

TO Distribution
FROM P. Scheiner
SUBJECT MEETING NOTES - VESSEL OPENING - BURLINGTON
ESR - 1002

AT Burlington

DATE January 13, 1976

COPY TO P. Bogart
D. C. Coldiron
J. K. Jacob
W. Miringoff
E. V. Schenke
C. G. Thompson
ESR File

A meeting was held on January 12, 1977 in Burlington to establish the methods of meeting EPA requirements for equipment openings. Attending the meeting were the following:

P. R. Scarito
A. C. Siegel
R. Cole
F. W. Kanzler
R. D. Richards

J. P. Sandstedt
J. W. Poarch
E. Schwartz
P. Scheiner

The discussions were limited to equipment other than reactors since a separate EPA requirement applies to reactors.

The water fill method of displacing vapors from process vessels will not be used extensively since it would create a need for excessive feed storage for the new water stripper. The Suspension and Dispersion strippers, in particular, would require processing of a total of approximately 64,000 gallons of water should the water fill technique be utilized. (Rhone Poulenc strippers and recovery tanks would require an additional 45,000 gallons of capacity). Hence, it was decided that all strippers will utilize steaming to a recovery system to reach the 20,000 ppm level required for opening. A subsequent water fill, if desired, could then be drained to the sewer.

Weigh Tanks and Batch Mix Tanks will utilize nitrogen purges (two) to reduce VCM levels below 20,000 ppm. Water addition is undesirable for Suspension Weigh Tanks.

Master Mix Tanks and Recovered Monomer Tanks in Copolymer service have sludge buildup that could hamper recovery of the vessels. J. W. Poarch is to prepare a program for testing of various methods on these tanks.

Recovered Monomer Tanks, excluding those in Copolymer service, will be prepared for opening by steaming to a recovery system.

Foam Knock Out Tanks will utilize the water fill technique since quantity of water will be small.

Fume Scrubbers in Plastisol area are to employ hot recovery with associated vaporization of water to reach EPA requirements.

Recovery systems including compressors, K. O. Pots, condensers and piping are to be purged with nitrogen prior to opening.

Most piping systems will require no more than recovery to reach EPA requirements. Should larger systems be located, nitrogen purging will be utilized.

Vinyl Chloride Bullets (80,000 Gallons) will require the water fill technique to reach EPA requirements. This water will be gradually run off through the new Water Stripper over 3 to 4 days. A recovery system or the unloading compressor will be utilized during the water fill.

Sampling of every vessel prior to opening will be necessary. Sample taps must be supplied for this purpose.



P. Scheiner

PS/ib

Date March 25, 1976Formulation // H-3125M - 76 Series //Type 250 Reduce Methocel 15 to 5.0 lbs. dry1 1/2 hr spec change10(51 DUMP/ 3-batch cleaningWASH OUT REACTORS WELL

<u>Material</u>	<u>Type</u>	<u>Parts</u>	<u>Pounds</u>	<u>Gallons</u>
MVC	No more than 2,000 lbs/ batch of recovered MVC		11,000	
CE				
(Initial)				1,233 (hot)
Water: (				400 (cold)
(Final				400 (cold)
Total			16,800	2,033
Catalyst	Lupersol 223M L.P.	(2-EHP)	8 1	
Suspending Agents				
5.0 lbs. dry 1.	Meth. MC-15		166 lbs. (3% soln)	
2.				
3.				
Others	NaHCO3		1 1/4	

Reaction Temp. 131 degrees F for all hrs. degrees F.Agitator Speed 120 RPM for all hrs. RPM hrs.

Special Instructions:

1. Set maximum jacket temp. 150° and reaction temp. at 112°.
2. Charge initial water (1233 gals) and slow agitator speed. (check water sample)
3. Charge Meth. 15 and follow with 400 gals. of cold flush water.
4. Charge L.P. and bicarbonate through manhole.
5. Seal reactor and max. vacuum for 1/4 hour (min. vac. 22").
6. Set batch temp. setting below 100°F after evacuation is completed and set RPM at 120.
7. When jacket temp. drops below 75° and batch temp. is 105° - 110°F suck Lupersol 223M directly into reactor through catalyst valve follow by sucking in a Lupersol bottle full of DM water.
8. Start charging MVC immediately after Lupersol 223M is charged to the reactor.
9. Set batch temp. to reaction temp.
10. Finish charging MVC and follow with 400 gals. final flush water.
11. Bring to reaction temp. Turn steam off. (300 gals. heat kick on 5° temp. rise.)
12. Prior to dumping, suck in 1 lb. dry Ionol to empty stripper.
13. Transfer to stripper at 109psi. (set absolute pressure controller at 0mm). Recover batch to 300 mm before steam stripping. Heat to 190° (full recovery). Cool to 170°, add 200 gallons of water, then transfer to blend tank.

Lab 3-25-76

COLORITE 017234