

October 29, 1984

cc: R. Johnson
J. A. Stretanski
F. F. Loffelman

TO: H. C. Gaffney

FROM: J. F. Daly

SUBJECT: MONTHLY REPORT FOR OCTOBER 1984

A. TECHNICAL PROJECTS

1. EXTRUDATES

Draft of final sales brochure has been completed.
The Extruder is now running routinely 8 - 12 hours/
day, 5-6 days/ week.
The ten - inch Extruder has been ordered.
All ancillary equipment for smoother operation is on
order.

2. PPG

Lab work is continuing to optimize the solids content
for producing 2-1-0 form. We hope to be able to try in
the plant early in November.

A meeting has been tentatively scheduled for 11/19/84
in East Point, Ga.

We now have a sample of Lead Cyanamid that PPG considers
suitable. We are looking at having CRD do preliminary
work on process development.

3. PACKARD ELECTRIC

We now have the formulation Packard wishes us to use.
Lab work will begin in November.

4. LECTRO 105 AND 65

These two new offerings from Associated Lead have been
analyzed. Our best estimate of their compositions is:

Lectro 65: A Monobasic Sulfo - Phthalate with a ratio
of 26% Sulfate to 74% Phthalate.

Lectro 105: A blend of 43% Tribase EXL, 52% Dythal,
and 5% Calcium Carbonate.

Based on this information, we are now attempting to de-
velop similar stabilizers.

CYWI 1-000107

5. TRIANGLE PWC - TSC - 22

A sample of material plugging Triangle's Extruder screens was analyzed and found to be predominantly Lead Stabilizer. No further conclusions could be drawn because of a lack of information at Triangle.

6. LYNN - TSC-20

Lynn found that Cyastab 949 darkened more than Lectro 90 in their formulation after 100 minutes at 220°C.

Using Lynn's formulation we developed a stabilizer which equals the performance of Lectro 90. This stabilizer is a blend of 78% 918, 17% Calcium Carbonate and 5% Barium Stearate.

See Table I for results.

7. CAPITAL WIRE - TSC -12

A stabilizer was found to replace Envirostab 1160 across - the-board in Capital's formulations.

Initially, three candidates were screened in Capital's 1050 THH compound. The best candidate, Cyastab 918, was then compared to Envirostab 1160 in the other three formulations provided by the customer.

Test results are shown in Tables II and III.

8. PARTICLE SIZE MEASUREMENT

We have had a demonstration in our lab of the Horiba CAPA-500 particle size distribution instrument. It appears satisfactory for our purposes. We will look at other instruments before making a recommendation, however.

B. PLANT GENERAL

1. COMPUTER

The air pallet control program has been debugged and is now functioning.

A program to keep track of payment of freight bills has been written and is ready for testing.

C. COMPLAINTS

There was one additional complaint submitted this month (PA 84-24 Pantasote). This referred to the black specks in the 908 shipped in May, 1984. It was justified.

CYWI 1-000108

C. COMPLAINTS (continued)

The YTD total is now 12, broken down as follows:

Quality	3
Shipping -fault of trucker	3
Not justified	5
Development	1

D. TRIPS AND CUSTOMER CONTACT

1. TRIPS

The writer attended a meeting of the LIA Oxides and Chemicals Committee at the O'Hare Hilton.

2. CUSTOMER CONTACT - TELEPHONE

A. Called Jim Graham, PPG, East Point, Ga., to discuss the status of development work in Cyastab 40 and Lead Cyanamid.

B. Bob Slapsak, Packard Electric, Warren, Oh., called with the formulation to be used in the project for them.

C. Called Bernie Tortorice, Triangle PWC, Jewett City, Ct. with results of TSC - .22.

D. Art Arena, Dynamit Nobel, Rockleigh, N, J. called to request a recommendation for a replacement for Lectro 60.



J. F. Daly

CYWI 1-000109

TABLE 1

SAMPLE NO.	1	2	3	4	5	6	7
STABILIZER	LECTRO 949 90						
918, %	-	-	78	72	72	78	72
ATOMITE, %	-	-	17	22	21	16	-
IMSIL, %	-	-	-	-	-	-	21
BARIUM ST., %	-	-	5	6	6	5	6
EPON, %	-	-	-	-	1	1	1
OVEN STABILITY, 220°C							
TIME TO DARKEN	20	20	20	20	20	20	20
COLOR AT 100, *	2	4	2	4	3	1	2
BRABENDER STABILITY, 100RPM 200°C MINUTES	176		177			115	150

* LOWEST NUMBER = LIGHTEST COLOR

CYWI 1-000110

N14695.01

TABLE II

INITIAL SCREENING - 105° THH

	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>
Stabilizer	Envirostab 1160	918	918 & Barium St.	XW Dryblend
PHR	7.9	7.1	7.1	7.9
Oven Stability, 200°C, Min.	30	30	10	30
Brabender Stability, minutes	117	113	104.5	114.5
Brabender Torque, Meter-Grams	650	550	600	650

TABLE III

<u>60° TW COMPOUND</u>	<u>ENVIROSTAB 1160</u>	<u>CYASTAB 918</u>
Stabilizer level, PHR	5.7	5.1
Oven stability at 200°C, Min.	45	45
Brabender Stability, Min	136	109
Brabender Torque, Meter- Gms	650	650
 <u>75° THW COMPOUND</u>		
Stabilizer level, PHR	5.7	5.1
Oven Stability at 200°C, Min.	60	60
Brabender Stability, Min.	150	105
Brabender Torque, Meter- Gms	550	700
 <u>105° THH COMPOUND</u>		
Stabilizer level, PHR	7.9	7.1
Oven Stability at 200°C, Min.	30	30
Brabender Stability, Min	117	113
Brabender Torque, Meter -Gms	650	550
 <u>JACKET CAP 1000 COMPOUND</u>		
Stabilizer level, PHR	5	4.5
Oven Stability at 200°C, Min.	60	60
Brabender Stability, Min.	160	130
Brabender Torque, Meter- Gms	650	650