

C.V.

105 106

MAKING INSTRUCTIONS - BATCH UNIT

D.V. 300 315, 317, 322, 323

CG 46 CODE YT-808-D PKG.

JAN 11 33746

EST. WGT. 2000 253 LBS.

STD. MRS.

TIME

7 A M

| PROCESSES    |              | APPROVED BY |              |
|--------------|--------------|-------------|--------------|
| ( )          | YT-808-D (D) |             | EWK 9/27/77  |
| ( )          | YT-810-D (D) |             | BHK 10/14/77 |
| ( )          |              |             | DCG 10/17/77 |
| ( )          |              |             | MTW 10/18/77 |
| TYPED BY     |              |             |              |
| JTC 10/26/77 |              |             |              |

## NON-BLEEDING

| IPMENT | NAME: DALAMAR® YELLOW                                         | USE<br>LBS. | M<br>N<br>CODE | ACCT.<br>LBS. |
|--------|---------------------------------------------------------------|-------------|----------------|---------------|
|        |                                                               |             |                |               |
| Prep 1 | 1 Obtain for S 6 <i>Do NOT USE LOT 2</i>                      |             | 157-C          |               |
|        | 2 Obtain for S 22                                             |             | 46-C           |               |
|        | 3 Clean, dress, close 24" clarif press - 15 frames            |             |                |               |
| DV 2   | 4 Run 10" (323 G) water into V- 300                           |             |                |               |
|        | 5 Weigh in from V-324 M 1, 31.76%                             | 1659        | 28-D           | 527           |
|        | 6 Dump & rinse in drums from S 1                              |             | 157-C          | 1120          |
|        | LOT # 100%                                                    |             |                |               |
|        | 169 125 73.6 170                                              |             |                |               |
|        | 169 126 74.8 169                                              |             |                |               |
|        | 169 122 72.3 169                                              |             |                |               |
|        | 169 121 71.4 169                                              |             |                |               |
|        | 168 123 74.8 169                                              |             |                |               |
|        | 169 116 68.8 168                                              |             |                |               |
|        | 170 113 65.8 172                                              |             |                |               |
|        | 170 109 63.4 172                                              |             |                |               |
|        | 169 122 72.4 169                                              |             |                |               |
|        | 43                                                            | 71.0        | 61             |               |
|        | 7 Stir 10 min or longer to wet                                |             |                |               |
|        | 8 Add to 43" (1470 G) at 28-32°F                              | 10 x 330    | 57-A           | 3300          |
|        | 9 Siphon in in 12-15 min M 1, 33.32%                          | 1253        | 725-A          | 420           |
|        | 10 Stir 30 min at 28-32°F maintaining + CR, + KI for S 12     |             |                |               |
|        | Record: Time Start 5.20 P CR + (+), KI + (+)                  |             |                |               |
|        | Note:                                                         |             |                |               |
|        | (1) If CR -, KI -, add 20# "as is" increments Assume 32%      |             | 28-D           |               |
|        | Record: CR (+), KI (+)                                        |             |                |               |
|        | (2) If CR +, KI -, add 20# "as is" increments Assume 33%      |             |                |               |
|        | Record: CR (+), KI (+)                                        |             |                |               |
| 1isc 3 | 11 Slurry in 40 gal water in drum & precoat clarif press with | 5           | 777-A          | 5             |
| DV 4   | 12 When S 10 stir complete, dump in                           | 15          | 113-A          | 15            |
|        | 13 Dump in                                                    | 10          | 777-A          | 10            |
|        | 14 Stir 30 min at 28-32°F maintaining + CR, + KI for S 20     |             | 57-A           |               |
|        | Record: Time Start 6.20 P CR + (+), KI - (+)                  |             |                |               |
|        | Note:                                                         |             |                |               |
|        | (1) If CR -, KI -, add 20# "as is" increments Assume 32%      |             | 28-A           |               |
|        | Record: CR (+), KI (+)                                        |             |                |               |
|        | (2) If CR +, KI -, add 20# "as is" increments Assume 33%      |             | 725-A          |               |
|        | Record: CR (+), KI + (+)                                      |             |                |               |

| QUIPMENT |    | PAGE 2 CG 46 CODE <u>Y-808-D</u> Alt. EST. WGT. <u>2573</u> LBS.                                                                                                                     | USE LBS.    | N CODE | ACCT. LBS.  |
|----------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|-------------|
| CV       | 5  | 15 Run 10" (970 G) water into V-105 & install temp. chart                                                                                                                            |             |        |             |
|          |    | 16 Pour in M <u>1</u> . <u>49.46%</u>                                                                                                                                                | <u>1084</u> | 7-D    | <u>536</u>  |
|          |    | 17 Adj to 40" (3904 G) at 66-70°F                                                                                                                                                    | 3 x 330     | 57-A   | <u>990</u>  |
|          |    | 18 Close stack damper                                                                                                                                                                |             |        |             |
|          |    | 19 Stir for S 22                                                                                                                                                                     |             |        |             |
| DV       | 6  | 20 When 14 stir complete, test DV & Record: CR <u>+</u> (+), KI <u>+</u> (+), Temp: <u>30</u> (28-32°F)                                                                              |             | 57-A   |             |
|          |    | Note:                                                                                                                                                                                |             |        |             |
|          |    | (1) If CR-, KI-, add 20# "as is" increments Assume 32%                                                                                                                               |             | 28-A   |             |
|          |    | Record: CR (+), KI (+)                                                                                                                                                               |             |        |             |
|          |    | (2) If CR+, KI-, add 20# "as is" increments Assume 33%                                                                                                                               |             | 725-A  |             |
|          |    | Record: CR (+), KI (+)                                                                                                                                                               |             |        |             |
|          |    | 21 Pump DV thru clarif press into V-323 maintaining temp at 28-32°F Record: Time Start <u>6:50 PM</u> Total Min <u>100</u>                                                           | 2 x 330     | 57-A   | <u>660</u>  |
| CV       | 7  | 22 Dump into CV from S 2 LOT # 100%                                                                                                                                                  |             | 46-C   | <u>1455</u> |
|          |    | Note: Break up lumps                                                                                                                                                                 |             |        |             |
|          |    | <u>92120</u> <u>400</u> <u>91.6</u>                                                                                                                                                  |             |        |             |
|          |    | <u>91950</u> <u>600</u> <u>94.8</u>                                                                                                                                                  |             |        |             |
|          |    | <u>92130</u> <u>200</u> <u>93.3</u>                                                                                                                                                  |             |        |             |
|          |    | <u>91940</u> <u>200</u> <u>92.6</u>                                                                                                                                                  |             |        |             |
|          |    | 23 Stir 10 min to dissolve                                                                                                                                                           |             |        |             |
|          |    | 24 Open stack damper                                                                                                                                                                 |             |        |             |
|          |    | 25 Run in undersurface in 20.25 min M <u>1</u> . <u>72.84%</u>                                                                                                                       | <u>1126</u> | 30-D   | <u>820</u>  |
|          |    | 26 Stir 5 min & Record: pH <u>5.9</u> (5.8-6.3)                                                                                                                                      |             |        |             |
|          |    | 27 If necessary, adj to pH 5.8-6.3 & Assume 50%                                                                                                                                      |             | 7-D    |             |
|          |    | Record: pH (5.8-6.3) Assume 77%                                                                                                                                                      |             | 30-D   |             |
| DV       | 8  | 28 When S 21 clarif complete, wash DV (S 4) lines, pump & press for 20 min or to a -CR test on a sample of total press effluent whichever comes first. Collect washings in DV (S 21) |             |        |             |
|          |    | Record: Time Start <u>8:30 PM</u> CR <u>-</u> (- or +)                                                                                                                               |             |        |             |
|          |    | 29 Stir 5 min & Record: Temp <u>30</u> (28-32°F) & if necessary, adj to 28-32°F. Record: °F                                                                                          |             | 57-A   |             |
|          |    | 30 Weigh in rubber bucket & wash into DV                                                                                                                                             | <u>20</u>   | 395-D  | <u>20</u>   |
|          |    | 31 Stir 5 min & Record: KI <u>-</u> (-)                                                                                                                                              |             |        |             |
|          |    | 32 If necessary, adj to -KI & Record: KI (-)                                                                                                                                         |             | 395-D  |             |
|          |    | 33 Record: DV <u>56</u> "                                                                                                                                                            |             |        |             |
| Misc     | 9  | 34 Weigh in drums for S 41 M <u>2</u> . <u>49.46%</u>                                                                                                                                | <u>687</u>  | 7-D    | <u>340</u>  |
|          |    | 35 Dissolve in 20 gal water in drum for S 43                                                                                                                                         | <u>70</u>   | 979-A  | <u>70</u>   |
| CV       | 10 | 36 When S 33 complete, adj CV to 48" (4685 G) at 80-84°F                                                                                                                             |             |        |             |
|          |    | 37 Check accuracy: HT <u>84</u> °F & Recorder <u>86</u> °F                                                                                                                           |             |        |             |
|          |    | 38 Immediately run in DV thru undersurface distributor in 60-65 min. Maintain CV at 80-84°F                                                                                          |             |        |             |
|          |    | Record: Time Start <u>9:17 PM</u> Total Min <u>69</u>                                                                                                                                |             |        |             |
|          |    | 39 When S 38 complete, stir 10 min                                                                                                                                                   |             |        |             |

| SHIPMENT           | PAGE 3 CG 46 CODE YT-808-D (D) EST. WGT. 2238 LBS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | USE LBS.            | N CODE      | ACCT. LBS. |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------|------------|
| CV<br>30<br>ont'd) | 40 RECORD: Diazo - (-), Base + (+) pH 4.1 (4.3-4.7)<br>NOTE:<br>(1) If Diazo +, Base -, and pH below 4.3:<br>(a) adj to pH 4.3-4.7 Assume 50%<br>(b) record: pH 7-D<br>(2) If Diazo +, Base -, and pH 4.3 or above:<br>(a) add 8# 100% N-7-D to a 55 G drum 7-D<br>(b) adj with water to 25 G<br>(c) add 20# 100% N-46-C 46-C<br>(d) stir to dissolve<br>(e) pour into CV<br>(f) stir 10 min<br>(3) Repeat (1) & (2) above as necessary to - Diazo, + Base<br>41 Pour in N-7-D from S 34 & stir 5 min<br>42 RECORD: pH 8.7 (8.0-8.5) & if necessary Assume 50% 67 7-D 32<br>Adj to pH 8.0-8.5. RECORD: pH 8.1 Assume 32% 28-D<br>43 Dump in N-979-A from S 35<br>44 Heat to 200-204°F in 58-62 min<br>45 Stir 30 min at 200-204°F RECORD: Time Start 12:00 A<br>46 Flood to 94" (9174 G) & stop agitator |                     |             |            |
|                    | START 9:00 PM 11:00 P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FIN 11:00 PM 2:00 A | OPTB 14 254 |            |

