

CG 03

CODE KY-787-D

LOT

PROCESSES

APPROVED BY

JUN 15 1982

F2K56

() 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	02E22	4400	14	YC-2-B	93		
14	YC-2-B	93			14	YC-2-B	93		

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.

205 2 WEIGH SODIUM SILICATE INTO DRUM & POUR IN
3 DUMP IN CHROME YELLOW & STIR 5 MIN
RECORD: START 8:30 PM YC-2-B 02E22 4400
FIN 9:40 PM 88 = 4400

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. 45" & 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.
RECORD: TIME START 8:00 AM TOTAL MINUTES 180

2 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: 1.086 G/ML (1.084-1.086)

SV 18 WHEN S-11 HOMOG COMPLETE, ADJ SV TO 48" (2420 GAL)

19 RECORD: PH 10.6 & 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 11.3

20 HEAT TO 190-194°F IN 55-65 MIN & REC: HT 192°F
& RECORD: 192°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-386
MK 18: 10.01 #/GAL 350 GAL 27-D 378

386 22 STIR 15 MIN OR LONGER

5 23 RECORD: DENSITY 1.024 G/ML (1.024-1.026)

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MENT) COMTYP JOB NAME: 03KY787DMU

V-240

DATE PRINTED: 3/30/82

USE N- ACCT
LBS CODE LBS

SV 24 WHEN S 20 HEATING COMPLETE, RECORD: PH 10.1
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 1:00 PM 4:53 235
V-349 4:10 PM 190
V-343 SV NORMAL
TIME INCHES INCHES PH PH
AT 20 MIN 1.20 (36) 36 (20) 20 9.8 (9.3-10.0)
40 MIN 1.40 (33) 33 (17) 17 9.8 (9.3-10.0)
1 HR 2.00 (29) 29 (15) 15 9.8 (9.3-10.0)
2 HR 3.00 (19) 21 (7) 7 9.8 (9.3-10.0)
3 HR 4.00 (8) 10 (0) 1 9.8 (9.3-10.0)
FINISH 4:53 0 0 9.3 (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

V-336
V-356
330- 29 RUN 35" (600 GAL) WATER INTO V-336 & HEAT TO
160-170°F V-356
30 ADD DRESINATE "X" IN 12-13 MIN. CHECK FOR 650 530-A 650
DRAFT IN VENT STACK BEFORE DUMPING.
31 STIR 5 MIN & RECORD: PH 10.3 (9.5-10.5)
32 STIR 20 MIN OR LONGER FOR S-43

335 33 ADD 67" (513 GAL) WATER TO V-336
34 ADD & STIR 2 MIN FOR S-41 312 ASSUME 50% 320 7-D 160

SV 9 35 WHEN V-349 MT, RINSE IN WITH MINIMUM WATER &
36 SET PUMP AT ZERO SETTING
37 WHEN V-343 MT, RINSE IN WITH MINIMUM WATER &
TURN OFF PUMP MOTOR & STEAM
38 SIFT IN BLANC FIXE 200 128-A 200
39 RUN IN ALUM USING BADGER METER 600 115-D 300
40 FLUSH ALUM LINE WITH WATER
41 RECORD: PH 3.4 (3.7-4.2)
42 RUN IN N-7-D FROM S 34 IN 10-12 MIN & STIR 5 MINS
43 RECORD: PH 9.2 (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
44 SIPHON N-7-D INTO SV
45 RUN IN V-330 THRU 20 MESH SCREEN & STIR 20 MIN

330 44 RUN 11" (216 GAL) WATER INTO V-330
10 45 DUMP IN CALCIUM CHLORIDE & STIR 5 MIN FOR S-46 250 20-A 250

SV 11 46 RUN V-330 INTO SV IN 15-20 MIN
47 STIR 15 MIN & RECORD: PH 9.7 (9.0-10.0)
48 DO NOT STOP AGITATOR
START FINISH OPERATOR
1:00 PM 7:00 PM 259-114
3:00 PM 6:25 PM 381
37-347

