme fines and airfloat

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particles with the secondary advantage that this natural down-draft will aid in keeping the material closer to the screening surface with a consequent increase in efficiency.

In view of the low density of the material, it would be difficult to estimate the amount of air required per pipe but for estimating purposes, we should imagine a fan capacity of 500 CFM would be sufficient and that you also make arrangements for an adjustable sleeve opening in the main manifold to the dust collecting system to bleed in outside air for a finer adjustment as to the amount of air drawn down through the screen.

We sincerely trust this provides you with the information required and know that our Mr. John Dubbs would be happy to discuss in further detail with you the contents of our proposal.

Very truly yours,

THE W. S. TYLER COMPANY

Stephen J. Janovac/Signed
Application Engineer

SJJ:JMS
Quo. (3)
T 16-910 (3); SK-1760.

CC: Mr. Ed Klenke
E.I. DuPont DeNemours and Co.
Pigments Division
256 Vanderpool St.
Newark, N. J.

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PROPOSAL FOR E. I. DuPont DeNemours andCo.

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		<u>Price</u>
One	(Drawings H-1275; B-5243; B-9631) 30 degree Angle 3' wide x 10' long, 2-surface, Type 38 Hum-mer electric Vibrating Screen equipped with V-16 vibrators, complete with steel plate balance gate feeder, dust covers and fines collecting hopper for bolting to the lower flanges of the Hum-mer body - the hopper complete with round discharge opening and four 4" O.D. air suction pipes, the unit complete with gaskets for dustproofingPrice each	\$3,518.60
One	Model 218-D Tyler Thermionic Power Unit arranged for operation off of one phase of a 220 volt, 60 cycle line ONLY with capacity to power two V-16 vibratorsPrice each	315.00
	and	
One	5 KVA Dry Type, Air Cooled Transformer to reduce the prevailing 400 volt, 60 cycle current to 220/60 for Power Unit operation. Price each	116.45

SCREEN SECTIONS

Two	3' x 5' sections of 32 mesh Stainless Steel Bolting Cloth with backing section of 4 mesh Rolled Tinned Mill screen cloth - all in same set of reinforced edges Price each \$37.15	74.30
Two	3' x 5' sections of 94 mesh Stainless Steel Bolting Cloth with backing section of 12 mesh Rolled Tinned Mill screen cloth - both in same set of reinforced edges.....Price each \$69.50	<u>139.00</u>

TOTAL PRICE F.O.B. MENTOR, OHIO.....\$4,163.35

Transformer equipment will be invoiced at the price prevailing at
time of shipment.

Shipment: 6 weeks from receipt of order

Terms: 30 days net.

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