

DEC 19 80 38322

STANDARD HRS. 10.6 TIME 7:40 M

APPROVED BY
() KY-787-S (S) FWP 11/20/80
() (XOB-17: 3/4
() N-32-D & 240
() MIN STRIKE)
JOB NAME: 03KY-787-DMS

CG CODE PQ LOT LBS
14 YC002B 93 13369 4000
14 YC002B 93 13184 200
14 YC002B 93

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TOTAL EST'D WGT 5845

NON-BLEEDING

EQUIP	NAME : "KROLOR" YELLOW MEDIUM	USE LBS	NCODE	ACCT LBS
203	1 RUN 60" (990 GAL) WATER INTO V-203 WITH AGITATOR			
	ON HIGH SPEED & ADD CAUSTIC	40	7-D	20
203	2 WEIGH SODIUM SILICATE INTO DRUM & POUR IN	430	983-D	430
	3 DUMP IN CHROME YELLOW & STIR 5 MIN	84X50	YC-2-B	4200
	RECORD: START 10:45 AM	13369	4000	
	FIN 1 PM	13184	200	
	4 ADJUST TO 75" (1275 GAL)			
	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. 49" & ADJUST TO 60" (2100 GAL)			
	8 INSPECT HOMOG STRAINER & CLEAN IF NECESSARY			
208	7 RUN 10" (200 GAL) WATER INTO V-262 START			
	AGITATOR & INSTALL TEMP CHART			
SV	10 PUMP V-205 THRU HOMOG AT 4800-5200 PSI INTO SV			
	RECORD: TIME START 7:15 PM TOTAL MINUTES 110			
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	2465	983-D	2465
	15 RUN 1000# WATER INTO V-384 & PUMP TO V-349			
3	16 ADJ V-349 TO 17" (805 GAL) & STIR 15 MIN			
	17 RECORD DENSITY: 1.105 G/ML (1.103-1.105)			
SV	18 WHEN S-11 HOMOG COMPLETE, ADJ SV TO 24" (2420 GAL)			
	19 RECORD: PH 11.1 & ADJ TO 11.1-11.3 WITH CAUSTIC			
4	AT 5% (10 PARTS WATER TO 1 PART N-7-D)			
	ASSUME 50%	40	7-D	20
	SIPHON N-7-D INTO SV & RECORD: PH 11.1			
120	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 30 9.622#/GAL 37.3 GAL		27-D	361
386	22 STIR 15 MIN OR LONGER			
5	23 RECORD: DENSITY 1.075 G/ML (1.073-1.075)			

PUNCHED & CHECKED

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Jan

SV	24	WHEN S 20 HEATING COMPLETE, RECORD: PH <u>9.9</u>			
	25	SET V-343 ACID PUMP AT 49 SETTING (285 MIN)			
	26	SET V-349 SILICATE PUMP AT 38 SETTING (240 MIN)			
	27	IMMEDIATELY METER IN V-343 & V-349. MAINTAIN SV			
	28	AT 190-194°F DURING STRIKE			
	28	RECORD:	START	FINISH	MINUTES
		V-343	<u>11:10 PM</u>	<u>3:55 AM</u>	<u>285</u>
		V-349	<u>11:10</u>	<u>3:55</u>	<u>285</u>
		V-343	V-349	SV	NORMAL
		TIME	INCHES	INCHES	PH
		AT 20 MIN <u>11:30</u>	(37)	(16)	<u>9.5</u> (9.3-10.0)
		40 MIN <u>11:50</u>	(34)	(14)	<u>9.5</u> (9.3-10.0)
6		1 HR <u>12:10</u>	(31)	(13)	<u>9.5</u> (9.3-10.0)
		2 HR <u>1:10</u>	(23)	(9)	<u>9.6</u> (9.3-10.0)
		3 HR <u>2:10</u>	(15)	(4)	<u>9.6</u> (9.3-10.0)
		4 HR <u>3:10</u>	(6)	(0)	<u>9.5</u> (9.3-10.0)
		FINISH <u>3:55</u>	(0)		<u>7.0</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			
7		160-170°F			
	30	ADD DRESINATE "X" IN 12-13 MIN	600	530-A	600
	31	STIR 5 MIN & RECORD: PH <u>10.2</u> (9.5-10.5)			
	32	STIR 20 MIN OR LONGER FOR S-45			

385	33	RUN 40" (308 GAL) WATER INTO V-385 & HEAT TO			
8		135-140°F			
	34	DUMP IN ALUM & STIR TO DISSOLVE FOR S-41	280	15-A	280

302	35	ADD 42" (513 GAL) WATER TO V-302			
9	36	ADD & STIR 2 MIN FOR S-43	ASSUME 50%	320	7-D
				160	

SV	37	WHEN V-349 MT, RINSE IN WITH MINIMUM WATER &			
	38	SET PUMP AT ZERO SETTING			
10	39	WHEN V-343 MT, RINSE IN WITH MINIMUM WATER &			
	40	TURN OFF PUMP MOTOR			
	41	TURN OFF STEAM			
	42	SIFT IN BLANC FIXE	200	12B-A	200
	43	RUN IN V-385 FROM S 34 & STIR 5 MIN			
	44	RECORD: PH <u>9.5</u> (3.7-4.2)			
	45	RUN IN N-7-D FROM S 36 IN 10-12 MIN & STIR 5			
		MIN			
	46	RECORD: PH <u>9.4</u> (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			
	47	RUN IN V-330 THRU 20 MESH SCREEN & STIR 20 MIN			

330	48	RUN 11" (216 GAL) WATER INTO V-330			
11	49	DUMP IN CALCIUM CHLORIDE & STIR 5 MIN FOR S-48	230	20-A	230

SV	48	RUN V-330 INTO SV IN 15-20 MIN			
12	49	STIR 15 MIN & RECORD: PH <u>9.4</u> (9.0-10.0)			
	50	DO NOT STOP AGITATOR			
		START	FINISH	OPERATOR	
		<u>3:10 PM</u>	<u>11:10 PM</u>	<u>54-201</u>	
		<u>11:00 PM</u>	<u>5:30 AM</u>	<u>237</u>	



