

Interoffice Communication

To G. C. Bottoms - Houston
From J. A. DeBernardi
Date October 2, 1980
Subject Synergisms - VCM Expansion and New PVC Plant

Following are comments on the subject in response to G. J. Fryar's letter of September 30.

VCM Storage Capacity

We believe that the additional VCM storage capacity provided for in the expansion AFE is necessary even though the new PVC Plant is constructed at Lake Charles. Although the PVC Plant offers additional flexibility related to VCM inventory problems we have faced in the past, it cannot be considered the complete solution to these problems. In fact, the design concepts being used related to the PVC Plant can present some new problems of reliability we have not faced to this point. In the design two fluid bed dryers will be available and only one slurry stripping tower is included. A dryer failure would reduce plant rates to half until solved, and a stripping tower problem could result in a complete PVC production outage until rectified.

Tank car logistics problems, perhaps somewhat improved because fewer will be moved from the plant, still remain a threat to VCM inventory control at the VCM Plant on a day-to-day basis as well as during plant turnaround periods. Should circumstances occur at tank car using operations which affect railcar turnaround cycles back to the VCM Plant, inventory control problems will occur as in the past. In order to cover VCM shortages during VCM Plant turnaround periods, the tank car logistics problems will be worsened since additional tank cars will be required to move to and from outside supplier plants during these periods.

The expanded capacity at the VCM Plant indicates the need for buffer storage capacity to be provided in the overall system. The installation of the new PVC Plant tends to moderate somewhat this need, but does not eliminate it. The "domino" affect of one operating unit upon another is still with us in this case and provisions need to be made to minimize this situation. Although there are other methods that could be used to provide a storage buffer in our VCM system, we believe the solution used in the expansion design is the safest and most cost affective method available.

VCM Loading

The original concept of the expansion project required that the entire expanded plant production be moved by tank car to PVC Plant locations. In order to assure that these tank car loading requirements could be met, the planned loading week was expanded from 5 days per week to 7 days per week. Two additional loading spots were added to allow the potential for 20 cars per day to

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be loaded thereby providing catch-up ability should tank car availability slow required loading or pre-shipment of cars be necessary for scheduling reasons.

The addition of the PVC Plant to the project does provide an alternate to additional loading spots, assuming VCM storage capacity is added to buffer inventory problems. The possibility of transferring the equivalent of five tank cars per day of VCM to the PVC Plant by pipeline should allow the existing tank car loading facilities to handle expanded plant needs, as well as provide for catch-up loading when necessary. The deletion of the two additional VCM tank car loading stations should present a minimal risk to the project and the plant would support this action.

It would appear that pipeline delivery to a new PVC Plant in Lake Charles of an amount of VCM equivalent to the expansion size would eliminate the need for additional tank cars. However, it should be noted that 100-150 MM lbs. per year of plant production has been moved by ship and barge from the plant in the past. After expansion this material will need to be handled by railcar to PVC producing locations. Our feel is that the number of railcar additions to the VCM fleet can be reduced because of the PVC Plant being located in Lake Charles. Evaluation of this situation would need to be accomplished by Supply and Transportation in order to quantify its affect on the VCM expansion project.

The impact of staggered start-up dates on storage capacity or loading facilities does not appear to be significant. However, there could be some impact on additional railcar needs. The expansion project anticipates a total VCM production in the start-up year of 670 MM lbs. matching our present capacity. Therefore, the difference should be movement of this material completely by railcar to the PVC Plants with no export shipments. This fact coupled with the projected need for additional VCM into the system to supply PVC needs may strain available tank car capacity. From a construction standpoint related to spheres this production quantity tends to allow the construction of additional storage capacity to be completed after the expansion is brought on line.



J. A. DeBernardi

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CC: JWW-JGC

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RJ

Interoffice Communication

To Tom Grumbles - Houston
From J. A. DeBernardi
Date October 2, 1980
Subject Mortality Study Information

Attached you will find the information requested in your letter of August 28, 1980 for VCM Plant permanent and temporary employees. As we discussed by phone, this information contains only permanent employees and temporary employees leading to permanent status. Casual employees are not included.

A handwritten signature in cursive script, appearing to read "J. A. DeBernardi".

J. A. DeBernardi

is
CC w/o enc:
RDG-REL
Dr. Whetstone
Dr. Massard

SUPERVISOR (Name) C. H. Landon

<u>Employee Name</u> <u>First, Initial, Last</u>	<u>Birthplace</u> <u>City, State</u>	<u>Mother's Name</u> <u>First, Initial, Last</u>	<u>Father's Name</u> <u>First, Initial, Last</u>
500-12-3377 Clarence H. Landon	Kansas City, MO	Ella B. Landon	Kirkwood W. Landon
439-54-3368 John A. Puerta	DeQuincy, LA	Vernie M. Bankens Puerta	John A. Puerta
439-58-4321 Richard T. Buller	Iowa, LA	Mary L. Buller	Charlie Buller
438-78-7569 Jimmie Morris	Lake Charles, LA	Cora Morris	Val Morris
438-74-1350 Linda J. Barron	Houston, TX	Roberta Montgomery Jenkins	James O. Jenkins
436-52-9869 Ronald E. Fox	Mangham, LA	Myrtic C. Fox	Joseph H. Fox
457-74-9740 Frank D. Broxton	Fenton, LA	Mamie Broxton	Henry Broxton
437-76-5915 Robert Handy	Lake Charles, LA	Linny Handy	Robert Handy
434-64-7185 Asa I. Hoffpauir	Walla Walla, Washington	Marcella E. Hoffpauir	Asa I. Hoffpauir, Sr.

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SUPERVISOR (Name) Kenneth C. Cash

Employee Name First, Initial, Last	Birthplace City, State	Mother's Name First, Initial, Last	Father's Name First, Initial, Last
430-76-6742 Kenneth C. Cash	Malvern, AR	Oma L. Cash	Cecil R. Cash
437-26-0332 Elwood H. Gould, Sr.	Tunica, MS	Zelma A. Gould	Elwood H. Gould
438-50-5374 Robert L. Trahan, Jr.	Hackberry, LA	Gladys M. Trahan	Robert L. Trahan, Sr.
439-52-6470 James A. Whitmire	Vidor, TX	Alice B. Whitmire	Fletcher Whitmire
438-82-4951 Ivory Alexander, Jr.	Lake Charles, LA	Marion Alexander	Ivory Alexander, Sr.
268-38-2667 Thomas M. Cholley	Canton, OH	Julia M. Cholley	Marion J. Cholley
437-68-5261 Marion H. Fontenot	Lake Charles, LA	Elizabeth M. Guillory	Stagg H. Fontenot
464-82-7490 Bobby G. Wilburn	Sinton, TX	Ruby A. Wilburn	Walter L. Wilburn
285-36-3387 Renia Carbajal	Opelousas, LA	Holise Guillory	Joseph Lemelle

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SUPERVISOR (Name) Charlie Buller

<u>Employee Name</u> <u>First, Initial, Last</u>	<u>Birthplace</u> <u>City, State</u>	<u>Mother's Name</u> <u>First, Initial, Last</u>	<u>Father's Name</u> <u>First, Initial, Last</u>
436-42-8183 Charlie Buller, Jr.	Iowa, LA	Mary L. Buller	Charlie Buller
422-58-9155 Daniel J. Ross	Minneapolis, MN	Margret A. Ross	Everett W. Ross
175-32-2870 David L. Lonkowski	McKeesport, PA	Mildred S. Lonkowski	James J. Lonkowski
435-60-8693 Michael J. Fogleman	Crowley, LA	Deauty Fogleman	C. J. Fogleman
452-78-5010 Ronald J. Young	Lake Charles, LA	Lena Young	Nelson Young
437-76-5018 Billy E. Bauer	DeQuincy, LA	Mildred I. Bauer	William E. Bauer
225-40-9409 Luther C. Riley	Hayes, VA	Ruby B. Riley	Luther T. Riley
436-74-6249 Raymond J. Badolato	Lake Charles, LA	Madeline L. Badolato	Matthew J. Badolato
436-56-0627 Raymond A. Martin	Thornwell, LA	Zula Martin	Gussie Martin

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SUPERVISOR (Name) Paul L. Fetzer

Employee Name First, Initial, Last	Birthplace City, State	Mother's Name First, Initial, Last	Father's Name First, Initial, Last
444-38-4450 Paul L. Fetzer	Helena, OK	Ruth M. Fetzer	Dale C. Fetzer
433-82-5048 George M. Ben	Lake Charles, LA	Rose M. Ben	Anatole Ben
433-46-8677 Bruce B. Brown	Leesville, LA	Willie M. Brown	Austin Brown
433-52-2951 James C. Como	Sulphur, LA	Lucia E. Como	Clarence Como
434-58-5592 Stephen W. Cooper	Lake Charles, LA	Verna E. Cooper	Floyd L. Cooper
437-68-5050 Robert D. S. Crowe	New Orleans, LA	Nancy A. Crowe	Marvin W. Crowe
433-32-3300 Davis J. Farris	Sulphur, LA	Carrie L. Farris	Nick M. Farris
435-44-6315 Gary A. Gray	Lake Charles, LA	Carrie L. Gray	Fernie E. Gray
433-56-2624 Patrick J. Potier	Cecelia, LA	Mable Potier	George Potier
514-32-4525 Homer L. Hackett	Ottawa, KA	Mable E. Hackett	Milo R. Hackett

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SUPERVISOR (Name) H. O. Adkison

Employee Name First, Initial, Last	Birthplace City, State	Mother's Name First, Initial, Last	Father's Name First, Initial, Last
439-44-6467 Berl T. Hooper	Groveton, TX	Mary L. Hooper	James S. Hooper
459-60-0330 Garland L. Linscombe	Crowley, LA	Denabola V. Linscombe	Hance M. Linscombe
434-54-9237 Larry B. Thompson	Starks, LA	Mythe Thompson	Green T. Thompson
439-60-9102 Kenneth W. Vincent	Orange, TX	Loula Young	Jr. Vincent
436-74-6766 Henry C. Monticello	Lake Charles, LA	Minnie E. Monticello	Angello J. Monticello
436-52-9727 Larry M. Ogea	Gillis, LA	Audry Ogea	Alfred T. Ogea
437-22-1379 Charles G. Parker	Slagle, LA	Nelva C. Parker	Steve Parker
437-68-5967 Arnold L. Dartez	DeRidder, LA	Mary L. Dartez	Joseph N. Dartez
435-60-8785 Joseph N. Fontenot, Jr.	Oberlin, LA	Hazel B. Fontenot	Nelson J. Fontenot, Sr.

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SUPERVISOR (Name) H. O. Adkison

Employee Name First, Initial, Last	Birthplace City, State	Mother's Name First, Initial, Last	Father's Name First, Initial, Last
434-46-4788 Joseph D.L. Vincent	Sulphur, LA	Christine C. Vincent	Tearence Vincent
434-20-2968 John M. Doucet	Evangeline, LA	Mary G. Doucet	John Philibert Doucet
435-22-1162 Leon E. Cole	Pitkin, LA	Janie A. Cole	Oliver N. Cole
437-70-1718 Richard H. Lee, Jr.	Lake Charles, LA	Elaine M. Lee	Richard H. Lee, Sr.
433-50-2680 Bobby J. Landers	Wewoka, OK	Lena Jones	Clarence Austin Jones
435-32-4227 Nelson Trent	Welsh, LA	Susie Trent	George Trent
436-42-8545 Robert S. Shirley, Jr.	DeRidder, LA	Marguerite Shirley	Robert S. Shirley, Sr.
461-64-6319 Johnny Ray Burk, Sr.	Kountze, TX	Minnie M. Burk	Archie G. Burk
437-68-7405 Joseph Adams, Jr.	Lafayette, LA	Mildred M. Adams	Joseph Adams, Sr.
443-26-1609 Arvel L. Feemster	Shawnee, OK	Nannie E. Feemster	Albert C. Feemster
457-52-8872 Freddie Guillory	Mallatte, LA	Lillian Guillory	Melvin Guillory