

# CHLORINATED METHANES PLANT COMMUNIQUE'

DATE: 10 / 30 / 1990

FROM: RICKY JACK

SUBJECT: P-651 SEALS

THIS FORM IS USED TO INSURE THE ATTACHED INFORMATION IS COMMUNICATED TO ALL PLANT PERSONNEL. IF YOUR INITIALS ARE BY YOUR NAME THE FOLLOWING COMMUNIQUE' HAS BEEN REVIEWED

ARND ARMAND BC BEIELER BK BICKHAM RB BLANCHARD  
BOCK BORDELON JB BOURG BOURGEOIS  
CLEBERT FC COOK F. JC COOK J. CRAWFORD  
CD DAVIS DONATTO DOUCET DUGAS DEKEY  
50E ELLIS GRANT GRAVOUILLA HANEY  
HARRISON OS JACK O. JACK R. JACKSON  
JOHNSON KIRSH LONDON MICHEL  
BM MILLENDER MONTGOMERY IN NOAH PATTERSON  
90 PIERCE RIZZO SACKS SIMONSON  
TOUCHET TRICE WILLIAMS WIEGLE  
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## P-651 SEALS

THE NEW P-651 PUMPS ARE NOW EQUIPPED WITH DOUBLE MECHANICAL SEALS. THE PROCESS WATER TO THE SEALS SHOULD STAY WIDE OPEN ON THE INLET AND THROTTLED ON THE OUTLET TO MAINTAIN ~50 PSIG (AS LONG AS IT IS ABOVE 50 PSIG, WE'RE PROBABLY OK!).

THE PROCESS WATER SERVES 2 MAIN PURPOSES.

- 1) TO PROTECT YOU IF THE PRIMARY SEAL FAILS
  - 2) TO REMOVE HEAT IN THE SECONDARY SEALING AREA
- IF THE SEAL ON THE SULFURIC SIDE (PRIMARY SEAL) FAILS, YOU WILL PUT WATER IN THE SYSTEM THROUGH THE SEAL TO PREVENT LEAKING SULFURIC TO THE ATMOSPHERE.

THIS SETUP IS VERY SIMILAR TO WHAT WE HAVE ON THE P-620's. LET ME KNOW IF YOU HAVE ANY QUESTIONS.

RICKY JACK

# CHLORINATED METHANES PLANT COMMUNIQUE'

DATE: 10 / 8 / 1990

FROM: JOHN SACK

SUBJECT: CYCLOHEXANE OFF-LOADING PROC

THIS FORM IS USED TO INSURE THE ATTACHED INFORMATION IS COMMUNICATED TO ALL PLANT PERSONNEL. IF YOUR INITIALS ARE BY YOUR NAME THE FOLLOWING COMMUNIQUE' HAS BEEN REVIEWED

BA ARMAND BB BEIELER CO BICKHAM BB BLANCHARD  
~~BOCK~~ ~~BORDELON~~ MAN BOURG ~~BOURGEOIS~~  
~~CLEBERT~~ FC COOK F. JCC COOK J. ~~CRAWFORD~~  
CD DAVIS ~~DONATTO~~ BB DOUCET AD DUGAS HS ZEKEY  
VC ELLIS CR GRANT ~~GRAVOUILLA~~ ~~HANEY~~  
BD HARRISON OS JACK O. ~~JACK R.~~ ~~JACKSON~~  
~~JOHNSON~~ ~~KIRSH~~ ~~LONDON~~ ~~MICHEL~~  
DM MILLENDER ~~MONTGOMERY~~ IN NOAH ~~PATERSON~~  
PIERCE ~~RIZZO~~ JH SACKS ~~STIMONSON~~  
~~TOUCHET~~ ~~TRICE~~ KIT WILLIAMS ~~WIEGLE~~  
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## **CYCLOHEXANE OFF-LOADING PROCEDURES**

**SAFETY AND ENVIRONMENTAL:** CYCLOHEXANE IS A FLAMMABLE LIQUID AND IS LIGHTER THAN WATER. AVOID INHALATION AND SKIN AND EYE CONTACT. THE TLV IS 300 PPM.

**SAFETY EQUIPMENT:** STANDARD PLUS MONOGOGGLES AND RUBBER GLOVES.

### **PROCEDURE:**

SEE ATTACHED DRAWING FOR REFERENCE

- GRAB A SAMPLE FROM THE TANK TRUCK.
- HAVE LAB PERSON (TERRY) RUN AN ANALYSIS TO ENSURE QUALITY.
- RED TAG SYSTEM (3 TAGS - SEE DRAWING)
- CLOSE THE CYCLOHEXANE CONTROL VALVE AND MANUALLY BLOCK IN AND TAG AT TANK.
- ENSURE THE M2 LINE IS BLOCKED IN AND RED TAGGED.
- BLOCK AND TAG BLOCK NITROGEN TO D-100A.
- DEPRESSURE TANK TO DRY VENT HEADER. IF LOAD ON THROX IS NOT TOO HEAVY, OPEN VENT BYPASS VALVE TO SPEED UP VENTING.
- THE TRUCK DRIVER SHOULD HAVE ALL THE HOSES AND CONNECTIONS. CONNECT THE LOAD HOSE TO THE VALVE THAT TEES OFF THE M2 ADDITION LINE.
- BEFORE OPENING VALVE TO BEGIN OFF-LOADING, INFORM BOARDMAN AND HAVE HIM SET THE HIGH LEVEL ALARM TO 80 %. A DOW PERSON MUST REMAIN OUTSIDE TO MONITOR THE OFF-LOADING PROCESS.
- OPEN THE FILL VALVES AT THE TANK AND BEGIN OFF-LOADING TRUCK.

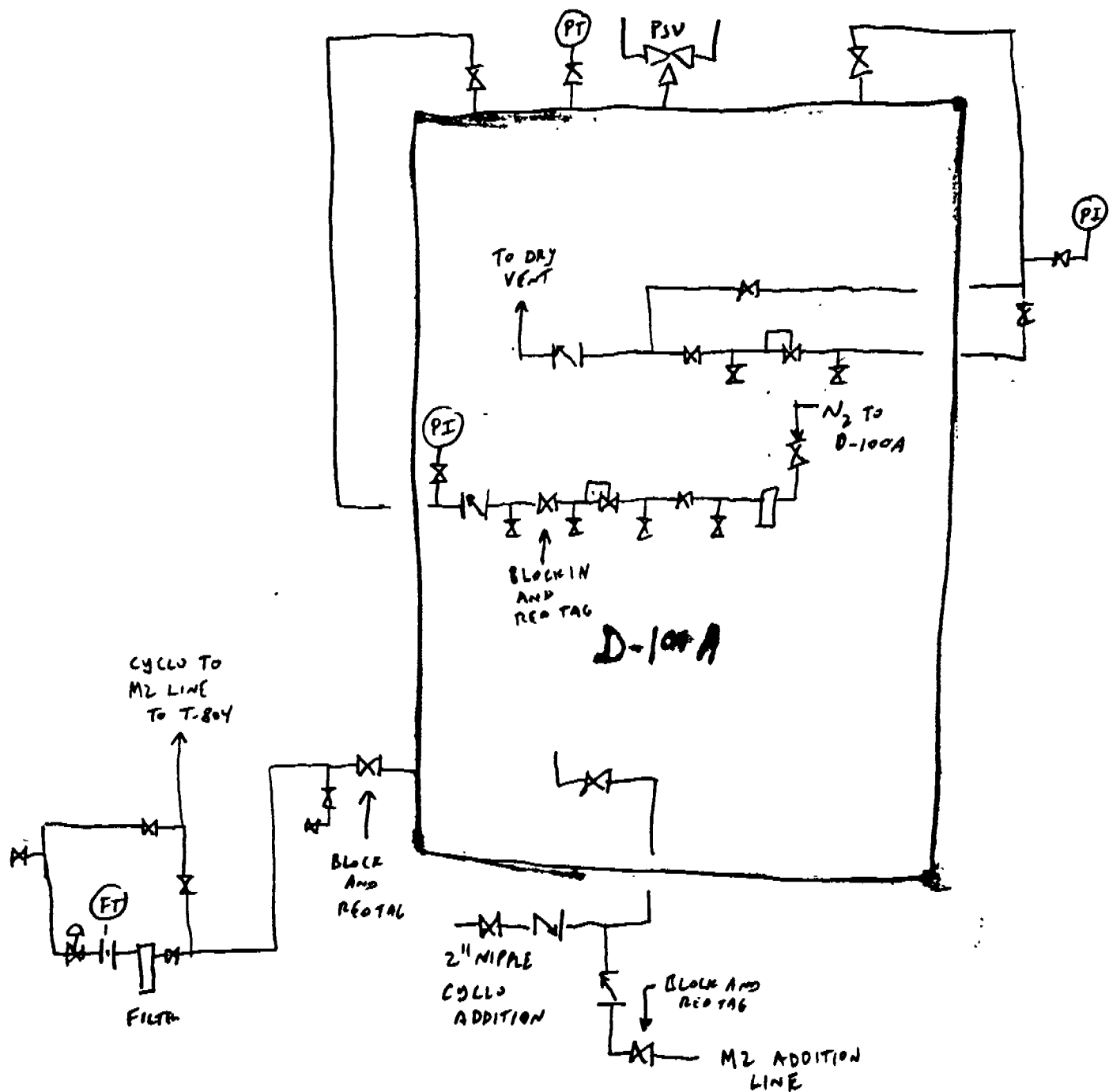
**JOHN SACKS**

**10/8/90**

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- WHILE OFF LOADING, BOARDMAN SHOULD OCCASIONALLY MONITOR PRESSURE. THE ALARM ON TDC IS SET FOR 50 PSIG AND THE RELIEF VALVES BLOWS AT 150 PSIG.
- AFTER THE JOB IS FINISHED, PULL RED TAGS AND LINE UP SYSTEM. MAKE SURE HOUSEKEEPING IS DONE ON THE AREA. THE DRUM SHOULD BE PRESSURED BACK UP TO APPROXIMATELY 30 PSIG.
- CHANGE FILTER AT THE CYCLOHEXANE MAX FLOW METER. THE FILTERS ARE LOCATED IN THE INSTRUMENT SHOP.
- ADD M2 TO THE DRUM UP TO THE LEVEL DESIGNATED BY AREA ENGINEER.

# D-100 A CYCLOHEXANE TANK



# CHLORINATED METHANES PLANT COMMUNIQUE'

DATE: 10/108/1990

FROM: R J Bordelon

SUBJECT: DIVISION OUTFALL C.O.W. SYSTEM

THIS FORM IS USED TO INSURE THE ATTACHED INFORMATION IS COMMUNICATED TO ALL PLANT PERSONNEL. IF YOUR INITIALS ARE BY YOUR NAME THE FOLLOWING COMMUNIQUE' HAS BEEN REVIEWED

ARMAND BEIELER BICKHAM BLANCHARD  
BOCK BORDELON BOURG BOURGEOIS  
CLEBERT COOK F. COOK J. CRAWFORD  
DAVIS DONATTO DOUCET DUGAS ZEKEY  
ELLIS GRANT GRAVOUILLA HANEY  
HARRISON JACK O. JACK R. JACKSON  
JOHNSON KIRSH LONDON MICHEL  
MILLENDER MONTGOMERY NOAH PATTERSON  
PIERCE RIZZO SACKS THOMPSON  
TOUCHET TRICE WILLIAMS WIEGLE  
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TO: CMP SUPERVISION  
OPERATIONS PERSONNEL  
ANALYZER PERSONNEL

SUBJECT: DIVISION OUTFALL C.O.W. SYSTEM

THE DIVISION OUTFALL C.O.W. SYSTEM IS OUT OF SERVICE AND HAS NOT BEEN FUNCTIONAL FOR SOME TIME. YOU HAVE BEEN GETTING ALARMS AND "BAD" READINGS ON SCREEN FS #75, ENVIRONMENTAL DATA BY COMPONENT, WHICH ALSO LOOKS AT OUR C.O.W. ANALYZERS. FOR THE PRESENT TIME AND UNTIL FURTHER NOTICE, IGNORE THE DATA AND/OR ALARMS FROM THE DIVISION OUTFALL C.O.W. ONLY. WE HAVE BEEN PROMISED TO BE NOTIFIED WHEN THIS SYSTEM IS AGAIN FUNCTIONAL.

*RJB*  
RJ BORDELON  
10/08/90

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# CHLORINATED METHANES PLANT COMMUNIQUE'

DATE: 10 / 3 / 1990

FROM: JOHN SACK

SUBJECT: PC/TET ACID

THIS FORM IS USED TO INSURE THE ATTACHED INFORMATION IS COMMUNICATED TO ALL PLANT PERSONNEL. IF YOUR INITIALS ARE BY YOUR NAME THE FOLLOWING COMMUNIQUE' HAS BEEN REVIEWED

1 ARMAND BB BEIELER CB BICKHAM RB BLANCHARD  
~~BOCK~~ ~~BORDELON~~ ~~BOURG~~ ~~BOURGEOIS~~  
~~CLEBERT~~ FL ~~COOK F.~~ ~~COOK J.~~ ~~GRAFFORD~~  
CK ~~DAVIS~~ BDD ~~DONATTO~~ ED ~~DOUCET~~ ~~DUGAS~~ JE ~~EKEY~~  
JOE ~~ELLIS~~ CR ~~GRANT~~ ~~GRAVOUILLA~~ HA ~~HANEY~~  
BB ~~HARRISON~~ OZ ~~JACK O.~~ ~~JACK R.~~ RE ~~JACKSON~~  
~~JOHNSON~~ ~~KIRSH~~ ~~LONDON~~ ~~MICHEL~~  
DM ~~MILLENDER~~ ~~MONTGOMERY~~ TN ~~NOAH~~ ~~PATTERSON~~  
~~PIERCE~~ ~~RIZZO~~ ~~SACKS~~ ~~SIMONSON~~  
~~TOUCHET~~ ~~TRICE~~ VT ~~WILLIAMS~~ ~~WIEGLE~~  
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- 2) PROCEDURE
- 3) F.S. #150 ON PICS
- 4) MIRACLE COLUMN DRAWING (C-510)
- 5) DIVISION AHCI DRAWING

42 381 50 SHEETS 1 SQUARE  
42 382 100 SHEETS 1 SQUARE  
42 383 100 SHEETS 5 SQUARE



## PER/TET ACID LINE

IN ORDER TO DETERMINE WHETHER PER/TET ACID CAN BE USED WITHOUT AFFECTING THE HYDROCHLORINATORS, WE WANT TO HAVE A TRIAL RUN BEFORE THE TURN AROUND. SINCE THE PURIFICATION HEADER PRESSURE RUNS 100 PSIG HIGHER THAN THE PER/TET HEADER AND THERE WAS NO CONTROL VALVE, WE INSTALLED A NEW FLOW CONTROL RUN THAT TIES IN DOWNSTREAM OF THE CMP PRESSURE CONTROL VALVE AND UPSTREAM OF THE EBV. A NEW ORIFICE PLATE WAS INSTALLED ON THE METER RUN DECK ALONG WITH NEW FLOW AND PRESSURE TRANSMITTERS. THE CONTROL VALVE IS A VALTEK BELLOWS SEAL VALVE AND THE PER/TET ACID WILL BE FLOW CONTROLLED USING ONE OF THE METER RUN FLOW TRANSMITTERS.

THE FLOW CONTROLLER WAS PUT IN GROUP 1, SLOT 7 ON THE TDC. THE REDUNDANT METER RUN FLOW WAS PLACED NEXT TO IT IN SLOT 6 AND E-61 OUTLET TEMPERATURE WAS MOVED FROM SLOT 7 TO SLOT 5. THE TWO V-70 TEMPERATURES HAVE BEEN MOVED FROM SLOTS 5 AND 6 IN GROUP 1 TO SLOTS 7 AND 8 IN GROUP 73. THE PRESSURE ON THE PER/TET ACID LINE CAN BE FOUND IN GROUP 109, SLOT 7.

*ALSO IN GROUP 145 ON TDC!!*

FLOW SHEET 150 CONTAINS AN OVERALL PICTORIAL OF THE AHCL HEADERS (SEE ATTACHED DIAGRAM). THE ACID FROM THE MIRACLE COLUMN ALONG WITH TANK VENTS AND LIQUEFACTION VENTS CAN GO TO VINYL II, GO TO CMP, BE ABSORBED TO AQUEOUS AT SOLVENTS, AND/OR BE SCRUBBED WITH CELL EFFLUENT AT SOLVENTS. THE HEADER PRESSURE IS CONTROLLED AT APPROXIMATELY 110 PSIG IN ORDER TO GET INTO THE VINYL HEADER.

WE PLAN TO SET A PER/TET ACID FLOW RATE AND TO CONTROL THE CMP HCL HEADER PRESSURE BY MAKING UP ACID FROM HCL PURIFICATION. IN OTHER WORDS, WE STILL PLAN TO USE THE OLD HCL PRESSURE CONTROL VALVE TO CONTROL THE HEADER. REMEMBER THE PER/TET HEADER ONLY RUNS ABOUT 110 PSIG; THEREFORE, AS THE PRESSURE DROP INCREASES IN THE R-250'S AND THE CMP HEADER PRESSURE IS RAISED, IT WILL BE MORE DIFFICULT TO IMPORT PER/TET ACID.

**SOME WORDS OF CAUTION:** IF THE MIRACLE COLUMN, C-510, HEATS UP, THERE IS A VERY STRONG LIKELYHOOD THAT CHLORINE WILL BE CARRIED OVERHEAD AND INTO THE HEADER. FLOWSHEET 150 ON THE PICS WILL MONITOR THE MOST CRITICAL MIRACLE COLUMN TEMPERATURES. ALSO, SOLVENTS HAS A AOV (A0-421) ON THE

HEADER TO CMP AND VINYL II THAT AUTOMATICALLY SLAMS SHUT WHEN THE C-510 TEMPERATURE GETS TOO HOT. WE ALSO WILL MONITOR AO-421 VALVE POSITION AND THE C-510 OVERHEAD CHLORINE ANALYZER . IF VINYL II IS TAKING PER/TET ACID AND THE AOV SLAMS SHUT, THERE IS THE POTENTIAL OF BACKING UP VINYL II ACID TO CMP. AS A RESULT, AS SOON AS AO-421 CLOSES, BLOCK IN THE PER/TET CONTROL VALVE AND MANUALLY BLOCK IN THE CONTROL LOOP IN THE FIELD.

FOR THIS TRIAL RUN WE WILL START OUT WITH ABOUT 50 MLB/DAY AND SLOWLY INCREASE IT UNTIL ABOUT 100 MLB/DAY. THE RUN WILL LAST ABOUT 5 DAYS TO SEE WHAT BYPRODUCTS ARE MADE. WE PLAN TO SEE MORE PHOSGENE AND ACIDITY IN THE M1 FORWARD, BUT JUST HOW MUCH WE DO NOT KNOW. WE DO NOT EXPECT THE CHLORINE TO CAUSE ANY PROBLEMS IN LOW PPM CONCENTRATIONS, BUT R & D WILL GET INVOLVED IF WE SEE ANYTHING ABNORMAL. BECAUSE OF PICL COMMUNICATION PROBLEMS, THERE IS A GOOD CHANCE THE CRITICAL SOLVENTS' PARAMETERS, MENTIONED ABOVE, WILL NOT BE TRACKED ON FLOWSHEET 150 DURING THIS TRIAL RUN. AS A RESULT, IT IS EXTREMELY IMPORTANT THAT COMMUNICATION WITH BOTH VINYL II AND SOLVENTS IS EXCELLENT.



JOHN SACKS

10/1/90

## PROCEDURE FOR TAKING PER-TET ACID

- 1) CALL SOLVENTS AND VINYL II TO INFORM THEM YOU WILL BE TAKING ACID.
- 2) HAVE VINYL OPEN THEIR HIC VALVE FOR AN  $\frac{1}{2}$  HOUR TO PURGE LINE. THEN HAVE THEM BLOCK IT IN.
- 3) CALL SOLVENTS AND TELL THEM WE WILL BE BRINGING IN ABOUT 40 MIB/DAY OF ACID.
- 4) SLOWLY OPEN UP PER/TET CONTROL VALVE (GROUP 1, SLOT 7). WHEN YOU ARE UP TO 40 MIB/DAY, PUT IT ON AUTOMATIC.
- 5) WATCH ML FORWARD FOR ANY STRANGE PEAKS AND PHOSGENE.
- 6) IF SOLVENTS HAVE A PROBLEM, AN ADV WILL SLAM SHUT AND THE HEADER PRESSURE WILL DROP. IF SO, CLOSE CONTROL VALVE AND MANUALLY BLOCK IN A VALVE IN THE FIELD. IT IS ADVISABLE TO CALL SOLVENTS EVERY 4 HOURS OR SO TO MAKE SURE EVERYTHING IS OKAY.

THE ADV AT SOLVENTS WILL CLOSE IF 2 OF THE FOLLOWING 3 OCCUR.

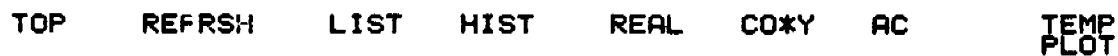
|          |               |                  |           |
|----------|---------------|------------------|-----------|
| A1 (279) | C-SIO TANK 17 | TEMP EXCEEDS     | -50       |
| A1 (380) | " "           | 21 "             | -60       |
| A1 (330) | C-SIO $Cl_2$  | ANALYZER EXCEEDS | 1000 ppm. |

CALL ME IF ANY QUESTIONS.



10/6/90

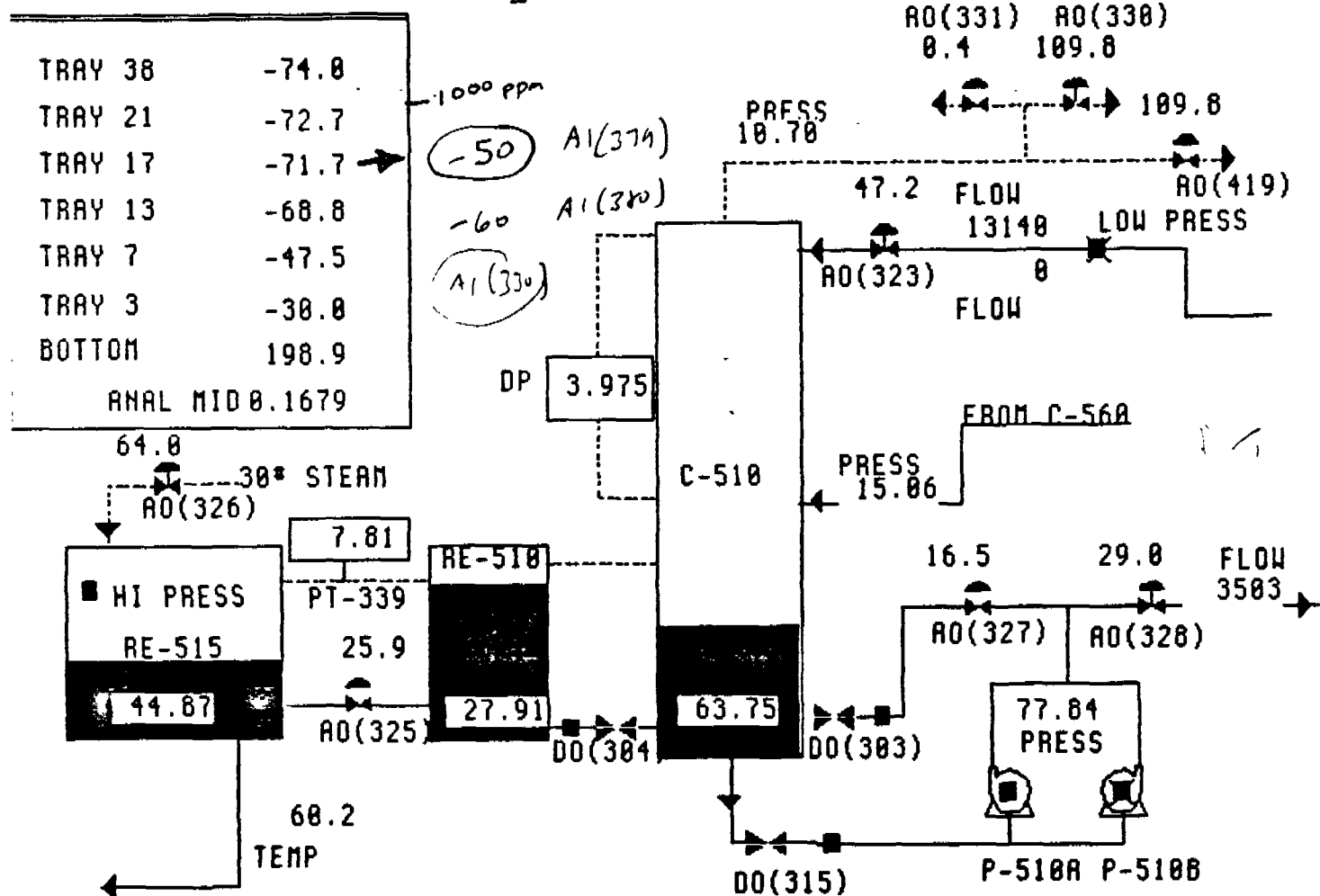
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FIRST TEXT CHART  
 1. FOR COPY

JUST ANALYZER

$$A1(441) = 10 \text{ ppm}$$



SECTION : 9 SHEET : 06

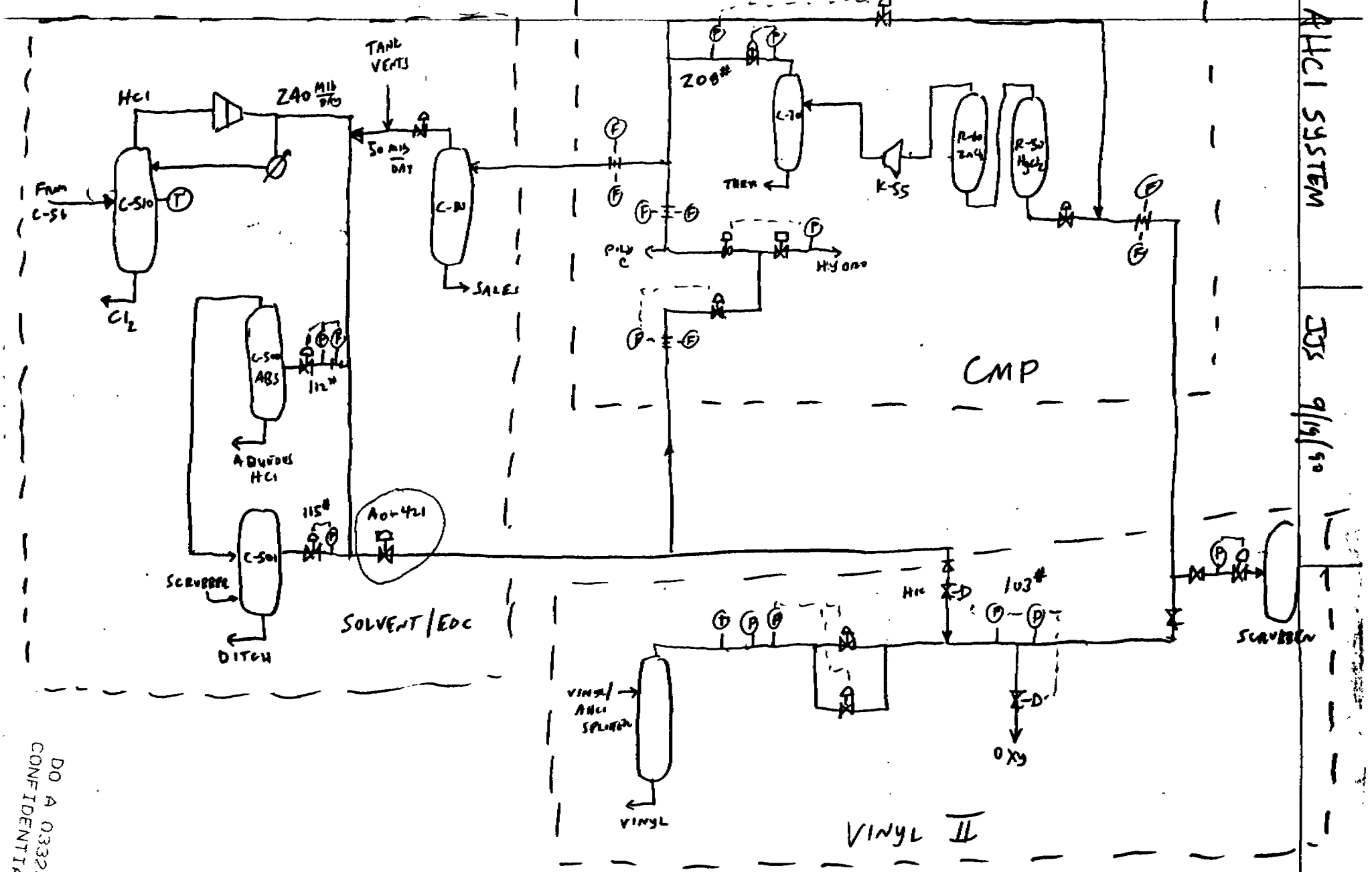
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MIRACLE COLUMN

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