

CG 03

CODE KY-787-D

LOT

F2K35

PROCESSES

APPROVED BY

() KY-787-D (U)

FWP 03/22/82

JUN 10 1982

COMTYP JOB NAME: 03KY787DMU

CG	CODE	PQ	LOT	LBS	CG	CODE	PQ	LOT	LBS
14	YC-2-B	93	B2C05	2300	14	YC-2-B	93	D2E02	100
14	YC-2-B	93	D2E00	2000	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. 40 7-D 20

203 2 WEIGH SODIUM SILICATE INTO DRUM & POUR IN 420 32-D 420

203 3 DUMP IN CHROME YELLOW & STIR 5 MIN 08X50 YC-2-B 4400
RECORD: START 10:30 A.M. B2C05
FIN 11:30 A.M. D2E00
D2E02

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-205 263

7 RECORD: V-205 VOL. 46" & ADJUST TO 60" (2100 GAL)

8 INSPECT HOMOG STRAINER & CLEAN IF NECESSARY

203 9 RUN 4" (200 GAL) WATER INTO V-200, START AGITATOR & INSTALL TEMP CHART

203 10 PUMP V-205 THRU HOMOG AT 4800-5200 PSI INTO SV.
RECORD: TIME START 9:20 A.M. TOTAL MINUTES 180

203 11 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

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 10.0 & ADJ TO 11.1-11.3 WITH CAUSTIC

4 AT 5% (10 PARTS WATER TO 1 PART N-7-D) ASSUME 50% 36 7-D 18

SIPHON N-7-D INTO SV & RECORD: PH 11.1

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

21 WHILE HEATING SV, RUN 39" (1070 GAL) WATER INTO V-343 & METER IN SULFURIC ACID FROM V-384

343 22 STIR 15 MIN OR LONGER MK 14 1.014 G/ML 25.0 GAL 27-D 378

386 23 RECORD: DENSITY 1.026 G/ML (1.024-1.026)

JUN 16 1982

EQUIP | PAGE 2 CG 02 KY-787-D
MENT | COMTYP JOB NAME: 03KY787DMU

Y-240

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

SV	124	WHEN S 20 HEATING COMPLETE, RECORD: PH <u>9.6</u>			
	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			
	128	AT 190-194°F DURING STRIKE			
	RECORD:	START FINISH MINUTES			
		V-343 <u>2:30</u> <u>6:28 AM</u> <u>193</u>			
		V-349 <u>2:11 AM</u> <u>5:40 AM</u> <u>190</u>			
		V-343 V-349 SV NORMAL			
		TIME INCHES INCHES PH PH			
	AT 20 MIN	<u>2:50</u> (36) <u>3.7</u> (20) <u>2.0</u> <u>9.6</u> (9.3-10.0)			
	40 MIN	<u>3:10</u> (33) <u>3.4</u> (17) <u>1.7</u> <u>9.6</u> (9.3-10.0)			
	1 HR	<u>3:30</u> (29) <u>2.9</u> (15) <u>1.5</u> <u>9.6</u> (9.3-10.0)			
	2 HR	<u>4:30</u> (19) <u>1.9</u> (7) <u>1.7</u> <u>9.6</u> (9.3-10.0)			
	3 HR	<u>5:30</u> (8) <u>1.0</u> (0) <u>1.1</u> <u>9.6</u> (9.3-10.0)			
	FINISH	<u>6:15</u> (0) <u>1.0</u> <u>2.8</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	129	RUN 35" (600 GAL) WATER INTO V-330 & HEAT TO			
		160-170°F			
356	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 <u>10.1</u> (9.5-10.5) <u>V356</u>			
	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 <u>2.0</u> 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	200	128-A	200
	138	RUN IN ALUM USING BADGER METER	600	115-D	300
	139	FLUSH ALUM LINE WITH WATER			
	140	RECORD: PH <u>3.8</u> (3.7-4.2)			
	141	RUN IN N-7-D FROM S 34 IN 10-12 MIN & STIR 5 MINS			
	142	RECORD: PH <u>7.3</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%	<u>7.0</u>	7-D	<u>35</u>
		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 <u>9.1</u> (9.0-10.0)			
	148	DO NOT STOP AGITATOR			
		START FINISH OPERATOR			
		<u>7:00 AM</u> <u>8:15 AM</u> <u>54-114</u>			
		<u>7:00 AM</u> <u>8:15 AM</u> <u>381.282</u>			

