

S.V. (247)

(MANUAL)

DATE PRINTED: 7/08/82

CG 03 CODE KY-787-D

PROCESSES APPROVED BY
() KY-787-D (B) FWP 06/25/82

JUL 24 1982

(DATE)

G2J74

6026*

(LOT)

(EST WGT)

COMTYP JOB NAME: 03KY787DMU

LOCATN	CG	CODE	PR	LOT	DRY* WEIGHT	DRY CONT	NO. PKG	PKG WGT	TOTAL WEIGHT	ACTUAL USE LBS
14	YC-2	93	YC-2-B		44.00					
14	YC-2	93								
14	YC-2	93								

NON-BLEEDING

BEFORE USING SV, MAKE SURE THAT N-20-D LINE
IF ANY IS BLANKED OFF.

203 1 RUN 60" (990 GAL) WATER INTO V-203 & ADD CAUSTIC
& RUN AGITATOR ON HIGH SPEED. 40 7-D 20

205 2 WEIGH SODIUM SILICATE INTO DRUM & POUR IN 420 32-D 420
3 DUMP IN CHROME YELLOW & STIR 5 MIN 88X50 YC-2-B 4400
1 RECORD: START 4:00 PM
FIN 5:45 PM

4 ADJUST TO 75" (1275 GAL) *NOTE: VOLUMES HIGHER
THAN 75" MAY CAUSE DUSTING IN EXHAUST HOOD.
5 WITH AGITATOR ON LOW SPEED PUMP V-203 THRU
HOMOG AT 2400-2600 PSI INTO V-205
6 WHEN V-203 MT, WASH COLOR THRU HOMOG WITH MIN
HOT WATER AT 2400-2600 PSI INTO V-205
7 RECORD: V-205 VOL. 4.1" & ADJUST TO 60" (2100 GAL)
8 INSPECT HOMOG STRAINER & CLEAN IF NECESSARY

208 9 RUN 4" (200 GAL) WATER INTO V-208 START
& AGITATOR & INSTALL TEMP CHART
SV 10 PUMP V-205 THRU HOMOG AT 4800-5200 PSI INTO SV.
2 RECORD: TIME START 2:50 TOTAL MINUTES 9.0
NOTE: IF HOMOG PRESSURE FALLS BELOW 4800 PSI,
3-WAY VALVE WILL RECIRCULATE SLURRY TO V-205
11 WHEN V-205 MT, RUN IN 5" (240 GAL) WATER & PUMP
12 THRU HOMOG AT 4800-5200 PSI INTO SV

349 12 WHILE HOMOG, RUN 6" (284 GAL) WATER INTO V-349
& 13 RUN 1000# WATER INTO V-384 & HEAT TO 110-120°F
384 14 WEIGH INTO V-384 & PUMP TO V-349 2530 32-D 2530
15 RUN 1000# WATER INTO V-384 & PUMP TO V-349
3 16 ADJ V-349 TO 22" (1041 GAL) & STIR 15 MIN
17 RECORD DENSITY: 1.087 G/ML (1.084-1.086)

SV 18 WHEN S-11 HOMOG COMPLETE, ADJ SV TO 48" (2420 GAL)
19 RECORD: PH 10.2 & ADJ TO 11.1-11.3 WITH CAUSTIC
4 AT 5% (10 PARTS WATER TO 1 PART N-7-D) ~
ASSUME 50% 18 7-D 9
20 SIPHON N-7-D INTO SV & RECORD: PH 11.2
HEAT TO 190-194°F IN 55-65 MIN & REC: HT 190 *F
& RECORD: 194 *F
NOTE: STRIKE MUST BE STARTED IMMEDIATELY ON
ON COMPLETION OF HEATING

121 WHILE HEATING SV, RUN 39" (1070 GAL) WATER INTO
343 V-343 & METER IN SULFURIC ACID FROM V-396
& MK 19 10896 /GAL 22.6 GAL 27-D 378
386 22 STIR 15 MIN OR LONGER
5 23 RECORD: DENSITY 1.026 G/ML (1.024-1.026)

N32756

DUP050464203

LOT= COMTYP JOB NAME = 03KY787DMU PAGE 02 DATE PRINTED: 7/08/82
 EQUIP PAGE 2 CG 03 KY-787-D USE N- ACCT
 MENT V-247 LBS CODE LBS

124 WHEN S 20 HEATING COMPLETE, RECORD: PH 10.0
 125 SET V-343 ACID PUMP AT 57 SETTING (225 MIN)
 126 SET V-349 SILICATE PUMP AT 62 SETTING (180 MIN)
 127 IMMEDIATELY METER IN V-343 & V-349. MAINTAIN SV
 SV AT 190-194°F DURING STRIKE
 128 RECORD: START FINISH MINUTES
 V-343 0:00 11:45 22.5
 V-349 0:00 1:00 1.00
 V-343 V-349 SV NORMAL
 TIME INCHES INCHES PH PH
 AT 20 MIN 8:20 (36) (20) 9.3 (9.3-10.0)
 40 MIN 8:40 (33) (17) 9.3 (9.3-10.0)
 1 HR 9:00 (29) (15) 9.3 (9.3-10.0)
 2 HR 10:00 (19) (7) 9.3 (9.3-10.0)
 3 HR 11:00 (8) (0) 9.3 (9.3-10.0)
 FINISH 11:45 (0) 7.4 (7.5-8.5)
 NOTE: IF PH DROPS BELOW 9.3 IN FIRST HOUR, STOP
 PUMPS & SEE SUPV. IF FINAL PH IS ABOVE
 8.5, ADJ TO 7.5-8.5 ASSUME 77% 27-D

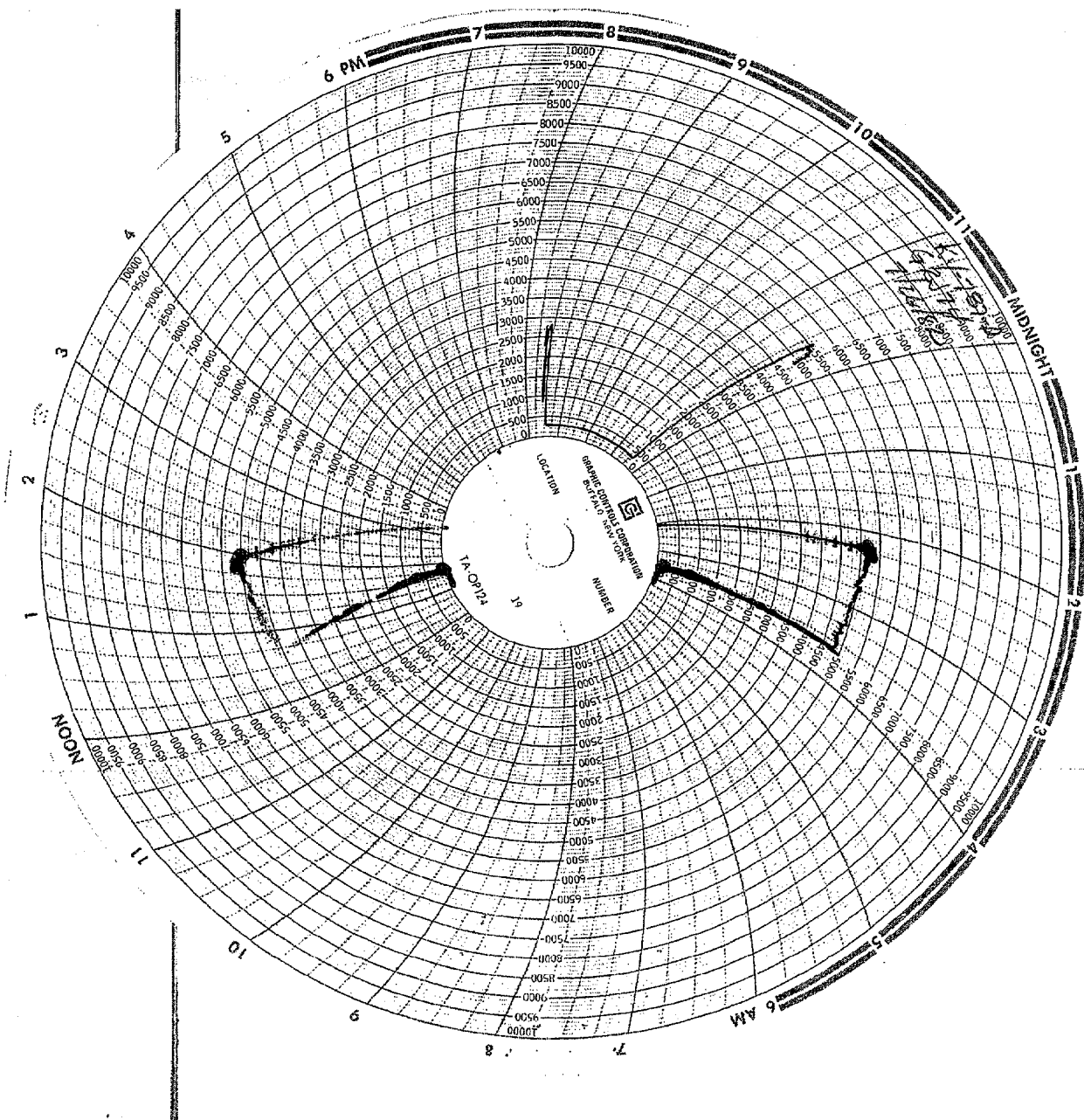
380 129 RUN 35" (600 GAL) WATER INTO V-330 & HEAT TO
 7 160-170°F
 130 ADD DRESINATE "X" IN 12-13 MIN. CHECK FOR 650 530-A 650
 DRAFT IN VENT STACK BEFORE DUMPING.
 131 STIR 5 MIN & RECORD: PH 10.3 (9.5-10.5)
 132 STIR 20 MIN OR LONGER FOR S-43

385 133 ADD 67" (513 GAL) WATER TO V-385
 8 134 ADD & STIR 2 MIN FOR S-41 ASSUME 50% 320 7-D 160

SV 135 WHEN V-349 MT, RINSE IN WITH MINIMUM WATER &
 9 SET PUMP AT ZERO SETTING
 136 WHEN V-343 MT, RINSE IN WITH MINIMUM WATER &
 TURN OFF PUMP MOTOR & STEAM
 137 SIFT IN BLANC FIXE 220 128-A 220
 138 RUN IN ALUM USING BADGER METER 600 115-D 300
 139 FLUSH ALUM LINE WITH WATER
 140 RECORD: PH 3.8 (3.7-4.2)
 141 RUN IN N-7-D FROM S 34 IN 10-12 MIN & STIR 5 MINS
 142 RECORD: PH 8.7 (9.0-9.5) & IF NECESSARY ADJ TO
 PH 9.0-9.5. RECORD: PH 9.0 ASSUME 77% 27-D
 DILUTE N-7-D 10 TO 1 WITH WATER ASSUME 50% 30 7-D 15
 143 SIPHON N-7-D INTO SV
 144 RUN IN V-330 THRU 20 MESH SCREEN & STIR 20 MIN.

330 144 RUN 11" (216 GAL) WATER INTO V-330
 10 145 DUMP IN CALCIUM CHLORIDE & STIR 5 MIN FOR S-46 250 20-A 250

SV 146 RUN V-330 INTO SV IN 15-20 MIN
 11 147 STIR 15 MIN & RECORD: PH 9.0 (9.0-10.0)
 148 DO NOT STOP AGITATOR
 START FINISH OPERATOR
 11:00 7:4 120-306
 7:00 PM 1:15 PM 231-223



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