S.V. C.V. 901, 903 D.V. 902,904 9PL

*CG 32 CODE RT-867-D PKG ___ PROCESSES ( ) RT-867-D (G) APPROVED BY: EWK 01/21/82

OCT 11 1982 ( DATE ) K2K13 (LOT NUMBER) COMTYP JOB NAME: 32RT867DMG

EST. WT. 2386* LBS. STANDARD HRS. _____ TIME _____M

PREPARATION NOTES: _____

| EQUIPMENT | | NAME: WATCHUNG RED B | USE LBS | N-CODE | ACCT LBS |
|---|---|---|---|---|---|
| | | NOTE: DO NOT START IF PRESS WILL NOT BE AVAILABLE WITHIN 3 HRS AFTER MAKING. MAKING SUPVR TO REVIEW WITH P.R. SUPV & RECORD: PRESS WILL BE READY _____M_____PR SUPVR START MAKING _____M_____MAKING SUPV_____ NOTE: NOTIFY PRESS ROOM BEFORE ROPING OFF AREA UNDER V-922 NOTE: RUN 15' WATER INTO V-904. PUMP WATER FROM V-904 THRU DISTRIBUTOR. IF WATER DOES NOT COME OUT OF ALL DISTRIBUTOR HOLES WITH FULL FORCE, NOTIFY SUPERVISOR. | | | |
| PREP 1 | 1 | RECORD: ____BATCHES SINCE SPARKLER LAST CLEANED. AFTER 4 BATCHES, CLEAN, DRESS SPARKLER & PRE-COAT WITH 15# DICALITE, FILTER AID | _____ | 777-A | ____ |
| | 2 | OBTAIN FOR S7 2-CHLORO-4-AMINOTOLUENE-5-SULFONIC ACID | | 740-C | |
| | 3 | OBTAIN FOR S23 3-HYDROXY-2 NAPHTHOIC ACID | | 82-C | |
| | 4 | INSTALL DV & CV RECORDER & CONTROLLER CHART | | | |
| 922 2 | 5 | RUN 38" (783G) WATER INTO V-922 | | | |
| | 6 | WEIGH SODIUM HYDROXIDE IN V-926 & RUN IN M 12, 50 16 % | 451 | 7-D | 226 |
| | 7 | TURN ON AGITATOR & STEAM & DUMP IN FROM S2 | | 740-C | 1157 |
| | | 2-CHLORO- LOT 100% % | | | |
| | | 4-AMINOTOLUENE 314 968 98.45 | 983 | 340 | |
| | | 5-SULFONIC 302 189 98.75 | 191 | 744 | |
| | | ACID | | 49 | |
| | 8 | DUMP IN ACTIVATED CARBON | 25 | 113-B | 25 |
| | 9 | DUMP IN FILTER AID | 10 | 777-A | 10 |
| | 10 | HEAT TO 212-214 DEG F WATCH FOAM | | | |
| | 11 | RECORD: BY +, MUST BE + SODIUM HYDROXIDE ASSUME 50% | _____ | 7-D | ____ |
| | 12 | STIR 30 MIN AT 212-214 DEG F, THEN SHUT OFF STEAM WATCH FOAM RECORD: SPARKLER PRESSURE 00 PSI. IF NOT ZERO, NOTIFY SUPERVISOR | | | |
| | 13 | CIRCULATE 15 MIN OR LONGER THRU SPARKLER UNTIL SOL'N IS CLEAR. MAINTAIN AT 190-195 F FOR S16 RECORD: START 9.45 TOTAL MIN 15 CLARITY O.K. | | | |
| | 14 | RECORD: HT ___ DEG F + REC ___ DEG F | | | |

CHECK-WEIGH & RECORD ON BACK PAGE

OCT 13 1982

10/10

1468
1421
467

MAKING INSTRUCTIONS BATCH UNIT

| EQUIPMENT | | | USE LBS | N-CODE | ACCT LBS |
|---|---|---|---|---|---|
| | | PAGE 2 OF 3 CG 32 CODE RT-867-D (G) | | | |
| 904/CV 3 | 15 | RUN 1" (___G) WATER INTO V-901 NOTE: | | | |
| | | USE CV IF MTY, IF CV IS NOT AVAILABLE USE V-904 | | | |
| | 16 | WHEN S13 COMPLETE, PUMP IN V-922 THRU SPARKLER MAINTAIN V-922 AT 190-195 DEG F | | | |
| MISC 4 | 17 | WEIGH SODIUM NITRITE IN PT FOR S35 M 9 , 33.36 % | 1124 | 725-A | 375 |
| | 18 | WEIGH SODIUM NITRITE IN DRUM FOR S40 M 9 , 33.36 % | 99 | 725-A | 33 |
| | 19 | WEIGH SODIUM NITRITE IN DRUM FOR S41 M 9 , 33.36 % | 33 | 725-A | 33 |
| | 20 | MEASURE 99+33 UNITS IN V-928 FOR S32 HYDROCHLORIC ACID M 2 , 31.01 % | 1793 | 28-D | 556 |
| 902 5 | 21 | RUN 66" (1720G) WATER INTO V-902 | | | |
| | 22 | WEIGH IN V-926 & RUN IN M 12 , 50.16 % | 1421 | 7-D | 713 |
| | 23 | DUMP IN FROM S3 LOT | | 82-C | 1056 |
| CHECKWEIGH BY RELOAD AND BALANCE | | 3-HYDROXY- 8107 | 56 | | |
| | | 2-NAPHTHOIC ACID 8292 | 1000 | | |
| | 24 | ADJ TO 70-90 DEG F & STIR 10 MIN OR LONGER TO DISSOLVE FOR S41 | | | |
| 922 6 | 25 | WHEN S18 COMPLETE, STOP PUMP & INSERT V-922 FOOT PLUG | | | |
| | 26A | RUN IN 10" (167G) WATER & HEAT TO 190-195 F CIRCULATE 15 MIN THRU SPARKLER | | | |
| 904/CV 7 | 26B | PUMP V-922 THRU SPARKLER INTO V-904/CV | | | |
| 922 8 | 27A | RUN IN 5", (80G) WATER & HEAT TO 190-195 F CIRCULATE 15 MIN THRU SPARKLER | | | |
| 904/CV 9 | 27B | PUMP V-922 THRU SPARKLER INTO V-904/CV | | | |
| | 28 | WHEN MT BLOW OUT SPARKLER INTO V-904/CV | | | |
| | 29 | HEAT TO 165-170 DEG F | | | |
| | | NOTE: IF N-740-C SOL'N (S15 & 16) WAS PUMPED DIRECTLY FROM SPARKLER TO CV OMIT S30,31 | | | |
| CV 10 | 30 | RUN IN 1" (95G) WATER INTO V- | | | |
| | 31 | PUMP V-904 AT 165-170 DEG F THRU UNDERSURFACE DISTRIBUTOR INTO CV AFAP (12-15 MIN) MAINTAIN 165-170 DEG F IN CV | | | |
| | 32 | RUN IN N-28-D HYDROCHLORIC ACID FROM S20 IN 12-15 MIN | | | |
| | 33 | STIR 15 MIN AT 165-170 DEG F | 48 | | 1540 |
| | 34 | ADJ TO 47" (4442G) AT 32-38 DEG F | X330 | 57-A | |
| | 35 | RUN IN N-725-A SODIUM NITRITE FROM S17 AFAP (5-10 MIN) & RINSE IN PT. | | | |

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| EQUIPMENT | | PAGE 3 OF 3 CG 32 CODE RT-867-D (G) | USE LBS | N-CODE | ACCT LBS |
|---|---|---|---|---|---|
| CV 10 CONT | 36 | STIR 20 MIN AT 28-32 DEG F MAINTAINING +CR, +KI. RECORD: TIME START 2:00 PM | | 57-A | |
| | | CR + (+), KI + (+) | | | |
| | | NOTE: (1) IF CR-, KI- ADD 20# "AS IS" INCREMENTS HYDROCHLORIC ACID ASSUME 32% | | 28-D | |
| | | RECORD CR_____(+) KI_____(+) | | | |
| | | (2) IF CR+, KI- ADD 20# "AS IS" INCREMENTS SODIUM NITRITE ASSUME 33% | | 725-A | |
| | | RECORD CR_____(+) KI_____(+) | | | |
| | 37 | DUMP IN CALCIUM CHLORIDE | 782 | 20-A | 782 |
| | 38 | DUMP IN BARIUM SULFATE | 55 | 65-A | 55 |
| | 39 | ADD TO MAINTAIN CV AT 32-38 F THRU S44 | 33X330 | 57-A | 10890 |
| | 40 | POUR IN N-725-A SODIUM NITRITE FROM S18 | 33 | | |
| 902 11 | 41 | POUR N-725-A SODIUM NITRITE FROM S19 INTO V-902 | | | |
| | 42 | DUMP IN AMMONIUM CHLORIDE & STIR 2-3 MIN | 226 | 165-A | 226 |
| CV | 43 | IMMEDIATELY COUPLE V-902 THRU UNDERSURFACE DISTRIBUTOR INTO CV IN 18-22 MIN. MAINTAIN CV - 32-38 DEG F. | | 57-A | |
| | | RECORD: START 2:55 PM TOTAL MIN 70 | | | |
| 315 | 44 | STIR 30 MIN | | | |
| | 45 | RECORD: BASE + (+) DIAZO = (-) | | | |
| | | PH 7.9 (9.0-9.8) | | | |
| | 46 | ADJ TO PH 9.0-9.2 SODIUM HYDROXIDE ASSUME 50% | 98 | 7-D | 19 |
| | | RECORD: PH 9.05 HYDROCHLORIC ACID ASSUME 32% | | 28-D | |
| PT 13 | 47 | RUN +/- 70G AT 135-145*F FROM HOT WATER MIXER INTO PT | | | |
| | 48 | DUMP IN BARIUM CHLORIDE | 200 | 16-B | 200 |
| | 49 | STIR TO DISSOLVE FOR S50 | | | |
| CV 14 | 50 | WHEN S49 COMPLETE, RUN PT INTO CV & RINSE IN PT | | | |
| | 51 | MEASURE I OCTANOL IN CALIBRATED CONTAINER & POUR IN | 38 | 588-A | 38 |
| 600 50% 625 | 52 | HEAT TO 193-195 DEG F IN 75-80 MIN | | | |
| | 53 | RECORD: HT 193 DEG F & REC 191 DEG F | | | |
| | 54 | STIR 60 MIN AT 193-195 DEG F | | | |
| | 55 | AFTER 20 MIN S54 STIR RECORD: PH 7.6 (8.2-8.6) | | | |
| | 56 | WHEN S54 COMPLETE, FLOOD TO 180-190* (+/- 18,000G) & STOP AGITATOR | | | |
| | | WHEN INSTRUCTED BY PROCESS AREA HALFWAY THRU PRESSING, DUMP IN I OCTANOL & STIR 5 MIN STOP AGITATOR & RESUME PRESSING | 10 | 588-A | 10 |

| START | FIN | OPTR |
|---|---|---|
| 2:25 PM | 3:20 PM | SK 2 |
| 30 | 745 P | 120 |

DUP050102178

CODE: Rt 867 LOT K2K13

N- 74U -C CHECK-WEIGH & CALCULATE

| DRUM STENCILED | | | | | NEWARK CHECK-WEIGH | | | | |
|---|---|---|---|---|---|---|---|---|---|
| LOT | GROSS | TARE | Net | % | GROSS | TARE | NET | | #100% |
| 314 | [illegible] | 1 | 325 | 98.45 | 344 | 18 | 327 | X % AS DECIMAL | 322 |
| 314 | | | 325 | 98.45 | 344 | 18 | 327 | | 322 |
| 314 | | | 325 | 98.45 | 346 | 18 | 329 | | 324 |
| | | | | | | | | | |
| [illegible] | STUMP | | | 98.75 | 240 | 49 | 191 | | 189 |
| | | | | | | | | | |
| TW | | | | | [illegible] | | | | 1157 |

N- 82 -C

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 8292 | 266 | 16 | 250 | | 266 | | | | |
| 8292 | 266 | 16 | 250 | | 267 | | | | |
| 8292 | 266 | 16 | 250 | | 267 | | | | |
| 8292 | 266 | 16 | 250 | | 266 | | | | |
| 8107 | 266 | 16 | 25 | | 266 | | MADE 56 # Stump | | |

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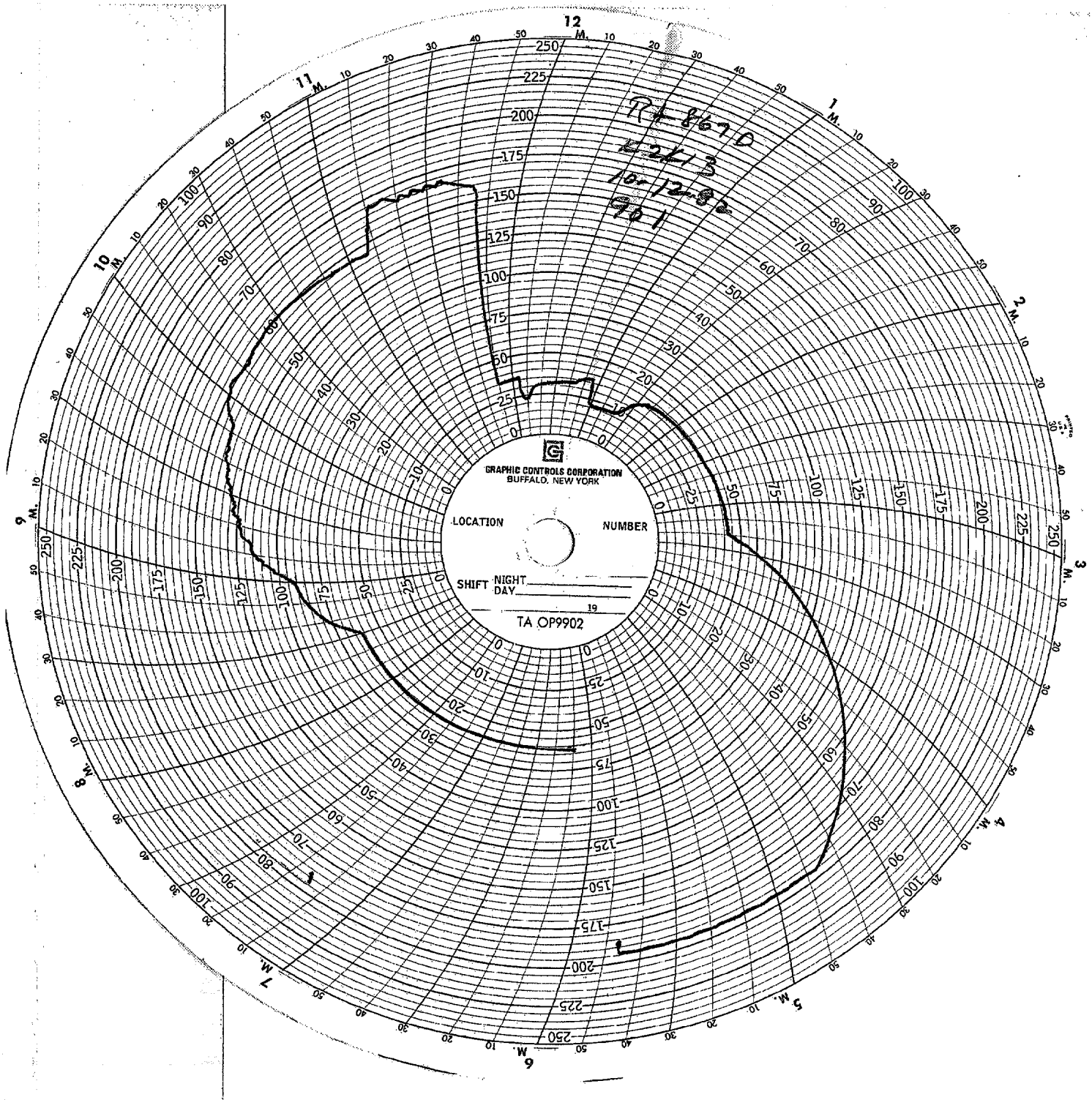


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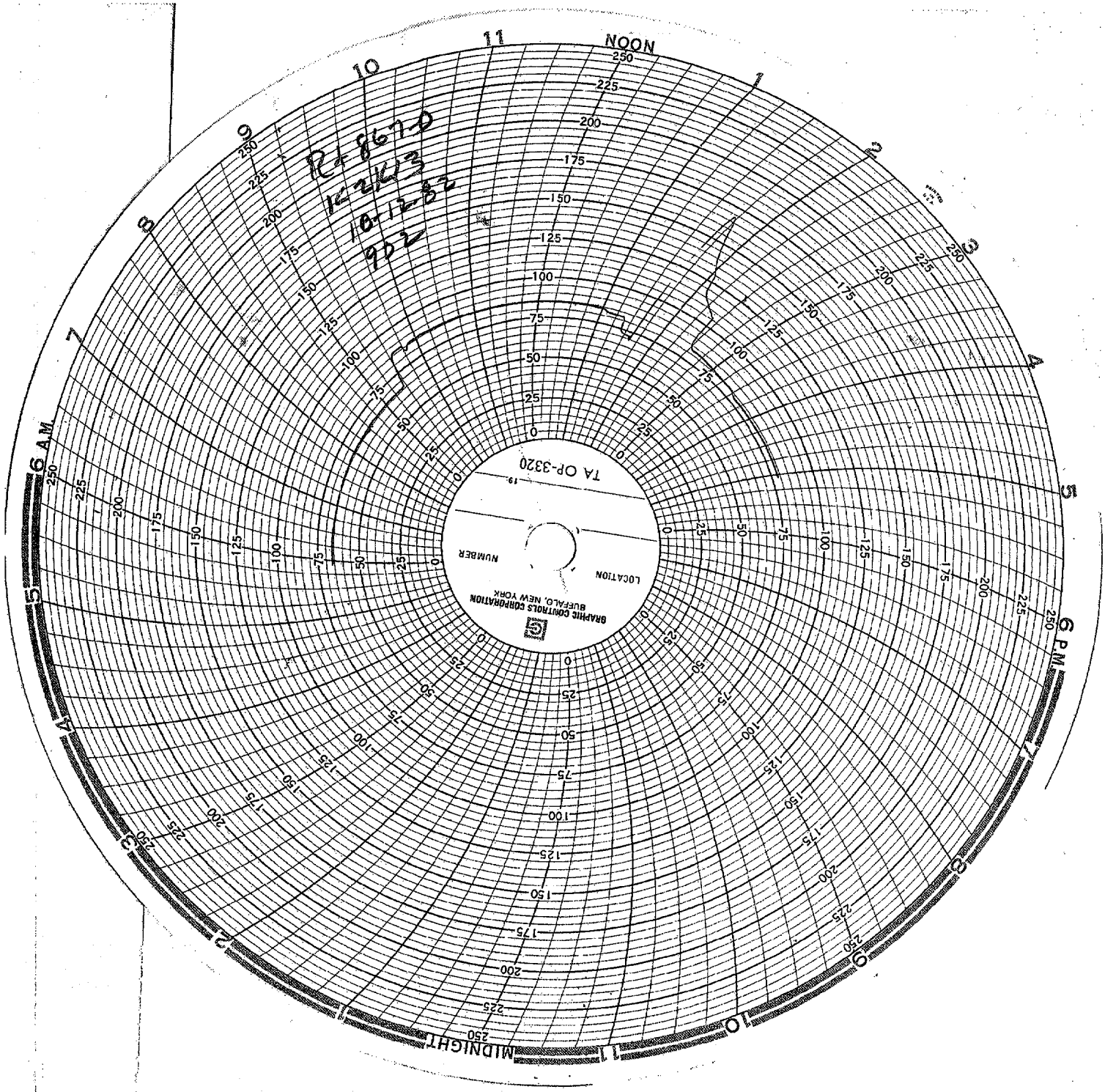


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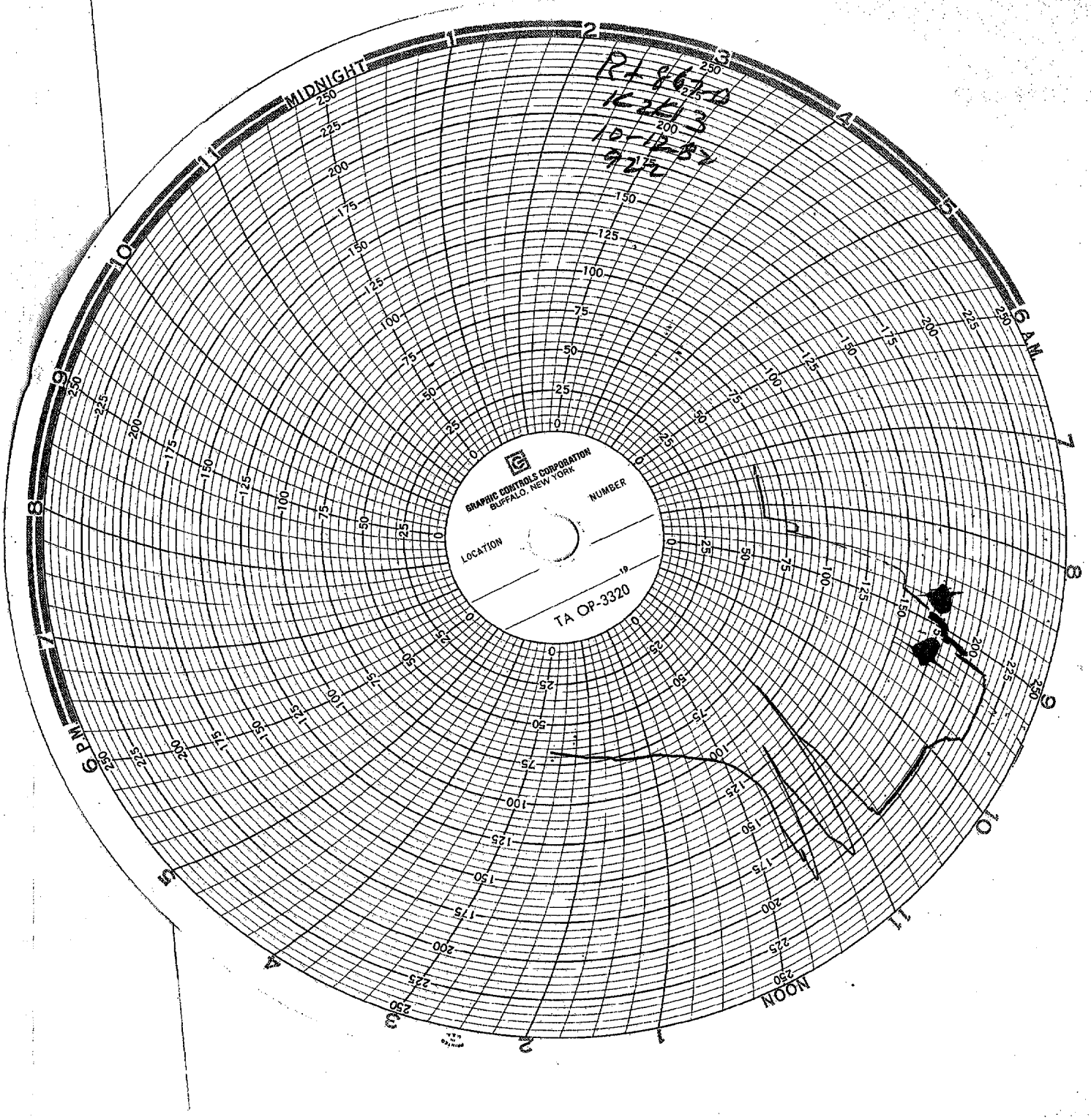


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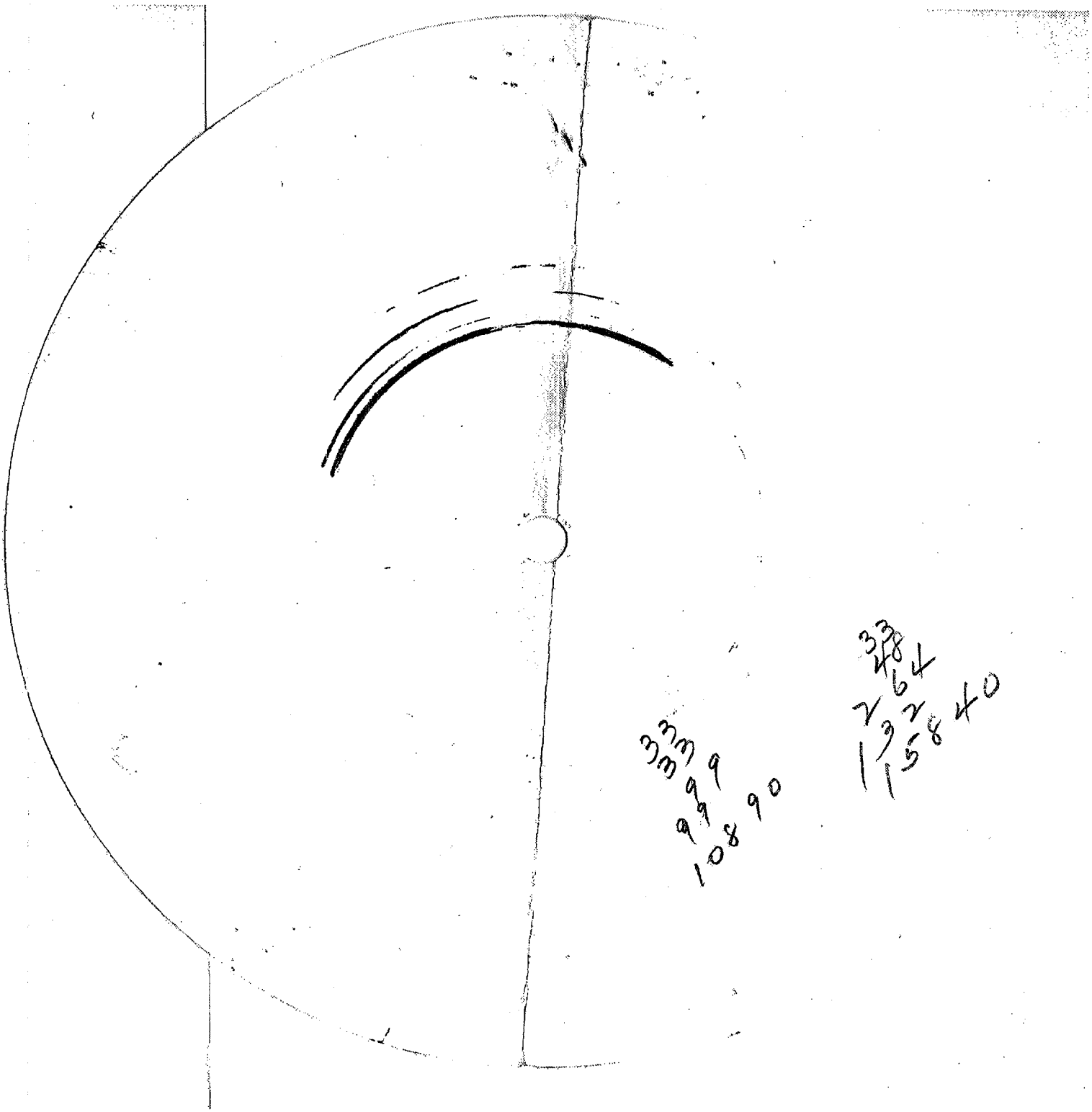


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