

To: B. Coopersmith

Date: February 28, 1984

Location: Wayne

Copy to: R. F. Anderson - NA
J. F. Daly - MG
J. S. Druzbacky - BB
R. L. Johnson - MG
F. F. Loffelman - NA
S. M. Lustig - NA
C. G. Neumann - NA

From: H. C. Gaffney

Location: Chicago Plant

Extension:

Subject: MONTHLY REPORT

Reference:

HIGHLIGHTS

Lead price levels off at 24¢.

Elastomer inventories transferred to this location.

I. SAFETY & HEALTH

- A. The plant has operated 4458 days (thru 2/27) without a disabling injury.
- B. There were no recordable injuries during this period.
Y.T.D. I. E. A. is 0.0
- C. The latest blood lead levels for 23 employees (all but office personnel) are:

	<u>FEB.</u>	<u>LAST</u>	<u>6 MOS. AVERAGE</u>
60 ug Pb/100 grams blood or above	0	0	0
50-59	3	5	2
40-49	13	11	13
below 40	7	7	8
% below 50	87	78	91
average	40	40	40

* Bob Johnson, Jim Daly - Please note:

We at the plant level, must reassign our priorities in the area of blood leads. We must get everyone below 50 by the end of the 1st. quarter.

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II. PRODUCTION & SHIPMENTS

	<u>Actual</u> <u>Feb.</u>	<u>Est.</u> <u>March</u>	<u>Est.</u> <u>April</u>
% of budgeted rate			
Stabilizers	116	104	94
Litharge	122	112	99
Plant	114	110	96
Shipment k pounds			
Stabilizers	523	513	406
Litharge	30	20	20

III. INVENTORY

	<u>End of Jan.</u>		<u>End of Feb.</u>		<u>End of March</u>		<u>End of April</u>	
	<u>k\$</u>	<u>DOS</u>	<u>k\$</u>	<u>DOS</u>	<u>k\$</u>	<u>DOS</u>	<u>k\$</u>	<u>DOS</u>
Finished goods	272	34	305	35	290	38	280	33
Support goods	219	28	198	23	200	26	180	21
Plant totals	491	62	503	58	490	64	460	54

IV. TECHNICAL

A. PPG

At the urging of PPG we have made an effort to improve the Hegman grind of Cyastab 40. As a result, oil absorption values increased to unacceptable levels.

A meeting was held with PPG research and plant personnel at their Allison Park, Pa., Research Center in an effort to resolve the question of exactly what PPG needs and what we can supply. Ultimately, PPG needs material that will pass their salt spray test. Since this isn't a practical QC test, they have tried to find other parameters which would correlate with salt spray. At this point they believe that oil absorption and chemical composition (ratio of $4\text{PbCO}_3 \cdot 2\text{Pb}(\text{OH})_2 \cdot \text{PbO}$ to $2\text{PbCO}_3 \cdot \text{Pb}(\text{OH})_2$) affect salt spray, but the data seen thus far is far from conclusive. They therefore want material with a maximum oil absorption of 15 and a composition of at least 68% $4\text{PbCO}_3 \cdot 2\text{Pb}(\text{OH})_2 \cdot \text{PbO}$. Since Hegman grind does not affect product quality, only production time, they are willing to relax the grind specification to a 4A minimum.

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V. TECHNICAL (continued)

A. PPG (continued)

We also discussed setting up a joint research project to study the effect of various stabilizer properties on salt spray. Cyanamid will provide samples of stabilizer with as wide a variation in oil absorption, chemical composition, etc. as possible, and PPG will run salt spray and x-ray crystallography (for composition).

B. TENNECO

We have established that Cyastab 523-0 supplied 1 year ago to Tenneco has the same electrical properties as the material they are complaining about, and the difference between Cyastab 523-0 and Tribase XL - oiled is very slight. Accordingly, their complaint is not justified.

We will need considerably more information about Tenneco's application before we can do anything about developing a stabilizer that will perform in this specific application.

C. NAP

We have been unable to detect the large size particles NAP claims are in our Cyastab 15. We have checked production samples, returned samples and material returned by NAP. All retains are within our shipping specifications.

We once again are reviewing this problem with all plant personnel, are inspecting the equipment and log sheets and tightening up our sampling technique.

For the next shipment to NAP we will sample each bag packed, make up composites and analyze for particle size within the limit of our laboratory's capabilities.

We have worked with vendors as to the cost of automatic samplers. Cost - approximately \$5k/ Jim Daly. I will visit NAP after the next shipment.

D. The magnetic separator has been installed in the blender packer train which will now assure all lead phthalates and all blends of any stabilizers are essentially free of magnetic particles.

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V. GENERAL

- A. Lead price has leveled off at 24¢/lb. With the battery demand tapering off there will be pressure to let the price slip. However, with Asarco idling their Glover smelter for two months (3/1 - 5/1/84) and labor contracts coming up with St. Joe & Amax there may be enough pressure to hold at 24¢.
- B. The MSDGC sampled the plant effluent the week of 2/20. Results of the testing of their first split sample at an out-side lab indicates we may receive a citation for our effluent contains higher than the 0.5ppm lead allowed.

C. PERSONNEL

Salary - 12 (included 5 working non- exempt working supervisors)
Hourly - 13

The plant observed 2/20 as a holiday.

- D. Transfer of the Elastomers inventory to this location has proceeded very smoothly.

E. Extrudate

15,000 lbs. of the 4mm extrudate has been sent to Cerock for trial.

A second 40k lbs. shipment of lead stabilizers has been sent to Envirostrand for use in their extrusion process.

Samples of the stabilizer/ wax mix have been sent to Zenith- Nichols for trial in their equipment.

H. C. Gaffney

H. C. Gaffney (H)

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