

CG 03 * CODE KY-787-D

LOT F2K67 ✓

PROCESSES

APPROVED BY

JUN 17 1982

() KY-787-D (U)

FWP 03/22/82

COMTYP JOB NAME: 03KY787DMU

CG	CODE	PQ	LOT	LBS	CG	CODE	PQ	LOT	LBS
14	YC-2-B	93	D2E19	2000	14	YC-2-B	93		
14	YC-2-B	93	F2E20	2000	14	YC-2-B	93		
			D2E18	450					

TOTAL EST'D WGT 6006* LBS.

NON-BLEEDING

*BEFORE USING SV, MAKE SURE THAT N-28-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 3:15 PM D2E19 2000
FIN 4:35 PM F2E20 2000
D2E18 450

1 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 58" & ADJUST TO 60" (2100 GAL)
8 INSPECT HOMOG STRAINER & CLEAN IF NECESSARY

208 9 RUN 4" (200 GAL) WATER INTO V-240, START
& AGITATOR & INSTALL TEMP CHART
SV 10 PUMP V-205 THRU HOMOG AT 4800-5200 PSI INTO SV.
2 RECORD: TIME START 4:30 PM TOTAL MINUTES 120
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 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 1.0816 G/ML (1.084-1.086) JUN 23 1982

SV 18 WHEN S-11 HOMOG COMPLETE, ADJ SV TO 48" (2420 GAL)
19 RECORD: PH 9.3 & ADJ TO 11.1-11.3 WITH CAUSTIC
4 AT 5% (10 PARTS WATER TO 1 PART N-7-D) ASSUME 50% 60 7-D 30
SIPHON N-7-D INTO SV & RECORD: PH 11.2
20 HEAT TO 190-194°F IN 55-65 MIN & REC: HT *F
& RECORD: *F
NOTE: STRIKE MUST BE STARTED IMMEDIATELY ON ON COMPLETION OF HEATING

343 21 WHILE HEATING SV, RUN 39" (1070 GAL) WATER INTO
& V-343 & METER IN SULFURIC ACID FROM V-384 MK 1.9 10.719 G/GAL 35.3 GAL 27-D 378
386 22 STIR 15 MIN OR LONGER
5 23 RECORD: DENSITY 1.026 G/ML (1.024-1.026) V.E.C

EQUIP | PAGE 2 CG 02 KY-787-D
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240

DATE PRINTED: 3/30/82
USE | N- | ACCT
LBS | CODE | LBS

SV 24 WHEN S 20 HEATING COMPLETE, RECORD: PH 10.0
25 SET V-343 ACID PUMP AT 57 SETTING (225 MIN)
26 SET V-349 SILICATE PUMP AT 62 SETTING (180 MIN)
27 IMMEDIATELY METER IN V-343 & V-349. MAINTAIN SV
AT 190-194°F DURING STRIKE
28 RECORD: START FINISH MINUTES
V-343 9:20 AM 1:52 PM 230
V-349 1:20 AM 1:05 PM 185
V-343 V-349 SV NORMAL
TIME INCHES INCHES RH PH
AT 20 MIN 9.90 (36) (20) 9.5 9.3-10.0
40 MIN 10.00 (33) 33 (17) 12 8.5 (9.3-10.0)
1 HR 11.00 (29) 29 (15) 15 8.6 (9.3-10.0)
2 HR 12.00 (19) 19 (7) 7 9.7 (9.3-10.0)
3 HR 1.00 (8) 12 (0) 6 9.4 (9.3-10.0)
FINISH 1.43 (0) 7.0 (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

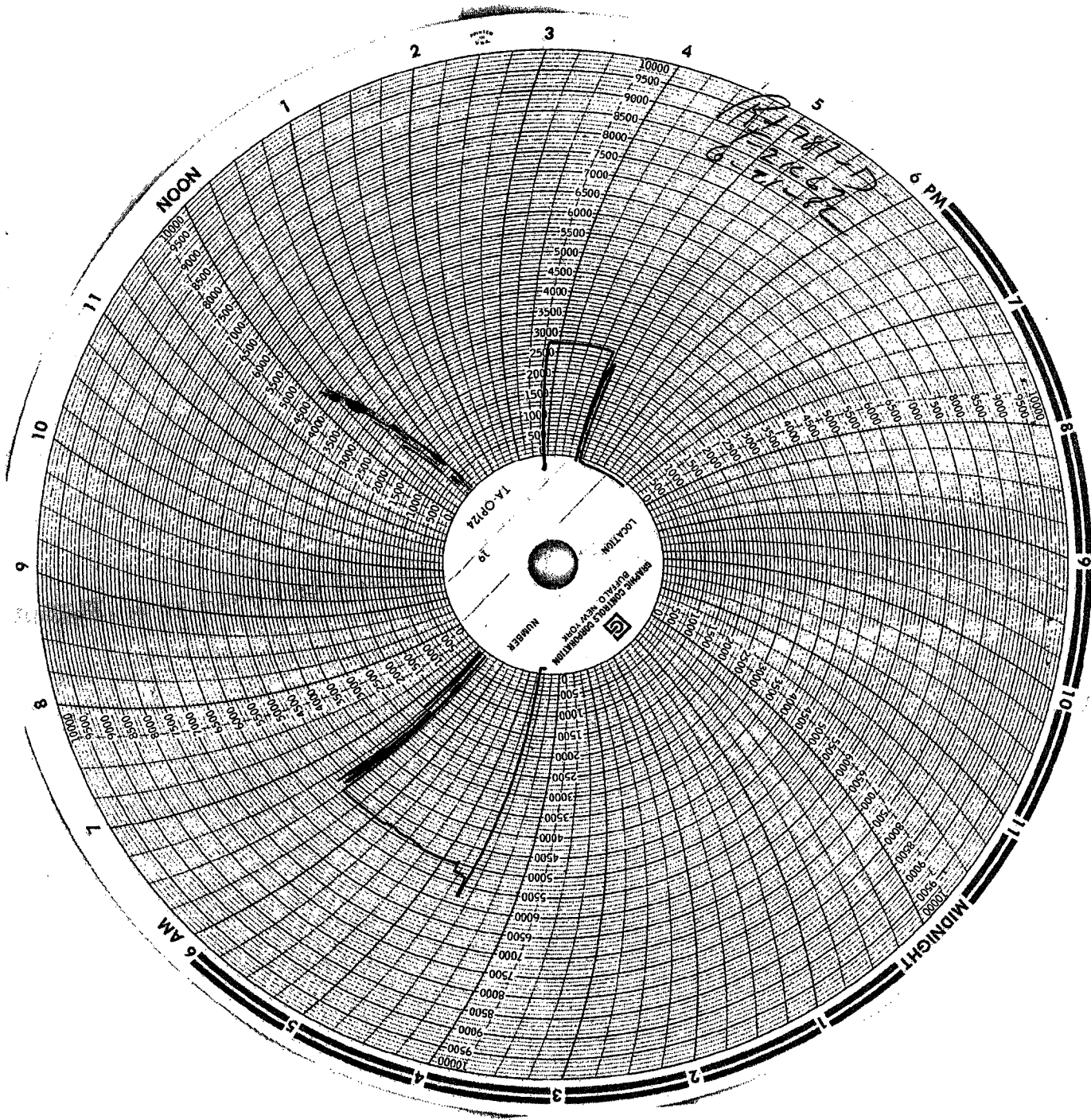
330 129 RUN 35" (600 GAL) WATER INTO V-330 & HEAT TO
7 160-170°F
130 ADD DRESINATE "X" IN 12-13 MIN. CHECK FOR 650 530-A 650
DRAFT IN VENT STACK BEFORE DUMPING.
131 STIR 5 MIN & RECORD: PH 10.1 (9.5-10.5)
132 STIR 20 MIN OR LONGER FOR S-43

385 133 ADD 67" (513 GAL) WATER TO V-385
B 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 9.5 (9.0-9.5) & IF NECESSARY ADJ TO
PH 9.0-9.5. RECORD: PH ASSUME 77% 27-D
DILUTE N-7-D 10 TO 1 WITH WATER ASSUME 50% 7-D
SIPHON N-7-D INTO SV
143 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 9.3 (9.0-10.0)
148 DO NOT STOP AGITATOR
START FINISH OPERATOR
7:00 AM 5:45 P. 120-301
0-P 223



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