

TO Distribution

AT

DATE June 27, 1977

FROM P. Scheiner/L. Schappell

AT Burlington

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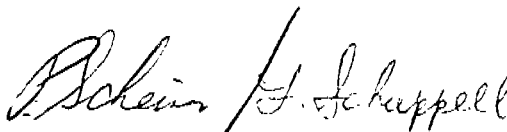
SUBJECT RESULTS OF STEAMING TESTS ON 0565 LATEX
ESR 499 - LOP 1155-1

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The attached information summarizes the results of 0565 steam heating trials.

The work demonstrates that 0565 can be steam stripped, to 140°F, to reach residual VCM levels below 2,000 ppm. This level was achieved in significantly less time than was necessary during nitrogen sparge trials conducted at lower temperatures. Filterability of the steam stripped material was not affected. Conclusions and data tabulation are attached.

The next step in the program will be a similar evaluation of steaming on DHW-80 products, 1730 and 1742. Consecutive batch trials will ultimately be necessary to determine any effect on finished product quality and processing.



P. Scheiner/L. Schappell

PS/LS/ib
Attachment

RESULTS OF STEAMING TESTS ON 0565 LATEX
ESR - 499 LOP 1155-1
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CONCLUSIONS

1. Latex temperatures as high as 142°F. were obtained by direct steaming of latex without affecting filterability.
2. Direct steaming, during the recovery cycle (after 10" HG Vac), does not adversely affect the filterability of 0565 latex.
3. Initiation of steaming in the middle of the recovery cycle reduced the total cycle time necessary to reach required VCM levels.
4. VCM levels of less than 2000 ppm were consistently reached in less than 3 hours stripping time without the use of nitrogen sparge.
5. Stripping temperatures of 140°F. yielded residual VCM levels of approximately 500 ppm without the use of nitrogen sparge. Levels as low as 120 ppm were reached.
6. The dilution effect of steaming resulted in an average % solids reduction of 2.5% (typically 43% to 40.5%).

0565 STEAM HEATING RUNS

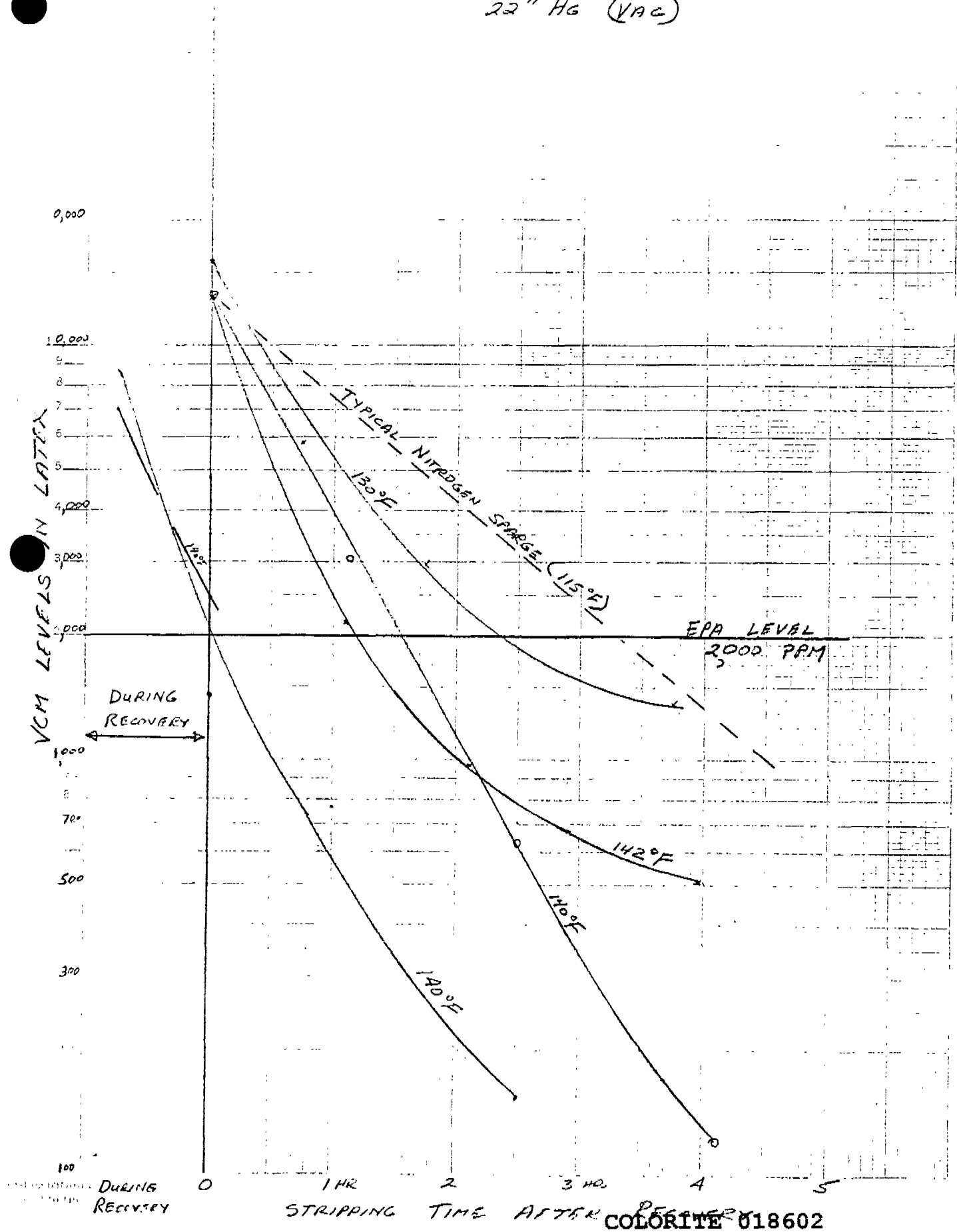
<u>DATE</u>	<u>STRIPPING TEMPERATURES</u>			<u>STEAMING TIME (MINUTES)</u>	<u>LEAF FILTRATION % MOISTURE</u>		<u>VINYL CHLORIDE LEVELS</u>				<u>COMMENTS</u>
	<u>AFTER STEAM</u>	<u>BEFORE STEAM</u>	<u>ΔT (°F)</u>		<u>BEFORE STEAM</u>	<u>AFTER STEAM</u>	<u>BEFORE STEAM</u>	<u>AT RECOVERY</u>	<u>AFTER STEAM</u>	<u>VCM LEVEL @ TIME AFTER RECOVERY</u>	
6/20/77	130	110	20	45	27.2	27.2	15,950	15,950	5,840	2980 @ 1HR; 1370 @ 3 HRS.	STEAM AFTER RECOVERY.
6/21/77	142	114	28	70	27.3	26.3	13,000	13,000	2,140	970 @ 1HR; 510 @ 2-3/4HRS.	TOWER STEAMED DURING RECOVER STEAM AFTER RECOVERY.
6/22/77	140	113	27	70	25.9	25.5	13,350	13,350	3,040	630 @ 1-1/3HRS; 120 @ 3HRS.	STEAM AFTER RECOVERY.
6/23/77	140	119	21	50	25.3	23.7	8,664	1,427	1,427	761 @ 1HR; 152 @ 2-1/2HRS.	BEGIN STEAMING @ 14"Hg; 140° @ 20" Hg.
6/24/77	140	125	15	50	32.9	30.8	6,986	2,451	2,451	*2322 @ 1HR;*1421 @ 3HRS.	BEGIN STEAMING @ 11"Hg, 140° REACHED 10 MI AFTER 20"Hg, EVACUATION HEADER PLUGGED

COLORITE 018601

FIGURE 1

0565 STEAM STRIPPING CURVES

22" HG (VAC)



COLORITE 018602

To: Recd. Operator and Supervisor

From: J. A. Matthei

Sub: Sampling Master Mix Tank.

Supplement to H.O.P. #C-6

June 22, 1977

C.E. R.D. Richards

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R.S. Cole

- 1- Circulate for one hour through filter.
- 2- Use new sample arrangement located after the filter.
- 3- Connect sample cylinder in quick couplings and connect ground wire. (Wear air mask while connecting)
- 4- Open sample cylinder valves.
- 5- Open sample line valves before and after the filter.
- 6- Throttle valve in circulating line about half way. Pressure differential should increase to about 50 PSI across throttled valve.
- 7- Make sure flow is observed in bullseye flow indicator.
- 8- Allow monomer to flow through the cylinder for 1 to 2 minutes.
- 9- Close valves in sample line.
- 10- Close valves on sample cylinder.
- 11- Open throttling valve.
- 12- Disconnect sample cylinder. (Wear air mask while disconnecting)
- 13- Circulate through filter for another hour and repeat sampling procedure.
- 14- Results of both samples must be within 5%, and the average of the two results is the percent actually used. (determined by laboratory). If results are not within 5%, circulate through filter for another hour and resample.
- 15- It is important that filters are not plugged during circulation to the extent proper mixing will not occur. When pump pressure increases to 140 PSI this should be changed

COLORITE 018603