

CG 03

CODE KY-787-D

LOT

E2K52

PROCESSES

APPROVED BY

() KY-787-D (U)

FWP 03/22/82

JUN 14 1982 JR

COMTYP JOB NAME: 03KY787DMU

CG	CODE	PQ	LOT	LBS	CG	CODE	PQ	LOT	LBS
14	YC-2-B	93	DZE 23	4600	14	YC-2-B	93		
14	YC-2-B	93	DZE 20	400	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 3:30 PM DZE 23
FIN 5:45 PM DZE 20

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. 50" & ADJUST TO 60" (2100 GAL)

8/ INSPECT HOMOG STRAINER & CLEAN IF NECESSARY

208 9/ RUN 4" (200 GAL) WATER INTO V-204 START
& AGITATOR & INSTALL TEMP CHART
SV 10/ PUMP V-205 THRU HOMOG AT 4800-5200 PSI INTO SV.
RECORD: TIME START 10:45 AM TOTAL MINUTES 225
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

BATCH DELAY
SWITCHED FROM #3
TO #3 HOMOG

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
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 10.4 & ADJ TO 11.1-11.3 WITH CAUSTIC
4 AT 5% (10 PARTS WATER TO 1 PART N-7-D)
ASSUME 50%
SIPHON N-7-D INTO SV & RECORD: PH 11.1
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

JUN 17 1982

121/ WHILE HEATING SV, RUN 39" (1070 GAL) WATER INTO
343 V-343 & METER IN SULFURIC ACID FROM V-386
& MK 18, 1.021# / GAL, 350 GAL
386 22/ STIR 15 MIN OR LONGER
5 23/ RECORD: DENSITY 1.027 G/ML (1.024-1.026)

EQUIP PAGE 2 CG 02 KY-787-D
MENTI 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 <u>9.8</u>			
	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			
	28	AT 190-194°F DURING STRIKE			
	29	RECORD: START FINISH MINUTES			
		V-343 <u>3:00 A</u> <u>1:05 P</u> <u>245</u>			
		V-349 <u>6:10 A</u> <u>1:00</u>			
		V-343 V-349 SV NORMAL			
		TIME INCHES INCHES PH PH			
		AT 20 MIN <u>3:20 A</u> (36) <u>17</u> (20) <u>10.1</u> <u>9.7</u> (9.3-10.0)			
		40 MIN <u>3:40 A</u> (33) <u>31</u> (17) <u>18</u> <u>9.7</u> (9.3-10.0)			
6		1 HR <u>4:00 A</u> (29) <u>31</u> (15) <u>16</u> <u>9.7</u> (9.3-10.0)			
		2 HR <u>5:00 A</u> (19) <u>21</u> (7) <u>8</u> <u>9.7</u> (9.3-10.0)			
		3 HR <u>6:00 A</u> (8) <u>10</u> (0) <u>0</u> <u>9.7</u> (9.3-10.0)			
		FINISH <u>6:45 A</u> (0) <u>0</u> <u>7.8</u> (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	29	RUN 35" (600 GAL) WATER INTO V-330 & HEAT TO 160-170°F			
7	30	ADD DRESINATE "X" IN 12-13 MIN. CHECK FOR DRAFT IN VENT STACK BEFORE DUMPING.	650	530-A	650
356	31	STIR 5 MIN & RECORD: PH <u>10.0</u> (9.5-10.5)			
	32	STIR 20 MIN OR LONGER FOR S-43			

385	33	ADD 67" (513 GAL) WATER TO V-385			
8	34	ADD & STIR 2 MIN FOR S-41 ASSUME 50%	320	7-D	160

SV	35	WHEN V-349 MT, RINSE IN WITH MINIMUM WATER & SET PUMP AT ZERO SETTING			
9	36	WHEN V-343 MT, RINSE IN WITH MINIMUM WATER & TURN OFF PUMP MOTOR, & STEAM			
	37	SIFT IN BLANC FIXE	200	128-A	200
	38	RUN IN ALUM USING BADGER METER	600	115-D	300
	39	FLUSH ALUM LINE WITH WATER			
	40	RECORD: PH <u>4.0</u> (3.7-4.2)			
	41	RUN IN N-7-D FROM S 34 IN 10-12 MIN & STIR 5 MINS			
	42	RECORD: PH <u>9.0</u> (9.0-9.5) & IF NECESSARY ADJ TO PH 9.0-9.5. RECORD: PH <u>9.0</u> ASSUME 77%			27-D
		DILUTE N-7-D 10 TO 1 WITH WATER ASSUME 50%			7-D
		SIPHON N-7-D INTO SV			
	43	RUN IN V-330 THRU 20 MESH SCREEN & STIR 20 MIN			

330	44	RUN 11" (216 GAL) WATER INTO V-330			
356	45	PUMP IN CALCIUM CHLORIDE & STIR 5 MIN FOR S-46	250	20-A	250

SV	46	RUN V-330 INTO SV IN 15-20 MIN			
11	47	STIR 15 MIN & RECORD: PH <u>9.1</u> (9.0-10.0)			
	48	DO NOT STOP AGITATOR			
		START FINISH OPERATOR			
		<u>3:00 A</u> <u>11:00 A</u> <u>27-204</u>			
		<u>7:00 P</u> <u>9:00 A</u> <u>259-114</u>			
		<u>7:00 A</u> <u>9:00 A</u> <u>381.237</u>			

