

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: 12/14/95, 1995

FROM: Jim Haney

SUBJECT: Please read you mail message concerning the removal of DI(396), K-1100 High Discharge Pressure Switch, from service. I've also attached a hard copy of the mail message.

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff                         | Supervisors                     | SOS's                               | OS's                              | Loaders     |
|-----------------------------------|---------------------------------|-------------------------------------|-----------------------------------|-------------|
| Init. Date                        | Init. Date                      | Init. Date                          | Init. Date                        | Init. Date  |
| Clebert                           | Cook J. <u>AKC</u> <u>12/23</u> | Breaux <u>FS</u> <u>12/14/95</u>    | Bishop <u>CKS</u> <u>12/14</u>    | Armand      |
| Haney                             | Dugas <u>APP</u> <u>12/14</u>   | Beiler <u>FS</u> <u>12/21</u>       | Bourg <u>CKS</u> <u>12/15</u>     | Doucet      |
| Kelley <u>KN</u> <u>01/14/96</u>  | Day Oper.                       | Bickham <u>AG</u> <u>12/15/95</u>   | Davis <u>OP</u> <u>12/14</u>      | Instruments |
| Ledoux                            |                                 | Cook F. <u>FAC</u> <u>12-14-95</u>  | Ekey <u>CKS</u> <u>11/19</u>      |             |
| McMurray <u>WN</u> <u>2/20/96</u> |                                 | Cavalier <u>AKC</u> <u>12-29-95</u> | Harrison <u>CKS</u> <u>12/19</u>  |             |
| Michel                            | Donatto                         | Grant <u>u</u> <u>12-16-95</u>      | Jack <u>OS</u> <u>12/14</u>       | Neyland     |
| Rizzo                             | Grace                           | Gravouilla <u>AKC</u> <u>12/14</u>  | Looney <u>AKC</u> <u>12-14-95</u> | Shanklin    |
| Taylor                            | Johnson                         | Jackson <u>RS</u> <u>12/14</u>      | Wolfe <u>DW</u> <u>12-14-95</u>   |             |
| Witt                              | Simonson                        | Millender <u>AKC</u> <u>12/14</u>   |                                   |             |
| Young                             | Vavasseur                       | Metrejean <u>DM</u> <u>12/14</u>    |                                   |             |

DO A 031902  
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**Haney, Jim**

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**From:** Haney, Jim  
**To:** Armand, Luke; Beiler, Brent; Bickham, Clarence; Bishop, Emerson; Bourg, Jason; Breaux, Richard; Cavalier, Neal; Cook, Freddie; Davis, Clarence; Donatto, Brian; Doucet, Ken; Ekey, John; Grant, Curt; Gravouilla, Dale; Harrison, Donald; Jack, Oliver; Jackson, Russell; Johnson, Jimmy; Looney, Randy; Metrejean, Darren; Millender, Ron; Wolfe, Dennis; Clebert, Julie; Cook, James; Dugas, Donnie; Kelly, Kevin; Ledoux, Stephen; McMurray, Vic; Rizzo, Gary; Taylor, Don; Vavasseur, Terry; Young, Barry  
**Subject:** K-1100 DISCHARGE PRESSURE SWITCH - DI(396) DEMO  
**Date:** Thursday, December 14, 1995 3:43PM

The K-1100 discharge pressure switch, DI(396), was taken out of service today by disconnecting the wire from the CRJB to the Mod5 can. The switch will be removed from the field at a later date. Also, the graphics bulb for DI(396) was deleted.

As all of you well know, a problem in the wiring from the switch to the control room was causing a diagnostics alarm to ring on system B, Can 300. Instead of tracking down the problem and fixing it, a decision was made to take it out of service. This decision was made because the switch doesn't provide any useful purpose in the K-1100 control scheme. There are already two discharge pressure transmitters on K-1100 that are used for discharge pressure control and for a high-high discharge pressure alarm (high select between the two). A deviation alarm is written for the two pressure indications. If the diagnostics alarm is still ringing occasionally due to this input, then we'll have to get the Mod5 hardware people involved. Please let me know if this occurs.

Jim

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Mon, Dec 11, 1995

FROM: Rizzo

SUBJECT: See the attached sheets regarding the changes made to E-455 system.

Changes were made to alarms 260,261,264.

AO(202) and AO(212) control was changed.

This form is used to insure the attached information is communicated to the appropriate plant personnel.

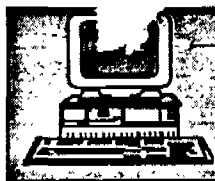
INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff |      | Coaches   |       | SOS's      |          | OS's     |      | Loaders     |      |
|-----------|------|-----------|-------|------------|----------|----------|------|-------------|------|
| Init.     | Date | Init.     | Date  | Init.      | Date     | Init.    | Date | Init.       | Date |
| Clebert   |      | Cook J.   | 12-2  | Breaux     | 12/11/95 | Bishop   |      | Armand      |      |
| Haney     |      | Dugas     | 12/11 | Beieler    | 12/11    | Bourg    |      | Doucet      |      |
| Kelley    |      | Day Oper. |       | Bickham    | 12/11/95 | Davis    |      | Instruments |      |
| Ledoux    |      |           |       | Cook F.    | 12/13/95 | Ekey     |      |             |      |
| McMurray  |      |           |       | Cavalier   | 12-11-95 | Harrison |      |             |      |
| Michel    |      | Donatto   |       | Grant      | 12-11-95 | Jack     |      | Neyland     |      |
| Rizzo     |      | Grace     |       | Gravouilla | 12/11    | Looney   |      | Shanklin    |      |
| Taylor    |      | Johnson   |       | Jackson    | 12-11-95 | Wolfe    |      |             |      |
| Witt      |      | Simonson  |       | Millender  | 12/13    |          |      |             |      |
| Young     |      | Vavasseur |       | Metrejean  | 12/14    |          |      |             |      |

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# CHLORINATED METHANES MOD V DESCRIPTION OF CHANGE



C

System

E-455

Equipment Number

200

Can

## **WARN(260) / (264)**

Revised the code for this alarm so that if AI(217) fails, the alarm can be activated using AI(207).

## **WARN(261)**

Alarm 261 has been added to inform operations that a potential non compliance exist for E-455.

A 5 minute rolling average, AC(950) has been programmed into alarm 261. It averages AI(206) temperature over a 5 minute time span.

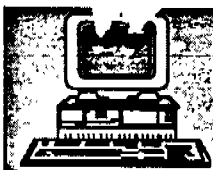
When the vent control valve to atmosphere is enabled and open, indicated by DC(1212) becoming true, a timer will become enabled. When approx. 5 minutes goes by the timer will begin. The timer counts 1 minute intervals. When the timer gets 5 minutes it is rezeroed and starts all over again.

When the timer reaches 5, DC(223) will become "TRUE". When this occurs, if the average temperature, AC(950) is above the non compliance setpoint, the alarm will activate, indicating a potential non compliance.

When the next 5 cycles roles around, if the temperature is above the non compliance setpoint, the alarm will clear and re-ring. This will continue as long as the valve is enabled and the temperature is higher than the non compliance setpoint.

## **AI(206)**

Wrote failure logic for AI(206) - See DC(225)



# CHLORINATED METHANES MOD V DESCRIPTION OF CHANGE



C

System

E-455

Equipment Number

200

Can

## AO(202)

Added the ability to choose between AI(207) and AI(217) for control.

AI(217) will be used for control unless the following occurs: See AC(1239)

- \* If AI(217) fails, indicated by DC(1217) becoming true, AI(207) will be used.
- \* If the operator sets AK(217) equal to 207, AI(207) will be used for control as long as AI(207) hasn't failed.
- \* AC(1239) is also used to enable the control valve, instead of just AI(217).  
(See DC(1212) and DC(510))

## AO(212)

We have revised the code, taking out the separate control points. It will not be necessary to set AK's to choose between points.

When the valve becomes enabled, indicated by DC(917) becoming true, it will immediately go on fixed position control and remain there until AO(202) becomes enabled, at which point it will go on temperature control of AI(206), at AK(553) setpoint.

In the event the control valve is enabled to a fixed position, if , after some time period, the vent control valve to atmosphere, AO(202), hasn't become enabled and if the pressure is lower than the setpoint required to enable the valve and if the temperature is below a given temperature, DC(924) will become true, disabling the valve.

NOTE: If DK(640) has been used to enable the controller, DC(924) will not become true until the pressure has increase enough to make DC(510) true.

DO A 031906  
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# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Thu, Nov 16, 1995

FROM: Rizzo

SUBJECT: Please review the following revised procedures: They have had reactive chemical concerns added to each of them.

M1load.Doc - M1 loading procedure

M1ttload.Doc - M1 Tank Truck Loading Procedure

M23tclod.Doc - M2/M3 Tank Car Loading Procedure

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff  | Supervisors | SOS's      | OS's       | Loaders     |
|------------|-------------|------------|------------|-------------|
|            |             |            |            | X           |
| Init. Date | Init. Date  | Init. Date | Init. Date | Init. Date  |
| Clebert    | Cook J.     | Breaux     | Bishop     | Armand      |
| Haney      | Dugas       | Beieler    | Bourg      | Doucet      |
| Kelley     | Day Oper.   | Bickham    | Davis      | Instruments |
| Ledoux     | X           | Cook F.    | Ekey       |             |
| McMurray   | Init. Date  | Cavalier   | Harrison   | Init. Date  |
| Michel     | Donatto     | Grant      | Jack       | Neyland     |
| Rizzo      | Grace       | Gravouilla | Looney     | Shanklin    |
| Taylor     | Johnson     | Jackson    | Wolfe      |             |
| Witt       | Simonson    | Millender  |            |             |
| Young      | Vavasseur   | Metrejean  |            |             |

DO A 031907  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Thu, Nov 16, 1995

FROM: Rizzo

SUBJECT: Please review the following revised procedures: They have had reactive chemical concerns added to each of them.

C1520su.Doc, C200su.Doc, C202su.Doc, C12pad.Doc, Hazadmat.Doc, K55oilcr.Doc,  
K55su.Doc, Psarchrg.Doc, R1300su.Doc, R250rech.Doc, R250su A.Doc, Solitlod.Doc,  
V1515SU.DOC.

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff  | Supervisors             | SOS's                       | OS's                      | Loaders     |
|------------|-------------------------|-----------------------------|---------------------------|-------------|
|            | <u>X</u>                | <u>X</u>                    | <u>X</u>                  |             |
| Init. Date | Init. Date              | Init. Date                  | Init. Date                | Init. Date  |
| Clebert    | Cook J. <u>JC</u> 11-21 | Breaux <u>JB</u> 11-19      | Bishop <u>CB</u> 11-20    | Armand      |
| Haney      | Dugas <u>DD</u> 11/18   | Beieler <u>BB</u> 11/18     | Bourg <u>BB</u> 11-20     | Doucet      |
| Kelley     | Day Oper.               | Bickham <u>CB</u> 11/22     | Davis <u>CD</u> 11/11     | Instruments |
| Ledoux     |                         | Cook F. <u>FC</u> 1-20      | Ekey <u>EC</u> 11/17      |             |
| McMurray   | Init. Date              | Cavalier <u>MC</u> 11-21-95 | Harrison <u>HC</u> 11/18  | Init. Date  |
| Michel     | Donatto                 | Grant, <u>GC</u> 11-20-95   | Jack <u>OC</u> 11-20      | Neyland     |
| Rizzo      | Grace                   | Gravouilla <u>GB</u> 11/17  | Looney <u>OL</u> 11-20-95 | Shanklin    |
| Taylor     | Johnson                 | Jackson <u>JC</u> 1-1-96    | Wolfe <u>DW</u> 11-24     |             |
| Witt       | Simonson                | Millender <u>RM</u> 11/20   |                           |             |
| Young      | Vavasseur               | Metrejean <u>DM</u> 11/20   |                           |             |

DO A 031908  
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# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Thu, Nov 16, 1995

FROM: Rizzo

SUBJECT: Please review the following revised procedures:

1521samp.Doc, 1750spec.Doc, CMPDEMO.Doc, Confined.Doc, D1sample.Doc,  
D1stup.Doc, Distspil.Doc, E455SU.DOC, Glove.Doc, Offcheck.Doc,  
PUMPTAG.DOC, Quarline.Doc, R-750 Startup.Doc, Safwkper.Doc

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff  | Supervisors<br>X         | SOS's<br>X                 | OS's<br>X                 | Loaders     |
|------------|--------------------------|----------------------------|---------------------------|-------------|
| Init. Date | Init. Date               | Init. Date                 | Init. Date                | Init. Date  |
| Clebert    | Cook J. <i>JRC</i> 11-21 | Breaux <i>LB</i> 11-21     | Bishop <i>UB</i> 11-20    | Armand      |
| Haney      | Dugas <i>DD</i> 11/18    | Beieler <i>bb</i> 11/18    | Bourg <i>JB</i> 11-20     | Doucet      |
| Kelley     | Day Oper.                | Bickham <i>BJ</i> 11/22/95 | Davis <i>JD</i> 11-20     | Instruments |
| Ledoux     |                          | Cook F. <i>FC</i> 11-20    | Ekey                      |             |
| McMurray   | Init. Date               | Cavalier <i>MC</i> 11-20   | Harrison <i>CH</i> 11-18  | Init. Date  |
| Michel     | Donatto                  | Grant <i>GU</i> 11-20-95   | Jack <i>OJ</i> 11-20      | Neyland     |
| Rizzo      | Grace                    | Gravouilla <i>GG</i> 11-17 | Looney <i>RL</i> 11-20-95 | Shanklin    |
| Taylor     | Johnson                  | Jackson <i>RJ</i> 11-24    | Wolfe <i>DW</i> 11-24     |             |
| Witt       | Simonson                 | Millender <i>RM</i> 11/25  |                           |             |
| Young      | Vavasseur                | Metrejean <i>DM</i> 11/20  |                           |             |

DO A 031909  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: 11/9/, 1995

FROM: Brian Donatto

SUBJECT: See the attached copy of the CMP Hearing Conservation program.

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff                        | Supervisors                      | SOS's                              | OS's                              | Loaders                       |
|----------------------------------|----------------------------------|------------------------------------|-----------------------------------|-------------------------------|
| Init. Date                       | Init. Date                       | Init. Date                         | Init. Date                        | Init. Date                    |
| Clebert <u>OC</u> <u>11/10</u>   | Cook J. <u>RC</u> <u>11/11</u>   | Breaux <u>LB</u> <u>11/10/95</u>   | Bishop <u>US</u> <u>11-10</u>     | Armand <u>RA</u> <u>11-28</u> |
| Haney <u>MA</u> <u>11/10</u>     | Dugas <u>ARS</u> <u>11/14</u>    | Beieler <u>BB</u> <u>11/18</u>     | Bourg <u>BS</u> <u>11-13</u>      | Doucet <u>—</u> <u>—</u>      |
| Kelley <u>KS</u> <u>11/10/95</u> | Day Oper.<br><u>—</u>            | Bickham <u>CB</u> <u>11/17/95</u>  | Davis <u>DS</u> <u>11/11</u>      | Instruments<br><u>—</u>       |
| Ledoux <u>LL</u> <u>11/17</u>    |                                  | Cook F. <u>FC</u> <u>11-09</u>     | Ekey <u>ES</u> <u>11/17</u>       |                               |
| McMurray <u>MM</u> <u>12/11</u>  | Donatto <u>DD</u> <u>11/9/95</u> | Cavalier <u>MC</u> <u>11-09</u>    | Harrison <u>HS</u> <u>11/9/95</u> | Neyland <u>—</u> <u>—</u>     |
| Michel <u>—</u> <u>—</u>         |                                  | Grant <u>GA</u> <u>11-13-95</u>    | Jack <u>JS</u> <u>11-90</u>       |                               |
| Rizzo <u>—</u> <u>—</u>          | Grace <u>GB</u> <u>11/17</u>     | Gravouilla <u>GV</u> <u>11-95</u>  | Looney <u>RL</u> <u>11-10-95</u>  | Shanklin <u>—</u> <u>—</u>    |
| Taylor <u>—</u> <u>11/17</u>     | Johnson <u>—</u> <u>—</u>        | Jackson <u>JS</u> <u>11-13</u>     | Wolfe <u>DCW</u> <u>11-10-95</u>  |                               |
| Witt <u>—</u> <u>—</u>           | Simonson <u>—</u> <u>—</u>       | Millender <u>ML</u> <u>11/9/95</u> |                                   |                               |
| Yung <u>—</u> <u>—</u>           | Vavasseur <u>—</u> <u>—</u>      | Metrejean <u>DM</u> <u>11/10</u>   |                                   |                               |

DO A 031910  
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**Dow Chemical LAD  
Chlorinated Methanes Products Plant**

**1995 Written Hearing Conservation Program**

OSHA CFR29 § 1910.95 (Occupational Noise Exposure Standard) and Dow Program Requirements for Hearing Conservation (1990) require that any individual with a dose exceeding or equal to 50% of their allowable daily dose must participate in a hearing conservation program. The Chlorinated Methanes Products Plant hearing conservation program fulfills all of the OSHA and Dow requirements and includes the following elements;

1. Evaluation of Noise Exposure
2. A baseline and annual audiogram
3. Annual training covering the following topics:
  - the effects of noise on hearing
  - hearing protection (proper selection, fit, use and care)
  - the purpose of the audiogram (testing procedures and results)
4. Personal Hearing Protection
5. Engineering and Administrative Controls for Noise
6. Record keeping and Audits

**Evaluation of Noise**

Comprehensive personnel exposure evaluations were performed during 1992 (2-10-92).

Personal noise exposure doses were determined using Dupont Mark II, Quest M15, and Quest M27 audio-dosimeters. Noise exposure monitoring results were based on OSHA settings of; 80 dBA threshold, 90 dBA criterion level, and a 5 dBA doubling rate. The instruments were checked for calibration before and after each use.

Personal noise monitoring results for each job assignment monitored are given on the attached table (Table 1). The results are given as a percent (%) of allowable daily dose with correction for a full shift using the following formula;

$$\frac{\text{Actual Shift (hrs.)}}{\text{Monitored Shift (hrs.)}} \times \text{Actual dose} = \text{Adjusted dose}$$

DO A 031911  
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### Evaluation of Noise (Cont.)

A comprehensive area noise survey was performed during 1994. Area sound pressure level measurements were taken with an Edmont-Wilson Sound Level Meter Model 60-510, Serial Number(SN) 2306 using the A-weighting network and slow meter response.. The instrument was calibrated before and after use with an Edmont-Wilson Calibrator Model 60-535, SN 1183.

Hearing protection is mandatory in all operating areas of the Chlorinated Methanes Plant except for the Loading Rack (some maintenance activities at the load rack require hearing protection). Attached is the most recent area noise surveys (Tables 2 & 3).

### Audiometric Testing

Baseline audiograms have been determined on all employees working in the Chlorinated Methanes Plant. Audiograms will be repeated annually on each employee as required by the OSHA Hearing Conservation Program. Audiogram follow-up will be conducted when medically appropriate.

### Training

A review of the area sound pressure level surveys and personal dosimetry is presented to employees on an annual basis. This program includes;

- the effects of noise on hearing
- the proper selection, fit, use and care of hearing protection
- test procedures and results of the audiometric testing program

### Personal Hearing Protection Devices

Hearing protection is mandatory in all operating areas of the Chlorinated Methanes Plant except for the Loading Rack. All hearing protection chosen shall be able to attenuate below 90 dBA for the noise source and must ensure that the 8 hour time weighted average will not exceed 85 dBA. A combination of earplugs

CMP Hearing Conservation Program

and earmuffs may be needed to reach this level of attenuation in certain areas (this increases the attenuation an additional 5 dBA).

Personal Hearing Protection Devices (Cont.)

Hearing protection devices available are;

| <u>Type</u>               | <u>Noise Reduction Rating</u> |
|---------------------------|-------------------------------|
| Pro-Max Earmuff           | 25 NRR                        |
| Howard Leight Earmuff     | 27 NRR                        |
| Val-U-Fit Earplug         | 25 NRR                        |
| Expand-O-Fit II Earplugs  | 30 NRR                        |
| Howard Leight Max Earplug | 33 NRR                        |

Many other hearing protectors may be available through different suppliers at different times. Only hearing protection that satisfies the requirements of this program will be acceptable for use. Any other type or style of hearing protection will be evaluated by qualified personnel prior to use.

Noise Abatement Plans

All new equipment and any changes in the process will be evaluated for noise, and, when feasible, engineered to keep noise levels below 85 dBA.

There are currently no existing plans or projects involving engineering controls for noise abatement.

\_\_\_\_\_  
Industrial Hygiene Department

\_\_\_\_\_  
Plant Superintendent

Date : \_\_\_\_/\_\_\_\_/\_\_\_\_

Next Review : 11/96

MSB:1195

# CMP Hearing Conservation Program

**Table 1: A Personnel Noise Exposure Survey at the Chlorinated Methanes Plant, Plaquemine, Louisiana during 1992.**

| <u>Job Classification</u>                           | <u>% dose*</u> |
|-----------------------------------------------------|----------------|
| <b>Operations [12 Hour Shift]</b>                   |                |
| Operation Specialist / Distillation                 | 83             |
| Operation Specialist / Condensing                   | 58             |
| Senior Operation Specialist / Outside               | 33             |
| Senior Operation Specialist / Control Board         | 15             |
| Shift Supervisor                                    | 10             |
| <b>Non-Operations [8 Hour Shift]</b>                |                |
| Operation Specialist / Project Crew                 | 45             |
| Operation Specialist / Permit Writer                | 32             |
| Senior Analyzer Specialist                          | 30             |
| Loading Specialist                                  | 20             |
| Senior Instrument Specialist                        | 12             |
| Senior Assistant Chemist                            | 11             |
| Senior Environmental Specialist                     | 11             |
| Engineer                                            | 11             |
| Safety Coordinator                                  | 11             |
| Maintenance Supervisor                              | 10             |
| Training Supervisor                                 | 7              |
| Computer Applications Technician                    | 6              |
| Senior Operation Specialist / Project Crew          | 5              |
| Area Supervisor                                     | 1              |
| <b>Maintenance [8 Hour Shift]</b>                   |                |
| Painter                                             | 108            |
| Insulator                                           | 75             |
| Pipe-Fitter Foreman                                 | 55             |
| Pipe-Fitter                                         | 47             |
| Safety Technician                                   | 44             |
| Equipment Operator                                  | 41             |
| Millwright                                          | 33             |
| Laborer                                             | 31             |
| <b><u>Industrial Hygiene Exposure Guideline</u></b> |                |
| Dow Ceiling                                         | 50             |

\*Personal noise exposure doses were determined using Dupont Mark II, Quest M15 , and Quest M27 audio-dosimeters. Noise exposure monitoring results were based on OSHA settings of; 80 dBA threshold, 90 dBA criterion level, and a 5 dBA doubling rate. The instruments were checked for calibration before and after each use.

CMP Hearing Conservation Program

**Table 2: An Area Noise Survey Following the Chloroform Expansion Project at the Chlorinated Methanes Plant, Plaquemine, Louisiana during 1994.**

| Process Area                                                         | Sound Level dB(A)* |
|----------------------------------------------------------------------|--------------------|
| Knock out drum for air compressor North of D-1003, East of D-1103    | 96-97              |
| West of Knockout drum D-1100 (near steps facing east)                | 96                 |
| North of Blower BL-500                                               | 95                 |
| West of Pump P-1210 (facing east)                                    | 93                 |
| West and East of Blower BL-500                                       | 93                 |
| West of Reboiler at Pump P-1520                                      | 93                 |
| West of the Cooling Tower Water supply and return (facing east)      | 92                 |
| North of Distillation column C-1540 (ten feet away)                  | 91                 |
| East of Distillation Column C-1510 (facing west)                     | 91                 |
| East of Pump P-752A                                                  | 90                 |
| West of Distillation column C-1540 (standing on grating)             | 89                 |
| North of Pump-1020A (five feet away, facing south)                   | 89                 |
| West of Pump P-1260 (facing east)                                    | 89                 |
| West of Blower BL-750                                                | 88                 |
| Northeast Corner of C-610 (standing on grating)                      | 87                 |
| South of Knockout drum S-1300 near the Motor Control Center          | 87                 |
| East of Distillation Column C-1500 (facing west)                     | 87                 |
| South of the THROX                                                   | 87                 |
| Column C-1500 Middle of the road between the Column and the piperack | 86                 |
| South of Pump P-1520                                                 | 86                 |
| South of Pump P-1530 (facing west)                                   | 85-88              |
| Northeast Corner of Pak storage Area                                 | 85                 |
| Middle of the road between Zone 1 and Cooling Tower                  | 85                 |
| West of Knockout drum D-1140 (facing east)                           | 85                 |
| West of Knock out drum D-1110 (facing east)                          | 85                 |
| South of the Distillation Column C-1500 (all directions)             | 84                 |
| South of Pump P-1450                                                 | 84                 |
| West of Analyzer House AH-10 (facing east)                           | 83                 |
| South of Compressor K-213                                            | 82                 |
| North of Pump P-210B (facing south)                                  | 82                 |
| On deck near Pump P-1830 (facing east, facing north)                 | 81-83              |
| West of Reactor R-1300 (facing east)                                 | 81                 |
| East of Reactor R-1300 (facing west near fence)                      | 81                 |
| South of Distillation Column C-210                                   | 81                 |
| North Exit of Bldg. 4601 (10 feet from door )                        | 80                 |
| South Exit door of Bldg. 4606 (facing north)                         | 80                 |
| East Exit door of Bldg. 4606 (facing east)                           | 80                 |
| West of Exchanger E-1303 (standing on grating facing east)           | 80                 |
| South of Blower BL-751                                               | 80                 |
| South of Pump P-1500A                                                | 80                 |
| South of Pump P-1250B                                                | 78                 |
| North of Pump P-1320 (facing south)                                  | 76                 |
| On grating between Tank T-1830 and T-1555                            | 76                 |
| North End of concrete slab (facing north, facing south)              | 73-75              |
| Bottom step inside diked Area near Tank T-1830                       | 72                 |
| <b>Industrial Hygiene Exposure Guideline</b>                         |                    |
| Dow Ceiling                                                          | 90 dB(A)           |

- \* Measurements were taken with an Edmont-Wilson Sound Level Meter Model 60-510, Serial Number(SN) 2306. The instrument was calibrated before and after use with an Edmont-Wilson Calibrator Model 60-535, SN 1183.

# CMP Hearing Conservation Program

**Table 3: An Area Noise Survey Following the Chloroform Expansion Project at the Chlorinated Methanes Plant, Plaquemine, Louisiana during 1994.**

| <u>Process Area - Fin Fan Deck</u>                                                             | <u>Sound Level dB(A) *</u> |
|------------------------------------------------------------------------------------------------|----------------------------|
| Northeast side of Drum D-1100 (on grating, facing west)                                        | 96                         |
| North corner of Drum D-1100 (on first stairdeck )                                              | 95                         |
| Southeast of Drum D-1710 (facing west)                                                         | 93                         |
| Top Deck of Drum D-1100                                                                        | 92                         |
| South of Motor MK-1100 (facing north)                                                          | 91                         |
| West side of Drum D-1710 (facing east)                                                         | 91                         |
| North of Motor MK-1100 (facing south)                                                          | 90                         |
| Under Exchanger E-1510 (facing east)                                                           | 89                         |
| Freon lines to South of Compressor K-1100 (facing north)                                       | 89                         |
| Under Exchanger E-1540 (facing south)                                                          | 88                         |
| Under Exchanger E-1420 (facing north)                                                          | 88                         |
| Under Exchanger E-1550 (facing south)                                                          | 87                         |
| West of Motor MK-1100 (facing east)                                                            | 87                         |
| Near the block valve to the Cooling Tower Water Supply<br>(ground level, north of Drum D-1100) | 87                         |
| Under Exchanger E-1525 (facing south)                                                          | 86                         |
| Stairway Under Exchanger E-1420                                                                | 83                         |
| West of Pump P-1030A (facing east)                                                             | 83                         |
| Under Exchanger E-1320D (facing east)                                                          | 82                         |
| East of Pump P-1030B (facing west)                                                             | 77                         |
| <u>Industrial Hygiene Exposure Guideline</u>                                                   |                            |
| Dow Ceiling                                                                                    | 90 dB(A)                   |

- \* Measurements were taken with an Edmont-Wilson Sound Level Meter Model 60-510, Serial Number(SN) 2306. The instrument was calibrated before and after use with an Edmont-Wilson Calibrator Model 60-535, SN 1183.

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: OCT 22, 1995

FROM: DUGAS / COOK

SUBJECT: WEEKLY PUMP SWAPS

THERE IS A LIST OF PUMPS ON THE PROCEDURE SYSTEM THAT WE WILL BEGIN SWAPPING ONCE PER MONTH. WE WILL SWAP THEM ON EACH MONDAY (4 OR 5 EACH WEEK). ON THE MAIN MENU, POINT AND CLICK ON CHECK SHEETS. THEN CHOOSE THE CORRECT WEEK OF THE MONTH AND PRINT OUT THE CHECKSHEET, SWAP THE PUMPS, AND RETURN THE CHECKSHEET TO ADAM. WE WILL DO THESE EACH MONDAY MORNING SO, IF WE HAVE SEAL LEAKS OR OTHER PROBLEMS, WE CAN HAVE THEM REPAIRED.

This form is used to insure the attached information is communicated to the appropriate plant personnel

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff                           | Supervisors                         | SOS's                               | OS's                                | Loaders                  |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Init. Date                          | Init. Date                          | Init. Date                          | Init. Date                          | Init. Date               |
| Clebert <u>CL</u> <u>10/24</u>      | Cook <u>J</u> <u>10/22</u>          | Breaux <u>AB</u> <u>11/27</u>       | Bishop <u>CB</u> <u>10/27</u>       | Armand _____             |
| Haney <u>QH</u> <u>10/24</u>        | Dugas <u>DD</u> <u>10/22</u>        | Beieler <u>BE</u> <u>10/22</u>      | Bourg <u>BS</u> <u>10-25</u>        | Doucet _____             |
| Kelley <u>K</u> <u>10/23</u>        | Day Oper.                           | Bickham <u>CB</u> <u>10/24/95</u>   | Davis <u>DD</u> <u>10/22</u>        | Instruments              |
| Ledoux <u>LD</u> <u>10/24</u>       |                                     | Cook F. <u>FC</u> <u>10-23</u>      | Ekey <u>KE</u> <u>10/22</u>         |                          |
| McMurray <u>MM</u> <u>12/11</u>     |                                     | Cavalier <u>CC</u> <u>10-25</u>     | Harrison <u>HR</u> <u>10/22</u>     |                          |
| Michel <u>AM</u> <u>10/24</u>       |                                     | Grant <u>G</u> <u>10-25-95</u>      | Jack <u>JS</u> <u>10-23</u>         |                          |
| Rizzo _____                         | Donatto _____                       | Gravouilla <u>GS</u> <u>10/25</u>   | Looney <u>LS</u> <u>10/23</u>       | Neyland _____            |
| Taylor <u>MT</u> <u>10/24</u>       | Grace _____                         | Jackson <u>JD</u> <u>10-25</u>      | Wolfe <u>DCW</u> <u>10-22</u>       | Shanklin _____           |
| Witt _____                          | Johnson _____                       | Millender <u>ML</u> <u>10/23</u>    |                                     |                          |
| Young _____                         | Simonson _____                      | Metrejean <u>DM</u> <u>10/22</u>    |                                     |                          |
|                                     | Vavasseur _____                     |                                     |                                     |                          |

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: OCT 22, 1995

FROM: DUGAS / COOK

SUBJECT: DUE TO THE APPROVAL OF A SUGGESTION THAT WE NO LONGER SAMPLE D-1750 BEFORE PUMPING TO T-1555B, THE FOLLOWING HAS TAKEN PLACE:

1) THE D-1750 LIQUID HEADER TO T-1500 AND D-750 HAS BEEN DISCONNECTED AND BLIND FLANGES HAVE BEEN INSTALLED.

2) THE D-1750 PUMP DOWN PROCEDURE HAS BEEN CHANGED. WE WILL NOW LEAVE THE MANUAL VALVES ON D-1750 TO T-1555B LINED UP AND P-1750 IN AUTO IN THE FIELD. THE BOARD OPERATOR WILL SIMPLY SET PK150 TRUE TO START P-1750 AND PUMP D-1750 TO T-1555B.

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff                           | Supervisors                         | SOS's                               | OS's                                | Loaders                  |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Init. Date                          | Init. Date                          | Init. Date                          | Init. Date                          | Init. Date               |
| Clebert <u>OC</u> <u>10/22</u>      | Cook <u>JH</u> <u>10/23</u>         | Breaux <u>LB</u> <u>11/24</u>       | Bishop <u>CS</u> <u>10/21</u>       | Armand _____             |
| Haney <u>JH</u> <u>10/24</u>        | Dugas <u>BLR</u> <u>10/22</u>       | Beieler <u>HO</u> <u>10/22</u>      | Bourg <u>JB</u> <u>10/25</u>        | Doucet _____             |
| Kelley <u>K</u> <u>10/23</u>        | Day Oper.                           | Bickham <u>GG</u> <u>10/22/25</u>   | Davis <u>CD</u> <u>10/22/26</u>     | Instruments              |
| Ledoux <u>EL</u> <u>10/24</u>       |                                     | Cook F. <u>FC</u> <u>10-23</u>      | Ekey <u>JE</u> <u>10/22</u>         |                          |
| McMurray <u>VM</u> <u>12/1/95</u>   |                                     | Cavalier <u>MC</u> <u>10/23</u>     | Harrison <u>DA</u> <u>10/22</u>     |                          |
| Michel <u>A.M.</u> <u>10/24</u>     |                                     | Grant <u>G</u> <u>10-25-90</u>      | Jack <u>OS</u> <u>10-23</u>         |                          |
| Rizzo <u>R</u> <u>3-6-96</u>        | Donatto _____                       | Gravouilla <u>AL</u> <u>10-25</u>   | Looney <u>RJ</u> <u>10-23</u>       | Neyland _____            |
| Taylor <u>QT</u> <u>11/24</u>       | Grace _____                         | Jackson <u>RJ</u> <u>10-25</u>      | Wolfe <u>DCW</u> <u>10-22</u>       | Shanklin _____           |
| Witt _____                          | Johnson _____                       | Millender <u>RM</u> <u>10/23</u>    |                                     |                          |
| ung _____                           | Simonson _____                      | Metrejean <u>DM</u> <u>10/23</u>    |                                     |                          |
|                                     | Vavasseur _____                     |                                     |                                     |                          |

DO A 031918  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Wed. Oct 18, 1995

FROM: Brian Donatto

SUBJECT: Please Review the revised CMP decontamination procedure.  
# 460 318

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Supervisors                                                                                                                                                                                                                                                                                                                                                                        | SOS's                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | OS's                                                                                                                                                                                                                                                                                                                                                                                     | Loaders                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div> <div>✓</div> <div>Init. Date</div> <div>Clebert <u>OC</u> <u>10/2</u></div> <div>Haney <u>MM</u> <u>10/24</u></div> <div>Kelley <u>Kg</u> <u>10/20</u></div> <div>Ledoux <u>S</u> <u>10/20</u></div> <div>McMurray <u>Va</u> <u>12/11</u></div> <div>Michel <u>A.M.</u> <u>10/24</u></div> <div>Rizzo <u>NG</u> <u>—</u></div> <div>Taylor <u>ST</u> <u>10/24</u></div> <div>Witt <u>—</u> <u>—</u></div> <div>Young <u>—</u> <u>—</u></div> </div> | <div> <div>✓</div> <div>Init. Date</div> <div>Cook J. <u>JCC</u> <u>10/19</u></div> <div>Dugas <u>RLD</u> <u>10/20</u></div> <div>Day Oper. <u>✓</u></div> <div>Donatto <u>DD</u> <u>10/18/95</u></div> <div>Grace <u>GB</u> <u>11/12</u></div> <div>Johnson <u>JG</u> <u>10/19</u></div> <div>Simonson <u>SS</u> <u>10/25</u></div> <div>Vavasseur <u>—</u> <u>—</u></div> </div> | <div> <div>✓</div> <div>Init. Date</div> <div>Breaux <u>BW</u> <u>11/24</u></div> <div>Beieler <u>BB</u> <u>10/20</u></div> <div>Bickham <u>—</u> <u>—</u></div> <div>Cook F. <u>—</u> <u>—</u></div> <div>Cavalier <u>MC</u> <u>10/25</u></div> <div>Grant <u>G</u> <u>10-25-95</u></div> <div>Gravouilla <u>GG</u> <u>10/20</u></div> <div>Jackson <u>JS</u> <u>10-25</u></div> <div>Millender <u>MM</u> <u>10/20</u></div> <div>Metrejean <u>DM</u> <u>10/23</u></div> </div> | <div> <div>✓</div> <div>Init. Date</div> <div>Bishop <u>BS</u> <u>10/19</u></div> <div>Bourg <u>BB</u> <u>10/19</u></div> <div>Davis <u>DD</u> <u>10/22</u></div> <div>Ekey <u>EE</u> <u>10/20</u></div> <div>Harrison <u>HR</u> <u>10/22</u></div> <div>Jack <u>JS</u> <u>10-18</u></div> <div>Looney <u>LL</u> <u>10-18-95</u></div> <div>Wolfe <u>DW</u> <u>10-18-95</u></div> </div> | <div> <div>Init. Date</div> <div>Armand <u>AA</u> <u>10/30</u></div> <div>Doucet <u>—</u> <u>—</u></div> <div>Instruments <u>✓</u></div> <div>Neyland <u>—</u> <u>—</u></div> <div>Shanklin <u>—</u> <u>—</u></div> </div> |

DO A 031919  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Wed, Oct 18, 1995

FROM: Rizzo

SUBJECT: Please review the following revised / new procedures:

Glove Doc # 460637

Confined Space Policy # 460638

Safe Work Permit # 460390

NOTE: Product Identification and Traceability was added to the quality list in the system

The confined space concerns was deleted from the system

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff<br><u>X</u>    | Supervisors<br><u>X</u>    | SOS's<br><u>X</u>           | OS's<br><u>X</u>          | Loaders<br><u>X</u>     |
|--------------------------|----------------------------|-----------------------------|---------------------------|-------------------------|
| Init. Date               | Init. Date                 | Init. Date                  | Init. Date                | Init. Date              |
| Clebert <i>OC</i> 10/23  | Cook J <i>OC</i> 10-19     | Breaux <i>OC</i> 11/24      | Bishop <i>OC</i> 10/19    | Armand <i>OC</i> 10-21  |
| Haney <i>OC</i> 10/19    | Dugas <i>OC</i> 10/20      | Beiler <i>OC</i> 10/20      | Bourg <i>OC</i> 10/19     | Doucet                  |
| Kelley <i>OC</i> 10/20   | Day Oper.<br><u>X</u>      | Bickham <i>OC</i> 10/18/95  | Davis <i>OC</i> 10/21     | Instruments<br><u>X</u> |
| Ledoux <i>OC</i> 10/22   |                            | Cook F. <i>OC</i> 10-23     | Ekey <i>OC</i> 10/20      |                         |
| McMurray <i>OC</i> 10/11 | Init. Date                 | Cavalier <i>OC</i> 10-25-95 | Harrison <i>OC</i> 10/22  | Init. Date              |
| Michel <i>OC</i> 10/24   | Donatto <i>OC</i> 10/18/95 | Grant <i>OC</i> 10-25-95    | Jack <i>OC</i> 10-18      | Neyland                 |
| Rizzo                    | Grace <i>OC</i> 10/20      | Gravouilla <i>OC</i> 10-20  | Looney <i>OC</i> 10-18-95 | Shanklin                |
| Taylor <i>OC</i> 10/21   | Johnson <i>OC</i> 10/18    | Jackson <i>OC</i> 10-25     | Wolfe <i>OC</i> 10-18-95  |                         |
| Witt                     | Simonson <i>OC</i> 10/22   | Millender <i>OC</i> 10/20   |                           |                         |
| Young                    | Vavasseur                  | Metrejean <i>OC</i> 10/23   |                           |                         |

DO A 031920  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: 10/9/95, 1995

FROM: Jim Haney

SUBJECT: An actuator has been installed on the V-1540 bypass to convert it from a manual valve to an AO (ramp open or closed). Setting DK (108) to 1 will ramp AO (305) closed to put V-1540 on-line. Automation of this valve enables the boardman to quickly bypass the filter during high level conditions. It also eliminates the limited access problem associated with manually opening and closing this valve. Please review previous Communique from Gary concerning the details for AO (305).

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff                         | Supervisors                    | SOS's                              | OS's                            | Loaders     |
|-----------------------------------|--------------------------------|------------------------------------|---------------------------------|-------------|
| Init. Date                        | Init. Date                     | Init. Date                         | Init. Date                      | Init. Date  |
| Clebert                           | Cook J. <u>RC</u> <u>10-18</u> | Breaux <u>RWB</u> <u>10-9</u>      | Bishop <u>CEB</u> <u>10-9</u>   | Armand      |
| Haney <u>JMH</u> <u>12/9</u>      | Dugas <u>DD</u> <u>10/9</u>    | Beiler <u>DB</u> <u>10-9</u>       | Bourg <u>B</u> <u>10-11</u>     | Doucet      |
| Kelley <u>K</u> <u>10/10</u>      | Day Oper.                      | Bickham <u>CB</u> <u>10/10/95</u>  | Davis <u>DB</u> <u>10/12</u>    | Instruments |
| Ledoux <u>SK</u> <u>10-9</u>      |                                | Cook F. <u>FC</u> <u>10-23</u>     | Ekey <u>KE</u> <u>10/12</u>     |             |
| McMurray <u>WM</u> <u>12/1/95</u> |                                | Cavalier <u>MC</u> <u>10-11-95</u> | Harrison <u>HA</u> <u>10-17</u> |             |
| Michel <u>A.M.</u> <u>10/24</u>   | Donatto                        | Grant <u>G</u> <u>10-17-95</u>     | Jack <u>JS</u> <u>10-9</u>      | Neyland     |
| Rizzo <u>OR</u> <u>10-14</u>      | Grace                          | Gravouilla <u>G</u>                | Looney <u>LU</u>                | Shanklin    |
| Taylor <u>MT</u> <u>10/10/95</u>  | Johnson                        | Jackson <u>EJ</u> <u>10-12-95</u>  | Wolfe <u>DW</u> <u>10-9</u>     |             |
| Witt                              | Simonson                       | Millender <u>RM</u> <u>10-9</u>    |                                 |             |
| Young                             | Vavasseur                      | Metrejean <u>DM</u> <u>10/9</u>    |                                 |             |

DO A 031921  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Thu, Oct 5, 1995

FROM: Rizzo

SUBJECT: Please review the attached sheet explaining the mod v changes in distillation.

1. AO(305) filter by pass control valve - new addition

2. Revised the P-1541 pump logic - Took out the bump code logic

3. Revised alarm 308 and 345 taking all of the references to the shroud temperature out since they no longer exist.

4. high vent flow for V-1750 filter beds to atmosphere.

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff             | Supervisors          | SOS's                     | OS's       | Loaders     |
|-----------------------|----------------------|---------------------------|------------|-------------|
|                       | <u>X</u>             | <u>X</u>                  |            |             |
| Init. Date            | Init. Date           | Init. Date                | Init. Date | Init. Date  |
| Clebert               | Cook J. <u>10/17</u> | Breaux <u>10/15</u>       | Bishop     | Armand      |
| Haney <u>9H 10/17</u> | Dugas <u>10/17</u>   | Beieler <u>10/15</u>      | Bourg      | Doucet      |
| Kelley <u>10/17</u>   | Day Oper.            | Bickham <u>10/17</u>      | Davis      | Instruments |
| Ledoux <u>10/17</u>   |                      | Cook F. <u>10/17</u>      | Ekey       |             |
| McMurray <u>10/17</u> | Init. Date           | Cavalier <u>10/17</u>     | Harrison   | Init. Date  |
| Michel <u>10/24</u>   | Donatto              | Grant <u>10-1-95</u>      | Jack       | Neyland     |
| Rizzo                 | Grace                | Gravouilla <u>10-1-95</u> | Looney     | Shanklin    |
| Taylor <u>10/17</u>   | Johnson              | Jackson <u>10/17</u>      | Wolfe      |             |
| Witt                  | Simonson             | Millender <u>10/17</u>    |            |             |
| Young                 | Vavasseur            | Metrejean <u>10/17</u>    |            |             |

DO A 031922  
CONFIDENTIAL



# *CHLORINATED METHANES MOD V*

## *DESCRIPTION OF CHANGE*



**D**

System

**PSA'S**

Equipment Number

**400**

Can

### **Added alarm 461 for system D**

the alarm will activate when the vent flow to atmosphere from the psa beds exceeds the high flow setpoint and the beds are in one of the many adsorbtion steps.

These alarm are used to indicate a possible problem with the vent valves on the tanks. A high vent flow could indicate excessive venting or the vent control valve has failed and is wide open.



# CHLORINATED METHANES MOD V

## DESCRIPTION OF CHANGE



**D**

System

**C-1540**

Equipment Number

**300**

Can

### AO(305) - V-1540 By pass Positional Control Valve

AO(305) is a positional controller which will either run wide open or closed.

When V-1540 isn't online, the control valve will be disabled and wide open.

When the board operator is ready to place the filter on line, the board operator can initiate a DK function, DK(109), which will enable the control valve, DC(379), and begin ramping the control valve closed at a ramp rate set by AP(731), until the controller output reaches AP(732). This will force all the bottoms product through the filter.

When the board operator needs to take the filter off line, the DK can be zeroed, which will disable the AO and begin ramping the controller open, to an output based on AP(730).

DK(109) will be autozeroed if not in step(304).

DO A 031924  
CONFIDENTIAL



# CHLORINATED METHANES MOD V

## DESCRIPTION OF CHANGE



**D**

System

**C-1540**

Equipment Number

**400**

Can

### DO(327) & DO(337)

Took out all the bump start logic for these pumps. Left the DC to enabled the pump. The reason for this is that when performing the upload we won't have to place the pumps in manual or hand.

### REQ(308)

Took out DC(1063) and DC(1037) high shroud temperature alarms.  
Took out DC(1539) and DC(1540) high temperature differential alarms.

### Warn(345)

Took out DC(1077) & DC(1078) High differential temperature alarms.  
Took out DC(1412) & DC(1416) Low Low Amp alarm.

DO A 031925  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: 10/3, 1995

FROM: \_\_\_\_\_

SUBJECT: CONTRACTOR CALL-OUT POLICY

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff                       | Supervisors                   | SOS's                               | OS's                          | Loaders           |
|---------------------------------|-------------------------------|-------------------------------------|-------------------------------|-------------------|
| Init. Date                      | Init. Date                    | Init. Date                          | Init. Date                    | Init. Date        |
| Clebert <u>✓</u> <u>10/3</u>    | Cook J. <u>✓</u> <u>10-5</u>  | Breaux <u>✓</u> <u>10/4/95</u>      | Bishop _____                  | Armand _____      |
| Haney <u>✓</u> <u>10/9</u>      | Dugas <u>✓</u> <u>10/3</u>    | Beieler <u>✓</u> <u>10/9</u>        | Bourg <u>✓</u> <u>10-11</u>   | Doucet _____      |
| Kelley <u>✓</u> <u>10/10</u>    | Day Oper. <u>✓</u>            | Bickham <u>✓</u> <u>10/9</u>        | Davis <u>✓</u> <u>10/21</u>   | Instruments _____ |
| Ledoux <u>✓</u> <u>10/20</u>    | <u>✓</u>                      | Cook F. <u>✓</u> <u>10-23</u>       | Ekey <u>✓</u> <u>10/2</u>     | _____             |
| McMurray <u>✓</u> <u>10/11</u>  |                               | Cavalier <u>✓</u> <u>10-4-95</u>    | Harrison <u>✓</u> <u>10-8</u> |                   |
| Michel <u>✓</u> <u>10/24</u>    | Donatto <u>✓</u> <u>10/10</u> | Grant <u>✓</u> <u>10-6-95</u>       | Jack <u>✓</u> <u>10-4</u>     | Neyland _____     |
| Rizzo _____                     | Grace <u>✓</u> <u>10/20</u>   | Gravouillat <u>✓</u> <u>10-6-95</u> | Looney <u>✓</u> <u>10-4</u>   | Shanklin _____    |
| Taylor <u>✓</u> <u>10/14/95</u> | Johnson _____                 | Jackson <u>✓</u> <u>10-12-95</u>    | Wolfe <u>✓</u> <u>10-18</u>   |                   |
| Witt _____                      | Simonson <u>✓</u> <u>10/5</u> | Millender <u>✓</u> <u>10/5</u>      |                               |                   |
| Jung _____                      | Vavasseur _____               | Metrejean <u>✓</u> <u>10/9</u>      |                               |                   |

DO A 031926  
CONFIDENTIAL

# **PLANT INSTRUCTIONS FOR CONTRACTOR CALL-OUT**

## **CONTRACTOR CALL-OUT POLICY**

**PLANTS ARE TO USE THE FOLLOWING GUIDELINES WHEN IT IS NECESSARY  
TO CALL-OUT CONTRACT CRAFTSMEN.**

### **1-INITIATE A GEMTS WORK ORDER REQUEST**

**THIS IS NECESSARY FOR CHARGING TIME AND  
ORDERING MATERIALS/EQUIPMENT THRU MSMS  
OR PURCHASE ORDER.**

### **2-BE PREPARED TO ANSWER BEFORE CALLING:**

**IS THIS A PRODUCTION LOSS?  
IF NO, WHY IS THE CALL-OUT NEEDED?  
IS EQUIPMENT CLEARED AND TAGGED?  
IF NOT, WHEN WILL IT BE READY?  
IS SCAFFOLDING NEEDED?  
IS A RIG NEEDED?  
ARE OUTSIDE SERVICES NEEDED?**

### **3-CALL THE CADM CALLOUT PERSON(S)**

**FOR WEEKDAY (MONDAY-THURSDAY)  
CALL FROM THE PROVIDED LIST FOR YOUR PLANT.**

**FOR WEEKEND (FRIDAY-SUNDAY)  
CALL THE WEEKEND CALLOUT PERSON  
PAGER 352-3600  
SEE LIST FOR PERSON AND HOME NUMBER**

### **4-HAVE SOMEONE AVAILABLE TO INDOCTRINATE THE CRAFTSMEN COMING OUT. (THIS MAY NOT BE NECESSARY)**

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# CADM WEEKEND CALL

|                   | SUPV/FOREMAN     | PAGER<br>352-3600 |
|-------------------|------------------|-------------------|
| 1995              |                  |                   |
| OCT. 7 - 8        | LARRY DONALDSON  | 261-0714          |
| PFA               |                  |                   |
| PF A              |                  |                   |
| MW                |                  |                   |
| OCT. 14 - 15      | RICKY DUPONT     | 687-0499          |
| PF A              |                  |                   |
| PF B              |                  |                   |
| MW                |                  |                   |
| OCT. 21 - 22      | MIKE LANEY       | 774-1119          |
| PF C              |                  |                   |
| WELDER            |                  |                   |
| MW                |                  |                   |
| OCT. 28 - 29      | KENNY BOUTTE     | 687-0698          |
| PF A              |                  |                   |
| PF A              |                  |                   |
| MW                |                  |                   |
| NOV. 4 - 5        | PETE TALBOT      | 261-0303          |
| PF A              |                  |                   |
| WELDER            |                  |                   |
| MW                |                  |                   |
| NOV. 11 12        | RONNIE ROSHTO    | 261-5654          |
| PF A              |                  |                   |
| WELDER            |                  |                   |
| MW                |                  |                   |
| NOV. 18 - 19      | GARY ROBILLARD   | 383-8200          |
| PF A              |                  |                   |
| WELDER            |                  |                   |
| MW                |                  |                   |
| MW                |                  |                   |
| NOV. 23 - 26      | TIMMY QUATREVING | 687-4255          |
| PF A              |                  |                   |
| PF A              |                  |                   |
| PF A              |                  |                   |
| MW                |                  |                   |
| DEC. 2 - 3        | ERIC SWANSON     | 627-9500          |
| PF A              |                  |                   |
| WELDER            |                  |                   |
| MW                |                  |                   |
| DEC. 9 - 10       | CURTIS STELLY    | 318-585-731       |
| PF A              |                  |                   |
| WELDER            |                  |                   |
| MW                |                  |                   |
| DEC. 16-17        | STEVE LANDRY     | 749-3611          |
| PF A              |                  |                   |
| PF A              |                  |                   |
| MW                |                  |                   |
| DEC. 23-24-25     | C. J. BOUDREAUX  | 627-4044          |
| PF A              |                  |                   |
| PF B              |                  |                   |
| MW                |                  |                   |
| DEC. 30-31-JAN. 1 | LARRY DONALDSON  | 261-0714          |
| PF C              |                  |                   |
| WELDER            |                  |                   |
| MW                |                  |                   |
| JAN. 6 - 7        | RICKY DUPONT     | 687-0499          |
| 1996              |                  |                   |
| PF A              |                  |                   |
| PF A              |                  |                   |
| MW                |                  |                   |

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# CADM WEEKDAY CALLOUT

## WEEK DAY CALLOUTS(MONDAY-THURSDAY)

### MECHANICAL

#### CHLORINE

|               |          |
|---------------|----------|
| RONNIE ROSHTO | 261-5654 |
| KENNY BOUTTE  | 687-0698 |
| ERNEST TATE   | 664-9603 |
| MAC MCCRAINE  | 751-3629 |

#### CA-2/CAUSTIC

|                 |          |
|-----------------|----------|
| CJ BOUDREAUX    | 627-4044 |
| MIKE LANEY      | 774-1119 |
| LARRY DONALDSON | 261-0714 |
| FLOYD CAMPBELL  | 749-3254 |
| BEAU DUNN       | 683-5004 |

#### METHANES

|               |          |
|---------------|----------|
| ERIC SWANSON  | 627-9500 |
| RICKEY DUPONT | 687-0499 |
| JOHN MEEKER   | 654-3833 |
| GREG FUENTES  | 749-2969 |

#### VINYL-2

|               |              |
|---------------|--------------|
| CURTIS STELLY | 318-585-7317 |
| STEVE LANDRY  | 749-3611     |
| JOHN MEEKER   | 654-3833     |
| GREG FUENTES  | 749-2969     |

#### SOLVENTS/EDC

|                |          |
|----------------|----------|
| GARY ROBILLARD | 383-8200 |
| PETE TALBOT    | 261-0303 |
| ERNEST TATE    | 664-9603 |
| MAC MCCRAINE   | 751-3629 |

#### RELIABILITY

|               |          |
|---------------|----------|
| JIMMY GRISSOM | 752-7838 |
| STEVE FOLSE   | 687-4327 |
| MAURI SCHOBY  | 387-5921 |

#### PV/PSV / GEMTS

|             |          |
|-------------|----------|
| TODD HEBERT | 749-2063 |
|-------------|----------|

#### CADM SUPT.

|            |          |
|------------|----------|
| DAVE DUPUY | 261-1569 |
|------------|----------|

## MAINTENANCE SUPPORT

(DOW EXTENSIONS-DO NOT USE 8787)

| HOME | PAGER |
|------|-------|
|------|-------|

|                        |      |      |
|------------------------|------|------|
| C.A.T.                 |      | 4066 |
| CHEROKEE SCAFFOLD      | 4084 | 4085 |
| CONTROL ENG. SOFTWARE  |      | 4465 |
| ELECTRICAL(WEEKENDS)   | 4090 | 4091 |
| IBM-3306               |      | 4599 |
| INSTRUMENT             | 4092 | 4093 |
| INVENTORY MANAGEMENT   | 4460 | 4466 |
| HUMAN RESOURCES        | 4453 | 4455 |
| MAINTENANCE(DIVISION)  | 8963 | 8956 |
| HARDWARE SUPPORT-MOD5/ | 4778 | 4779 |
| PRODUCTION PLANNING    | 4773 | 4774 |
| PURCHASING             | 4775 | 4778 |
| RADIO/PA/COMPUTER      |      | 4066 |
| SHIPPING/DISTRIBUTION  | 4772 | 4771 |
| TELECOMM/NETWORK       | 6418 | 6415 |

DO A 031929  
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# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: September 28, 1995

FROM: Kevin Kelley

SUBJECT: Drill info - see following pages

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff                           | Supervisors                                      | SOS's                               | OS's                                | Loaders                             |
|-------------------------------------|--------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Init. Date                          | Init. Date                                       | Init. Date                          | Init. Date                          | Init. Date                          |
| Clebert <u>CL</u> <u>9/29</u>       | Cook J. <u>RC</u> <u>10-2</u>                    | Breaux <u>WB</u> <u>9/29/95</u>     | Bishop <u>JB</u> <u>10-3</u>        | Armand <u>RA</u> <u>10-4</u>        |
| Haney <u>QH</u> <u>10/1</u>         | Dugas <u>BD</u> <u>10/3</u>                      | Beieler <u>BZ</u> <u>10/1/95</u>    | Bourg <u>CB</u> <u>10-6</u>         | Doucet <u>—</u>                     |
| Kelley <u>BK</u> <u>9/27</u>        | Day Oper.<br><input checked="" type="checkbox"/> | Bickham <u>CB</u> <u>10/1/95</u>    | Davis <u>CD</u> <u>10/2</u>         | Instruments<br><u>—</u>             |
| Ledoux <u>LL</u> <u>9/28</u>        |                                                  | Cook F. <u>FC</u> <u>10-23</u>      | Ekey <u>KE</u> <u>9/28</u>          |                                     |
| McMurray <u>UM</u> <u>12/1/95</u>   |                                                  | Cavalier <u>NC</u> <u>10/2</u>      | Harrison <u>HA</u> <u>10/8</u>      |                                     |
| Michel <u>AM</u> <u>10/24</u>       | Donatto <u>BD</u> <u>10/10</u>                   | Grant <u>GR</u> <u>10-2-95</u>      | Jack <u>OS</u> <u>9-29</u>          | Neyland <u>—</u>                    |
| Rizzo <u>—</u>                      | Grace <u>GL</u> <u>10/20</u>                     | Gravouilla <u>GG</u> <u>10-2-95</u> | Looney <u>RL</u> <u>9-29</u>        | Shanklin <u>—</u>                   |
| Taylor <u>DT</u> <u>10/1/95</u>     | Johnson <u>JO</u> <u>10/2</u>                    | Jackson <u>JS</u> <u>10-2-95</u>    | Wolfe <u>DW</u> <u>10-4</u>         |                                     |
| Witt <u>—</u>                       | Simonson <u>SS</u> <u>10/2</u>                   | Millender <u>RM</u> <u>9/29/95</u>  |                                     |                                     |
| Jung <u>IM</u> <u>10/2</u>          | Vavasseur <u>—</u>                               | Metrejean <u>DM</u> <u>10/19</u>    |                                     |                                     |

DO A 031930  
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# CMP EMERGENCY DRILL



Drill Date 9/28/95

Record # 10

☐ Actual Emergency ☒ Emergency Drill

Safety Team Conducting Drill F Team

NOTE: The Safety Team must get Supervisor's approval to use an actual emergency to fulfill drill requirements.

Safety Team Working on Drill Date C Team

Drill Topic ACUTE CHEMICAL EXPOSURE TO AMYLENE

Personnel Involved in Drill:

List Names of People Responding to Drill Luke Armand, Dale Graybill, Donald Harrison, Curt Grant, Jason Bourg, Taylor Best (Security), Security

List Groups Participating in Drill SECURITY, MEDICAL, CMP OPERATIONS, CMP STAFF, "E TEAM" DRILL COORDINATION

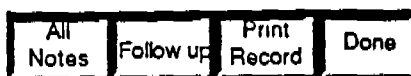
Drill Critique (Give description of actions taken in response to the emergency and the deficiencies noted during the emergency.)

Simulated Emergency Scenario: An employee, while passing through an area of the plant, notices a drip in an unusual place. He looks up as the tubing on the amylene (1-methyl butene-2) injection tubing to the Chloroform product line "blows out". He is sprayed by liquid, and staggers to the safety shower near T-1555A/B. (In the process, he blocks in the line preventing further spillage THIS IS NOT A SPILL SITUATION). Inside, the SS simulates a amylene flow deviation alarm and tells the board SOS about it. Immediately after, the "exposed" rings the safety shower and the drill begins. The exposed person when visited by the responder will be staggering away from the site. He will complain of irritated eyes, being very sleepy, and will insist on vomiting because he has swallowed some of the chemical.  
Emergency Response: 0:00 start drill. 1:00 Curt calls Dale and Donald on Intercom. 1:30 Dale and Donald arrive from different areas, calls control room for ambulance. Curt calls 8888 for ambulance. Immediately they push Luke under shower and eye wash to make sure he's flushing his eyes. Dale calls Curt to tell him that Luke has amylene in his eyes and mouth. Luke is complaining about being sick and feeling dizzy. 2:40 Dale sends Donald to meet ambulance and continues to hold Luke under shower. 3:30 Curt calls to find out if amylene is blocked in or do we have a spill. It is not a spill. 5:40

880:37294

DO A 031931  
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# CMP EMERGENCY DRILL



Curt calls outside to see if ambulance is there yet. It isn't so he calls 8888 again to see what the hold up is. There was minor confusion about whether nurses should respond or not. Ambulance is en-route 7:30 - 1st guard shows up at scene. 1:38:30 ambulance arrives on scene. Drill personnel ask guard what his response is. He asks what happened. Instructs to keep him under shower, and will ask what chemical it is. Says he will call the gate to get the MSMS on the chemical. Operations informs him it is amylene. Drill coordinators and operations discuss the fact that amylene is a common name and the 2-methylbutene-2 is the chemical name (how the MSDS is written). Drill concluded.

Critique Meeting for Developing follow up: Outside operator response and timing was very quick and totally correct. The board man called 8888 instead of 333, a common event during drills. The board man called the responders on the intercom and didn't make a plant page for a safety shower response. The coordination to receive the ambulance and follow up by board man to make the second phone call was very good. The fact that 2-methylbutene-2 is the real name that "Amylene" is listed as in the MSDS was not known by all the parties involved. The ambulance responded with only 1 guard, no nurses or medical personnel (may have been since they knew it was a drill).

Follow up added to CMP action register:

1. Discuss the results of this drill at tailgate safety meetings. Include focus on using MSDS sheets, and the real name of amylene. (Cook/Dugas by 10/13/95)
2. Contact Medical to ensure that they responded with one guard because it was only a drill (Kevin Kelley 9/29/95)
3. Put drill results in communique book (Kelley 9/29/95)

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Tue, Sep 26, 1995

FROM: Rizzo

SUBJECT: Please review the attached MOD V code changes.

They concern the PSA filter beds high vent flow alarm, ALM(612) on System C and E-1320 Master Temperature Limit, AC(247)

This form is used to insure the attached information is communicated to the appropriate plant personnel.

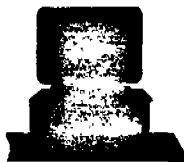
INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff      | Supervisors  | SOS's            | OS's        | Loaders     |
|----------------|--------------|------------------|-------------|-------------|
| Init. Date     | Init. Date   | Init. Date       | Init. Date  | Init. Date  |
| Clebert        | Cook J. 10-2 | Breaux 10-2      | Bishop      | Armand      |
| Haney CH 10/19 | Dugas 10/13  | Beieler 10/27    | Bourg 10-2  | Doucet      |
| Kelley 10/20   | Day Oper.    | Bickham 10/27    | Davis 10/2  | Instruments |
| Ledoux 10/19   |              | Cook F. 10-23    | Ekey        |             |
| McMurray 10/5  | Init. Date   | Cavalier 10/10   | Harrison    | Init. Date  |
| Michel 10/24   | Donatto      | Grant 10-29      | Jack        | Neyland     |
| Rizzo          | Grace        | Gravouilla 10-25 | Looney 9-29 | Shanklin    |
| Taylor 10/24   | Johnson      | Jackson 10-25    | Wolfe       |             |
| Witt           | Simonson     | Millender 10/25  |             |             |
| Young 10/2     | Vavasseur    | Metrejean 10/19  |             |             |

DO A 031933  
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# CHLORINATED METHANES MOD V

## DESCRIPTION OF CHANGE



A

System

D-1250

Equipment Number

600

Can

### Alarm 612

This alarm has been changed to look at the total M1 flow not just the virgin M1 flow to R-1300.

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# *CHLORINATED METHANES MOD V*

## *DESCRIPTION OF CHANGE*



**C / D**

System

**PSA'S**

Equipment Number

**300**

Can

**Added alarms 360 & 361 to system C and 461 for system D**

the alarm will activate when the vent flow to atmosphere from the psa beds exceeds the high flow setpoint and the beds are in one of the many adsorbtion steps.

These alarm are used to indicate a possible problem with the vent valves on the tanks. A high vent flow could indicate excessive venting or the vent control valve has failed and is wide open.



# *CHLORINATED METHANES MOD V*

## *DESCRIPTION OF CHANGE*



**B**

System

**E-1320**

Equipment Number

**200**

Can

### **E-1320 Fans Master Output - AC(247)**

Added code to AC(247) which will prevent the output from continuing to ramp down when the Master Integral, DC(1023) is false. The Master integral goes false when the fans are running at max. or min. output.

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Mon, Sep 18, 1995

FROM: Rizzo

SUBJECT: Please review the attached sheet explaining the MOD V changes to system C & D

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

| PERSONS NEEDING TO REVIEW |       |             |           |       |      |            |       |         |          |  |
|---------------------------|-------|-------------|-----------|-------|------|------------|-------|---------|----------|--|
| Day Staff                 |       | Supervisors |           | SOS's |      | OS's       |       | Loaders |          |  |
|                           | Init. | Date        |           | Init. | Date |            | Init. | Date    |          |  |
| Clebert                   |       |             | Cook J.   | JP    | 9-18 | Breaux     | JB    | 9-18    | Bishop   |  |
| Haney                     |       |             | Dugas     | BD    | 9-23 | Beieler    | BS    | 9-18    | Bourg    |  |
| Kelley                    |       |             |           |       |      | Bickham    | EG    | 9-18    | Davis    |  |
| Ledoux                    |       |             | Day Oper. |       |      | Cook F.    | FL    | 9-21    | Ekey     |  |
| McMurray                  |       |             |           |       |      | Cavalier   | MC    | 9-23    | Harrison |  |
| Michel                    |       |             | Donatto   |       |      | Grant      | G     | 9-23-90 | Jack     |  |
| Rizzo                     |       |             | Grace     |       |      | Gravouilla | GG    | 9-23    | Looney   |  |
| Taylor                    |       |             | Johnson   |       |      | Jackson    | JS    | 9-23    | Wolfe    |  |
| Witt                      |       |             | Simonson  |       |      | Millender  | ML    | 9-20    |          |  |
| Young                     |       |             | Vavasseur |       |      | Metrejean  | MT    | 9-20    |          |  |



# CHLORINATED METHANES MOD V

## DESCRIPTION OF CHANGE



**C/D**

System

**PSA'S**

Equipment Number

**300**

Can

In the below list alarm, the low nitrogen flow alarm setpoints which were AP's were replaced with AC's . These AC are the calculated flow requirements based on the pressure of the filter bed.

System C - Warn(355) and (356)

System D - Warn(460)

### RATE OF CHANGE ALARMS - 321,347,447

Added a minimum temperature to activate the rate of change alarm for each bed temperature - Bottoms bed 80, mid and top 30-35.

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# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: 9/15, 1995

FROM: Jim Haney

SUBJECT: The Certification of Compliance for the R-750  
Liquid feeds was submitted to the EPA on 9/14/95.  
Based upon the test results in July and August, the  
trip lim.pts for the liquid feeds have changed. The  
new lim.pts were uploaded into the PICSVAX today. Please  
take a look at Sheet 90 for the new values.

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff            | Supervisors        | SOS's                  | OS's                 | Loaders     |
|----------------------|--------------------|------------------------|----------------------|-------------|
| Init. Date           | Init. Date         | Init. Date             | Init. Date           | Init. Date  |
| Clebert <u>9/15</u>  | Cook J <u>9-16</u> | Breaux <u>9/15</u>     | Bishop <u>9-25</u>   | Armand      |
| Haney <u>9/15</u>    | Dugas <u>9/23</u>  | Beiler <u>9/15</u>     | Bourg <u>9-27</u>    | Doucet      |
| Kelley <u>9/15</u>   | Day Oper.          | Bickham <u>9/15</u>    | Davis <u>9/20</u>    | Instruments |
| Ledoux <u>9/28</u>   |                    | Cook F. <u>9-16</u>    | Ekey <u>9/27</u>     |             |
| McMurray <u>9/15</u> |                    | Cavalier <u>9-25</u>   | Harrison <u>9-19</u> |             |
| Michel <u>9/15</u>   | Donatto            | Grant <u>9-18-95</u>   | Jack <u>9-16</u>     | Neyland     |
| Rizzo                | Grace              | Gravouilla <u>9/15</u> | Looney <u>9/15</u>   | Shanklin    |
| Taylor <u>9/15</u>   | Johnson            | Jackson <u>9-25</u>    | Wolfe                |             |
| Witt <u>9/21/95</u>  | Simonson           | Millender <u>9/15</u>  |                      |             |
| Jung                 | Vavasseur          | Metrejean <u>9/15</u>  |                      |             |

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Fri, Sep 15, 1995

FROM: Rizzo

SUBJECT: Please review the following revised procedures:

1. 1531 sample.doc # 460694
2. psarchrg.doc #460127
3. R1300csd.doc # 460156
4. Steamhea.Doc # 460273
5. SUM1SYS.DOC #460042

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff               | Supervisors            | SOS's                        | OS's                       | Loaders     |
|-------------------------|------------------------|------------------------------|----------------------------|-------------|
|                         | <u>X</u>               | <u>X</u>                     | <u>X</u>                   |             |
| Init. Date              | Init. Date             | Init. Date                   | Init. Date                 | Init. Date  |
| Clebert                 | Cook J. <u>OK</u> 9-16 | Breaux <u>OK</u> 9/15/95     | Bishop <u>OK</u> 9/15      | Armand      |
| Haney <u>OK</u> 9/15/95 | Dugas <u>OK</u> 9/23   | Beiler <u>OK</u> 9/18        | Bourg <u>OK</u> 9/23       | Doucet      |
| Kelley                  | Day Oper.              | Bickham <u>OK</u> 9/18       | Davis <u>OK</u> 9/22       | Instruments |
| Ledoux                  |                        | Cook F. <u>FL</u> 9/16/95    | Ekey <u>OK</u> 9/27        |             |
| McMurray                | Init. Date             | Cavalier <u>OK</u> 9/25/95   | Harrison <u>OK</u> 9/15/95 | Init. Date  |
| Michel                  | Donatto                | Grant <u>OK</u> 9-18-95      | Jack <u>OK</u> 9/16        | Neyland     |
| Rizzo                   | Grace                  | Gravouille <u>OK</u> 9-18-95 | Looney <u>OK</u> 9/16/95   | Shanklin    |
| Taylor                  | Johnson                | Jackson <u>OK</u> 9-25       | Wolfe <u>DW</u> 9-16-95    |             |
| Witt                    | Simonson               | Millender <u>OK</u> 9/16     |                            |             |
| 'oung                   | Vavasseur              | Metrejean <u>OK</u> 9/15     |                            |             |

DO A 031940  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Fri, Sep 1, 1995

FROM: Rizzo

SUBJECT: Please review the following revised procedures:

\* C600sd.doc #460627

\* Cl2loadchange # 460581

Loaders Only

\* Loademer # 460411

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff  | Supervisors         | SOS's                     | OS's                 | Loaders            |
|------------|---------------------|---------------------------|----------------------|--------------------|
|            | <u>X</u>            | <u>X</u>                  | <u>X</u>             | <u>X</u>           |
| Init. Date | Init. Date          | Init. Date                | Init. Date           | Init. Date         |
| Clebert    | Cook J. <u>9-2</u>  | Breaux <u>9/5/95</u>      | Bishop <u>9/2</u>    | Armand <u>9/2</u>  |
| Haney      | Dugas <u>9/5</u>    | Beieler <u>9-5</u>        | Bourg <u>9-4</u>     | Doucet <u>9/18</u> |
| Kelley     | Day Oper.           | Bickham <u>9/18</u>       | Davis <u>9/22</u>    | Instruments        |
| Ledoux     |                     | Cook F. <u>9-2-95</u>     | Ekey <u>9/27</u>     |                    |
| McMurray   | Init. Date          | Cavalier <u>9-5-95</u>    | Harrison <u>9/4</u>  | Init. Date         |
| Michel     | Donatto             | Grant <u>9-8-95</u>       | Jack <u>9-6</u>      | Neyland            |
| Rizzo      | Grace               | Gravouilla <u>9-10-95</u> | Looney <u>9-2-95</u> | Shanklin           |
| Taylor     | Johnson             | Jackson <u>9-4-95</u>     | Wolfe <u>9-3-95</u>  |                    |
| Witt       | Simonson <u>9/5</u> | Millender <u>9/5</u>      |                      |                    |
| Young      | Vavasseur           | Metrejean <u>9/2</u>      |                      |                    |

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: 8/23, 1995

FROM: DUGAS / CROK

SUBJECT: C-600 LEVEL CONTROLLER  
C-600 SAMPLE POINT

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff           | Supervisors                    | SOS's                            | OS's                           | Loaders     |
|---------------------|--------------------------------|----------------------------------|--------------------------------|-------------|
| Init. Date          | Init. Date                     | Init. Date                       | Init. Date                     | Init. Date  |
| <del>Clebert</del>  | Cook J. <u>JCP</u> <u>8-24</u> | Breaux <u>JB</u> <u>8/23</u>     | Bishop <u>CB</u> <u>8/24</u>   | Armand      |
| <del>Haney</del>    | Dugas <u>DD</u> <u>8/23</u>    | Beieler <u>AB</u> <u>9/5/95</u>  | Bourg <u>BB</u> <u>8-27</u>    | Doucet      |
| <del>Kelley</del>   | Day Oper.                      | Bickham <u>KB</u> <u>8/28</u>    | Davis <u>DB</u> <u>9/22</u>    | Instruments |
| <del>Ledoux</del>   | <del>Donatto</del>             | Cook F. <u>FC</u> <u>8-27</u>    | Ekey <u>EB</u> <u>9/27</u>     |             |
| <del>McMurray</del> | <del>Grace</del>               | Cavalier <u>MC</u> <u>8/28</u>   | Harrison <u>HB</u> <u>8-25</u> |             |
| <del>Michel</del>   | <del>Johnson</del>             | Grant <u>GC</u> <u>8-28-95</u>   | Jack <u>JB</u> <u>8-23</u>     |             |
| <del>Rizzo</del>    | <del>Simonson</del>            | Gravouilla <u>GB</u> <u>8/24</u> | Looney <u>LB</u> <u>8-23</u>   |             |
| <del>Taylor</del>   | Vavasseur                      | Jackson <u>JB</u> <u>8-25-95</u> | Wolfe <u>DW</u> <u>8-24</u>    | Neyland     |
| <del>Witt</del>     |                                | Millender <u>MB</u> <u>8/23</u>  |                                | Shanklin    |
| <del>Jung</del>     |                                | Metrejean <u>DM</u> <u>8/23</u>  |                                |             |

DO A 031942  
CONFIDENTIAL

## C-600 LEVEL CONTROL

C-600 is now being level controlled using the same level control valve that C-610 used. The cascade control scheme to CA2 and CWT is the same as it was formerly. The level control loop near C-600 is blocked in on each side of the control valve and the bypass is wide open. This is the way it will be lined up under normal operations.

The C-600 level recorder controller (LRC-2807) is the old C-610 controller and is located in TDC Group 11, slot 1. It is also located in Group 119, slot 3. This is the working level controller.

The level control valve near C-600, controller LRC-45015, (which is bypassed) is located in TDC Group 119, slot 6. You won't have to do anything with this one under normal operating conditions.

The C-600 sample point has been relocated to the diked C-610 area and is on the upstream bleed valve on the level control loop.

Now we will be able to send acid to CWT and/or CA2, along with acid to T-1020, the same way that we used to do it.

If you have any questions, talk to James or Donnie.

DDP/LFC

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Tue, Aug 22, 1995

FROM:

SUBJECT: Please review the attached sheets for an explanation of the changes made to the PSA system

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff               | Supervisors            | SOS's                       | OS's       | Loaders     |
|-------------------------|------------------------|-----------------------------|------------|-------------|
| Init. Date              | Init. Date             | Init. Date                  | Init. Date | Init. Date  |
| Clebert                 | Cook J. <i>RC</i> 8/21 | Breaux <i>huh</i> 8/23/95   | Bishop     | Armand      |
| Haney <i>ML</i> 8/22/95 | Dugas <i>DEO</i> 8/23  | Beieler <i>hls</i> 9-5/95   | Bourg      | Doucet      |
| Kelley                  | Day Oper.              | Bickham <i>Q</i> 8/28       | Davis      | Instruments |
| Ledoux                  |                        | Cook F. <i>EC</i> 8-23      | Ekey       |             |
| McMurray                | Init. Date             | Cavalier <i>NAC</i> 8-25/95 | Harrison   | Init. Date  |
| Michel                  | Donatto                | Grant <i>w</i> 8-21-95      | Jack       | Neyland     |
| Rizzo                   | Grace                  | Gravouilla <i>M</i> 8-24    | Looney     | Shanklin    |
| Taylor                  | Johnson                | Jackson <i>RJ</i> 8-25-95   | Wolfe      |             |
| Witt                    | Simonson <i>K</i> 8/22 | Millender <i>RA</i> 8/26    |            |             |
| 'oung                   | Vavasseur              | Metrejean <i>DM</i> 8/22    |            |             |

DO A 031944  
CONFIDENTIAL



# CHLORINATED METHANES MOD V

## DESCRIPTION OF CHANGE



C

System

PSA'S

Equipment Number

300

Can

### RAMP RATE ALARM

Req(321) - Each temperature point on V-1770 has a high rate of change logic written.

Example for AI(363)

The way it works is that when the seq enters the adsorption step 304, if **AI(363)** raises above the previous cycles temperature, **AC(746)** by a given amount set by **AP(1424)**, a DC will become true **DC(1059)**, which in turn, activates another DC, **DC(1093)**, which will activate the alarm. When this occurs, **AC(746)** will begin tracking **AI(363)** value until leaving the adsorption steps, where it will trap its last value. When the alarm activates, another AC, **AC(748)**, will track the highest value for that temperature until the alarm clears. Upon leaving this step, **DC(1059)** will become false.

The next time the sequence comes back through the cycle, one of the following control actions will take place:

- \* Upon entering the adsorption step, if the temperature, **AI(363)** increases above the trapped value, **AC(746)**, from the previous cycle, by an amount greater than the previous cycle **AP**, **DC(1059)** will become true again, clearing the alarm and then re-activating it, indicating a continual increase in bed temperature during the adsorption cycles.
- \* If the temperature is above the previous temperature, **AC(746)**, but below the deviation **AP** setpoint, the alarm will remain active. The alarm will not re-ring.
- \* If **DC(1059)** doesn't become true and the temperature, **AI(363)** is below the previous cycle temperature, **AC(746)** upon leaving the step, **DC(304)** will become true and **AC(746)** will be made equal to **AI(363)**. **This is used to eventually clear the alarm.** When the temperature from cycle to cycle begins to decrease, and when there is no longer a deviation between the trapped value, **AC(746)** and the highest value attained during the alarm condition, **AC(748)**, by an amount set by **AP(1407)**, the alarm will clear. - See **DC(1093)**

!



# *CHLORINATED METHANES MOD V*

## *DESCRIPTION OF CHANGE*



**C**

System

**PSA'S**

Equipment Number

**300**

Can

### **E-1760 & E-1770**

This controller has been changed from a freon back pressure controller, to a cascade drain temperature to pressure controller. See AO(303) & AO(323)

When the slave controller becomes enabled, if the local pressure setpoint AK's are set to (0), and the drain temperature transmitter hasn't failed, the master controller will become enabled, adjusting the pressure setpoint to control the drain temperature.

If the drain temperature should fail, the master controller will become disabled and the slave setpoint will maintain its last good value.

If the pressure transmitter fails, the controller will hold its last good output. If you need to adjust the controller you can place the valve in manual.

### **REQ(329)**

This alarm detects a high oxygen concentration on the discharge of K-1770

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Fri, Aug 18, 1995

FROM: Rizzo

SUBJECT: The Following Procedures Have been Added To the System: Please Read These Procedure

\*C-600 Emergency Procedure - #460626 \*C-600 Shut Down - #460627  
 \*C-600 Start Up - #460628 \* Unplugging Amylene Additon Lines - 460624  
 \* PSA Valve Replacement - # 460631  
 \* OS JOB description - Resource Form \* V-1540 Filter Element Replacement - 460629  
 \* V-1540 Back Wash Procedure - #460630

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff  | Supervisors             | SOS's                        | OS's                     | Loaders     |
|------------|-------------------------|------------------------------|--------------------------|-------------|
| Init. Date | Init. Date              | Init. Date                   | Init. Date               | Init. Date  |
| Clebert    | Cook J. <i>JRC</i> 8-18 | Breaux <i>WJ</i> 8/19/95     | Bishop <i>WJ</i> 8/18    | Armand      |
| Haney      | Dugas <i>DD</i> 8/18    | Beieler <i>WJ</i> 8-5        | Bourg <i>WJ</i> 8-21     | Doucet      |
| Kelley     | Day Oper.               | Bickham <i>WJ</i> 8/21/95    | Davis <i>WJ</i> 9/22     | Instruments |
| Ledoux     |                         | Cook F. <i>WJ</i> 8-23       | Ekey <i>WJ</i> 8/18      |             |
| McMurray   | Init. Date              | Cavalier <i>MC</i> 8-18/95   | Harrison <i>WJ</i> 8/18  | Init. Date  |
| Michel     | Donatto                 | Grant <i>WJ</i> 8-21-95      | Jack <i>WJ</i> 8-23      | Neyland     |
| Rizzo      | Grace                   | Gravouilla <i>WJ</i> 8-18-95 | Looney <i>WJ</i> 8-20-95 | Shanklin    |
| Taylor     | Johnson                 | Jackson <i>WJ</i> 8-25-95    | Wolfe <i>WJ</i> 8-18-95  |             |
| Witt       | Simonson                | Millender <i>WJ</i> 8/18     |                          |             |
| Young      | Vavasseur               | Metrejean <i>WJ</i> 8/18     |                          |             |

DO A 031947  
 CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Fri, Aug 18, 1995

FROM: Rizzo

SUBJECT: The Following Procedures Have Been Revised: Please Review Them

- \* C-1540 Drain Procedure - 460072 \* C-1540 Shut Down - 460073
- \* C-1540 Start up - 460074
- \* R250 Start Up Procedures - # 460007, 460009, 460010 & 460011
- \* T-1020 Fill - # 460096

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff  | Supervisors<br><u>X</u> | SOS's<br><u>X</u> | OS's<br><u>X</u> | Loaders     |
|------------|-------------------------|-------------------|------------------|-------------|
| Init. Date | Init. Date              | Init. Date        | Init. Date       | Init. Date  |
| Clebert    | Cook J.                 | Breaux            | Bishop           | Armand      |
| Haney      | Dugas                   | Beieler           | Bourg            | Doucet      |
| Kelley     | Day Oper.               | Bickham           | Davis            | Instruments |
| Ledoux     |                         | Cook F.           | Ekey             |             |
| McMurray   | Init. Date              | Cavalier          | Harrison         | Init. Date  |
| Michel     | Donatto                 | Grant             | Jack             | Neyland     |
| Rizzo      | Grace                   | Gravouilla        | Looney           | Shanklin    |
| Taylor     | Johnson                 | Jackson           | Wolfe            |             |
| Witt       | Simonson                | Millender         |                  |             |
| Young      | Vavasseur               | Metrejean         |                  |             |

DO A 031948  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: 8/17, 1995

FROM: BRANDON CHOATE

SUBJECT: R-1300 PROGRAM CHANGES

(SEE ATTACHED SHEET)

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff            | Supervisors         | SOS's                     | OS's             | Loaders     |
|----------------------|---------------------|---------------------------|------------------|-------------|
| Init. Date           | Init. Date          | Init. Date                | Init. Date       | Init. Date  |
| Clebert              | Cook J. <u>8/17</u> | Breaux <u>8/17</u>        | Bishop           | Armand      |
| Haney <u>8/17</u>    | Dugas <u>8/17</u>   | Beieler <u>8/17</u>       | Bourg            | Doucet      |
| Kelley               | Day Oper.           | Bickham <u>8/17</u>       | Davis            | Instruments |
| Ledoux               |                     | Cook F. <u>8/17</u>       | Ekey <u>8/17</u> |             |
| McMurray <u>8/17</u> |                     | Cavalier <u>8/17</u>      | Harrison         |             |
| Michel               | Donatto             | Grant <u>8-17-95</u>      | Jack             | Neyland     |
| Rizzo                | Grace               | Gravouilla <u>8-17-95</u> | Looney           | Shanklin    |
| Taylor               | Johnson             | Jackson <u>8-25-95</u>    | Wolfe            |             |
| Witt                 | Simonson            | Millender <u>8/17/95</u>  |                  |             |
| Jung                 | Vavasseur           | Metrejean <u>8/18</u>     |                  |             |

DO A 031949  
CONFIDENTIAL

# CHLORMETHANES R-1300 MODIFICATIONS

Changes in the R-1300 program are now being implemented as the unit has been shutdown. In order to ready the plant to accept up to 1.8 MMlb/day of chlorine feed, the large flow transmitters on the vapor recycle stream from the distillation train have been reranged (from 207920 lb/hr to 250000 lb/hr). The scale factors have been reassigned for all variables associated with the flows, and literals employed in the reactor mole balances have been redetermined. Also, the HCl flow to the inlet nozzle is no longer used for temperature control of the nozzle. The purge flow setpoints for the controller are now the only adjustments available.

Simulation of these changes is now complete and the upload is slated to occur on August 17th. The recycle flow transmitters will need to be reranged before R-1300 startup. One issue still requiring resolution is the value, AP(193), used to allow the swap from small to large recycle flowmeters to occur. Typically, there is a deviation between the two meters while feeds are increased during startup. The meter flows equalize shortly before the swap is triggered by DC(138). As a result of the rescaling, this converging may take place at a higher flow than that currently set in the program. AP(193) may need to be increased, so the small and large flows should be monitored to determine if a new value is necessary.

|         | OLD value            | new value                           |
|---------|----------------------|-------------------------------------|
| AP(193) | 16 <sup>mlb/hr</sup> | 25, <del>16</del> <sup>mlb/hr</sup> |

value that recycle flow has to reach before  
Swapping to big flow meters

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: July 27, 1995

FROM: Kevin Kelley

SUBJECT: See attached note on liquid nitrogen order  
procedure changes

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff                        | Supervisors                 | SOS's                              | OS's                              | Loaders     |
|----------------------------------|-----------------------------|------------------------------------|-----------------------------------|-------------|
| Init. Date                       | Init. Date                  | Init. Date                         | Init. Date                        | Init. Date  |
| Clebert <u>K</u> <u>8/5</u>      | Cook J. <u>K</u> <u>8/6</u> | Breaux <u>KB</u> <u>7/27/95</u>    | Bishop <u>KB</u> <u>7/27</u>      | Armand      |
| Haney <u>KA</u> <u>8/18/95</u>   | Dugas <u>DD</u> <u>7/29</u> | Beieler <u>KB</u> <u>8/2/95</u>    | Bourg <u>KB</u> <u>7/27</u>       | Doucet      |
| Kelley <u>K</u> <u>7/27</u>      | Day Oper. <u>HA</u>         | Bickham <u>KB</u> <u>8/1/95</u>    | Davis <u>CD</u> <u>8/2</u>        | Instruments |
| Ledoux <u>KL</u> <u>7/27</u>     |                             | Cook F. <u>FL</u> <u>7/27/95</u>   | Ekey <u>KE</u> <u>8/18</u>        |             |
| McMurray <u>MM</u> <u>8/1/95</u> |                             | Cavalier <u>MC</u> <u>7/28/95</u>  | Harrison <u>HR</u> <u>7/28/95</u> |             |
| Michel <u>A.M.</u> <u>10/24</u>  | Donatto                     | Grant <u>G</u> <u>7-27-95</u>      | Jack <u>OS</u> <u>7-31-95</u>     | Neyland     |
| Rizzo                            | Grace <u>GR</u> <u>9/27</u> | Gravouilla <u>GR</u> <u>8/1/95</u> | Looney <u>RL</u> <u>7/27/95</u>   | Shanklin    |
| Taylor                           | Johnson                     | Jackson <u>JA</u> <u>7-28-95</u>   | Wolfe <u>DW</u> <u>7-31-95</u>    |             |
| Witt                             | Simonson                    | Millender <u>ML</u> <u>7/31</u>    |                                   |             |
| Young <u>Y</u> <u>8/2</u>        | Vavasseur                   | Metrejean <u>MT</u> <u>7/31</u>    |                                   |             |

**OPERATIONS COMMUNIQUE'**  
**K. KELLEY**

---

Date: 7/27/95

Topic: Ordering liquid nitrogen for T-455.

The "Liquid Nitrogen Order" procedure has been revised to make things a little easier from a paperwork standpoint. The procedure has been updated on the commons. We now have a standing PO# with Air Liquide, so you will be able to call them directly and schedule the truck when you need it.

See Julie or myself with questions.

Kevin Kelley

A handwritten signature, likely of Kevin Kelley, consisting of a stylized capital 'K' followed by a horizontal line.

DO A 031952  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: 7/17, 1995

FROM: Jim Haney

SUBJECT: The liquid feed lim. Ts have been changed temporary again to ~~accommodate~~ accommodate the Compliance Burn Testing for the week of 7/17/95. These lim. Ts will be changed back to their original values after the testing is complete. No liquids other than the test liquid (Carbon Jet via D-751) can be burned while these temporary lim. Ts are in place.

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff                       | Supervisors                   | SOS's                              | OS's                              | Loaders     |
|---------------------------------|-------------------------------|------------------------------------|-----------------------------------|-------------|
| Init. Date                      | Init. Date                    | Init. Date                         | Init. Date                        | Init. Date  |
| Clebert                         | Cook J. <u>JK</u> <u>7-6</u>  | Breaux <u>RB</u> <u>7/17/95</u>    | Bishop <u>JS</u> <u>7/17</u>      | Armand      |
| Haney <u>JK</u> <u>7/17</u>     | Dugas <u>AD</u> <u>7/21</u>   | Beieler <u>AS</u> <u>7/17/95</u>   | Bourg <u>BJ</u> <u>7/19</u>       | Doucet      |
| Kelley <u>K</u> <u>7/17/95</u>  | Day Oper.                     | Bickham <u>CB</u> <u>7/24/95</u>   | Davis <u>CD</u> <u>7/17</u>       | Instruments |
| Ledoux <u>LL</u> <u>7/27</u>    |                               | Cook F. <u>FC</u> <u>7/17/95</u>   | Ekey <u>KE</u> <u>7/17</u>        |             |
| McMurray <u>VM</u> <u>8/17</u>  |                               | Cavalier <u>MC</u> <u>7/17/95</u>  | Harrison <u>HA</u> <u>7/20/95</u> |             |
| Michel <u>AM</u> <u>10/24</u>   | Donatto                       | Grant <u>G</u> <u>7-19-95</u>      | Jack <u>OJ</u> <u>7-17-95</u>     | Neyland     |
| Rizzo <u>NA</u>                 | Grace <u>AG</u> <u>9/6/95</u> | Gravouilla <u>G</u> <u>7-17-95</u> | Looney <u>LL</u> <u>7-17-95</u>   | Shanklin    |
| Taylor <u>TA</u> <u>7/17/95</u> | Johnson                       | Jackson <u>BJ</u> <u>7/22/95</u>   | Wolfe <u>DW</u> <u>7-17-95</u>    |             |
| Witt                            | Simonson                      | Millender <u>MA</u> <u>7/31</u>    |                                   |             |
| Young <u>YG</u> <u>10/27</u>    | Vavasseur                     | Metrejean <u>JM</u> <u>7/21</u>    |                                   |             |

DO A 031953  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: 7/7, 1995

FROM: Jim Haney / Richard Breaux

SUBJECT:

The shutdown AP for R-1300 Low Low differential pressure between the Cl<sub>2</sub> Header and the inlet nozzle has been changed from 10 to 5 psig. This also changes the set point for ALM(120), Low DP - Ramp down Cl<sub>2</sub> feed, from 15 to 10 psig. This setpoint still ensures enough DP to prevent backflow into the Cl<sub>2</sub> header. It also enables us to run higher Cl<sub>2</sub> rates.

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff                     | Supervisors                   | SOS's                               | OS's                           | Loaders                 |
|-------------------------------|-------------------------------|-------------------------------------|--------------------------------|-------------------------|
| Init. Date                    | Init. Date                    | Init. Date                          | Init. Date                     | Init. Date              |
| Clebert <u>CL</u> <u>7/10</u> | Cook J. <u>JC</u> <u>7/10</u> | Breaux <u>LB</u> <u>7/7/95</u>      | Bishop <u>BS</u> <u>7/7</u>    | Armand _____            |
| Haney <u>JH</u> <u>7/10</u>   | Dugas <u>DD</u> <u>7/15</u>   | Beieler <u>BB</u> <u>7/10/95</u>    | Bourg <u>BB</u> <u>7-10</u>    | Doucet _____            |
| Kelley <u>KK</u> <u>7/10</u>  | Day Oper.<br><u>✓</u>         | Bickham <u>CB</u> <u>7/14/95</u>    | Davis <u>CD</u> <u>7/10</u>    | Instruments<br><u>✓</u> |
| Ledoux <u>LL</u> <u>7/10</u>  |                               | Cook F. <u>FC</u> <u>7-95</u>       | Ekey <u>KE</u> <u>7/10</u>     |                         |
| McMurray <u>MM</u> <u>9/1</u> |                               | Cavalier <u>CC</u> <u>7-95</u>      | Harrison <u>HC</u> <u>7/11</u> |                         |
| Michel <u>AM</u> <u>10/95</u> |                               | Grant <u>GU</u> <u>7-11-95</u>      | Jack <u>JS</u> <u>7-7</u>      |                         |
| Rizzo _____                   |                               | Gravouilla <u>GB</u> <u>7-11-95</u> | Looney <u>LL</u> <u>7-7-95</u> | Neyland _____           |
| Taylor <u>TL</u> <u>7/10</u>  |                               | Jackson <u>JK</u> <u>7-10-95</u>    | Wolfe <u>DW</u> <u>7-8-95</u>  | Shanklin _____          |
| Witt _____                    |                               | Millender <u>RM</u> <u>7/7</u>      |                                |                         |
| Young <u>YU</u> <u>7/10</u>   |                               | Metrejean <u>DM</u> <u>7/9</u>      |                                |                         |

DO A 031954  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Fri, Jul 7, 1995

FROM: Rizzo

SUBJECT: Please review the following new and/or revised procedures

MODVPUMP.doc # 460206

Sealoil.doc (NEW) # 460621

Swpribr. # 460081

V1515reg.doc # 460058

V1515su.doc (NEW) # 460622

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff  | Supervisors   | SOS's            | OS's          | Loaders     |
|------------|---------------|------------------|---------------|-------------|
|            |               | X                | X             |             |
| Init. Date | Init. Date    | Init. Date       | Init. Date    | Init. Date  |
| Clebert    | Cook J. 7/10  | Breaux 7/7/95    | Bishop 7/7/95 | Armand      |
| Haney      | Dugas 7/15    | Beieler 7/14/95  | Bourg 7/10    | Doucet      |
| Kelley     | Day Oper.     | Bickham 7/14/95  | Davis 7/10    | Instruments |
| Ledoux     |               | Cook F. 7/7/95   | Ekey 7/10     |             |
| McMurray   | Init. Date    | Cavalier 7/7/95  | Harrison 7/11 | Init. Date  |
| Michel     | Donatto       | Grant 7/11/95    | Jack 7/7      | Neyland     |
| Rizzo      | Grace 7/12/95 | Gravouillat 7/11 | Looney 7/7-95 | Shanklin    |
| Taylor     | Johnson       | Jackson 7/10/95  | Wolfe 7/7-95  |             |
| Witt       | Simonson      | Millender 7/8    |               |             |
| Young      | Vavasseur     | Metrejean 7/9    |               |             |

DO A 031955  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: 7/5, 1995

FROM: Jim Haney

SUBJECT: The liquid feed limits for D-751 have been changed temporarily to ~~accommodate~~ accommodate the compliance testing on the Thru (ie. High Liquid Feed trip was changed from 3.5 to 4.0). These limits will be changed back to their original values after the testing is complete.

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff  | Supervisors            | SOS's                     | OS's                    | Loaders     |
|------------|------------------------|---------------------------|-------------------------|-------------|
| Init. Date | Init. Date             | Init. Date                | Init. Date              | Init. Date  |
| Clebert    | Cook J. <u>JK</u>      | Breaux <u>LB</u> 7/7/95   | Bishop <u>CB</u> 7/7    | Armand      |
| Haney      | Dugas <u>DD</u> 7/6    | Beiler <u>BB</u> 7/8/95   | Bourg <u>AB</u> 7/10    | Doucet      |
| Kelley     | Day Oper.              | Bickham <u>AB</u> 7/14/95 | Davis <u>CD</u> 7/10    | Instruments |
| Ledoux     |                        | Cook F. <u>EL</u> 7/7/95  | Ekey <u>ME</u> 7/10     |             |
| McMurray   |                        | Cavalier <u>MC</u> 7/9/95 | Harrison <u>MC</u> 7/11 |             |
| Michel     | Donatto                | Grant <u>GC</u> 7-11-95   | Jack                    | Neyland     |
| Rizzo      | Grace <u>GR</u> 7/7/95 | Gravouilla <u>GR</u> 7-11 | Looney <u>RL</u> 7-7-95 | Shanklin    |
| Taylor     | Johnson                | Jackson <u>RJ</u> 7-10-95 | Wolfe <u>DW</u> 7-7-95  |             |
| Witt       | Simonson               | Millender <u>RM</u> 7/8   |                         |             |
| Young      | Vavasseur              | Metrejean <u>DM</u> 7/8   |                         |             |

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Wed, Jul 5, 1995

FROM: Rizzo

SUBJECT: Please review the attached sheets which explain the code modifications that were done on system (D)

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff               | Supervisors             | SOS's                       | OS's                 | Loaders     |
|-------------------------|-------------------------|-----------------------------|----------------------|-------------|
| Init. Date              | Init. Date              | Init. Date                  | Init. Date           | Init. Date  |
| Clebert                 | Cook J. <i>JRC</i> 7/10 | Breaux <i>Red</i> 7/7/95    | Bishop               | Armand      |
| Haney <i>CH</i> 7/5     | Dugas <i>DD</i> 7/6     | Beieler <i>bs</i> 7/10/95   | Bourg                | Doucet      |
| Kelley <i>KS</i> 7/2    | Day Oper.               | Bickham <i>ab</i> 7/5/95    | Davis <i>CD</i> 7/10 | Instruments |
| Ledoux <i>KL</i> 7/11   |                         | Cook F. <i>FG</i> 7/7/95    | Ekey                 |             |
| McMurray <i>JM</i> 7/11 | Init. Date              | Cavalier <i>JRC</i> 7-5-95  | Harrison             | Init. Date  |
| Michel <i>RM</i> 7/5    | Donatto <i>AL</i> 9/27  | Grant <i>ce</i> 7-5-95      | Jack                 | Neyland     |
| Rizzo                   | Grace <i>AL</i> 9/27    | Gravouilla <i>DS</i> 7-5-95 | Looney               | Shanklin    |
| Taylor <i>TS</i> 7/5/95 | Johnson                 | Jackson <i>RS</i> 7-10-95   | Wolfe                |             |
| Witt                    | Simonson                | Millender <i>DL</i> 7/8     |                      |             |
| Young <i>YM</i> 10/12   | Vavasseur               | Metrejean <i>DM</i> 7/8     |                      |             |

DO A 031957  
CONFIDENTIAL



# CHLORINATED METHANES MOD V

## DESCRIPTION OF CHANGE



D

System

PSA'S

Equipment Number

400

Can

### ALARM(460)

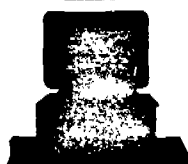
Alarm (460) was added to system D. This alarm will activate when the Nitrogen flow to the beds, AI(425) drops below the minimum N2 flow setpoint, AP(462) and in step(434) or (440).

The intent of this alarm is to notify to board operator that the flow is to low to properly regenerate the beds, possible causing an organic break through.

this alarm may become a nuisance alarm because the timer, DT(413), is set to low. If so, monitor the N2 flow when first entering a regen step and time how long it takes before an actual flow is indicated.

AP(434) change to SC.

DO A 031958  
CONFIDENTIAL



# CHLORINATED METHANES MOD V

## DESCRIPTION OF CHANGE



**D**

System

**C-1540**

Equipment Number

**300**

Can

### AO(322)

When the feed valve to C-1550 is requested to open, the slave setpoint, AC(1097), will go to zero as will the valve output. The slave setpoint will then be ramped back to the original tracked setpoint, AC(1060) preceded by the master returning to full control.

If, during this process, a sufficient feed flow, as set by AP(705), hasn't been established to C-1550, by the time the control valve output exceeds AP(704) value, DC(705) will become "TRUE", indicating a possible problem with the feed AOV. When this occurs, the AOV to D-1525, DO(303) will open and the feed AOV, DO(322) will close. The control ramp setpoint will be given a value of zero for one second, closing the control valve and then ramping the setpoint back up to the feed that it had prior to the swap.

The same function occurs if C-1550 would enter the shutdown step and the feed aov would close. If DO(303) opens but a flow isn't indicated, the feed AOV to C-1550 will re-open.

### DO(303) & DO(322)

In the event that DO(303) is requested open by the mod and a sufficient flow hasn't been established by the time the control valve output reaches AP(704), DC(704) will become true, opening DO(322) back to T-1500. This is an indication that there are problems with the AOV.

If a condition exist where the feed aov, DO(322), to C-1550 is requested open and a di/do mismatch occurs in the process, or if the feed control valve AO(322) becomes greater than the setpoint to establish a flow and the feed flow to C-1550, AI(314), is less than AP(705), DC(705) becomes true, indicating a possible problem with the feed aov. DO(303) will become enabled. the reason for this action is to protect the P-1541 reflux pumps from dead heading.

### WARN(330)

This alarm activate if DC(704) or DC(705) become true, indicating a possible problem with the swapping of AO(322) or AO(303).

DO A 031959  
CONFIDENTIAL



# CHLORINATED METHANES MOD V

## DESCRIPTION OF CHANGE



**D**

System

**C-1510/20/40**

Equipment Number

**100**

Can

### **WARN(158)**

Re-wrote Alarm 158. Took out the logic that required the level to be above a certain limit before enabling the alarm.

When the alarm activates, P-1511's will trip and will not re-energize until the alarm has cleared.

### **WARN(220)**

Re-wrote Alarm(220). Took out the logic that required the level to be above a certain limit before enabling the alarm.

If the alarm activates, indicating a low leve, the reflux pump will trip. The pump will not re-energize until the alarm has cleared.

### **DC(960)**

Changed the latch from DC(919) to #ALM(220). This has the same affect since DC(919) goes false when ALM(220 activates).



# *CHLORINATED METHANES MOD V*

## *DESCRIPTION OF CHANGE*



**D**

System

**T-1500**

Equipment Number

**100**

Can

### **AUTO ZEROING AK(890)**

placed a one second blip in the CALL AKZERO(AK890) logic. Upon entering STEP(263) AK(890) will be autozeroed. Once it has been set to zero, the operator has the option of re-setting the AK to begin feeding C-1510 again.

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: 6/30, 1995

FROM: Don Taylor

SUBJECT: Safety Data

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

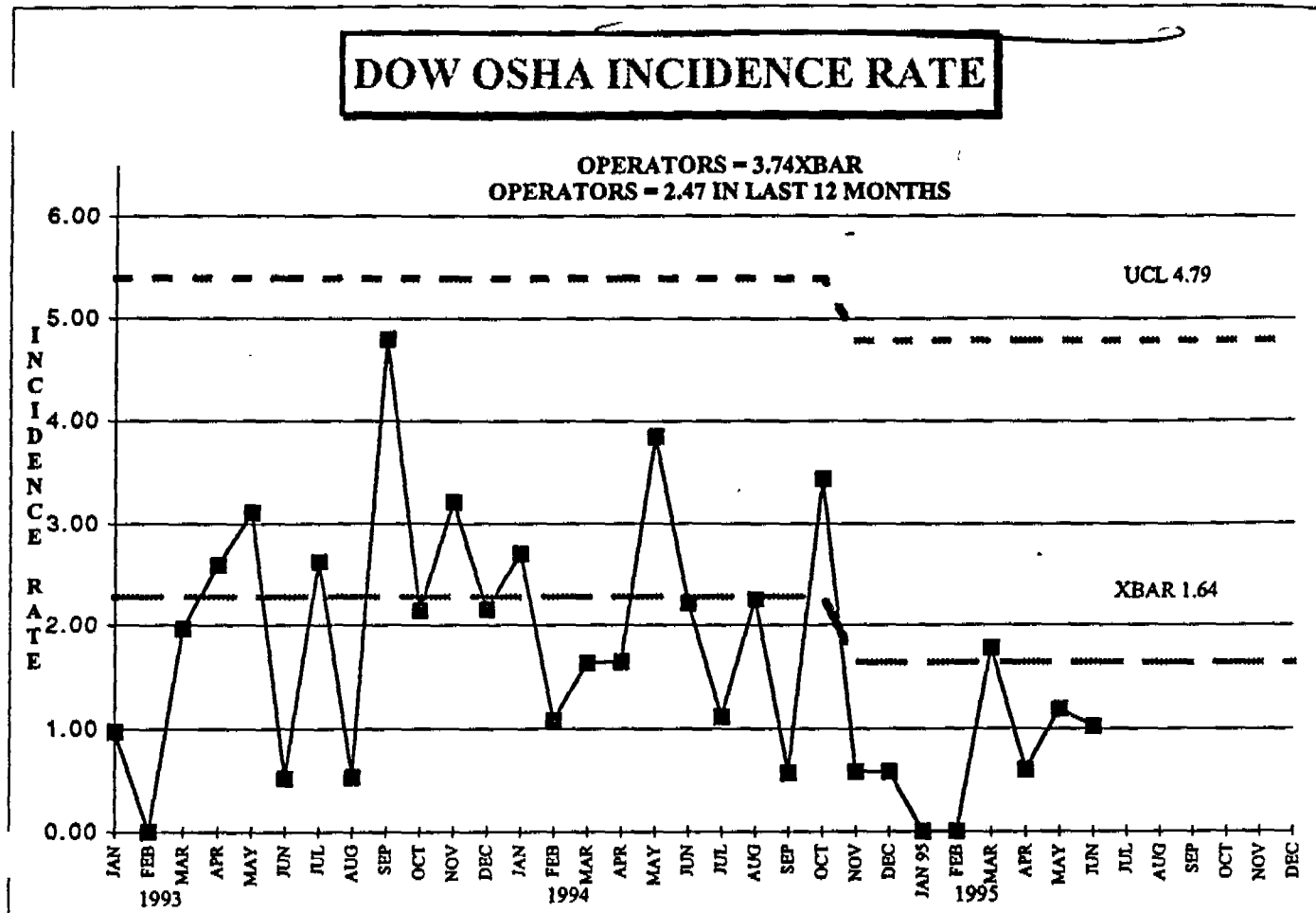
EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff                           | Supervisors                                      | SOS's                               | OS's                                | Loaders                                            |
|-------------------------------------|--------------------------------------------------|-------------------------------------|-------------------------------------|----------------------------------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                |
| Init. Date                          | Init. Date                                       | Init. Date                          | Init. Date                          | Init. Date                                         |
| Clebert <u>OK</u> <u>7/3</u>        | Cook J. <u>OK</u> <u>7/10</u>                    | Breaux <u>OK</u> <u>7/3/95</u>      | Bishop <u>OK</u> <u>7/7</u>         | Armand <u>OK</u> <u>7/18</u>                       |
| Haney <u>OK</u> <u>7/5</u>          | Dugas <u>OK</u> <u>7/1</u>                       | Beieler <u>OK</u> <u>7/4/95</u>     | Bourg <u>OK</u> <u>7/1</u>          | Doucet <u>OK</u> <u>7/18</u>                       |
| Kelley <u>OK</u> <u>7/27</u>        | Day Oper.<br><input checked="" type="checkbox"/> | Bickham <u>OK</u> <u>7/5/95</u>     | Davis <u>OK</u> <u>7/10</u>         | Instruments<br><input checked="" type="checkbox"/> |
| Ledoux <u>OK</u> <u>7/27</u>        |                                                  | Cook F. <u>OK</u> <u>7-3-95</u>     | Ekey <u>OK</u> <u>7/10</u>          |                                                    |
| McMurray <u>OK</u> <u>7/27</u>      |                                                  | Cavalier <u>OK</u> <u>7-1-95</u>    | Harrison <u>OK</u> <u>7-1</u>       |                                                    |
| Michel <u>A.M.</u> <u>7/5</u>       | Donatto <u>OK</u> <u>7/5/95</u>                  | Grant <u>OK</u> <u>6-3-95</u>       | Jack <u>OK</u> <u>7-4</u>           | Neyland                                            |
| Rizzo                               | Grace <u>OK</u> <u>7/27</u>                      | Gravouilla <u>OK</u> <u>7-5</u>     | Looney <u>OK</u> <u>7-3</u>         | Shanklin                                           |
| Taylor <u>OK</u> <u>7/5</u>         | Johnson <u>OK</u> <u>7/2</u>                     | Jackson <u>OK</u> <u>7-10-95</u>    | Wolfe <u>DW</u> <u>7-3-95</u>       |                                                    |
| Witt <u>OK</u> <u>6/30/95</u>       | Simonson <u>OK</u> <u>7/4</u>                    | Millender <u>OK</u> <u>7/3</u>      |                                     |                                                    |
| Young <u>OK</u> <u>7/15/95</u>      | Vavasseur <u>OK</u> <u>7/15/95</u>               | Metrejean <u>OK</u> <u>7/3</u>      |                                     |                                                    |

DO A 031962  
CONFIDENTIAL

Control Room *Rocking*



**DOW**  
WEEK OF 06/12 - 06/18

**OSHA'S**

**NONE**

**DAYS SINCE LAST DAWC =**

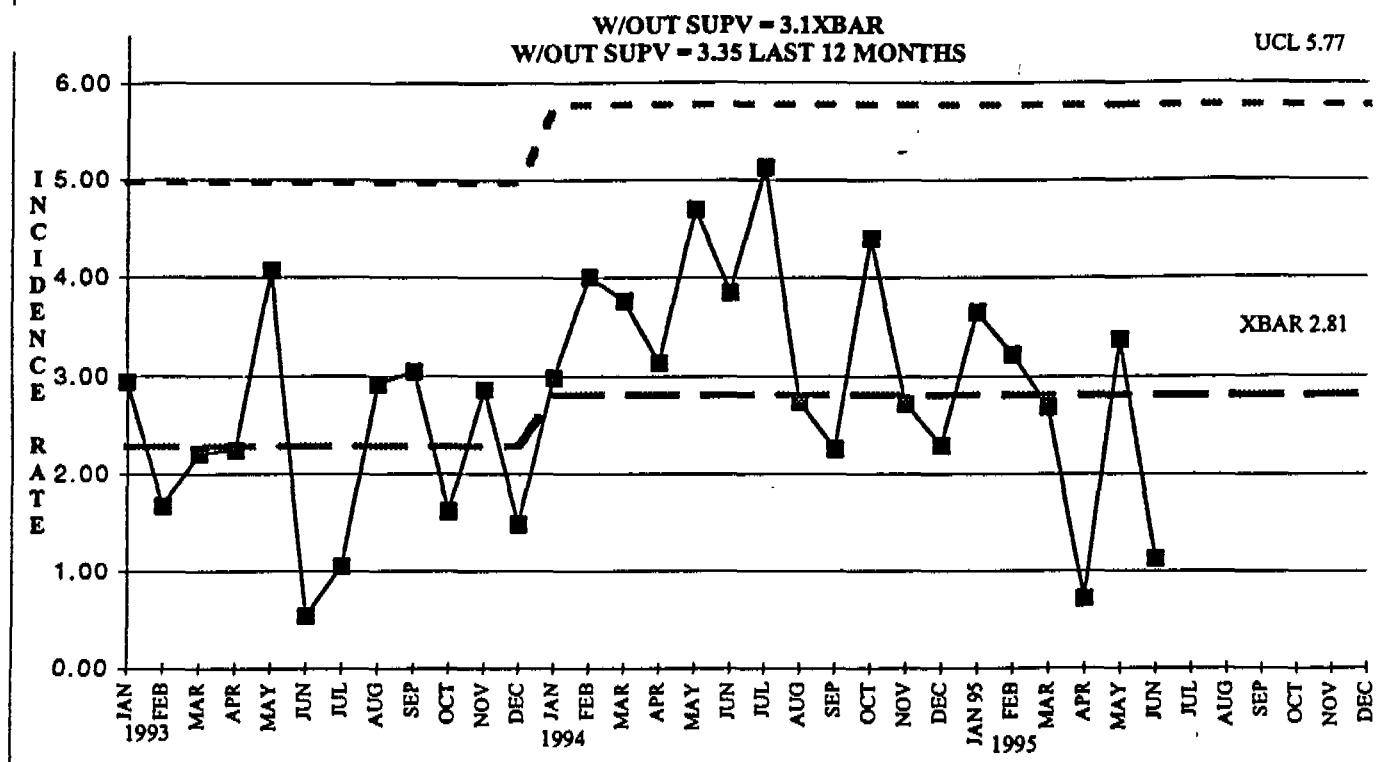
**233**

**MANHOURS SINCE LAST DAWC=**

**2,592,042**

DO A 031963  
CONFIDENTIAL

# CONTRACTOR OSHA INCIDENCE RATE



CONTRACTOR  
WEEK OF 06/12 - 06/18

OSHA'S

NONE

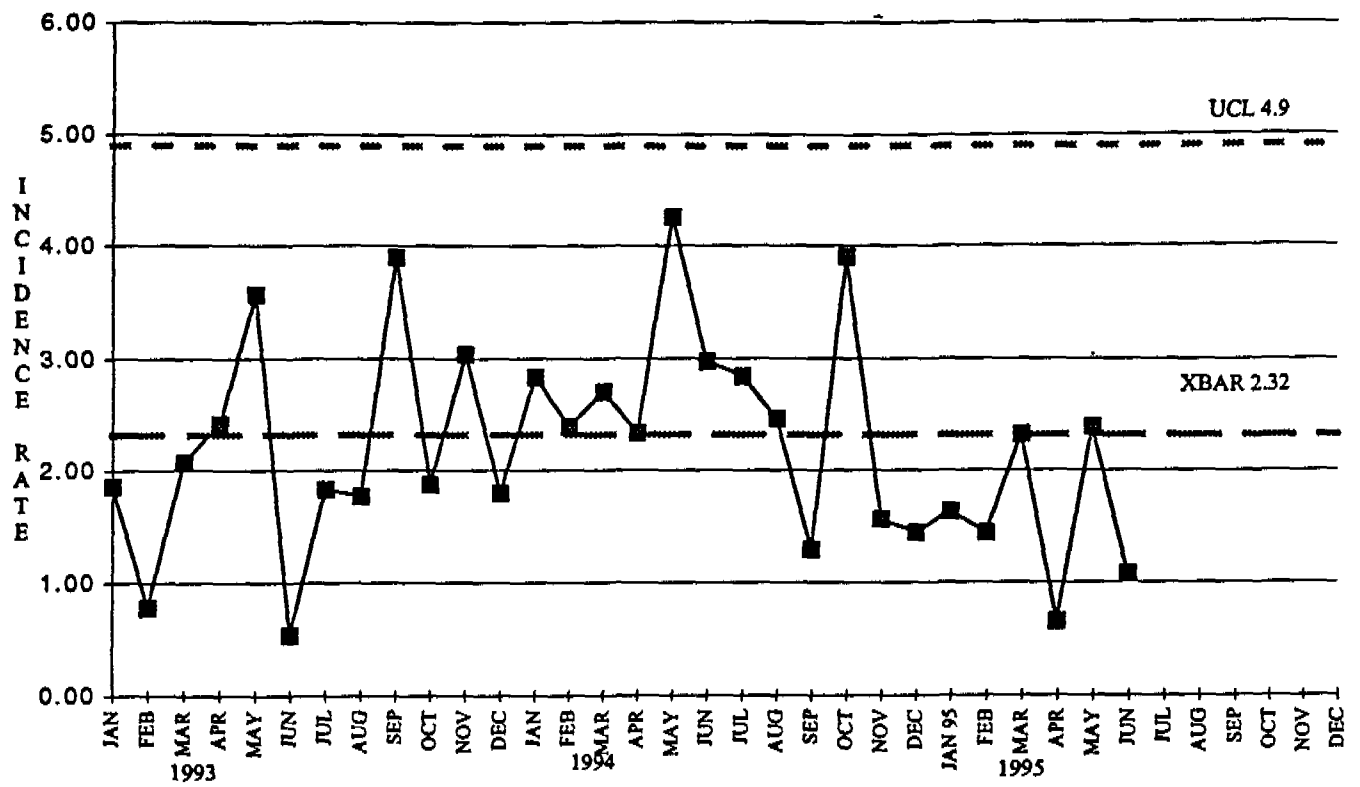
DAYS SINCE LAST DAWC=

18

MANHOURS SINCE LAST DAWC=

240,970

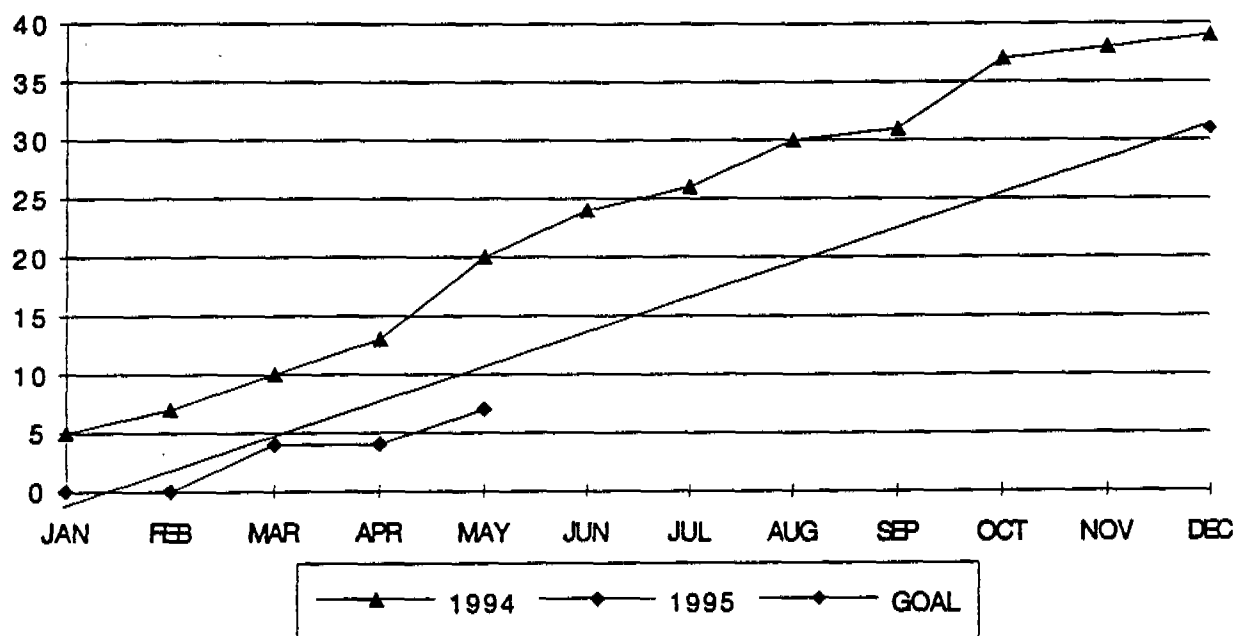
# SITE OSHA INCIDENCE RATE



6/19/95

DO A 031965  
CONFIDENTIAL

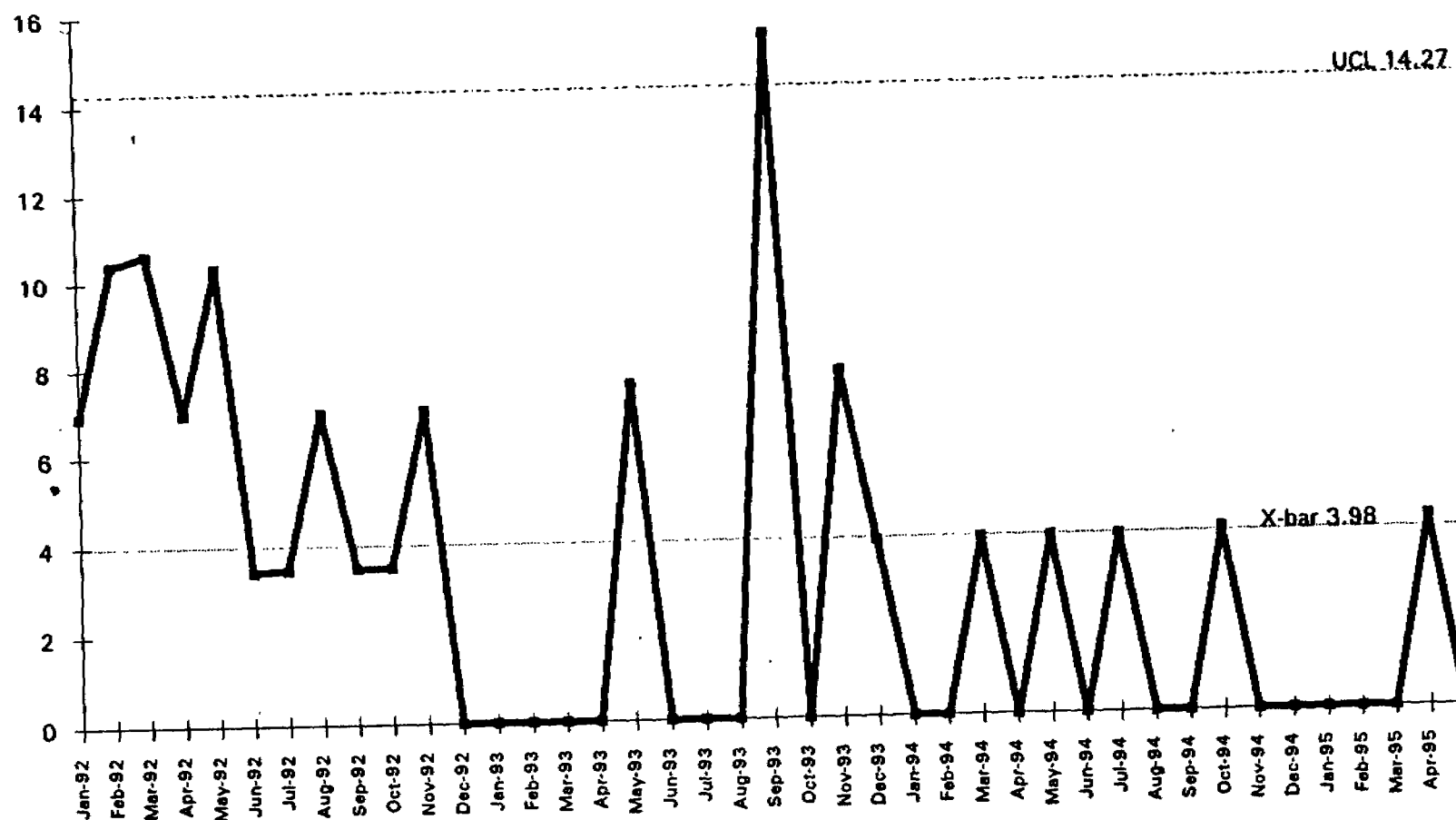
### DOW OSHA RECORDABLES (CUMULATIVE)



### 1995 OSHA RECORDABLES SEVEN

DO A 031967  
CONFIDENTIAL

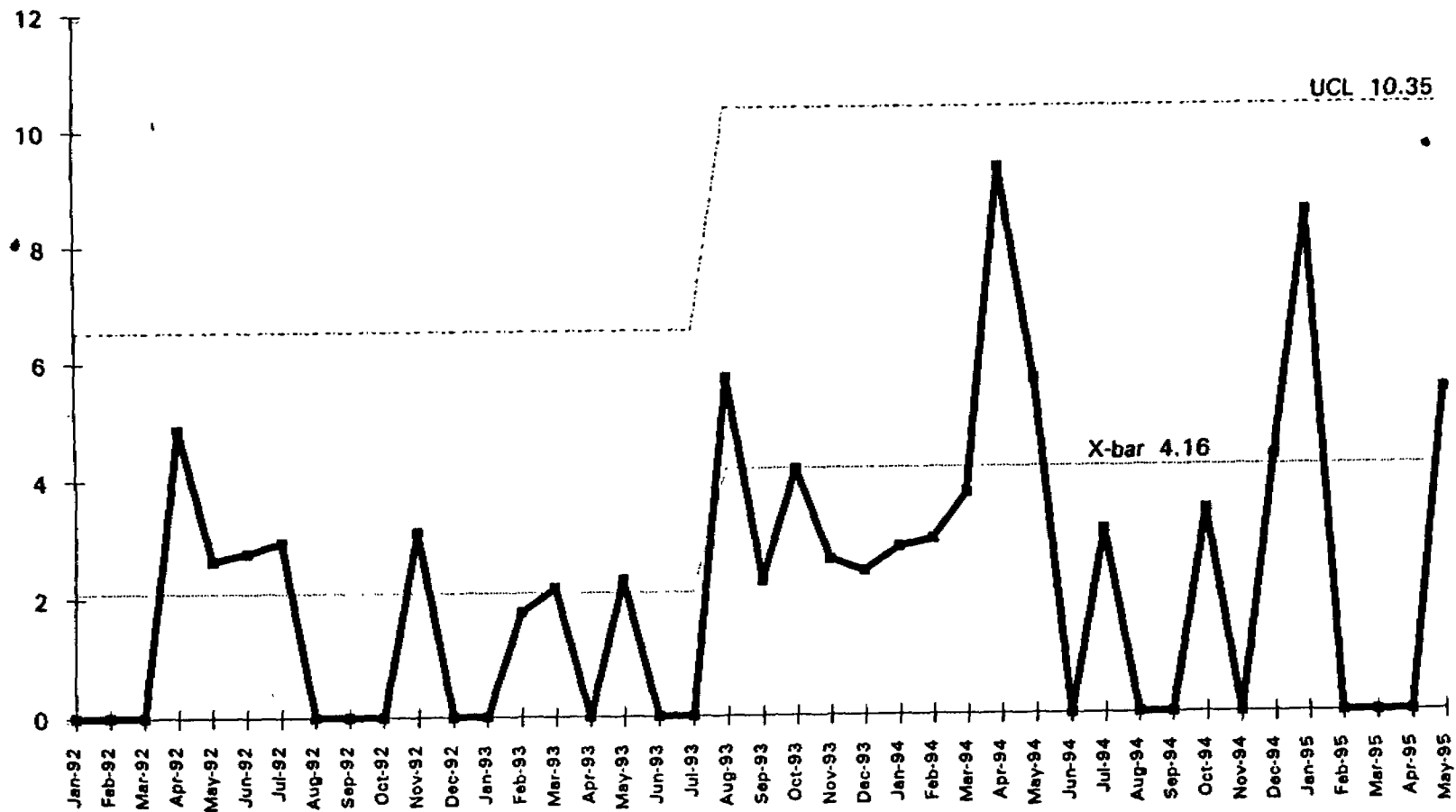
# LEIGH'S AREA DOW OSHA INCIDENT RATE



8/20/95

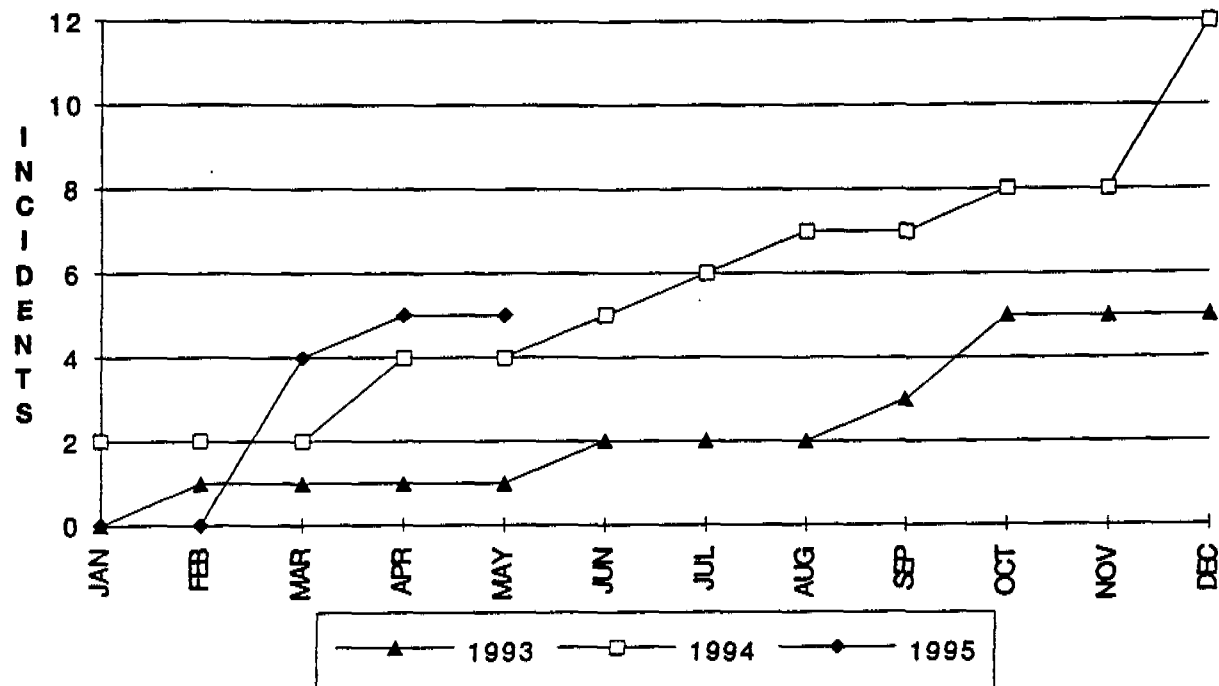
# LEIGH'S AREA CONTRACTOR OSHA INCIDENT RATE

DO A 031968  
CONFIDENTIAL



6/1/95

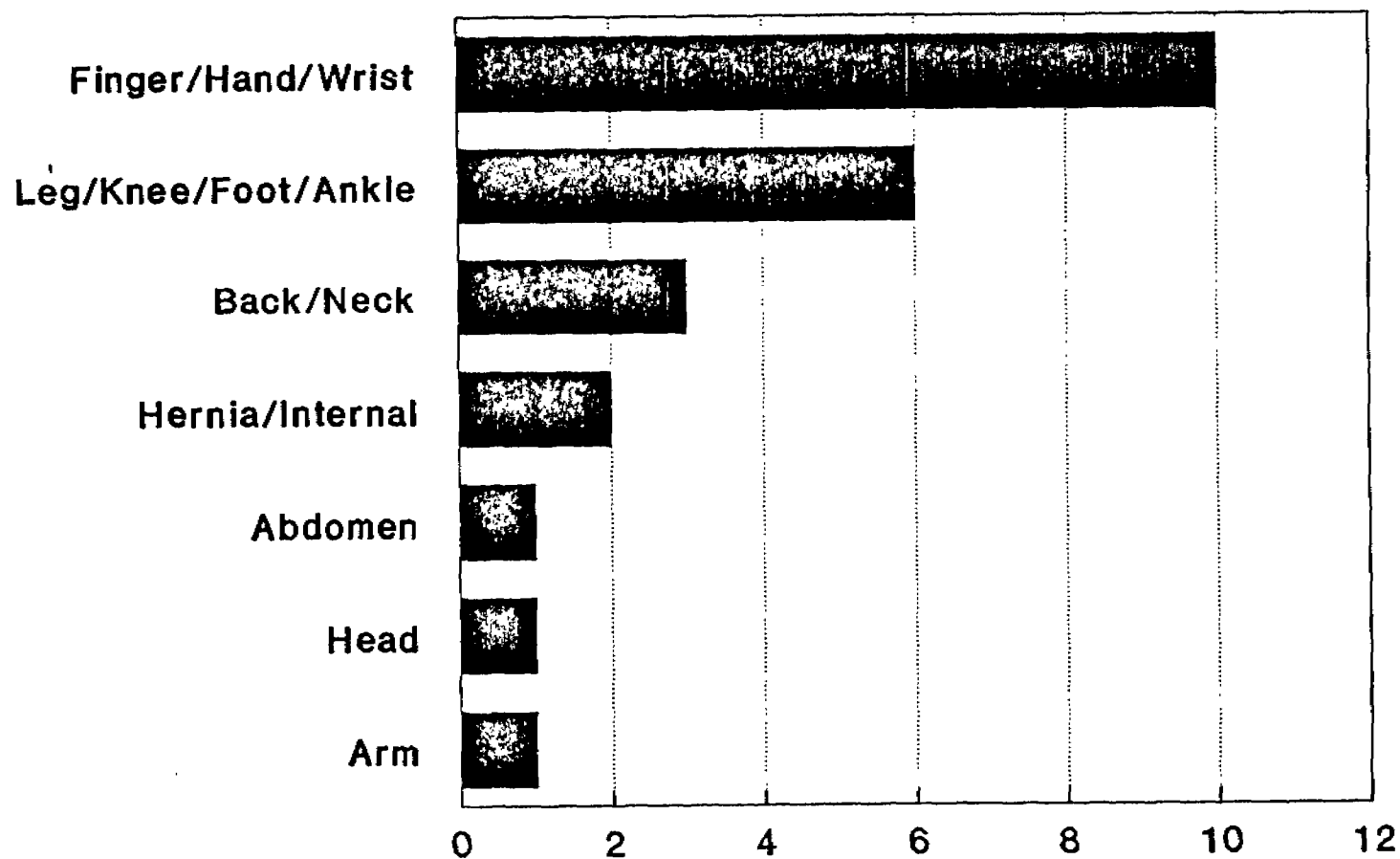
# LAD REACTIVE CHEMICALS INCIDENTS (CUMULATIVE)



1995 INCIDENTS  
MAY  
NONE

# 1995 Contractor Injuries by Body Part

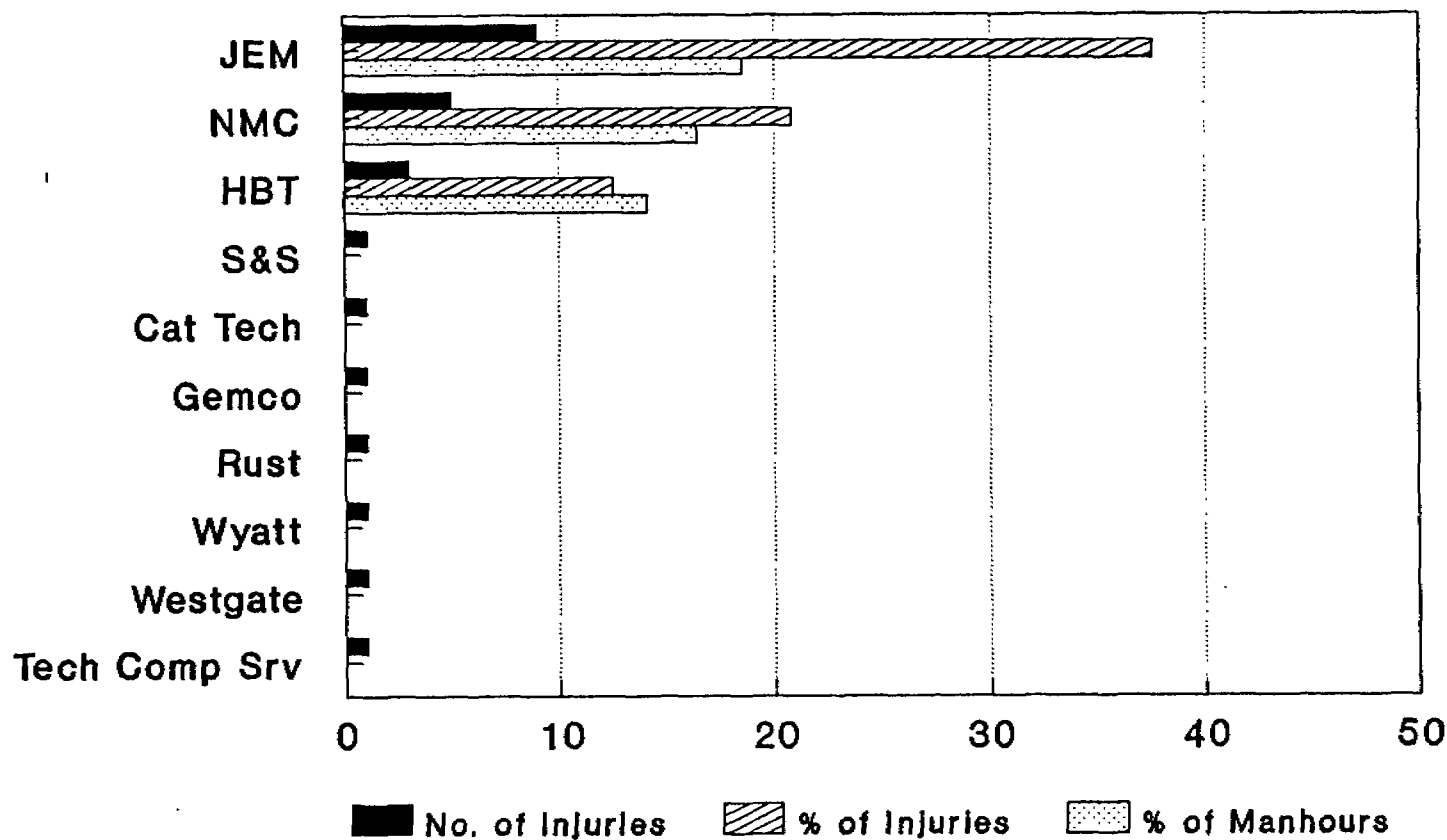
DO A 031970  
CONFIDENTIAL



plu 6/95

# 1995 Contractor Injuries by Contractor

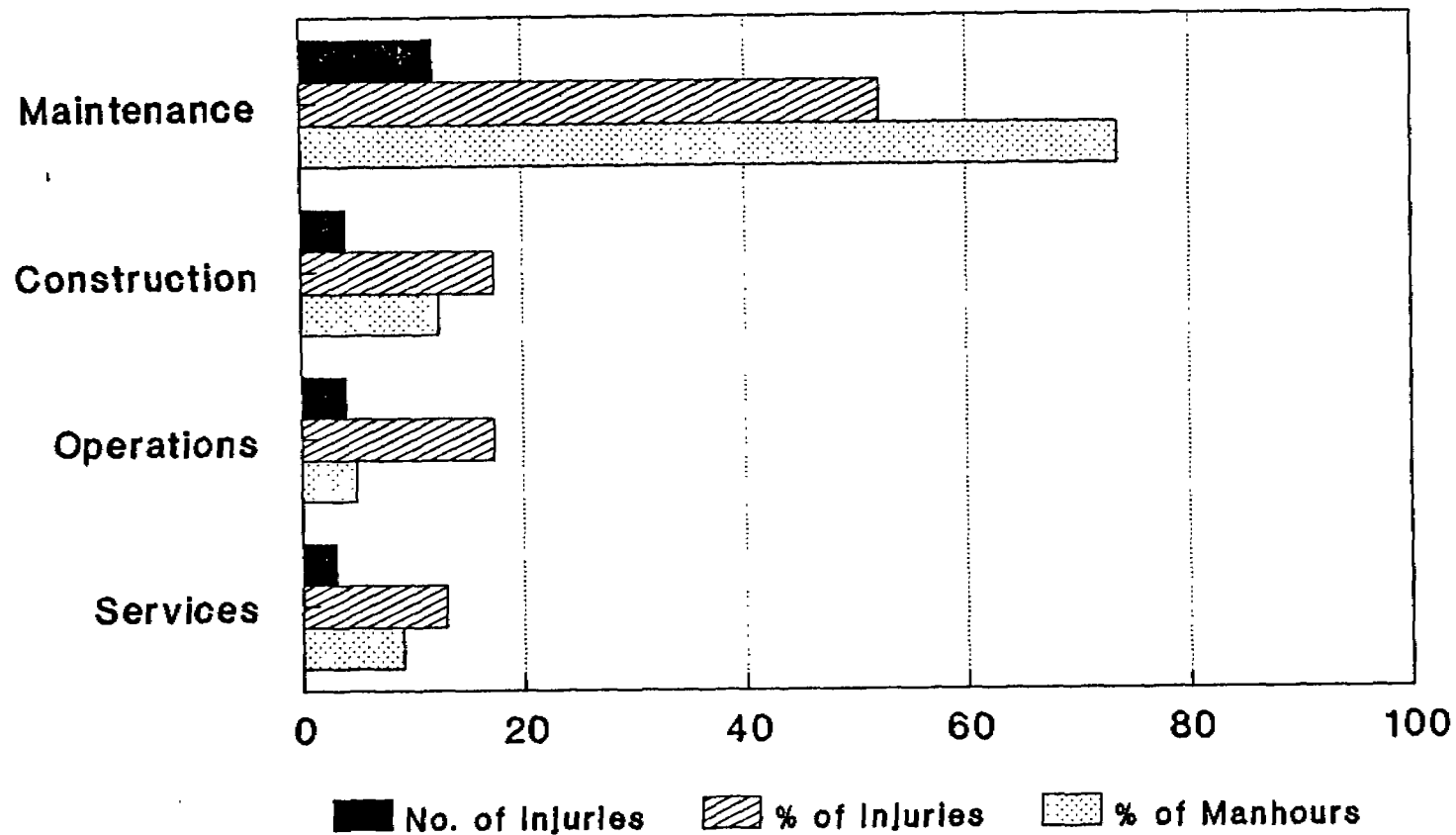
DO A 031971  
CONFIDENTIAL



plu 6/96

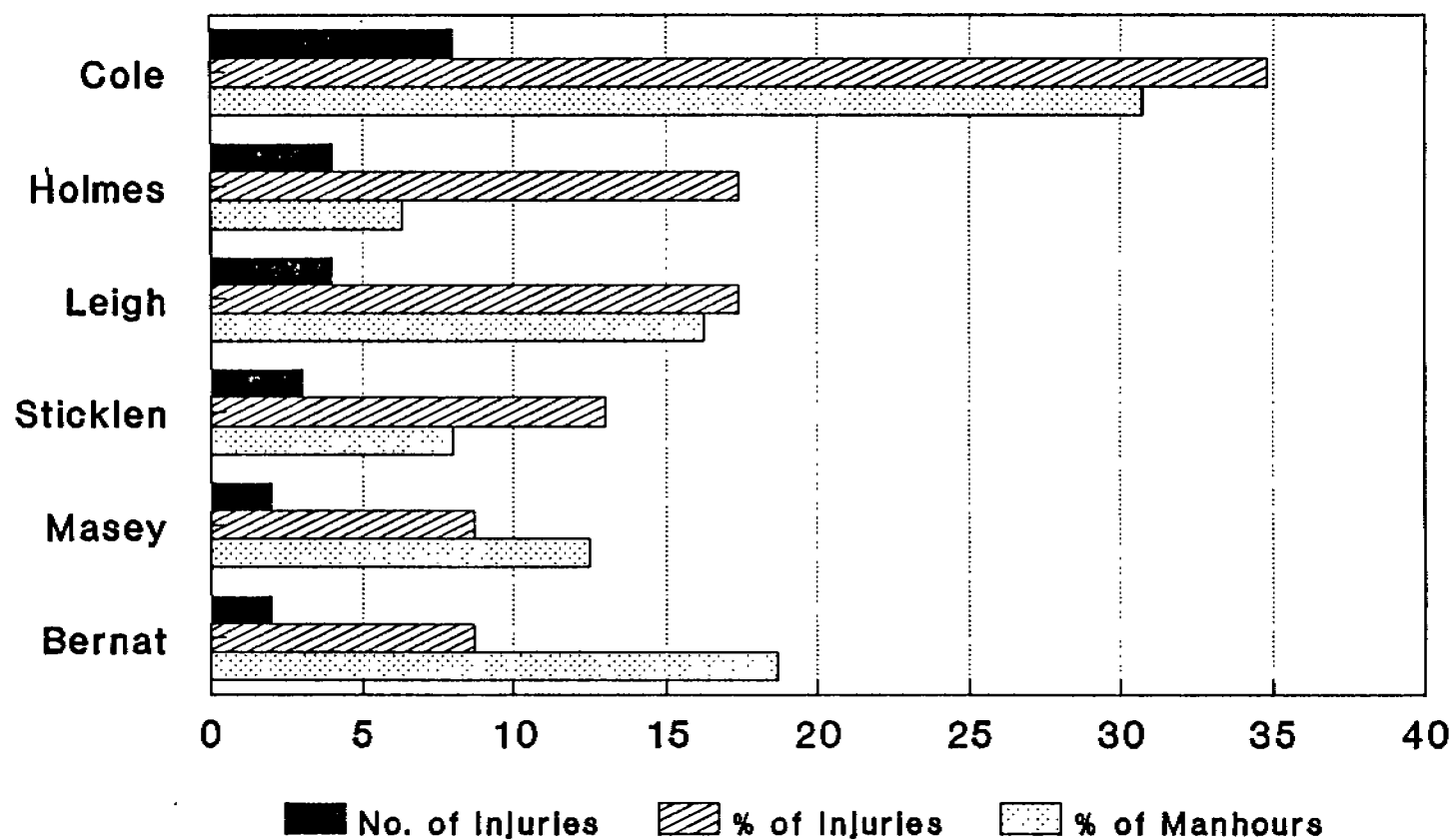
## 1995 Contractor Injuries by Job Function

DO A 031972  
CONFIDENTIAL



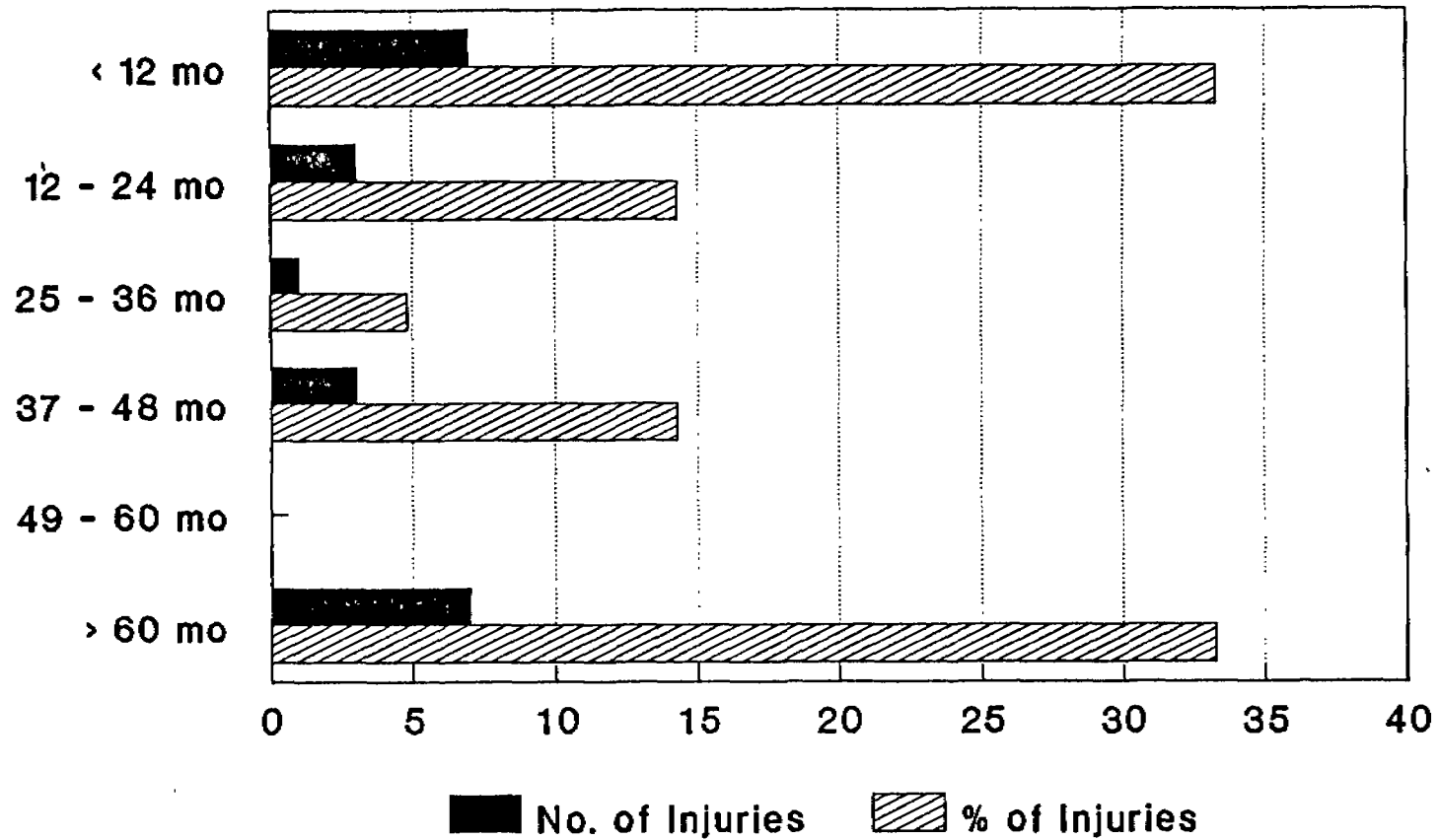
# 1995 Contractor Injuries by Manager Area Accountable

DO A 031973  
CONFIDENTIAL



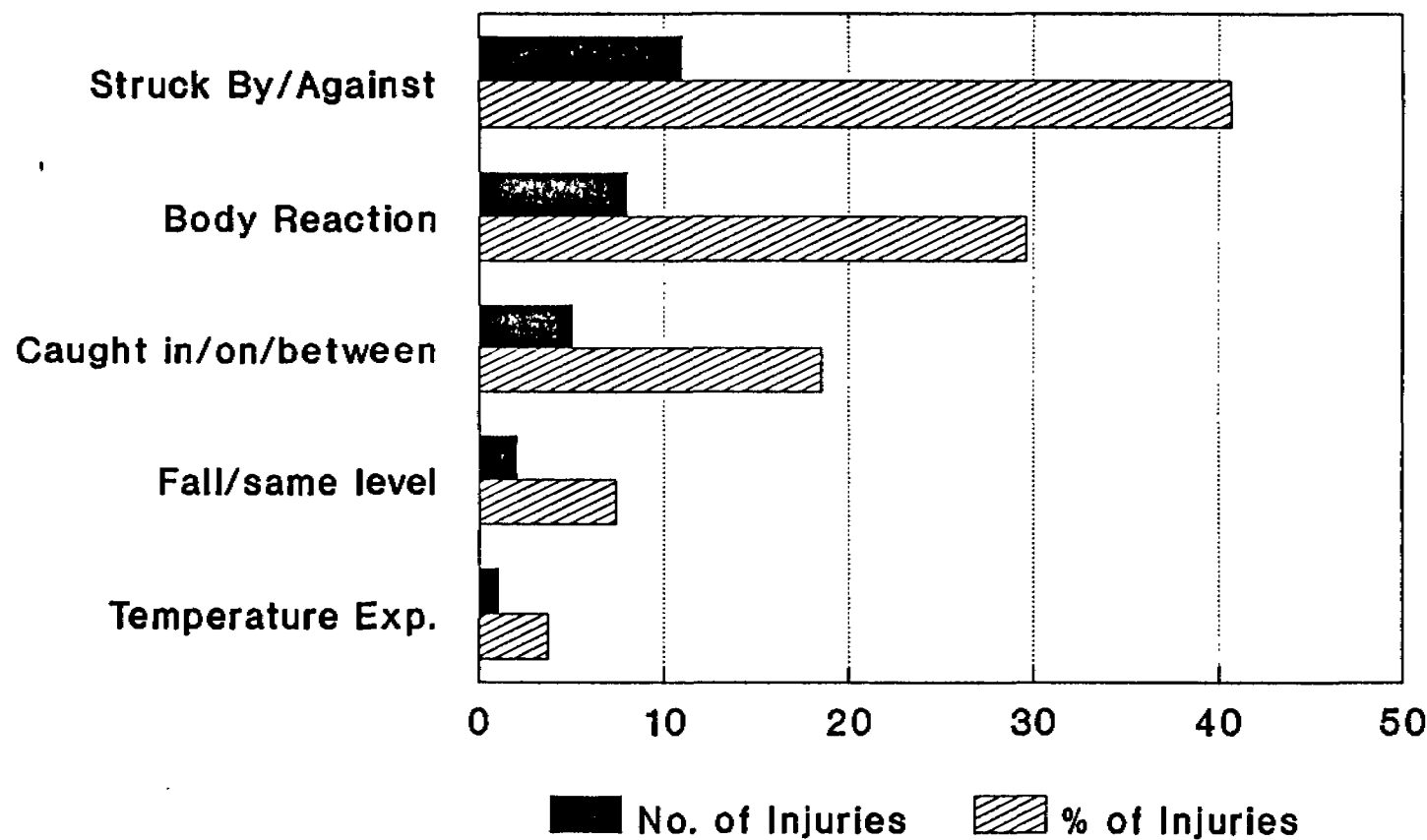
## 1995 Contractor Injuries by Time in Class

DO A 031974  
CONFIDENTIAL



# 1995 Contractor Injuries by Type of Contact

DO A 031975  
CONFIDENTIAL



# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: 6-23, 1995

FROM: Jim Haney

SUBJECT: Information from P-13200 Pre-Startup Audit

Includes revised Meds Pump Startup/Swap Procedures  
and new Seal Oil Pot Vent Procedure

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff                      | Supervisors                   | SOS's                              | OS's                            | Loaders     |
|--------------------------------|-------------------------------|------------------------------------|---------------------------------|-------------|
| Init. Date                     | Init. Date                    | Init. Date                         | Init. Date                      | Init. Date  |
| Clebert <u>OK</u> <u>6/23</u>  | Cook J. <u>OK</u> <u>6/24</u> | Breaux <u>OK</u> <u>6/23</u>       | Bishop <u>OK</u> <u>6/23</u>    | Armand      |
| Haney <u>OK</u> <u>6/23</u>    | Dugas <u>OK</u> <u>6/27</u>   | Beieler <u>OK</u> <u>6/29</u>      | Bourg <u>OK</u> <u>6/26</u>     | Doucet      |
| Kelley <u>OK</u> <u>6/27</u>   | Day Oper.                     | Bickham <u>OK</u> <u>6/26</u>      | Davis <u>OK</u> <u>7/16</u>     | Instruments |
| Ledoux <u>OK</u> <u>6/26</u>   | —                             | Cook F. <u>OK</u> <u>6/23/95</u>   | Ekey <u>OK</u> <u>6/24</u>      | —           |
| McMurray <u>OK</u> <u>6/26</u> | Donatto                       | Cavalier <u>OK</u> <u>6/23/95</u>  | Harrison <u>OK</u> <u>6/24</u>  | Neyland     |
| Michel <u>OK</u> <u>6/26</u>   | Grace <u>OK</u> <u>6/27</u>   | Grant <u>OK</u> <u>6-23-95</u>     | Jack <u>OK</u> <u>6-28</u>      | Shanklin    |
| Rizzo                          | Johnson                       | Gravouilla <u>OK</u> <u>7-5</u>    | Looney <u>OK</u> <u>6-24-95</u> |             |
| Taylor <u>OK</u> <u>6/26</u>   | Simonson                      | Jackson <u>OK</u> <u>6-25</u>      | Wolfe <u>OK</u> <u>6-23-95</u>  |             |
| Witt                           | Vavasseur                     | Millender <u>OK</u> <u>6/23/95</u> |                                 |             |
| Young <u>OK</u> <u>6/27</u>    |                               | Metrejean <u>OK</u> <u>6/29</u>    |                                 |             |

DO A 031976  
CONFIDENTIAL

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ns to the  
reviewed.

## Attachment 1

### Topics for Possible Review at Pre-Startup Audit

(Brother's Keeper Pre-Startup Audit form acceptable for R&D Projects)

| Item                                       | Yes | N/A | Expect By | Assigned To |
|--------------------------------------------|-----|-----|-----------|-------------|
| Procedures are complete for:               |     |     |           |             |
| startup                                    | ✓   |     |           |             |
| shutdown                                   | ✓   |     |           |             |
| normal operations                          | ✓   |     |           |             |
| emergency operations                       | ✓   |     |           |             |
| line/equipment openings                    | ✓   |     |           |             |
| confined space entry                       |     | ✓   |           |             |
| lockout / tagout                           | ✓   |     |           |             |
| sampling                                   |     | ✓   |           |             |
| filter changes                             |     | ✓   |           |             |
| spill containment                          |     | ✓   |           |             |
| loading / unloading                        |     | ✓   |           |             |
| decontamination                            |     | ✓   |           |             |
| other emergency (freeze, power loss, etc.) |     | ✓   |           |             |
| Other (specify)                            |     | ✓   |           |             |
| Consequences of deviation defined          | ✓   |     |           |             |
| Training Modules/Tests Complete            |     | ✓   |           |             |
| Training Conducted or Scheduled            |     |     | 6/26/95   | Jim Haney   |
| Pressure Testing Plan in Place or Done     | ✓   |     |           |             |
| Dry Run/Simulation Conducted               |     | ✓   |           |             |
| Critical Instruments Frequency ID'ed       |     | ✓   |           |             |
| Fail Safe Positions/Interlocks Verified    |     | ✓   |           |             |
| Instruments Calibrated                     |     | ✓   |           |             |

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/etc.)

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e Plant  
approval

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ted with

d, either  
menting

orrected  
n for

| Item                                                             | Yes | N/A | Expect By | Assigned To |
|------------------------------------------------------------------|-----|-----|-----------|-------------|
| Instruments Loop Checked                                         | ✓   |     |           |             |
| Plant IH Manual Updated                                          |     | ✓   |           |             |
| new MSDS's                                                       |     | ✓   |           |             |
| Area Maps                                                        |     | ✓   |           |             |
| PPE listing                                                      |     | ✓   |           |             |
| Hazcom Program                                                   |     | ✓   |           |             |
| CPAI                                                             |     | ✓   |           |             |
| Other (specify)                                                  |     | ✓   |           |             |
| Monitoring Plans in place for during<br>and after startup        | ✓   |     |           |             |
| Mechanical Integrity Programs updated:                           |     |     |           |             |
| Pressure Vessel                                                  |     | ✓   |           |             |
| Relief Device                                                    |     | ✓   |           |             |
| Piping Inspection                                                |     | ✓   |           |             |
| Vibration                                                        |     | ✓   |           |             |
| Lubrication                                                      |     | ✓   |           |             |
| PM Program updated                                               |     |     |           |             |
| List of Glass Devices Updated                                    |     | ✓   |           |             |
| Pump Rotation checked                                            | ✓   |     |           |             |
| Necessary Spare Parts Obtained                                   | ✓   |     |           |             |
| Equipment Inspected for Compliance<br>with Design Specifications | ✓   |     |           |             |

Assigned To

## Attachment 2

### Items to Observe for During Walk Through

#### Personal Safety

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Safety Showers/Eye Washes<br>(number and access) | Exposure to Temperature Extremes          |
| Lighting                                         | Intercoms                                 |
| Ventilation                                      | Fire Extinguishers<br>(number and access) |
| Hazard Signs (Noise, CSE, PPE, etc.)             | Sprinkler System                          |
| Exit/Egress Routes                               |                                           |

#### Walking/Working Surfaces

|                                |                                                                     |
|--------------------------------|---------------------------------------------------------------------|
| Level/Non-slippery             | Drainage                                                            |
| Clearances in Walkways/Aisles  | Fall Protection Equipment                                           |
| Tripping Hazards               | Ladders                                                             |
| Guardrails/Barriers            | (gates/obstructions on climbing<br>side/overhead obstructions/etc.) |
| Stairways (non-slip, well lit) |                                                                     |

#### Valves & Piping

|                            |                                                                |
|----------------------------|----------------------------------------------------------------|
| Support/Hangers/Shoes      | Drain/Vents to Safe Location                                   |
| Markings/Labels            | Insulation                                                     |
| Sample Points              | Valve Location & Orientation<br>(access to operate & maintain) |
| Plugs on Open Ended Valves |                                                                |
| Joints Aligned             |                                                                |

#### Vessels & Tanks

|                                 |                     |
|---------------------------------|---------------------|
| Markings/Labels                 | Direction of Relief |
| Accessibility to Relief Devices |                     |

#### Mechanical / Rotating Equipment

|                                    |                             |
|------------------------------------|-----------------------------|
| Guards in Place                    | Seal Flushes                |
| Accessibility (operate & maintain) | Start/Stop Stations Labeled |

#### Electrical

|           |                                     |
|-----------|-------------------------------------|
| Grounding | Labeling (switches, starters, JB's) |
| MCC's     |                                     |

#### Miscellaneous

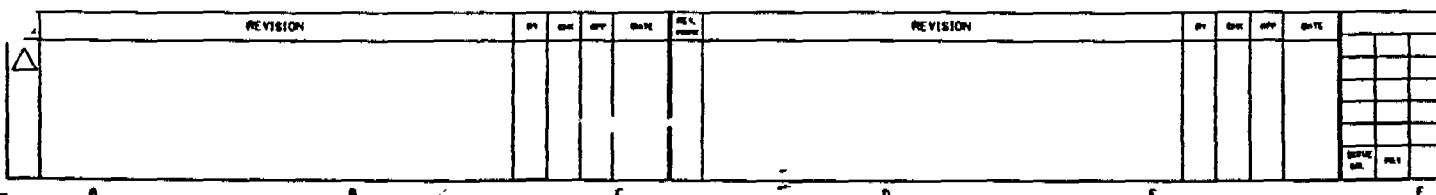
|                                                     |                                |
|-----------------------------------------------------|--------------------------------|
| Hoses                                               | Flammable Storage              |
| Utility Stations<br>(labeling, access, connections) | Compressed Gas Cylinders       |
| Radiation Devices                                   | Glass Devices                  |
|                                                     | Control Room Instrument Layout |

## Appendix A

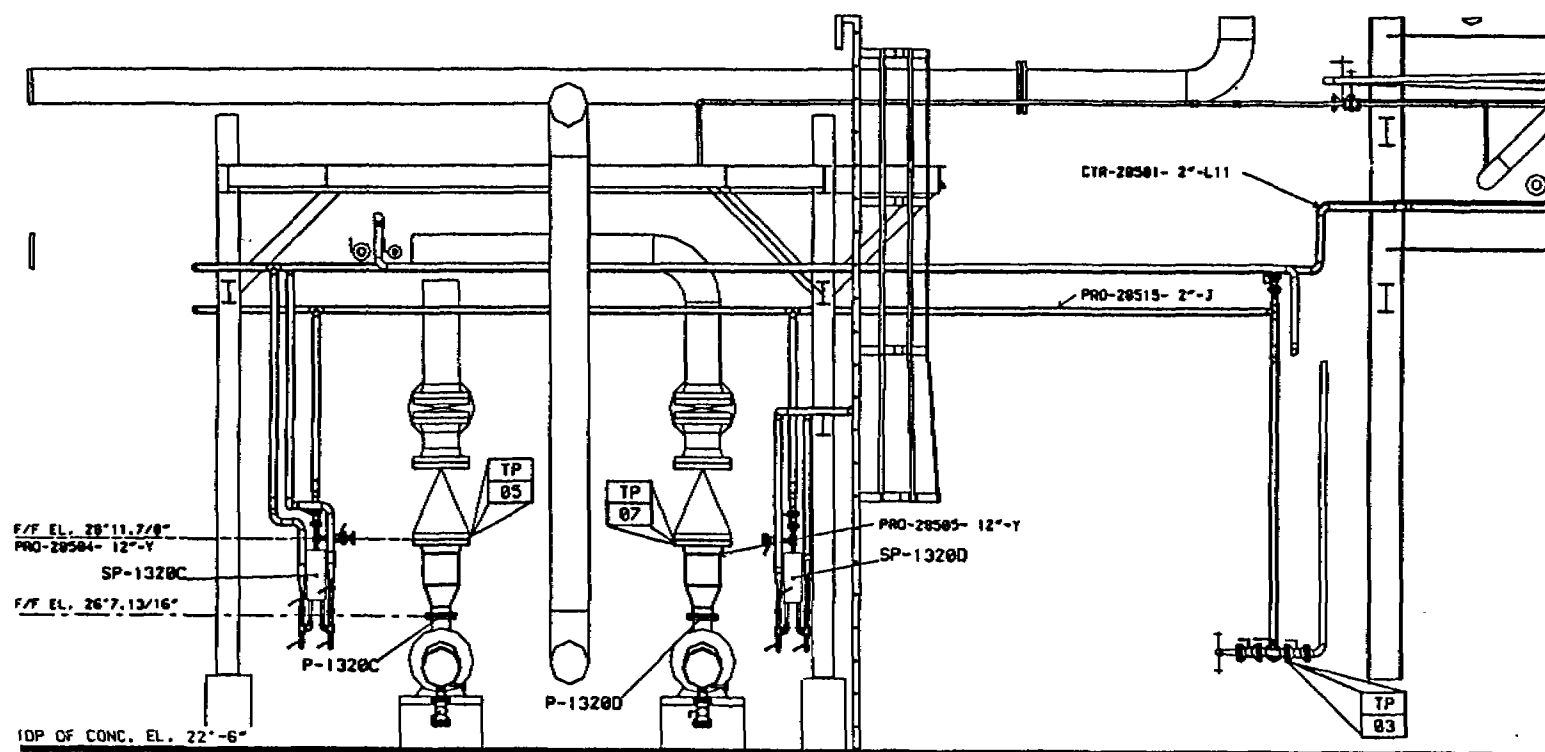
### Pre-Startup Audit Action List

|              |              |              |  |
|--------------|--------------|--------------|--|
| Observation: |              |              |  |
| Action Item: |              |              |  |
| Responsible: | Expected By: | Actual Date: |  |
| Observation: |              |              |  |
| Action Item: |              |              |  |
| Responsible: | Expected By: | Actual Date: |  |
| Observation: |              |              |  |
| Action Item: |              |              |  |
| Responsible: | Expected By: | Actual Date: |  |
| Observation: |              |              |  |
| Action Item: |              |              |  |
| Responsible: | Expected By: | Actual Date: |  |
| Observation: |              |              |  |
| Action Item: |              |              |  |
| Responsible: | Expected By: | Actual Date: |  |
| Observation: |              |              |  |
| Action Item: |              |              |  |
| Responsible: | Expected By: | Actual Date: |  |
| Observation: |              |              |  |
| Action Item: |              |              |  |
| Responsible: | Expected By: | Actual Date: |  |
| Observation: |              |              |  |
| Action Item: |              |              |  |
| Responsible: | Expected By: | Actual Date: |  |

DO A 031981  
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DO A 031983  
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SECTION "A-A"

LOOKING NORTH  
84-958113-10-1136-001

| REV. | REV. DATE | REVISION | BY | CHK | APP | DATE | DRAWING ISSUE RECORD | DESIGNED<br>A. JACKSON X8121 | CHECKED<br>03/95 | PLANT NO. | THE DOW CHEMICAL |
|------|-----------|----------|----|-----|-----|------|----------------------|------------------------------|------------------|-----------|------------------|
|      |           |          |    |     |     |      |                      |                              |                  |           |                  |

94-662746-04 Cont'd - 4/28/95

**CMP PROCEDURE**  
**VENTING PUMP SEAL OIL POTS TO THE DRY VENT HEADER**  
**PROCEDURE #**

---

**PURPOSE** To provide the operator with the necessary information to properly vent a seal oil pot for a tandem sealed pump to the dry vent header.

---

**SCOPE** This procedure covers all steps to safely vent a seal oil pot to the dry vent header.

---

**RELATED PROCEDURES** STARTING AND SWAPPING MODV OPERATED PUMPS - #460206

---

**DEFINITIONS** Seal Oil Pot - drum that stores the seal oil which circulates through the seal for any tandem sealed pump.

---

**SAFETY CONCERNS & EQUIPMENT** Always wear monogoggles and chemical resistant gloves when draining oil from a seal oil pot. If the primary seal is leaking, then the oil will more than likely have process material in it.

---

**ENVIRONMENTAL CONCERNS** All oil that is drained from a seal oil pot must be discarded in the waste oil drum in the oil storage area.

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VENTING PUMP SEAL OIL POTS TO THE DRY VENT HEADER

**SPECIAL CONCERNS**

When venting seal oil pots which have internal cooling coils, extreme caution must be taken to ensure that water hasn't leaked into the seal oil pot due to a coil failure. Venting a seal oil pot that has water in it will cause significant corrosion to the dry vent header and will ultimately lead to pipe failures.

**VENTING PUMP SEAL OIL POTS TO THE DRY VENT HEADER****PROCEDURE    SEAL OIL POTS WITHOUT COOLING COILS**

| Step | Action                                                                                                                                                                                                                       |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Inspect pressure gauge on seal oil pot and make sure it is working properly. Replace if necessary.                                                                                                                           |
| 2    | If pressure is greater than 10 psig, then proceed. If pressure is less than 10 psig, <del>then</del> it is not necessary to vent the seal pot.                                                                               |
| 3    | Open vent valve to the dry vent header. Monitor seal pot pressure. It should drop to approximately the same pressure that the dry vent header is running.                                                                    |
| 4    | Allow pot to vent for approximately 5 minutes, then close the vent valve.                                                                                                                                                    |
| 5    | Monitor seal pot pressure periodically. If it increases slowly over time, then the primary seal is OK. If it increases rapidly, then the primary seal has failed and the pump will have to be shutdown for seal replacement. |

**VENTING PUMP SEAL OIL POTS TO THE DRY VENT HEADER****PROCEDURE SEAL OIL POTS WITH COOLING COILS**

Note: This procedure applies to the following pumps only:

P-1320 C/D

P-1541 C/D

| Step | Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Inspect pressure gauge on seal oil pot and make sure it is working properly. Replace if necessary.                                                                                                                                                                                                                                                                                                                                                                                    |
| 2    | If pressure is greater than 10 psig, then proceed. If pressure is less than 10 psig, then it is not necessary to vent the seal pot.                                                                                                                                                                                                                                                                                                                                                   |
| 3    | Verify that there is no cooling coil water leaks to the seal oil pot by inspecting the following:<br><br>A. Check seal oil level by inspecting the sight glass. If level is unusually high or at the top of the sight glass, then water or process liquid may have filled the seal oil pot.<br><br>B. Sample the oil in the seal oil pot and check for water. If two distinct liquid layers are present, then the oil is contaminated with water (water layer will be on the bottom). |
| 4    | If water is present in the seal oil pot, then swap pumps and tag out the pump with the contaminated seal oil pot so that the pot can be repaired. Do not open the vent valve to the Dry Vent Header.                                                                                                                                                                                                                                                                                  |
| 5    | If water is not present, then break seal on valve to the dry vent header and open fully. Monitor seal pot pressure. It should drop to approximately the same pressure that the dry vent header is running.                                                                                                                                                                                                                                                                            |
| 6    | Allow pot to vent for approximately 5 minutes, then close the vent valve. Install new seal on vent valve.                                                                                                                                                                                                                                                                                                                                                                             |

VENTING PUMP SEAL OIL POTS TO THE DRY VENT HEADER

|   |                                                                                                                                                                                                                              |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5 | Monitor seal pot pressure periodically. If it increases slowly over time, then the primary seal is OK. If it increases rapidly, then the primary seal has failed and the pump will have to be shutdown for seal replacement. |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**CMP PROCEDURE  
STARTING AND SWAPPING MOD V OPERATED PUMPS  
PROCEDURE # 460206**

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PURPOSE</b>                         | To provide the operator with the necessary information needed to properly start, swap and restart a MOD V operated pump.                                                                                                                                                                                                                                                                                                                   |
| <b>SCOPE</b>                           | This procedure covers the steps necessary to safely start up mag drive pumps at CMP.                                                                                                                                                                                                                                                                                                                                                       |
| <b>RELATED PROCEDURES</b>              | All start up procedures                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>DEFINITIONS</b>                     | <p>Mag Drive- A pump that is magnetically coupled such that there is no need for a mechanical rotating seal for separating the dry and wet ends.</p> <p>Arc Valve- Automatic recirculation valve. Designed to maintain a minimum flow (based on its design). When the discharge end is blocked, a bypass line opens and allows a bypass flow. As the forward flow increases, the bypass closes. <b>NEVER BLOCK IN AN ARC VALVE!!!!</b></p> |
| <b>SAFETY CONCERNS &amp; EQUIPMENT</b> | <p>Not filling the pump bowl with liquid prior to starting <b>WILL</b> damage the pump when energized.</p> <p>Minimum block standards for swapping. Scott -o- vista and rubber gloves to drain pumps.</p> <p><b>Never rotate a pump by hand unless the main switchgear is racked out</b></p>                                                                                                                                               |
| <b>ENVIRONMENTAL CONCERNS</b>          | A chemical release due to a malfunctioning seal                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>SPECIAL CONCERNS</b>                | <p>Monitor discharge pressure to ensure the pump is stable.</p> <p>The process pressure of the suction side of the pump must be equal to normal pressure during operation. Without that pressure, the pump will cavitate, vapor lock, and wreck.</p>                                                                                                                                                                                       |

**STARTING AND SWAPPING MOD V OPERATED PUMPS****PROCEDURE**

**NOTE:** If this pump is a mag drive pump, monitor amp and pressure. If amps and pressure are swinging, the pump may be cavitating. To prevent damage to the pump, swap pumps and shut down. If the amps are low and the pressure high, the pump may be dead headed.

**I. Lining up a MOD V operated pump**

| Step | Action                                                                                                                                                                                                                                                                                                                        |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Clear any red tag masters. Close and blind any bleed valves on the pump. Ensure a working pressure gauge is installed on the discharge.                                                                                                                                                                                       |
| 2    | Line up the suction, discharge, arc valve, and recirculation. (check for leaks)                                                                                                                                                                                                                                               |
| 3    | <i>For Tandem Sealed Pumps Only - Line up cooling water (if applicable) and recirculation lines for the oil seal pot. Bleed down any pressure on the seal pot to the dry vent header, then close vent valve. For P-1320 C/D and P-1541 C/D, install seals on the vent valves to ensure they are not inadvertently opened.</i> |
| 4    | Check oil mist system to ensure the bearings are being lubricated.                                                                                                                                                                                                                                                            |
| 5    | Check low point on the pump casing to ensure an oil level hasn't collected.                                                                                                                                                                                                                                                   |
| 6    | With the switch gear still racked out rotate the pump shaft by hand, ensuring that the pump rotates freely and there are know indications of rubbing, knocking or pinging coming from within the pump                                                                                                                         |
| 7    | With the field switch in the OFF position, energize the switch gear.                                                                                                                                                                                                                                                          |
| 8    | Cool down cold service pumps to prepare them for starting (P-1450's, P-1250's)                                                                                                                                                                                                                                                |
| 9    | Contact the board man to ensure adequate level is in the vessel. If there is no level, leave the pump in the off position.                                                                                                                                                                                                    |
| 10   | Bump the starter (on then back to off). This will fill the bowl up with liquid and help eliminate damage to the pumps (MAG DRIVE'S). Watch the motor shaft and ensure the pump comes to a very gradual stop. If it doesn't there is something wrong and the pump will wreck quickly.                                          |

## STARTING AND SWAPPING MOD V OPERATED PUMPS

- 11** If both pumps are available for operation place the (A) pump field switch in the "AUTO" position first, then the (B) pump field switch. (When the switches has been placed in the auto position it will indicate to the MOD and the BOARD OPERATOR that everything is O.K.)

The MOD will start up the following pumps automatically, when the right conditions exist and the field switches are in "AUTO".

|           |                                                                                                                                                                                                                                                                                     |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | <p>A. P-1250 A/B      F. P-1511 A/B      K. P-1540 A/B</p> <p>B. P-1260 A/B      G. P-1520 A/B      L. P-1541 C/D</p> <p>C. P-1320 C/D      H. P-1521 A/B      M. P-1550 A/B</p> <p>D. P-1450 C/D      I. P-1525 A/B      N. P-1710 A/B</p> <p>E. P-1500 A/B      J. P-1530 A/B</p> |
| <b>12</b> | <p>The following pumps will have to be started by the board operator initiating a (DK) function.</p> <p>A. P-1750 = DK(150)      B. P-1760 = DK(100)</p> <p>C. P-1770 = DK(102)      D. P-1813 = DK(120)</p>                                                                        |
|           |                                                                                                                                                                                                                                                                                     |

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**STARTING AND SWAPPING MOD V OPERATED PUMPS****Note****II. SWAPPING MOD V OPERATED PUMPS AND PREPARING PUMP FOR MAINTENANCE.**

In the event the pump that is presently on-line needs to be swapped, it will be necessary for the board operator to initiate a (DM) function to energize the off-line pump. The off-line pump must have the field switch in the "AUTO" position and already be lined up in the field. (NOTE: THEIR ARE A FEW PUMPS WHICH WILL HAVE TO BE PLACED IN MANUAL TO SWAP, USUALLY ON THE TANKS) The following is a list of the pumps that will AUTO START when their (DM) values are set:

|                         |                         |
|-------------------------|-------------------------|
| A. P-1250 A/B = DM(210) | B. P-1260 A/B = DM(214) |
| C. P-1320 C/D = DM(136) | D. P-1450 C/D = DM(134) |
| E. P-1500 A/B = DM(100) | F. P-1511 A/B = DM(107) |
| G. P-1520 A/B = DM(130) | H. P-1521 A/B = DM(133) |
| I. P-1525 A/B = DM(131) | J. P-1530 A/B = DM(135) |
| K. P-1540 A/B = DM(150) | L. P-1541 C/D = DM(153) |
| M. P-1550 A/B = DM(155) | N. P-1710 A/B = DM(216) |

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**STARTING AND SWAPPING MOD V OPERATED PUMPS****PROCEDURE**

| Step | Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Ensure the pump is properly lined up. Energize the pump by initiating the proper (DM) function                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2    | <p><i>If the board operator feels he has good control and the outside operator feels the discharge pressure is adequate, then shut down the other pump in the field by placing the field switch in the "OFF" position. This should be done within 10 seconds if at all possible to keep from running a pump back on its curve (Mag drive pumps only).</i></p> <p>NOTE: If you are making a weekly or monthly pump swap, then set the pump up in the back up mode.</p> <p>If the pump is in need of repair move to item # 3</p> |
| 3    | Block in the suction, discharge and recirculation valves.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 4    | <p>Bleed down using both bleed valves (suction and discharge bleed valves after the ARC valve). BE SURE TO ROD OUT THE BLEED VALVES TO MAKE SURE THEY ARE NOT PLUGGED.</p> <p>If the CONTENTS are CHLORINATED HYDROCARBONS, you need to depressure the pump to the throx unit through the collection header. (Do Not Depressure D-1525 Or C-1540 Reflux Pumps To The Collection Header Because Of Chlorine Content</p>                                                                                                         |
| 5    | Tag out the pump and check the field switch. (THE FIELD SWITCH WILL BE CHECKED BY THE OPERATOR WHO WILL ISSUE THE SAFE WORK PERMIT AND THE MAINTENANCE PERSONNEL WHO WILL BE WORKING ON THE PUMP                                                                                                                                                                                                                                                                                                                               |
| 6    | Once the pump has been repaired, pressure it up and then follow the line up procedure.                                                                                                                                                                                                                                                                                                                                                                                                                                         |

DO A 031993  
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# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: 6-21, 1995

FROM: Cook / Dugas

SUBJECT: Red Tag Master and Permit Violations

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff                           | Supervisors                                      | SOS's                               | OS's                                | Loaders                                            |
|-------------------------------------|--------------------------------------------------|-------------------------------------|-------------------------------------|----------------------------------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                |
| Init. Date                          | Init. Date                                       | Init. Date                          | Init. Date                          | Init. Date                                         |
| Clebert <u>OC</u> <u>6/23</u>       | Cook J <u>OC</u> <u>6-21</u>                     | Breaux <u>RJR</u> <u>6/23</u>       | Bishop <u>OC</u> <u>6/23</u>        | Armand <u>AK</u> <u>9/18</u>                       |
| Haney <u>MA</u> <u>6/23</u>         | Dugas <u>MA</u> <u>6/27</u>                      | Beieler <u>AB</u> <u>6/21/95</u>    | Bourg <u>AB</u> <u>6/21</u>         | Doucet <u>ED</u> <u>9/18</u>                       |
| Kelley <u>MA</u> <u>6/21</u>        | Day Oper.<br><input checked="" type="checkbox"/> | Bickham <u>CA</u> <u>6/21</u>       | Davis <u>CA</u> <u>6/21</u>         | Instruments<br><input checked="" type="checkbox"/> |
| Ledoux <u>MA</u> <u>6/25</u>        |                                                  | Cook F. <u>FC</u> <u>6-23-95</u>    | Ekey <u>OC</u> <u>6/21</u>          |                                                    |
| McMurray                            |                                                  | Cavalier <u>MAC</u> <u>6-21-95</u>  | Harrison <u>OC</u> <u>6/21</u>      |                                                    |
| Michel <u>AM</u> <u>6/26</u>        | Donatto <u>MA</u> <u>6/21/95</u>                 | Grant <u>MA</u> <u>6-21-95</u>      | Jack <u>OS</u> <u>6-23</u>          | Neyland                                            |
| Rizzo                               | Grace <u>MA</u> <u>9/12</u>                      | Gravouilla <u>MA</u> <u>6/21/95</u> | Looney <u>RJ</u> <u>6-23</u>        | Shanklin <u>MA</u> <u>6/28</u>                     |
| Taylor <u>MA</u> <u>6/24/95</u>     | Johnson <u>MA</u> <u>10/2</u>                    | Jackson <u>MA</u> <u>6-21-95</u>    | Wolfe <u>DW</u> <u>6-23</u>         |                                                    |
| Witt                                | Simonson <u>MA</u> <u>7/4</u>                    | Millender <u>MA</u> <u>6/23</u>     |                                     |                                                    |
| Jung <u>MA</u> <u>6/21/95</u>       | Vavasseur <u>MA</u> <u>7/1/95</u>                | Metrejean <u>DM</u> <u>6/23</u>     |                                     |                                                    |

• 744 •

Under a strict enforcement of the Tax and some Permit violations have led to a very high level of compliance. Looking at the violations, it is obvious that the major reason for the violations is lack of attention to details. This will be only a minor problem in the future. In the afternoon (4-11) in an open discussion type meeting, the participants will discuss later in the morning (4-24) Red Tag and Permit violations. The discussion will be on the "Red Tagging" category as measures to prevent these violations will be discussed. These violations were not the type where the person doing the work was not aware of the violations or unaware. If anyone is doing a job and is not aware of the violation or filling out a Red Tag, it is the responsibility of the supervisor to ensure that the person is aware of the violation and to provide a permanent solution to the problem. The responsibility for the violation will be on the supervisor.

150

DO A 031995  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: 6-3, 1995

FROM: Julie Clebert

SUBJECT: offloading Vulcan m' cars to  
Cellulose → emptying T-42 during  
the period.

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff                        | Supervisors                       | SOS's                              | OS's                             | Loaders                      |
|----------------------------------|-----------------------------------|------------------------------------|----------------------------------|------------------------------|
| <u>X</u>                         | <u>X</u>                          | <u>X</u>                           | <u>X</u>                         | <u>X</u>                     |
| Init. Date                       | Init. Date                        | Init. Date                         | Init. Date                       | Init. Date                   |
| Clebert <u>JC</u> <u>6-3</u>     | Cook J <u>JC</u> <u>6-3</u>       | Breaux <u>JB</u> <u>6/6/95</u>     | Bishop <u>JB</u> <u>6/11/95</u>  | Armand <u>JB</u> <u>6/12</u> |
| Haney <u>HH</u> <u>6/2/95</u>    | Dugas <u>DD</u> <u>6/3</u>        | Beieler <u>BB</u> <u>6/2/95</u>    | Bourg <u>BB</u> <u>6/3</u>       | Doucet <u>DD</u> <u>9/18</u> |
| Kelley <u>KK</u> <u>6/2/95</u>   | Day Oper.<br><u>X</u>             | Bickham <u>CB</u> <u>6/4/95</u>    | Davis <u>CD</u> <u>6/1/95</u>    | Instruments<br>—             |
| Ledoux <u>LL</u> <u>6/2/95</u>   |                                   | Cook F. <u>FC</u> <u>6/1/95</u>    | Ekey <u>EE</u> <u>6/2/95</u>     |                              |
| McMurray <u>MM</u> <u>6/2/95</u> |                                   | Cavalier <u>MC</u> <u>6/2/95</u>   | Harrison <u>HC</u> <u>6-6-95</u> |                              |
| Michel <u>AM</u> <u>6/2/95</u>   | Donatto <u>DD</u> <u>6/2/95</u>   | Grant <u>GU</u> <u>6-12-95</u>     | Jack <u>JS</u> <u>6/6/95</u>     | Neyland —                    |
| Rizzo —                          | Grace <u>GG</u> <u>6/19</u>       | Gravouilla <u>GD</u> <u>6/6/95</u> | Looney <u>RL</u> <u>1-3-95</u>   | Shanklin —                   |
| Taylor <u>TA</u> <u>6/2/95</u>   | Johnson <u>JO</u> <u>10/2</u>     | Jackson <u>JS</u> <u>6-12-95</u>   | Wolfe <u>DW</u> <u>6-11-95</u>   |                              |
| Witt —                           | Simonson <u>SS</u> <u>7/6/95</u>  | Millender <u>MS</u> <u>6/6</u>     |                                  |                              |
| Young <u>YY</u> <u>6/3/95</u>    | Vavasseur <u>VV</u> <u>7/5/95</u> | Metrejean <u>MT</u> <u>6/4</u>     |                                  |                              |

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## VULCAN METHYL CHLORIDE TANK CARS TO CELLULOSE

### "THE RUN"

The time has finally arrived - we will begin offloading the Vulcan tank cars to Cellulose on Sunday, June 4th. These are the cars that are contaminated with R-12. There are 15 cars - Cellulose's use rate will be about 75,000 lbs/day. Once we begin with this product we'll continue until it's all gone. Several meetings have been held to insure everything goes well. Here's hoping!!!!

To begin this, Saturday night we will need to top off Cellulose's T-12 with "good" M1 and empty their T-42 into T-261.

Sunday morning Ken and Luke will be in to complete the piping for offloading the railcars to Cellulose and for emptying T-42 into T/T's-T/C's. We need to be ready to offload around midday.

Beginning Monday, transfers will be made to Cellulose first thing in the morning and last thing in the afternoon. T-42 will be emptied when the level reaches 75%. We will only load/offload on days. Cellulose is aware of this. Ken/Luke will monitor tank levels at Cellulose to determine transfer timing.

Once all cars are empty, we will send "good" M1 to flush all lines and continue to transfer T-42 to T/T's until all samples show NO FREON.

We will hold a tailgate safety meeting first thing Sunday morning to insure everything is in place.

If you have any questions/concerns, give me a call or holler at Steve or James.

Thanks in advance for the help and cooperation. If we all work together on this, I'm sure this project will be a success for CMP (no Freon contamination) and Dow (taking this product from Vulcan means extra product (M1 and 1,1,1) in an already tight market and extra \$\$\$ for the Company).

Julie

DO A 031997  
CONFIDENTIAL

**CMP PROCEDURE****Preparing Piping to Unload Wide Spec Methyl Chloride Tank Cars  
PROCEDURE #**

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|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PURPOSE</b>                         | To prepare lines, tanks and load rack to take Wide Spec Methyl Chloride Tank Cars.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>SCOPE</b>                           | Install Blinds at D-1813 and on the M-1 vent header at Load Rack. Install spool pieces at T-261.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>DEFINITIONS</b>                     | Wide Spec Methyl Chloride - Methyl Chloride that meets Cellulose Raw Material Specs but is outside of CMP's normal Production Specs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>SAFETY CONCERNS &amp; EQUIPMENT</b> | <p>Standard block safety equipment is to be on person at all times in the loading area. Regulations of the D.O.T. are to be followed as well as the block and division regulations.</p> <p>5 - 2" X 150# Slip Blinds<br/>1 - 3" X 150# Blind Flanges<br/>1 - 2" X 150# Blind Flanges<br/>1 - 1 1/2" X 150# Blind Flanges<br/>1 - Spool piece between Cellulose T-42 line and T-261<br/>1 - Spool piece between T-261 &amp; M-1 to Cellulose Meter Run<br/>1 - Spool piece between T-261 &amp; Load Rack</p>                                                                                            |
| <b>PreWork</b>                         | <p>Prefab 2" spool piece between Cellulose T-42 line and T-261</p> <p>Prefab temporary loading line to 3" Cellulose line.</p> <p>Prefab spool piece between Spot #5/6 line and the Cellulose Meter run.</p> <p>Sample and Empty D-1813 (Make sure supervision looks at analysis prior to transferring)</p> <p>Have Cellulose pump T-42 to T-261 (Since it might be a couple of days that their line might be out of service, have them empty their tank)</p> <p>Lower T-261 level. (We will still be able to pump out of T-261 but we will not have the recirculation line for a couple of months)</p> |

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## Preparing Piping to Take Wide Spec Methyl Chloride Cars Procedure

| Step | Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Isolate the DME Header going to the T/C Rack                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2    | Hook nitrogen at Spot #5/6 on the DME line and blow the DME Loading header including the spool piece under T-261 to T-261.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 3    | Flatten the DME Loading Header to the Low Pressure M-1 Vent Header.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 4    | Hook up nitrogen at D-1813 pump discharge and pressure DME load header to nitrogen header pressure and flatten the DME Loading Header to the Low Pressure M-1 Vent Header again.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 6    | <p><b>Red Tag the Header.</b></p> <ol style="list-style-type: none"> <li>1. T-261 Bottoms valve under middle of the tank.</li> <li>2. 3" valve to Cellulose.</li> <li>3. T-261 Recirculation line.</li> <li>4. D-1813 pump suction</li> <li>5. T/C DME line to D-1813 at top of D-1813</li> <li>6. T-261 line to D-1813 at Throx header.</li> <li>7. D-1813 pump recirculation.</li> <li>8. Bleed open at Spot #5 at load rack.</li> <li>9. Air to M-1 vent valve at Spot #5</li> <li>10. Nitrogen to M-1 vent header at Spot #5</li> <li>11. Low pressure header on M-1 vent at Spot #5</li> <li>12. Bleed open at M-1 vent spot #5</li> <li>13. Air to M-1 vent valve at spot #6</li> <li>14. Nitrogen to M-1 vent header at Spot #6</li> <li>15. Low pressure header on M-1 vent at Spot #6</li> <li>16. Bleed open at M-1 vent spot #6</li> </ol> |
| 7    | Install slip blind (2" 150#) under valve at D-1813 to DME load rack/T-261 line. ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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## Preparing Piping to Take Wide Spec Methyl Chloride Cars Procedure

|    |                                                                                                          |
|----|----------------------------------------------------------------------------------------------------------|
| 8  | Install slip blind (2" 150#) on top of valve (T/C DME line to D-1813 at top of D-1813)                   |
| 9  | Install slip blind (2" 150#) under valve (T-261 line to D-1813 at Throx header)                          |
| 10 | Install slip blind (2" 150#) on Spot #5 M-1 vent header under where Low Pressure ties in to Vent Header. |
| 11 | Install slip blind (2" 150#) on Spot #6 M-1 vent header under where Low Pressure ties in to Vent Header. |
| 12 | Remove spool piece under T-261.                                                                          |
| 13 | Install temporary spool piece (T-42 to T-261)                                                            |
| 14 |                                                                                                          |

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## Preparing Piping to Take Wide Spec Methyl Chloride Cars Procedure

|    |                                                                                                                        |
|----|------------------------------------------------------------------------------------------------------------------------|
| 15 | Put blind (1 1/2") flange on recirculation line where spool piece was.                                                 |
| 16 | Pressure test the lines and blinds.                                                                                    |
| 17 | Hang Red Tags on the blind flanges.                                                                                    |
|    | <i>When the Vulcan Tank Car Arrive</i>                                                                                 |
| 18 | Block in the Cellulose meter run and use nitrogen to blow the M-1 back to T-814. Isolate the meter run and depressure. |
| 19 | Block in (T-42 to T-261) spool piece, blow the spool piece to T-261 with nitrogen, Red tag, and remove spool piece.    |
| 20 | Put blind (3") flange on bottom of T-261 where spool piece was.                                                        |
| 21 | Connect new temporary loading line to 3" Cellulose line.                                                               |
| 22 | Connect the Spool piece between Spot #5/6 line and the Cellulose Meter run.                                            |
| 23 | Install a Blind (2" 150#) flange under the M-1 to Cellulose line at the meter run.                                     |
| 24 | Pressure test the lines and blinds.                                                                                    |

DO A 032001  
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# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: June 2, 1995

FROM: BRANDON CHATE

SUBJECT: CHANGES TO MTD SYSTEM B, R-1300 (CAN 106)

(SEE ATTACHED SHEET)

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff                 | Supervisors         | SOS's                       | OS's                    | Loaders     |
|---------------------------|---------------------|-----------------------------|-------------------------|-------------|
| Init. Date                | Init. Date          | Init. Date                  | Init. Date              | Init. Date  |
| Clebert                   | Cook J. <u>X</u>    | Breaux <u>X</u>             | Bishop                  | Armand      |
| Haney <u>CH</u> 6/3/95    | Dugas <u>DD</u> 6/3 | Beieler <u>BB</u> 6/2/95    | Bourg                   | Doucet      |
| Kelley <u>KK</u> 6/3/95   | Day Oper.           | Bickham <u>CB</u> 6/4/95    | Davis                   | Instruments |
| Ledoux <u>EL</u> 6/2/95   |                     | Cook F. <u>FC</u> 6/3/95    | Ekey                    |             |
| McMurray <u>VM</u> 6/2/95 |                     | Cavalier <u>MC</u> 6-12-95  | Harrison                |             |
| Michel                    | Donatto             | Grant <u>GR</u> 6-12-95     | Jack                    | Neyland     |
| Rizzo                     | Grace               | Gravouilla <u>GG</u> 6/6/95 | Looney <u>RL</u> 6-3-95 | Shanklin    |
| Taylor <u>MT</u> 6/2/95   | Johnson             | Jackson <u>RJ</u> 6-2-95    | Wolfe                   |             |
| Witt                      | Simonson            | Millender <u>MM</u> 6/1     |                         |             |
| Young                     | Vavasseur           | Metrejean <u>DM</u> 6/4     |                         |             |

DO A 032002  
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## CHLORMETHANES R-1300 MODIFICATIONS

A major change in the R-1300 program is now being implemented since the unit has been shutdown. The R-1300 thermal chlorination reactor uses a vapor recycle stream from the distillation train to reprocess unreacted methyl chloride. The spec sheet for the transmitters installed during the expansion utilized an incorrect density obtained from CRPROP, resulting in a decrease in the compensated flow measurement. The scale factors have been reassigned for all variables associated with the flows, and literals employed in mole balances have been redetermined.

Other program alterations have been made. A ramping function was attached to the chlorine load setpoint to allow a more gradual change of without operator intervention (initially set at 200 lb/min). Another ramp will be used to make larger load cuts should the differential pressure fall too low. In addition, the recycle flow control setpoint is limited based on the control valve position. If the valve opens greater than 80%, the setpoint is reset to the current flow. Also, liquid injection will not ramp off in the event of a low chlorine to R-1300 differential pressure. Finally, the temperature selection logic has been adjusted to limit the change of position of the control point within the bottom section of the reactor.

Simulation of these changes is now complete and the upload is slated to occur on Friday, June 2. The recycle flow transmitters will need to be rescaled at that time.

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Thu, Jun 1, 1995

FROM: Rizzo

SUBJECT: Please review the attached MOD V Change sheet

Two alarms were added to the system C. They are WARN(355) and WARN(356). They alarm when the N2 flow to the filter beds drops below the low flow setpoint and it is in the regeneration step.

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff  | Supervisors | SOS's      | OS's       | Loaders     |
|------------|-------------|------------|------------|-------------|
| Init. Date | Init. Date  | Init. Date | Init. Date | Init. Date  |
| Clebert    | Cook J.     | Breaux     | Bishop     | Armand      |
| Haney      | Dugas       | Beieler    | Bourg      | Doucet      |
| Kelley     | Day Oper.   | Bickham    | Davis      | Instruments |
| Ledoux     |             | Cook F.    | Ekey       |             |
| McMurray   | Init. Date  | Cavalier   | Harrison   | Init. Date  |
| Michel     | Donatto     | Grant      | Jack       | Neyland     |
| Rizzo      | Grace       | Gravouilla | Looney     | Shanklin    |
| Taylor     | Johnson     | Jackson    | Wolfe      |             |
| Witt       | Simonson    | Millender  |            |             |
| Young      | Vavasseur   | Metrejean  |            |             |



# CHLORINATED METHANES MOD V

## DESCRIPTION OF CHANGE



**C**

System

**Zone 1**

Equipment Number

**500**

Can

### Changed the pumps code on Zone 1, 3 and the Shot pond

#### Zone 1 and the Shotpond Pumps

Took out all the automatic swapping logic from the code and went with the same convention we have on other pumps in the plant.

Since Zone 1 and the Shot Pond are 3 pump systems, the small pump was made the primary pump. This will require less energy consumption during normal operations. The small pumps will energize if it is in the automatic position in the field and there is sufficient level.

In the event the primary pump doesn't energize within a specified time frame the (A) pump is designated to energize next. If the (A) pump doesn't energize within a specified time frame the (B) pump will energize.

In the event a high level alarm condition occurs and the primary pump is running, the (A) pump is designated to energize. If A high - high level condition exist then all 3 pumps will be energized, if in auto in the field.

In the event all 3 pumps are running and if the control valve goes closed, the (B) pump is designated to de-energize first, then the (A) pump. If only 2 pumps are running and the control valve closes, the primary pump will remain energized.

See the following code: DO(501), DO(511), DO(521), DO(502), DO(512), DO(522)

#### Zone 3

This is a 2 pump system with the (A) pump designated as the primary pump. The (A) pump will energize if it is in the automatic position in the field and there is sufficient level. The (B) pump is designated to energize if the (A) pump hasn't energized within a specified time frame. If a high level alarm condition exist, the pump that is off line, will energize.

See the following code: DO(513) & DO(523)

DO A 032005  
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# CHLORINATED METHANES MOD V

## DESCRIPTION OF CHANGE



C

System

Zone 1

Equipment Number

500

Can

### ALL ZONES & SHOTPOND

Revised the code for all of the recirculation AOV's. The AOV's opening are no longer dependent on the level. The AOV's will be open the pumps aren't running or if the control valves are at their minimum position.

See the code for all the recirculation AOV's

### ZONE 2

Revised the stepping logic for moving back to STEP(522). The old code stated that if a high high shotpond level existed, indicated by ALM(541) being true, Zone 2 stepping logic automatically moved the sequence back up into STEP(522). This prevented Zone 2 from being able to do directly to the outfall if there was a problem with the Shotpond.

The above mentioned code was taken out. You will only move back to STEP(522) if high organics are detected or analyzer failure or if requested by the operator performing an AK/DM function.

DO A 032006  
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# CHLORINATED METHANES MOD V

## DESCRIPTION OF CHANGE



C

System

PSA'S

Equipment Number

300

Can

### WARN(355)

This alarm will activate if the N2 flow, AI(325) drops below the low flow setpoint, AP(353) and one of the PSA 1760 beds is in the regeneration steps, STEP344 or STEP(340)

Once activated the alarm will remain on until the N2 flow is above the unlatch setpoint, AC(1043).

### WARN(356)

This alarm will activate if the N2 flow, AI(305) drops below the low flow setpoint, AP(372) and one of the PSA 1770 beds is in the regeneration steps, STEP304 or STEP(310)

Once activated the alarm will remain on until the N2 flow is above the unlatch setpoint, AC(1040).

DO A 032007  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: MAY 26, 1995

FROM: Kevin Kelley

SUBJECT: E-455 Information

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff                           | Supervisors                                      | SOS's                               | OS's                                | Loaders                                                 |
|-------------------------------------|--------------------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>                                |
| Init. Date                          | Init. Date                                       | Init. Date                          | Init. Date                          | Init. Date                                              |
| Clebert <u>OC</u> <u>5/31</u>       | Cook J. <u>JRC</u> <u>5-27</u>                   | Breaux <u>LB</u> <u>5/31/95</u>     | Bishop <u>—</u> <u>—</u>            | Armand <u>—</u> <u>—</u>                                |
| Haney <u>JRH</u> <u>6/3/95</u>      | Dugas <u>DeW</u> <u>5-31</u>                     | Beiler <u>LB</u> <u>5/27/95</u>     | Bourg <u>JB</u> <u>5-29</u>         | Doucet <u>—</u> <u>—</u>                                |
| Kelley <u>KK</u> <u>5/24/95</u>     | Day Oper.<br><input checked="" type="checkbox"/> | Bickham <u>CG</u> <u>6/4/95</u>     | Davis <u>CD</u> <u>6/12</u>         | Instruments<br><u>—</u>                                 |
| Ledoux <u>EL</u> <u>6/26</u>        |                                                  | Cook F. <u>FC</u> <u>5-29</u>       | Ekey <u>JE</u> <u>5/29</u>          |                                                         |
| McMurray <u>UM</u> <u>6/21/95</u>   | <input checked="" type="checkbox"/>              | Cavalier <u>NK</u> <u>5-29</u>      | Harrison <u>DR</u> <u>5/29</u>      | Neyland <u>—</u> <u>—</u><br>Shanklin <u>—</u> <u>—</u> |
| Michel <u>ML</u> <u>6/9/95</u>      |                                                  | Grant <u>GR</u> <u>6-24</u>         | Jack <u>JS</u> <u>5-28</u>          |                                                         |
| Rizzo <u>—</u> <u>—</u>             | Grace <u>GR</u> <u>6/2</u>                       | Gravouilla <u>GR</u> <u>6/1/95</u>  | Looney <u>LL</u> <u>5-28</u>        |                                                         |
| Taylor <u>WT</u> <u>6/24/95</u>     | Johnson <u>—</u>                                 | Jackson <u>JA</u> <u>5-29</u>       | Wolfe <u>DW</u> <u>5-27</u>         |                                                         |
| Witt <u>—</u> <u>—</u>              | Simonson <u>—</u>                                | Millender <u>MA</u> <u>5/26</u>     |                                     |                                                         |
| Young <u>—</u> <u>—</u>             | Vavasseur <u>—</u>                               | Metrejean <u>MM</u> <u>5/26</u>     |                                     |                                                         |

DO A 032008  
CONFIDENTIAL

Note for Kelley, Kevin

*Communiqué*

**From:** Kelley, Kevin  
**Date:** Fri, May 26, 1995 7:52 AM  
**Subject:** E-455 Performance  
**T :** Kelley, Kevin

May 25, 1995

E-455 continues to be a thorn in our side. It appears that we are beginning to have problems maintaining temperature control during barge offloads. This is due to one of three possible problems:

1) Higher offload rates than expected, 2) Mechanical problem inside exchanger allowing flow to bypass exchanger core, or 3) Higher outside, river water (and therefore methanol) temperatures.

*Important*

{ The only one of these we can affect is #1. Until the plans listed below are put in place, please have the Docks adjust their offload rate to allow the exchanger to control the vent temperature at -20 to -30 as needed. We need to do this in order to minimize emissions from the system.

It is very well understood that this system has been anything but the dream vent recovery system as we were lead to believe initially.

The newest plan for the exchanger system is as follows. We are pursuing adding in a second heat exchanger that will run in series with E-455. Both exchangers will be installed in the horizontal position in order to allow condensed liquid to drain through a seal leg back to the tank. A demister will be installed downstream of the exchangers. In addition to some inherent physical problems with liquid nitrogen as a heat transfer fluid, it seems the design basis for the exchanger was a little conservative.

The plant's position with this system is this: We are going to make one more, best faith effort at using the liquid nitrogen technology. Both CMP and Air Liquide have agreed that we will install the best possible system this time, sharing the costs of the additional equipment. We don't want to scrap everything that's been done and start all over again until we put the best possible system in. If it works, everyone will be beyond happy. If it doesn't, back to the drawing board.

We plan to finalize design of the additional exchanger and demister by the end of next week and place the order then. In the four to six weeks it takes to get here, we'll be engineering the necessary piping and structural steel modifications needed. If everything goes as planned (which would be a first for this project) the final version of the system should be in by August.

One final, unrelated note. E-455 will be moved to system C in the middle of June in order to prepare for the installation of C-600 on can A-500.

Thanks for your continued patience with this trying issue.

Kevin Kelley



DO A 032009  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Fri, May 19, 1995

FROM: Rizzo

SUBJECT: Please review the following procedures

- \* cmppump repair - #460215
- \* TDC policy - #460536
- \* R-750 shutdown # 460141
- \* Lab procedure #460336
- \* moc policy
- \* procedure approval policy #460384

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff         |       | Supervisors       |             | SOS's             |                   | OS's              |                    | Loaders           |       |          |       |
|-------------------|-------|-------------------|-------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------|----------|-------|
| <u>          </u> |       | <u>          </u> |             | <u>          </u> |                   | <u>          </u> |                    | <u>          </u> |       |          |       |
| Init.             | Date  | Init.             | Date        | Init.             | Date              | Init.             | Date               | Init.             | Date  |          |       |
| Clebert           | _____ | Cook J. <u>JB</u> | <u>5-23</u> | Breaux            | <u>LB 5/24/90</u> | Bishop            | <u>OB 5/23</u>     | Armand            | _____ |          |       |
| Haney             | _____ | Dugas <u>JD</u>   | <u>5/22</u> | Beiler            | <u>BB 5/15/90</u> | Bourg             | <u>JB 5/22</u>     | Doucet            | _____ |          |       |
| Kelley            | _____ | Day Oper.         | _____       | Bickham           | <u>CB 6/4/90</u>  | Davis             | <u>DB 6/2</u>      | Instruments       | _____ |          |       |
| Ledoux            | _____ |                   |             | Cook F.           | <u>FX 5/20/90</u> | Ekey              | <u>EB 5/19</u>     |                   |       |          |       |
| McMurray          | _____ | Init. Date        | _____       | Cavalier          | <u>CC 5-18</u>    | Harrison          | <u>HC 5/21</u>     | Init. Date        | _____ |          |       |
| Michel            | _____ |                   |             | Grant             | <u>GU 6-26-90</u> | Jack              | <u>OJ 5-25</u>     |                   |       | Neyland  | _____ |
| Rizzo             | _____ |                   |             | Gravouilla        | <u>GG 5-23</u>    | Looney            | <u>HJL 5-22/90</u> |                   |       | Shanklin | _____ |
| Taylor            | _____ |                   |             | Jackson           | <u>JA 5-21-90</u> | Wolfe             | <u>DW 5-27</u>     |                   |       |          |       |
| Witt              | _____ |                   |             | Millender         | <u>ML 5/21</u>    |                   |                    |                   |       |          |       |
| Young             | _____ | Vavasseur         | _____       | Metrejean         | <u>DM 5/22</u>    |                   |                    |                   |       |          |       |

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: MAY 17, 1995

FROM: Kevin Kelley

SUBJECT: C-1500 Leach Clamp Installation

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff                         | Supervisors                      | SOS's                             | OS's                            | Loaders              |
|-----------------------------------|----------------------------------|-----------------------------------|---------------------------------|----------------------|
| Init. Date                        | Init. Date                       | Init. Date                        | Init. Date                      | Init. Date           |
| Clebert <u>JK</u> <u>5/20</u>     | Cook J. <u>AK</u> <u>5-18</u>    | Breaux <u>WB</u> <u>5/17/95</u>   | Bishop <u>CB</u> <u>5/17</u>    | Armand _____         |
| Haney <u>GH</u> <u>5/17/95</u>    | Dugas <u>AD</u> <u>5/17</u>      | Beieler <u>AB</u> <u>5/17/95</u>  | Bourg <u>AB</u> <u>5-18</u>     | Doucet _____         |
| Kelley <u>JK</u> <u>5/17/95</u>   | Day Oper.                        | Bickham <u>AG</u> <u>5/17/95</u>  | Davis <u>CD</u> <u>6/12</u>     | Instruments<br>_____ |
| Ledoux <u>JK</u> <u>6/22</u>      |                                  | Cook F. <u>EC</u> <u>5-17</u>     | Ekey <u>JK</u> <u>5/18</u>      |                      |
| McMurray <u>LM</u> <u>6/21/95</u> |                                  | Cavalier <u>AC</u> <u>5/17/95</u> | Harrison <u>DE</u> <u>5/18</u>  |                      |
| Michel <u>AM</u> <u>6/25</u>      | Donatto <u>DD</u> <u>6/21/95</u> | Grant <u>AL</u> <u>5-25-95</u>    | Jack <u>OS</u> <u>5-18</u>      | Neyland _____        |
| Rizzo _____                       | Grace <u>GH</u> <u>6/21/95</u>   | Gravouilla <u>AS</u> <u>5-18</u>  | Looney <u>AB</u> <u>5-20-95</u> | Shanklin _____       |
| Taylor <u>AT</u> <u>5/18/95</u>   | Johnson <u>JD</u> <u>10/2</u>    | Jackson <u>EX</u> <u>5-21-95</u>  | Wolfe <u>DW</u> <u>5-17-95</u>  |                      |
| Witt _____                        | Simonson _____                   | Millender <u>MS</u> <u>5/17</u>   |                                 |                      |
| Jung _____                        | Vavasseur _____                  | Metrejean <u>DM</u> <u>5/22</u>   |                                 |                      |

DO A 032011  
CONFIDENTIAL

**OPERATIONS COMMUNIQUE'**  
**K. KELLEY**

---

Date: 5/17/95

Topic: C-1500 Leak Clamp Installation

A leak clamp will be installed on the bypass on the C-1500 feed control valve in the next day or so. The clamp is being installed to stop a small leak out of an allen screw on the body of the valve. The allen screw is used to maintain the compression of the seats against the ball on the inside of the valve. This is the same problem that was seen on the T-1500 AOV and the other valve on C-1500 that's clamped.

TBV has changed their design, but we still have a number of similar valves throughout the plant. There will be an evaluation of where likely future occurrences are and what we can do to ward them off. Please continue to be on the look out for this type of leak. Good job to A shift for catching it this time.

Thanks,



K.K.

DO A 032012  
CONFIDENTIAL

### *Review & Initial*

FROM: H. Kellen

**SUBJECT:**

**EMPLOYEE:** Please initial and date when you have reviewed and understood the material.

| Day Staff                         | Supervisors                       | SOS's                            | OS's                            | Loaders                          |
|-----------------------------------|-----------------------------------|----------------------------------|---------------------------------|----------------------------------|
| Init. Date                        | Init. Date                        | Init. Date                       | Init. Date                      | Init. Date                       |
| Clebert <u>gc</u> <u>5/22</u>     | Cook J. <u>    </u> <u>    </u>   | Breaux <u>gc</u> <u>5/17/95</u>  | Bishop <u>gc</u> <u>5/17</u>    | Armand <u>    </u> <u>    </u>   |
| Haney <u>gta</u> <u>5/22/95</u>   | Dugas <u>    </u> <u>    </u>     | Beieler <u>gc</u> <u>5/17/95</u> | Bourg <u>gc</u> <u>5-18</u>     | Doucet <u>    </u> <u>    </u>   |
| Kelley <u>gc</u> <u>5/17/95</u>   | Day Oper. <u>    </u>             | Bickham <u>n/a</u> <u>5/17</u>   | Davis <u>gc</u> <u>6/2</u>      | Instruments <u>    </u>          |
| Ledoux <u>gc</u> <u>5/22</u>      | <u>    </u>                       | Cook F. <u>gc</u> <u>5-17-95</u> | Ekey <u>gc</u> <u>5/24</u>      | <u>    </u>                      |
| McMurray <u>gm</u> <u>6/21/95</u> | <u>    </u>                       | Cavalier <u>gc</u> <u>5/18</u>   | Harrison <u>gc</u> <u>5/18</u>  | <u>    </u>                      |
| Michel <u>gc</u> <u>6/25</u>      | Donatto <u>    </u> <u>    </u>   | Grant <u>gc</u> <u>5-22-95</u>   | Jack <u>gc</u> <u>5-18</u>      | Neyland <u>    </u> <u>    </u>  |
| Rizzo <u>    </u> <u>    </u>     | Grace <u>    </u> <u>    </u>     | Gravouilla <u>gc</u> <u>5-17</u> | Looney <u>gc</u> <u>5-22-95</u> | Shanklin <u>    </u> <u>    </u> |
| Taylor <u>gc</u> <u>5/18/95</u>   | Johnson <u>    </u> <u>    </u>   | Jackson <u>gc</u> <u>5-20</u>    | Wolfe <u>gc</u> <u>5-17-95</u>  |                                  |
| Witt <u>    </u> <u>    </u>      | Simonson <u>gc</u> <u>7/4/95</u>  | Millender <u>gc</u> <u>5/17</u>  |                                 |                                  |
| Young <u>    </u> <u>    </u>     | Vavasseur <u>    </u> <u>    </u> | Metrejean <u>gc</u> <u>5/22</u>  |                                 |                                  |

1995 Hog Body Contest  
K. Kelley, Official Statistician

| Fat Old Sows |     |     |          | Piglet Bodies |     |     |          |
|--------------|-----|-----|----------|---------------|-----|-----|----------|
| Name         | In  | Out | % change | Name          | In  | Out | % change |
| F. Cook      | 230 | 218 | 5.22     | D. Taylor     | 193 | 179 | 7.25     |
| B. Young     | 229 | 224 | 2.18     | K. Kelley     | 204 | 190 | 6.86     |
| R. Jackson   | 211 | 208 | 1.42     | J. Clebert    | 142 | 138 | 2.82     |
| T. Sensat    | 233 | 231 | 0.86     | S. Ledoux     | 203 | 202 | 0.49     |
| C. Davis     | 240 | 240 | 0.00     | J. Haney      | 177 | 177 | 0.00     |
| F. Simonson  | 239 | 239 | 0.00     | L. Purdy      | 137 | 137 | 0.00     |
| D. Metrejean | 227 | 229 | -0.88    |               |     |     |          |

The Official Results are in. Darren Metrejean, who said in January "let's make it burn and make the contest longer this time" was the only contestant to gain. Better luck next year D.

Don Taylor and Freddie Cook win the prize of \$ 131.00 each. Personally, I feel cheated. Only 1 more pound and I would have beaten Don. That's the way the cookie crumbles (or is eaten, in my case). *The Boss Always Win.*

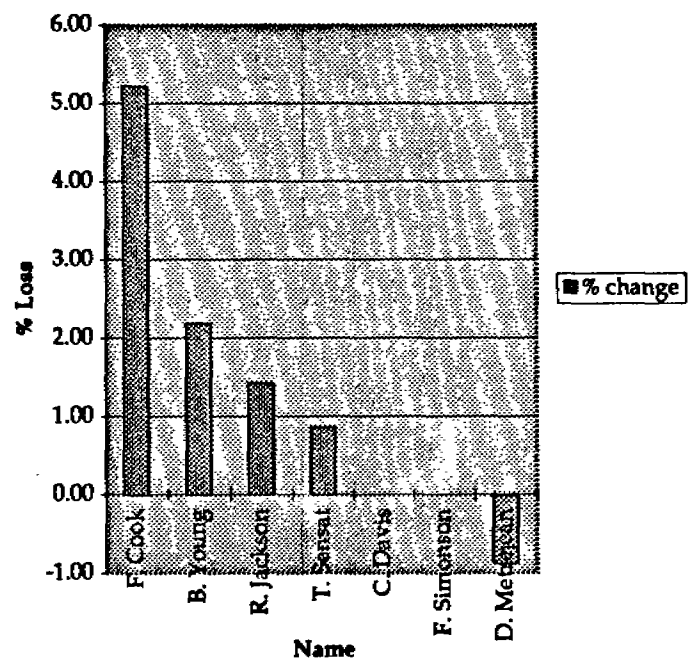
Thanks for a good contest. Now, start gaining for next year!!

Kevin Kelley

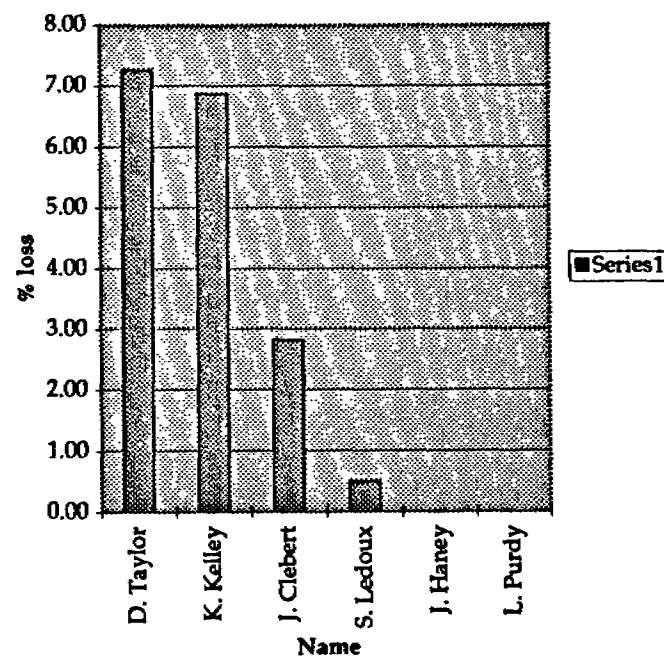


DO A 032014  
CONFIDENTIAL

**Fat Old Sows -Weight Loss Results**



**Piglet Bodies- Weight Loss Results**



# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: 5/15/95, 1995

FROM: Brian Donatto

SUBJECT: Safety Attendant Entry into Confined Spaces

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff                                                                                                                                                                                                                                                                                                                                                                                  | Supervisors                                                                                                                                                                                                                                                                                                                                                      | SOS's                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | OS's                                                                                                                                                                                                                                                                                                                                                                   | Loaders                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div> <div>Init. Date</div> <div>Clebert <u>OC</u> <u>5/17</u></div> <div>Haney <u>JTH</u> <u>5/21/95</u></div> <div>Kelley <u>Kel</u> <u>5/17</u></div> <div>Ledoux <u>Le</u> <u>6/28</u></div> <div>McMurray <u>vm</u> <u>6/21/95</u></div> <div>Michel <u>A.M.</u> <u>6/25</u></div> <div>Rizzo</div> <div>Taylor <u>DWT</u> <u>5/18/95</u></div> <div>Witt</div> <div>ung</div> </div> | <div> <div>Init. Date</div> <div>Cook J. <u>JPC</u> <u>5-18</u></div> <div>Dugas <u>DD</u> <u>5/17</u></div> <div>Day Oper.</div> <div>Donatto <u>DD</u> <u>5/15/95</u></div> <div>Grace <u>AL</u> <u>6/2/95</u></div> <div>Johnson <u>JJ</u> <u>10/2</u></div> <div>Simonson <u>JS</u> <u>7/6/95</u></div> <div>Vavasseur <u>VV</u> <u>7/19/95</u></div> </div> | <div> <div>Init. Date</div> <div>Breaux <u>BB</u> <u>5/17/95</u></div> <div>Beieler <u>BB</u> <u>5/17/95</u></div> <div>Bickham <u>CB</u> <u>5-17</u></div> <div>Cook F. <u>FL</u> <u>5-17-95</u></div> <div>Cavalier <u>CC</u> <u>5-17-95</u></div> <div>Grant <u>CC</u> <u>5-17-95</u></div> <div>Gravouilla <u>AG</u> <u>5-17-95</u></div> <div>Jackson <u>JJ</u> <u>5-20-95</u></div> <div>Millender <u>MM</u> <u>5/17</u></div> <div>Metrejean <u>DM</u> <u>5/22</u></div> </div> | <div> <div>Init. Date</div> <div>Bishop <u>KB</u> <u>5/17</u></div> <div>Bourg <u>JB</u> <u>5/17</u></div> <div>Davis <u>CR</u> <u>6/12</u></div> <div>Ekey <u>KE</u> <u>5/17</u></div> <div>Harrison <u>HR</u> <u>5/15/95</u></div> <div>Jack <u>JS</u> <u>5/17-95</u></div> <div>Looney <u>LL</u> <u>5-15</u></div> <div>Wolfe <u>DW</u> <u>5-17-95</u></div> </div> | <div> <div>Init. Date</div> <div>Armand <u>AA</u> <u>9/18</u></div> <div>Doucet <u>DD</u> <u>9/18</u></div> <div>Instruments</div> <div>Neyland</div> <div>Shanklin</div> </div> |

DO A 032016  
CONFIDENTIAL

RECEIVED R404 3129 5/03/95 11:23  
U434031 422 5/03/95 11:22

1 : DONATTO  
JURCE : PEEBLES R L (RODDEY)

U434031 042

U432195 MADECD

DONATTO B D (BRIAN)

(U434031 )(PLAQM

FROM: NAME: U432195 (U432195@LARNDC@MRGATE@USMV02)  
TO: U434031@IBM

FROM: LACSDC:UCIE "PAM L. USIE, SAFETY SUPERINTENDENT, (504)353-804  
9" 3-MAY-1995 07:53:49.07  
TO: EOIS:SSUP1  
CC: USIE  
SUBJ: SAFETY ATTENDANT ENTRY INTO CONFINED SPACES

THIS IS TO CLARIFY ANY POSSIBLE CONFUSION CONCERNING WHETHER  
A SAFETY ATTENDANT IS ALLOWED TO ENTER A CONFINED SPACE  
(REMEMBER, ENTRY IS DEFINED AS PASSING ANY PART OF THE BODY  
PAST THE OPENING OF THE SPACE).

THE SAFETY ATTENDANT MUST NOT ENTER THE CONFINED SPACE UNLESS  
RELIEVED OF THEIR DUTIES AS THE ATTENDANT. IT IS UNDERSTOOD THAT  
THEY MAY AT TIMES HAVE TO CALL IN AT THE OPENING TO COMMUNICATE  
WITH THE ENTRANTS BUT SHOULD NOT HAVE TO "ENTER" THE SPACE TO  
PERFORM THIS COMMUNICATION.

IN FACT, THEY SHOULD NOT EVEN BE SIGNED ON TO THE ROSTER AS  
AUTHORIZED ENTRANTS SINCE THEIR RESPONSIBILITY IS IN FACT TO  
REMAIN OUTSIDE THE SPACE AND ACT AS THE LINK BETWEEN THE  
PERSONS INSIDE AND THE ACTIVITIES OUTSIDE. THE SAFETY  
SUPERINTENDENTS RECOMMEND USING THE CONFINED SPACE ENTRY  
CHECK IN/OUT ROSTER AVAILABLE FROM STOCK (DOW CODE NUMBER  
3571870-VIA TROXCLAIR PRINTING). THIS CARD HAS A SPACE AT THE  
TOP FOR THE ATTENDANT'S NAME, SEPARATE FROM THE LIST OF  
AUTHORIZED ENTRANTS. IT ALSO HAS THE RESPONSIBILITIES OF THE  
ATTENDANT LISTED ON THE FRONT AS A REMINDER. THIS LIST HAS  
BEEN RECENTLY CHANGED AND NEW CARDS WILL BE AVAILABLE IN THE  
NEAR FUTURE WHICH SPECIFY THAT THE SAFETY ATTENDANT

"DO NOT ENTER YOURSELF UNLESS RELIEVED OF ATTENDANT  
RESPONSIBILITIES AND PROPERLY SIGNED ON TO ROSTER,  
RED TAG MASTER, SAFE WORK PERMIT, ETC."

PLEASE COMMUNICATE THIS TO THE APPROPRIATE PERSONS WITHIN YOUR  
ORGANIZATION (PERSONS ISSUING CONFINED SPACE ENTRY PERMITS,  
PERSONS WHO MIGHT ACT AS ATTENDANTS, ETC.) IT WILL ALSO BE

COMMUNICATED TO CONTRACTORS IN AN UPCOMING WEEKLY SAFETY MEETING.

PAM L. USIE  
SAFETY SUPERINTENDENT

FROM: PEEBLES "RODDEY PEEBLES CHLOR-ALKALI/DERIVATIVES BLDG 1301"

DO A 032017  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: 5/4/95, 1995

FROM: Jim Haney

SUBJECT: New sealed P-1541 D

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff                         | Supervisors                     | SOS's                             | OS's                          | Loaders                           |
|-----------------------------------|---------------------------------|-----------------------------------|-------------------------------|-----------------------------------|
| Init. Date                        | Init. Date                      | Init. Date                        | Init. Date                    | Init. Date                        |
| Clebert <u>JK</u> <u>5/8</u>      | Cook J. <u>JK</u> <u>5-10-8</u> | Breaux <u>hwb</u> <u>5/4/95</u>   | Bishop <u>CB</u> <u>5-13</u>  | Armand                            |
| Haney                             | Dugas <u>RRD</u> <u>5/1/95</u>  | Beieler <u>td</u> <u>5/1/95</u>   | Bourg <u>CB</u> <u>5-6</u>    | Doucet                            |
| Kelley <u>JK</u> <u>5/10/95</u>   | Day Oper.                       | Bickham <u>CB</u> <u>5/4/95</u>   | Davis <u>CB</u> <u>5-10</u>   | Instruments<br><u>✓</u>           |
| Ledoux <u>SL</u> <u>6/24</u>      |                                 | Cook F. <u>FL</u> <u>5/4/95</u>   | Ekey <u>CB</u> <u>5/4</u>     |                                   |
| McMurray <u>WM</u> <u>6/21/95</u> |                                 | Cavalier <u>MR</u> <u>5/1/95</u>  | Harrison <u>CB</u> <u>5-5</u> |                                   |
| Michel <u>RM</u> <u>6/25</u>      | Donatto                         | Grant <u>CB</u> <u>5-7-95</u>     | Jack <u>CB</u> <u>5-4-95</u>  |                                   |
| Rizzo                             | Grace                           | Gravouilla <u>D</u> <u>5-5</u>    | Looney <u>CB</u> <u>5-4</u>   |                                   |
| Taylor <u>DM</u> <u>5/4/95</u>    | Johnson                         | Jackson <u>CB</u> <u>5-10</u>     | Wolfe <u>DW</u> <u>5-8-95</u> | Neyland                           |
| Witt                              | Simonson                        | Millender <u>CB</u> <u>5/8/95</u> |                               | Shanklin <u>AS</u> <u>5-23-95</u> |
| Young                             | Vavasseur                       | Metrejean <u>DM</u> <u>5/12</u>   |                               |                                   |

DO A 032018  
CONFIDENTIAL

**Communique**

**Subject: P-1541 D (New sealed pump)**

**From: Jim Haney**

**Date: 5/4/95**

The new sealed P-1541 was started up in place of P-1541 B, the mag drive pump, on 5/4/95. The tag for this pump is P-1541 D. After P-1541 A is replaced with the new sealed pump, which will be tagged P-1541 C, the "A" and "B" designations will no longer be valid. The Mod5 graphics will be changed after P-1541 C is on-line. The Mod5 code will be changed during the next Distillation upload. Also, the tags on the pump field switches and the stencils on the foundations will be changed to "C" and "D". The other sealed pump will be installed during the week of 5/8/95 provided there are no problems with P-1541 D over the next few days.

DO A 032019  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Tue, May 2, 1995

FROM: Rizzo

SUBJECT: Please review the following procedure revision

\* MOD V PUMP # 460206

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff                 | Supervisors            | SOS's                      | OS's                   | Loaders     |
|---------------------------|------------------------|----------------------------|------------------------|-------------|
|                           | <u>X</u>               | <u>X</u>                   | <u>X</u>               |             |
| Init. Date                | Init. Date             | Init. Date                 | Init. Date             | Init. Date  |
| Clebert                   | Cook J. <u>AP</u> 5-14 | Breaux <u>LB</u> 5-2       | Bishop <u>CB</u> 5-4   | Armand      |
| Haney <u>PH</u> 5/2/95    | Dugas <u>RD</u> 5/2    | Beieler <u>MB</u> 5/1/95   | Bourg <u>CB</u> 5-8    | Doucet      |
| Kelley <u>KB</u> 5/1/95   | Day Oper.              | Bickham <u>CB</u> 5/1/95   | Davis <u>CB</u> 5-10   | Instruments |
| Ledoux <u>LC</u> 5/1/95   |                        | Cook F. <u>FC</u> 5-3-95   | Ekey                   |             |
| McMurray <u>MC</u> 5/1/95 | Init. Date             | Cavalier <u>MC</u> 5-1-95  | Harrison <u>DH</u> 5-5 | Init. Date  |
| Michel <u>AM</u> 6/25     | Donatto                | Grant <u>GR</u> 5-7-95     | Jack <u>JS</u> 5-2     | Neyland     |
| Rizzo                     | Grace                  | Gravouilla <u>GR</u> 5-5   | Looney <u>RL</u> 5-3   | Shanklin    |
| Taylor <u>DT</u> 5/1/95   | Johnson                | Jackson <u>RJ</u> 5-10     | Wolfe <u>DW</u> 5-8-95 |             |
| Witt                      | Simonson               | Millender <u>ML</u> 5/1/95 |                        |             |
| Young                     | Vavasseur              | Metrejean <u>DM</u> 5/3/95 |                        |             |

DO A 032020  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Tue. May 2, 1995

FROM: Rizzo

SUBJECT: Please review the following lab procedure revisions

\* # 460326, #460327, #460329, #460330, & #460616

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff  | Supervisors | SOS's      | OS's       | Loaders     |
|------------|-------------|------------|------------|-------------|
|            |             |            | X          | X           |
| Init. Date | Init. Date  | Init. Date | Init. Date | Init. Date  |
| Clebert    | Cook J.     | Breaux     | Bishop     | Armand      |
| Haney      | Dugas       | Beieler    | Bourg      | Doucet      |
| Kelley     | Day Oper.   | Bickham    | Davis      | Instruments |
| Ledoux     |             | Cook F.    | Ekey       |             |
| McMurray   | Init. Date  | Cavalier   | Harrison   | Init. Date  |
| Michel     | Donatto     | Grant      | Jack       | Neyland     |
| Rizzo      | Grace       | Gravouilla | Looney     | Shanklin    |
| Taylor     | Johnson     | Jackson    | Wolfe      |             |
| Witt       | Simonson    | Millender  |            |             |
| Young      | Vavasseur   | Metrejean  |            |             |

DO A 032021  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Tue, Apr 25, 1995

FROM: Rizzo

SUBJECT: Please review the following revised procedures:

Sampling outfall 1531 - #460494

Sampling outfall 1541 - #460615

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

## PERSONS NEEDING TO REVIEW

| Day Staff                     | Supervisors     | SOS's                               | OS's                           | Loaders           |
|-------------------------------|-----------------|-------------------------------------|--------------------------------|-------------------|
|                               |                 |                                     | X                              |                   |
| Init. Date                    | Init. Date      | Init. Date                          | Init. Date                     | Init. Date        |
| Clebert <u>OK</u> <u>4/26</u> | Cook J. _____   | Breaux _____                        | Bishop <u>OK</u> <u>5-4</u>    | Armand _____      |
| Haney _____                   | Dugas _____     | Beieler <u>AB</u> <u>5/1/95</u>     | Bourg <u>AB</u> <u>4/26</u>    | Doucet _____      |
| Kelley <u>R</u> <u>5/1/95</u> | Day Oper. _____ | Bickham _____                       | Davis <u>CD</u> <u>5/10</u>    | Instruments _____ |
| Ledoux <u>RL</u> <u>4/26</u>  | _____           | Cook F. <u>LL</u> <u>5/1/95</u>     | Ekey <u>JE</u> <u>5/14</u>     | _____             |
| McMurray _____                | Init. Date      | Cavalier <u>NR</u> <u>4/26/95</u>   | Harrison <u>DN</u> <u>4/26</u> | Init. Date        |
| Michel _____                  | Donatto _____   | Grant <u>az</u> <u>4/26</u>         | Jack <u>OS</u> <u>4-25</u>     | Neyland _____     |
| Rizzo _____                   | Grace _____     | Gravouilla <u>QJ</u> <u>4/26/95</u> | Looney <u>RJL</u> <u>4-25</u>  | Shanklin _____    |
| Taylor _____                  | Johnson _____   | Jackson <u>UJ</u> <u>5-10</u>       | Wolfe <u>DW</u> <u>4-29</u>    |                   |
| Witt _____                    | Simonson _____  | Millender <u>RJL</u> <u>5/1/95</u>  |                                |                   |
| Young _____                   | Vavasseur _____ | Metrejean <u>DM</u> <u>4/28</u>     |                                |                   |

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: 4/21/, 1995

FROM: VAVASSEUR

SUBJECT: 2

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

| GROUP       | PERSONS NEEDING TO REVIEW                    |                                                |                                             |                                               |                                               |                                            |
|-------------|----------------------------------------------|------------------------------------------------|---------------------------------------------|-----------------------------------------------|-----------------------------------------------|--------------------------------------------|
| Day Staff   | <input type="checkbox"/> Taylor              | <input type="checkbox"/> McMurray              | <input type="checkbox"/> Bourne             | <input checked="" type="checkbox"/> Kelley    | <input checked="" type="checkbox"/> Haney     | <input checked="" type="checkbox"/> Ledoux |
|             | <input type="checkbox"/> Witt                | <input type="checkbox"/> Young                 | <input type="checkbox"/> Michel             | <input checked="" type="checkbox"/> Clebert   | <input type="checkbox"/> Rizzo                |                                            |
| Supervisors | <input checked="" type="checkbox"/> Cook J.  | <input checked="" type="checkbox"/> Dugas      |                                             |                                               |                                               |                                            |
| SOS's       | <input checked="" type="checkbox"/> Breaux   | <input checked="" type="checkbox"/> Beiler     | <input checked="" type="checkbox"/> Bickham | <input checked="" type="checkbox"/> Cook F.   | <input checked="" type="checkbox"/> Cavalier  |                                            |
|             | <input checked="" type="checkbox"/> Grant    | <input checked="" type="checkbox"/> Gravouilla | <input checked="" type="checkbox"/> Jackson | <input checked="" type="checkbox"/> Millender | <input checked="" type="checkbox"/> Metrejean |                                            |
| OS's        | <input checked="" type="checkbox"/> Bishop   | <input checked="" type="checkbox"/> Bourg      | <input checked="" type="checkbox"/> Ekey    | <input checked="" type="checkbox"/> Wolfe     |                                               |                                            |
|             | <input checked="" type="checkbox"/> Harrison | <input checked="" type="checkbox"/> Jack       | <input checked="" type="checkbox"/> Lonney  | <input checked="" type="checkbox"/> Davis     |                                               |                                            |
| Day Oper.   | <input type="checkbox"/> Donatto             | <input type="checkbox"/> Grace                 | <input type="checkbox"/> Johnson            | <input checked="" type="checkbox"/> Simonson  | <input type="checkbox"/> Vavasseur            |                                            |
| Loaders     | <input type="checkbox"/> Armand              | <input type="checkbox"/> Doucet                |                                             |                                               |                                               |                                            |
| Instruments | <input type="checkbox"/> Neyland             | <input type="checkbox"/> Shanklin              |                                             |                                               |                                               |                                            |

DO A 032023  
CONFIDENTIAL

**TOPIC: METHYLENE CHLORIDE --- AMYLENE INHIBITED**

**TO: OPERATIONS**

**cc: Julie Clebert**

**FROM: TERRY VAVASSEUR**

**DATE: 04/21/95**

The lab is setup to analyze Methylene Chloride with Amylene as the inhibitor. We will log the sample into the Lab Computer using sample code #53. The appropriate test and specifications are assigned. The main thing to keep in mind is that the GC analysis is ran on channel 1 (M3 GC) not channel 3. I have modified the autosampler so that when we run a Methylene sample after a Chloroform sample there is no cross contamination of products.

When logging in a Methylene sample please indicate the tank ID by using the LOT entry. This way we can use one code for all tanks until we make a complete swap to all amylene inhibited product.

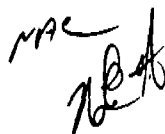
If anyone should have a problem with this analysis please give me a call.

Thanks,

Terry V.

*Note: No Hexane Add.T.m needed.*

*Could not find a cover sheet. Initial below!*



DO A 032024  
CONFIDENTIAL

THE DOW CHEMICAL COMPANY

QUALITY ASSURANCE OFFICE

PRODUCTION SPECIFICATION

1. DATE: 11-20-75

PAGE: 01

PRODUCT: T-103 SAG: 821 EFFECTIVE 17 APR 75 SUPERSEDES '06 MAR '75

NAME: METHYLENE CHLORIDE, TECHNICAL - E

CHEMICAL NAME:

DICHLOROMETHANE

DESCRIPTION: NON-FLAMMABLE, VOLATILE, AND COLORLESS LIQUID, FREE OF SEDIMENT AND SUSPENDED MATTER.

OLD SPEC: OLD: ASTM D-4701 (REPLACES MIL-C 6998)

MODIFY REASON:  
PURPOSE

OF TA  
EN

10  
18

| REQUIREMENTS            |              |       |                    |
|-------------------------|--------------|-------|--------------------|
| TEST                    | LIMIT        | UNIT  | METHOD             |
| REL. DENSITY            | 75 MAX       | PPM   | ASTM E-203         |
| WATER                   | 5 MAX        |       | ASTM D-2109        |
| ACIDITY (NORMALITY)     | 7 MAX        | PPM   | ASTM D-2109-6      |
| ALKALINITY (NORMALITY)  | 5 MAX        | PPM   | ASTM D-2109-6      |
| FREE HYDROXYL           | NONE BY TEST |       | 395900             |
| BOILING POINT           | 5 MIN        | WT %  | GAS CHROMATOGRAPHY |
| REFRACTIVE INDEX (20°C) | 39.0-39.0    | DEG C | ASTM D-1073        |
| WATER (25/25°C) (AUDIT) | 4.312-4.321  |       | ASTM D-2111A/C     |
| CHLOROFORM              | 100 MAX      | PPM   | GC                 |
| 1,2-DICHLOROETHYLENE    | 200 MAX      | PPM   | GC                 |
| METHYLENE CHLORIDE      | 100 MAX      | PPM   | GC                 |
| ETHYL CHLORIDE          | 100 MAX      | PPM   | GC                 |
| METHYL CHLORIDE         | 20 MAX       | PPM   | GC                 |

TRADEMARK OF THE DOW CHEMICAL COMPANY

\*\*\* DOW CONFIDENTIAL \*\*\* ANOTHER PAGE FOLLOWS

DO A 032025  
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THE DOW CHEMICAL COMPANY  
PRODUCTION SPECIFICATION

QUALITY ASSURANCE OFFICE  
PAGE 02

SUBJECT: 75593 (CONTINUED)

NAME: NETHYLENE CHLORIDE, TECHNICAL - E

REQUIREMENTS (CONTINUED)

| ITEM                                                            | LIMIT     | UNIT | METHOD |
|-----------------------------------------------------------------|-----------|------|--------|
| WATER                                                           | 10 MAX    | PPM  | GC     |
| INHIBITOR (1): REGULAR<br>GRADE-AMYLENE (2-METHYL-<br>BUTENE-2) | 40 - 60   | PPM  | GC     |
| 1,1-DICHLOROETHYLENE                                            | 200 - 400 | PPM  | GC     |
| 1,1,2,2-TETRACHLOROETHANE                                       | 200 - 400 | PPM  | GC     |

COMPOSITION

| COMPONENT                 | AMOUNT | UNIT  | CAS NO.     |
|---------------------------|--------|-------|-------------|
| 1,1-DICHLOROETHYLENE      | 99.9   | WT %  | 000015-61-2 |
| 1,1,2,2-TETRACHLOROETHANE | 0.05   | % WT. | 000110-82-7 |
| 1,1,2,2-TETRACHLOROETHANE | 0.005  | % WT. | 000110-82-7 |
| 1,1,2,2-TETRACHLOROETHANE | 0.05   | % WT. | 000064-17-5 |

RAW MATERIALS

| COMPONENT          | AMOUNT | UNIT | RM SPEC    | CAS NO.     |
|--------------------|--------|------|------------|-------------|
| CHLORINE, LIQUID E |        |      | 16275-R003 | 007782-50-5 |
| ETHYLENE CHLORIDE  |        |      | 31092-R001 | 000074-87-7 |
| CYCLOHEXYL 99%     |        |      | 16596-R002 | 000110-82-7 |

1. INDICATES A TRADEMARK OF THE DOW CHEMICAL COMPANY

\*\*\* END OF CONFIDENTIAL \*\*\* ANOTHER PAGE FOLLOWS

DO A 032026  
CONFIDENTIAL

QUALITY ASSURANCE OF FILE  
PAGE 03

MINISTRY OF DEFENSE TECHNICAL - E

RAW MATERIALS (CONTINUED)

AGENT

UNIT RM SPEC

CAS NO.

1. MYL ALCOHOL SDA 26

29239-R001 000044-17-5

## EXPERIMENTAL

552-2-R001 000513-35-0

## PRODUCTION NOTES

NOTE: 1. ONLY QUALITY PRODUCE ONLY QUALITY STABILIZED MATERIAL.  
2. AFTER 1000 HOURS OF USE, SEE PRODUCT CODE 55570 FOR CYCLOHEXANONE  
3. 1000 HOURS OF USE

1. The first step in the process of identifying a problem is to define the problem clearly. This involves identifying the symptoms of the problem and determining the scope of the problem. Once the problem has been defined, the next step is to identify the causes of the problem. This involves identifying the factors that are contributing to the problem and determining the underlying causes of the problem. Once the causes of the problem have been identified, the next step is to develop a plan to address the problem. This involves identifying the actions that need to be taken to address the problem and determining the resources that will be needed to implement the plan. Once a plan has been developed, the next step is to implement the plan. This involves taking the actions that have been identified in the plan and putting them into practice. Finally, the last step in the process is to evaluate the results of the plan. This involves determining whether the plan has been successful in addressing the problem and identifying any areas that need further improvement.

1. TEXAS, PRODUCING FREE IN SEP 84 TO AND TEXAS AS A PRODUCING POINT.  
2. TEXAS, PRODUCING FREE IN SEP 84 TO AND TEXAS AS A PRODUCING POINT.  
3. TEXAS, PRODUCING FREE IN SEP 84 TO AND TEXAS AS A PRODUCING POINT.  
4. TEXAS, PRODUCING FREE IN SEP 84 TO AND TEXAS AS A PRODUCING POINT.  
5. TEXAS, PRODUCING FREE IN SEP 84 TO AND TEXAS AS A PRODUCING POINT.  
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8. TEXAS, PRODUCING FREE IN SEP 84 TO AND TEXAS AS A PRODUCING POINT.  
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10. TEXAS, PRODUCING FREE IN SEP 84 TO AND TEXAS AS A PRODUCING POINT.

CONFIDENTIAL - SECURITY INFORMATION

CONFIDENTIAL

WAC.

67 MAR 95

[illegible]

6472

2.1.  $\mathcal{E}^{\text{reg}}$  is a  $\mathbb{Z}$ -module

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

704R

21 FEB 65

*Journal of Management Education* 30(6)

FOR THE UNITED STATES OF AMERICA:

40 Feb 1953

THE UNIVERSITY OF CHICAGO PRESS

PRODUCTION/QC TEX95

**Figure 1**

SECRET

PRE-LECTION/QC LAB

14 FEB 92

APPENDIX 5

· FULFILLION

DATE \_\_\_\_\_

: APPROVERS

## FUNCTION

24 25

PRODUCTS NOT MEETING THIS SPECIFICATION MUST NOT BE SHIPPED  
UNLESS AUTHORIZED BY SALES AND PRODUCTION MANAGEMENT

\* \* \* P C M C O N F I D E N T I A L \* \* \*

LAST PAGE

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Tue, Apr 18, 1995

FROM: Rizzo

SUBJECT: A Non Communique Training Records Form has been developed and placed in a ring binder on the bookshelf. The purpose of this form is to document training which isn't covered by IPT modules but is also too complicated for a simple communique.

When all required personnel have signed the form, place it my mailbox.

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

| GROUP            | PERSONS NEEDING TO REVIEW                                    |                           |                         |                               |                              |           |
|------------------|--------------------------------------------------------------|---------------------------|-------------------------|-------------------------------|------------------------------|-----------|
| Day Staff<br>X   | na Taylor<br>na Witt                                         | na McMurray<br>mg Young   | ___ Bourne<br>zn Michel | KA 5/3/8 Kelley<br>SI Clebert | YH 5/3/85 Haney<br>___ Rizzo | ML Ledoux |
| Supervisors<br>X | JR Cook J.                                                   | BL Dugas                  |                         |                               |                              |           |
| SOS's            | LB Breaux<br>W Grant                                         | BB Beiler<br>B Gravouilla | CG Bickham<br>K Jackson | FC Cook F.<br>RM Millender    | RC Cavalier<br>DM Metrejean  |           |
| OS's             | CB Bishop<br>DH Harrison                                     | JB Bourg<br>OJ Jack       | ES Ekey<br>JH Lonney    | W Wolfe<br>CA Davis           |                              |           |
| Day Oper.        | ___ Donatto ___ Grace ___ Johnson ___ Simonson ___ Vavasseur |                           |                         |                               |                              |           |
| Loaders          | ___ Armand ___ Doucet                                        |                           |                         |                               |                              |           |
| Instruments      | ___ Neyland ___ Shanklin                                     |                           |                         |                               |                              |           |

DO A 032028  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Thu, Apr 13, 1995

FROM: Rizzo

SUBJECT: Please review the following new procedures:

- \* C-204 Drain Procedure - # 460612
- \* E260 Start Up Procedure - #460613
- \* Meoh Barge Offloading Procedure - # 460614

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

| GROUP            | PERSONS NEEDING TO REVIEW                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Day Staff        | <input type="checkbox"/> Taylor <input type="checkbox"/> Miles <input type="checkbox"/> Bourne <input checked="" type="checkbox"/> Kelley <input type="checkbox"/> Haney <input checked="" type="checkbox"/> Ledoux<br><input type="checkbox"/> Witt <input type="checkbox"/> Young <input type="checkbox"/> Michel <input type="checkbox"/> Clebert <input type="checkbox"/> Rizzo                                                                            |
| Supervisors<br>X | <input checked="" type="checkbox"/> Cook J. <input checked="" type="checkbox"/> Dugas                                                                                                                                                                                                                                                                                                                                                                          |
| SOS's<br>X       | <input checked="" type="checkbox"/> Breaux <input checked="" type="checkbox"/> Beiler <input checked="" type="checkbox"/> Bickham <input checked="" type="checkbox"/> Cook F. <input checked="" type="checkbox"/> Cavalier<br><input checked="" type="checkbox"/> Grant <input checked="" type="checkbox"/> Gravouilla <input checked="" type="checkbox"/> Jackson <input checked="" type="checkbox"/> Millender <input checked="" type="checkbox"/> Metrejean |
| OS's<br>X        | <input checked="" type="checkbox"/> Bishop <input checked="" type="checkbox"/> Bourg <input checked="" type="checkbox"/> Ekey <input checked="" type="checkbox"/> Wolfe<br><input checked="" type="checkbox"/> Harrison <input checked="" type="checkbox"/> Jack <input checked="" type="checkbox"/> Lonney <input type="checkbox"/> Davis                                                                                                                     |
| Day Oper.        | <input type="checkbox"/> Donatto <input type="checkbox"/> Grace <input type="checkbox"/> Johnson <input type="checkbox"/> Simonson <input type="checkbox"/> Vavasseur                                                                                                                                                                                                                                                                                          |
| Loaders          | <input type="checkbox"/> Armand <input type="checkbox"/> Doucet                                                                                                                                                                                                                                                                                                                                                                                                |
| Instruments      | <input type="checkbox"/> Neyland <input type="checkbox"/> Shanklin                                                                                                                                                                                                                                                                                                                                                                                             |

DO A 032029  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: 4/13, 1995

FROM: Kevin Kelley

SUBJECT: Temporary Demister Pool at E-455

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

| GROUP       | PERSONS NEEDING TO REVIEW                                   |                                                               |                                                            |                                                              |                                                              |
|-------------|-------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|
| Day Staff   | <input checked="" type="checkbox"/> Taylor <u>4/13/95</u>   | <input checked="" type="checkbox"/> Mites <u>4/21/95</u>      | <input checked="" type="checkbox"/> Bourne <u>4/13/95</u>  | <input checked="" type="checkbox"/> Kelley <u>4/13/95</u>    | <input checked="" type="checkbox"/> Haney <u>4/13/95</u>     |
|             | <input checked="" type="checkbox"/> Witt <u>4/20/95</u>     | <input checked="" type="checkbox"/> Young <u>4/20/95</u>      | <input checked="" type="checkbox"/> Michel <u>4/13/95</u>  | <input checked="" type="checkbox"/> Clebert <u>4/13/95</u>   | <input checked="" type="checkbox"/> Rizzo <u>4/13/95</u>     |
| Supervisors | <input checked="" type="checkbox"/> Cook J. <u>4/13/95</u>  | <input checked="" type="checkbox"/> Dugas <u>4/13/95</u>      |                                                            |                                                              |                                                              |
| SOS's       | <input checked="" type="checkbox"/> Breaux <u>4/13/95</u>   | <input checked="" type="checkbox"/> Beiler <u>4/13/95</u>     | <input checked="" type="checkbox"/> Bickham <u>4/13/95</u> | <input checked="" type="checkbox"/> Cook F. <u>4/13/95</u>   | <input checked="" type="checkbox"/> Cavalier <u>4/13/95</u>  |
|             | <input checked="" type="checkbox"/> Grant <u>4/13/95</u>    | <input checked="" type="checkbox"/> Gravouilla <u>4/13/95</u> | <input checked="" type="checkbox"/> Jackson <u>4/13/95</u> | <input checked="" type="checkbox"/> Millender <u>4/13/95</u> | <input checked="" type="checkbox"/> Metrejean <u>4/13/95</u> |
| OS's        | <input checked="" type="checkbox"/> Bishop <u>4/13/95</u>   | <input checked="" type="checkbox"/> Bourg <u>4/13/95</u>      | <input checked="" type="checkbox"/> Ekey <u>4/13/95</u>    | <input checked="" type="checkbox"/> Wolfe <u>4/13/95</u>     |                                                              |
|             | <input checked="" type="checkbox"/> Harrison <u>4/13/95</u> | <input checked="" type="checkbox"/> Jack <u>4/13/95</u>       | <input checked="" type="checkbox"/> Lonney <u>4/13/95</u>  | <input checked="" type="checkbox"/> Davis <u>4/13/95</u>     |                                                              |
| Day Oper.   | <input type="checkbox"/> Donatto                            | <input type="checkbox"/> Grace                                | <input type="checkbox"/> Johnson                           | <input type="checkbox"/> Simonson                            | <input type="checkbox"/> Vavasseur                           |
| Loaders     | <input type="checkbox"/> Armand                             | <input type="checkbox"/> Doucet                               |                                                            |                                                              |                                                              |
| struments   | <input type="checkbox"/> Neyland                            | <input type="checkbox"/> Shanklin                             |                                                            |                                                              |                                                              |

DO A 032030  
CONFIDENTIAL

E-455 Information

K. Kelley 4/15/95

To: Operations Staff

In an effort to address the fog & mist carry over problems with E-455, we're installing a temporary demister. It will be hooked to the outlet pipe to atmosphere, downstream of the C/V to atmosphere. It will be a polypropylene demister pad, 12" in diameter X 6" thick and will be installed in some PVC piping for the trial. We'll have some method of collecting the condensate from the demister (probably a bucket for the trial). Please make a round or two to the tank to check the system in the mornings while it vents to help determine if it's working.

Thanks

Keri Kelley

DO A 032031  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: April 11, 1995

FROM: Brian Donatto

SUBJECT: Emergency & Write up "Power Failure on L-44"

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

| GROUP          | PERSONS NEEDING TO REVIEW         |                                     |                                   |                                     |                                      |                       |  |  |
|----------------|-----------------------------------|-------------------------------------|-----------------------------------|-------------------------------------|--------------------------------------|-----------------------|--|--|
| Day Staff<br>✓ | <u>4/11/95</u> Taylor<br>Witt     | <u>6/21/95</u> Mites<br>Young       | <u>4/11/95</u> Bourne<br>Michel   | <u>4/11/95</u> Kelley<br>Clebert    | <u>4/11/95</u> Haney<br>Rizzo        | <u>4/11/95</u> Ledoux |  |  |
| Supervisors    | <u>4/11/95</u> Cook J.            | Dugas                               |                                   |                                     |                                      |                       |  |  |
| SOS's<br>✓     | <u>4/11/95</u> Breaux<br>Grant    | <u>4/11/95</u> Beiler<br>Gravouilla | <u>4/11/95</u> Bickham<br>Jackson | <u>4/11/95</u> Cook F.<br>Millender | <u>4/11/95</u> Cavalier<br>Metrejean |                       |  |  |
| OS's<br>✓      | <u>4/11/95</u> Bishop<br>Harrison | <u>4/11/95</u> Bourg<br>Jack        | <u>4/11/95</u> Ekey<br>Lonney     | <u>4/11/95</u> Wolfe<br>Davis       |                                      |                       |  |  |
| Day Oper.<br>✓ | <u>4/11/95</u> Donatto            | <u>4/11/95</u> Grace                | <u>4/11/95</u> Johnson            | <u>4/11/95</u> Simonson             | <u>4/11/95</u> Vavasseur             |                       |  |  |
| Loaders<br>✓   | <u>4/11/95</u> Armand             | <u>4/11/95</u> Doucet               |                                   |                                     |                                      |                       |  |  |
| Instruments    |                                   |                                     |                                   |                                     |                                      |                       |  |  |
|                |                                   | Neyland                             | Shanklin                          |                                     |                                      |                       |  |  |

DO A 032032  
CONFIDENTIAL

# CMP EMERGENCY DRILL

Drill Date 4/2/95

Record # 9

☒ Actual Emergency ☐ Emergency Drill

Safety Team Conducting Drill B Team

NOTE: The Safety Team must get Supervisor's approval to use an actual emergency to fulfill drill requirements.

Safety Team Working on Drill  
Date B Team

Drill Topic POWER FAILURE ON L-44

Personnel Involved In Drill:

List Names of People Responding to Drill Clarence Bickham, Richard Braaux, Dannis Wolfe, Emerson Bishop

List Groups Participating in Drill James Cook

Drill Critique (Give description of actions taken in response to the emergency and the deficiencies noted during the emergency.)

## DRILL SCENARIO

PARTIAL POWER FAILURE IN THE OLD PLANT AND BLOCK 43. L-44 DROPPED OFF LINE.

## EMERGENCY RESPONSE

Since this incident happened at 11:30 PM all personnel were accounted for in the control room. The spill alarm was not sounded nor was an announcement made. An assessment of the incident was made and people responded by swapping to the offline pumps which needed to run. C-201 bottoms pumps did not start and R-250 B was shut down. Acid had to be exported and procedure for exporting acid was followed. PSA-1760/1770 and the THROX shutdown. PSA-1760 did not swap to E-1760 run step and was swapped to that step. PSA-1770 swapped properly. Plant security responded and asked if there was a release or a possibility of a release. They asked us what could they help us with. We sent them to block 43 to check it out. The sprinkler system on T-514 had tripped but not T-511. The sprinkler was reset and the area checked out. All communications with Block 43 were lost. The supervision and engineer was notified and came out. All alarms on scam, Pics Vax, TDC, PDP 11 were checked and cleared if possible. Supervision then dropped TR-1 and closed 52-T crosstie for 480 volt. All of our flows came back and we were able to start the rest of our pumps and restart R-250 B, PSA-1760, and PSA-1770. Communications for Block 43 did not come back on and was started up the next morning. The THROX was started up.

# CMP EMERGENCY DRILL

Block 43 was checked by operators after inblock area was taken care of.

All alarms which was still on was rechecked. An alarm on Pics/Vax was then noticed for THROX first pass  
temperature-showing low. The temperature was too low to burn dry vents. A note was made of this.

While making rounds on PSA-1760 the next day the oil temperature was found to be high. Upon investigation it was found  
that the fan had tripped during the power failure. Reset it and everything was okay.

# CMP EMERGENCY DRILL

## Follow-Up Actions:

Action Power did not contact us. We had to contact them. Communicate the need for them to contact us in emergency situations.

Responsible (Name) Donnie/James Expected Completion Date: 4/21/95 Actual Completion Date: 4/4/95

Action Consider the fact that both P-204s and P-301 C&D are on the same feeder. Investigate separating these and initiate project to do so if necessary.

Responsible (Name) Stephen Ledoux Expected Completion Date: 5/31/95 Actual Completion Date: \_\_\_\_\_

Action Have T-511 sprinkler system checked and repaired as necessary.

Responsible (Name) Donnie/James Expected Completion Date: 4/5/95 Actual Completion Date: 4/3/95

Action \_\_\_\_\_

Responsible (Name) \_\_\_\_\_ Expected Completion Date: \_\_\_\_\_ Actual Completion Date: \_\_\_\_\_

Action \_\_\_\_\_

Responsible (Name) \_\_\_\_\_ Expected Completion Date: \_\_\_\_\_ Actual Completion Date: \_\_\_\_\_

Action \_\_\_\_\_

Responsible (Name) \_\_\_\_\_ Expected Completion Date: \_\_\_\_\_ Actual Completion Date: \_\_\_\_\_

Action \_\_\_\_\_

Responsible (Name) \_\_\_\_\_ Expected Completion Date: \_\_\_\_\_ Actual Completion Date: \_\_\_\_\_

Action \_\_\_\_\_

Responsible (Name) \_\_\_\_\_ Expected Completion Date: \_\_\_\_\_ Actual Completion Date: \_\_\_\_\_

DO A 032035  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: April 10, 1995

FROM: Brian Donatto

SUBJECT: I have attached a copy of an updated safety plan for the maintenance contractors association. Please review it and understand that we are not responsible for enforcing this plan but we need to encourage it. This is part of an ongoing effort to improve contractor effort safety. Please do your part by supporting and encouraging the plan.

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

| GROUP                                              | PERSONS NEEDING TO REVIEW                |                                  |                                   |                                  |                                   |                    |
|----------------------------------------------------|------------------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|--------------------|
| Day Staff<br><input checked="" type="checkbox"/>   | <u>4/10</u> Taylor<br>Witt               | <u>4/10</u> Miles<br>Young       | <u>4/10</u> Bourne<br>A.M. Michel | <u>4/10</u> Kelley<br>Clebert    | <u>4/10</u> Haney<br>Rizzo        | <u>4/10</u> Ledoux |
| Supervisors<br><input checked="" type="checkbox"/> | <u>4/10</u> Cook J. <u>4/10</u> Dugas    |                                  |                                   |                                  |                                   |                    |
| SOS's<br><input checked="" type="checkbox"/>       | <u>4/10</u> Breau<br>Grant               | <u>4/10</u> Beiler<br>Gravouilla | <u>4/10</u> Bickham<br>Jackson    | <u>4/10</u> Cook F.<br>Millender | <u>4/10</u> Cavalier<br>Metrejean |                    |
| OS's<br><input checked="" type="checkbox"/>        | <u>4/10</u> Bishop<br>Harrison           | <u>4/10</u> Bourg<br>Jack        | <u>4/10</u> Ekey<br>Lonney        | <u>4/10</u> Wolfe<br>Davis       |                                   |                    |
| Day Oper.<br><input checked="" type="checkbox"/>   | <u>4/10</u> Donatto                      | <u>4/10</u> Grace                | <u>4/10</u> Johnson               | <u>4/10</u> Simonson             | <u>4/10</u> Vavasseur             |                    |
| Loaders<br><input checked="" type="checkbox"/>     | <u>4/10</u> Armand <u>4/10</u> Doucet    |                                  |                                   |                                  |                                   |                    |
| Instruments                                        | <u>4/10</u> Neyland <u>4/10</u> Shanklin |                                  |                                   |                                  |                                   |                    |

DO A 032036  
CONFIDENTIAL

RECEIVED P494 3031 4/04/95 10:36  
U434031 398 4/04/95 10:35

TO : DONATIO U434031 039  
SOURCE : USIC P L (PAM) U433481 R4DECD  
DONATIO B D (BRIAN) (U434031 )(PLARM

FROM NAME: U433481 (U433481@LACSDC@MRGATE@USMV02)  
TO: SEE BELOW

THE MTA BAY (FINANCE CONTRACTOR'S ASSOCIATION (MCA) COMPANIES LISTED BELOW HAVE JUST BEGUN IMPLEMENTATION OF A UPDATED SAFETY PLAN FOR THEIR ORGANIZATION. THE 5 ELEMENTS OF THE PLAN ARE:

1. TRAIN SUPERVISORS ON EFFECTIVE SAFETY MEETINGS/COMMUNICATION.  
THIS INCLUDES PROVIDING SUPERVISION WITH A LIST OF THE IMPORTANT POINTS REQUIRED TO BE MADE FOR THE TOPIC BUT NOT A PRE-WRITTEN SCRIPT IN ORDER TO ENCOURAGE DISCUSSION OF THE TOPICS AS THEY RELATE TO THE CREW'S WORK RATHER THAN HAVING THEM READ ALOUD TO THEIR EMPLOYEES.
2. ENSURE EMPLOYEES KNOW THE RULES  
NEW PROCEDURES HAVE BEEN ISSUED TO ALL CONTRACTORS. THROUGH THE ABOVE TRAINING, THEY WILL BE SHOWN HOW TO USE THIS MANUAL TO FIND THEIR OWN ANSWERS TO QUESTIONS ABOUT SAFE JOB PERFORMANCE. THERE WILL ALSO BE TESTS ON MANY OF THE SUBJECTS INCLUDED IN THE MANUAL.
3. IMPROVE COMMUNICATION FOLLOW UP ON UNSAFE CONDITIONS AND INCIDENTS.  
THE UNSAFE CONDITION REPORTING HAS DECREASED RECENTLY. THE MCA WILL ACKNOWLEDGE EACH UNSAFE CONDITION REPORT RECEIVED IN AN EFFORT TO ENCOURAGE INCREASED PARTICIPATION. THEY WILL ALSO SET UP A COMPUTER TRACKING SYSTEM TO ENSURE COMPLETION OF FOLLOW UP ACTIONS ASSIGNED TO MCA COMPANIES IN ANY ACCIDENT INVESTIGATION. (THEY WILL HAVE ACCESS TO THE DIVISION WIDE INCIDENT DATABASE WHEN IT BECOMES AVAILABLE TO ACCOMPLISH THIS.)
4. COMMUNICATE EXPECTATIONS TO EMPLOYEES.  
THEY HAVE CHOSEN THE ACRONYM REACT TO OUTLINE THESE EXPECTATIONS. THIS STANDS FOR:  
R - READ AND KNOW THE SAFETY RULES FOR YOUR JOB  
E - EXPECT THE UNEXPECTED AND PLAN AHEAD  
  
A - AUDIT FOR HAZARDS CONTINUOUSLY  
C - COMMUNICATE ANY PROBLEMS OR CONCERNS  
T - THINK SAFETY FIRST AND ALWAYS
5. LEADERSHIP  
SUPERINTENDENTS WILL MEET WITH SUPERVISORS FOR ANY SAFETY INCIDENTS WHICH OCCUR IN THEIR AREA. THERE WILL BE ADDED FOLLOW UP ON THE WEEKLY SUPERINTENDENT PLANT SAFETY AUDITS FOR MEN/SUPERVISORS WILL BE AUDITING JOBS IN PROGRESS FOR

DO A 032037  
CONFIDENTIAL

HAZARD IDENTIFICATION AND ELIMINATION. ALL OSHA'S WILL BE REVIEWED BY CONTRACTOR MANAGEMENT (SITE AND ABOVE) WITH MAINTENANCE & CONSTRUCTION MANAGEMENT. PROGRESSIVE DISCIPLINE WILL BE APPLIED TO THOSE PERSONS OBSERVED WHO DO NOT COMPLY WITH STATE REQUIREMENTS (S&LP, REDBOOK, SAFE WORK PERMIT, ETC.)

1. COMPLETE A PRE-JOB HAZARD ASSESSMENT

IN ADDITION TO REVIEWING THE SAFE WORK PERMIT WITH THE CREW, THE PERMIT RECEIVER WILL COMPLETE A PRE-JOB HAZARD ASSESSMENT WITH THE CREW TO IDENTIFY ANY JOB SPECIFIC HAZARDS. THIS CONSISTS OF A FORM TO USE AS A PROMPT FOR THE CREW WHICH LEADS THEM THROUGH DISCUSSION OF POTENTIAL HAZARDS IN THE AREAS OF PPE TOOLS, HOUSEKEEPING, ELECTRICAL, LIFTING, AND OTHERS SUCH AS CLEARANCES, TWISTING MOTION, SHARP OBJECTS, AWKWARD BODY POSITION, ETC.

THE MOST SIGNIFICANT CHANGE THAT THE PLANTS WILL SEE IS A FEW EXTRA MINUTES BEING DEVOTED TO COMPLETION OF THE HAZARD ASSESSMENT. THIS AVERAGES ON THE ORDER OF 3 TO 6 MINUTES PER JOB BUT COULD BE LONGER ON LARGE JOBS OR THOSE WITH WHICH A LARGE NUMBER OF HAZARDS ARE ASSOCIATED. THIS TIME HOWEVER IS INSIGNIFICANT IF IT RESULTS IN A JOB IN WHICH NO ONE IS INJURED. DURING THE PILOT PHASE OF THE IMPLEMENTATION OF THE PLAN, THERE WERE MANY INSTANCES OF HAZARDS BEING IDENTIFIED DURING THE PRE-JOB HAZARD ASSESSMENT AND THEN SUBSEQUENTLY ELIMINATED OR REDUCED.

THIS IS A CONTRACTOR LED PROGRAM AND DOW IS NOT EXPECTED TO LEAD OR ENFORCE IT, ONLY TO ENCOURAGE IT. THE MAINTENANCE & CONSTRUCTION DEPARTMENT ALONG WITH THE MAINTENANCE STEERING TEAM WILL BE FOLLOWING THE PROGRAM PROGRESS TO ENSURE CONTRACTOR COMPLIANCE. YOUR SUPPORT CAN BE EXPRESSED TO THE CONTRACTORS BY SIMPLY ALLOWING THEM THE TIME TO PERFORM THE HAZARD ASSESSMENT AND PROVIDE THEM WITH IDENTIFIED CONCERNING PROCEDURES/ETC. THAT MIGHT BE IDENTIFIED THROUGH THE ASSESSMENT PROCESS AS BEING NEEDED TO MORE SAFELY COMPLETE THE JOB.

THIS PLAN HAS BEEN REVIEWED WITH AND SUPPORTED BY THE DIVISION RESOURCE STEERING TEAM AS WELL AS THE MAINTENANCE STEERING TEAM. YOU MAY HAVE RECEIVED ADDITIONAL INFORMATION OR COMMUNICATION CONCERNING THE PLAN FROM ONE OF THESE GROUPS. IF YOU HAVE ANY QUESTIONS OR WOULD LIKE ADDITIONAL INFORMATION, PLEASE FEEL FREE TO CALL ON ME.

THIS MESSAGE IS SIMPLY AN EFFORT TO COMMUNICATE TO YOU THE EFFORTS GOING ON TO IMPROVE CONTRACTOR SAFETY AND REQUIRE NO ACTION ON YOUR PART. IT MAY HELP YOU HOWEVER TO ANSWER QUESTIONS THAT MAY COME UP IN YOUR PLANT AS THIS PLAN IS BEING IMPLEMENTED.

THANK YOU FOR YOUR SUPPORT OF CONTRACTOR SAFETY IMPROVEMENT.

PAM L. USIE

SAFETY SUPERINTENDENT

FROM: USIE

\*PAM L. USIE, SAFETY SUPERINTENDENT, (504)353-8049\*

TO DISTRIBUTION LIST:

40247401BMQ,  
U43403101BMQ,  
U43284501BMQ,  
U43374301BMQ,  
U43058401BMQ,  
U43132701BMQ,  
U43308101BMQ,  
U27440001BMQ.

DO A 032038  
CONFIDENTIAL

RECEIVED R404 3032 4/04/95 16:58  
U434031 399 4/04/95 16:57

TO : DONATIO U434031 039  
SOURCE : USIL P L (PAM) U433481 MADECD  
DONATIO S D (BRIAN) (U434031 )(PLAUM

FROM: NAME U433401 (U433401PLACSDCQMPGATECDSMV02)  
TO: SEE BELOW

I JUST REALIZED THAT I NEGLECTED TO LIST THE MEMBER COMPANIES OF THE MAINTENANCE CONTRACTORS ASSOCIATION (MCA) WHO ARE INVOLVED IN THE IMPLEMENTATION OF THE MCA SAFETY PLAN, INCLUDING THE PRE-JOB HAZARD ASSESSMENTS. THESE CONTRACTORS ARE:

|                      |                      |
|----------------------|----------------------|
| CHRYSLER             | GENCO                |
| ART                  | ITC                  |
| J E SMITH            | NATIONAL MAINTENANCE |
| ALLFIELD & PLUM DALL | MEIRIN               |
| WATKINS              |                      |

FOR THIS CRITICAL FROM THE PREVIOUS MESSAGE.

PAUL L. WATT  
SAFETY SUPERINTENDENT  
FROM: USIL "PAUL L. WATT, SAFETY SUPERINTENDENT, (504)353-8049"

TO: DISTRIBUTION LIST:

U 1211481000,  
U 17403101000,  
U 11021501000,  
U 13374001000,  
U 17000401000,  
U 13132701000,  
U 13300001000,  
U 17400001000,  
U 11000001000,  
U 13000001000

C. W. H.  
1100 00 000000

(U433481 )(MADECD -

DO A 032039  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: April 10, 1995

FROM: Brian Donatto

SUBJECT: Emergency Drill "Leak on T-1500 AOV to C-1510"

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

| GROUP            | PERSONS NEEDING TO REVIEW              |                                          |                                        |                                          |                                           |                 |
|------------------|----------------------------------------|------------------------------------------|----------------------------------------|------------------------------------------|-------------------------------------------|-----------------|
| Day Staff<br>✓   | <u>JD</u> Taylor<br>— Witt             | — Miles<br><u>YH</u> Young               | — Bourne<br><u>A.M.</u> Michel         | <u>KJ</u> Kelley<br><u>IV</u> Clebert    | <u>MA</u> Haney<br>— Rizzo                | <u>R</u> Ledoux |
| Supervisors<br>✓ | <u>LR</u> Cook J. <u>DR</u> Dugas      |                                          |                                        |                                          |                                           |                 |
| SOS's<br>✓       | — Breaux<br><u>a</u> Grant             | <u>BB</u> Beiler<br><u>DS</u> Gravouilla | <u>CP</u> Bickham<br><u>DS</u> Jackson | <u>FC</u> Cook F.<br><u>MA</u> Millender | <u>MA</u> Cavalier<br><u>DM</u> Metrejean |                 |
| OS's<br>✓        | <u>MB</u> Bishop<br><u>DR</u> Harrison | <u>JS</u> Bourg<br><u>OS</u> Jack        | <u>RS</u> Ekey<br><u>LR</u> Lonney     | <u>DW</u> Wolfe<br><u>CD</u> Davis       |                                           |                 |
| Day Oper.<br>✓   | <u>DD</u> Donatto                      | <u>HR</u> Grace                          | <u>QA</u> Johnson                      | <u>Z</u> Simonson                        | <u>IV</u> Vavasseur                       |                 |
| Loaders<br>✓     | <u>MA</u> Armand <u>LC</u> Doucet      |                                          |                                        |                                          |                                           |                 |
| Instruments      | — Neyland — Shanklin                   |                                          |                                        |                                          |                                           |                 |

# CMP EMERGENCY DRILL

Drill Date 3/31/95

Record # 7

☐ Actual Emergency ☒ Emergency Drill

Safety Team Conducting Drill F Team

NOTE: The Safety Team must get Supervisor's approval to use an actual emergency to fulfill drill requirements.

Safety Team Working on Drill  
Date A Team

Drill Topic LEAK SIMULATED ON T-1500 AOV TO C-1510 (valve boxed, difficult to operate)

Personnel Involved in Drill:

List Names of People Responding to Drill Freddie C., Brent B., Oliver J., Ron M., Darren M.,

List Groups Participating in Drill Barry Young-control room observer, Steve Ledoux-outside observer.

All Dow and contract personnel participated in drill.

Drill Critique (Give description of actions taken in response to the emergency and the deficiencies noted during the emergency.)

## BUILDING 4601

The head count from B-4601 was good with the exception of one day person not signed out. Their vehicle was not in the parking lot. Operations decided to assign a sweep team to search the block.

Several people drove into the block parking lot during the spill. All said they did not see the lights.

Some people were not signed in the book. Poor location of the books has been identified as contributing to the problems.

## BUILDING 4610

All persons were accounted for. Al Shanklin communicated with the control room within five minutes the status of the building.

Concern was raised on whether or not the warehouse or the trailer was searched.

## CONTROL ROOM

The control room did a great job in handling the spill. A simulated call to gate 1 was made with the proper information.

An announcement was made after the spill alarm had stopped sounding so that everyone could hear the announcement clearly. The SOS's received prompt assistance from operations personnel.

# CMP EMERGENCY DRILL

Ron gathered a headcount and Wayne came in the control room and assisted with answering the phones during the drill. Loading personnel shutdown loading and cocooned in the control room.

Darren assigned a sweep team to search for missing person. The sweep team immediately reviewed the block diagram and developed a sweep route. This is an excellent method to save time. Sweep team members took air packs searched spill areas and outlying areas.

O.J. and Brent checked wind directions and proceeded to examine the spill. They reviewed the piping and determined isolation would require a complete shutdown of C-1510. They immediately contacted the control room with their radio. The communication between the control room and the outside team was very good. They immediately proceeded to the control room to assist as needed.

Freddie and Darren reviewed the P&ID's and determined that R-1300 would have to be shutdown. They tripped R-1300 and brought down one R-250. Moments later they determined the other R-250 would have to come down.

Reviewed isolation and clearing of C-1510 and developed a plan of purging the leaking line with nitrogen and blowing the low points to T-1500.

After drill, we discussed other possibilities. One recommendation was to bring down R-1300 slowly by utilizing Step (109). This would allow you to bring down hydrochlorination more slowly.

This was a very challenging drill. The shift did an excellent job of identifying the necessary steps to successfully complete the drill.

# CMP EMERGENCY DRILL

## Follow-Up Actions:

Action Review the standard for emergency lights. The lights in our front parking lot are not easily noticed.

Replace the existing parking lot lights with more noticeable type.

Responsible (Name) Rodney Burris Expected Completion Date: 5/31/95 Actual Completion Date: \_\_\_\_\_

Action Add a sign-in board for all three office buildings in the block.

Responsible (Name) Stephen Ledoux Expected Completion Date: 5/31/95 Actual Completion Date: \_\_\_\_\_

Action Relocate the sign-in book in the main office building and the control room. Ensure adequate signs are located to ensure visitors sign-in.

Responsible (Name) Brian Donatto Expected Completion Date: 5/31/95 Actual Completion Date: \_\_\_\_\_

Action Install a reminder sheet next to the spill alarm to remind the boardman what to announce in the event of an emergency.

Responsible (Name) Donnie James Expected Completion Date: 6/30/95 Actual Completion Date: \_\_\_\_\_

Action Add to the responsibilities of the coordinator of building 4610 the sweep the trailer and the warehouse.

Responsible (Name) Brian Donatto Expected Completion Date: 5/31/95 Actual Completion Date: \_\_\_\_\_

Action Communicate with Power and Utilities that persons working in our block must follow our evacuation procedures.

Responsible (Name) Steve Ledoux Expected Completion Date: 4/28/95 Actual Completion Date: \_\_\_\_\_

Action \_\_\_\_\_

Responsible (Name) \_\_\_\_\_ Expected Completion Date: \_\_\_\_\_ Actual Completion Date: \_\_\_\_\_

Action \_\_\_\_\_

Responsible (Name) \_\_\_\_\_ Expected Completion Date: \_\_\_\_\_ Actual Completion Date: \_\_\_\_\_

DO A 032043  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Mon, Apr 10, 1995

FROM: Rizzo

SUBJECT: Microsoft Mail has been installed on the control room mac. To locate move the cursor to the apple icon located in the upper left hand corner of the screen. Depress the mouse key and scroll down to the microsoft mail item and then release the button.

Log on: type you last name, first name: (Rizzo, Gary)

Password: type "Welcome" Once on, change your password

Logoff: Go to the Mail option on the toolbar. Scroll down to Close and sign off, or depress the apple icon on the keyboard, located directly left of the space bar and depress the "Q" key. Both these function will logoff.

This form is used to insure the attached information is communicated to the appropriate plant personnel.

\*INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

| GROUP            | PERSONS NEEDING TO REVIEW  |                              |                           |                             |                             |                          |
|------------------|----------------------------|------------------------------|---------------------------|-----------------------------|-----------------------------|--------------------------|
| Day Staff<br>X   | <i>[initials]</i> Taylor   | ___ Miles                    | ___ Bourne                | <i>[initials]</i> Kelley    | <i>[initials]</i> Haney     | <i>[initials]</i> Ledoux |
|                  | ___ Witt                   | <i>[initials]</i> Young      | <i>[initials]</i> Michel  | <i>[initials]</i> Clebert   | ___ Rizzo                   |                          |
| Supervisors<br>X | <i>[initials]</i> Cook J.  | <i>[initials]</i> Dugas      |                           |                             |                             |                          |
| SOS's<br>X       | <i>[initials]</i> Breaux   | <i>[initials]</i> Beiler     | <i>[initials]</i> Bickham | <i>[initials]</i> Cook F.   | <i>[initials]</i> Cavalier  |                          |
|                  | <i>[initials]</i> Grant    | <i>[initials]</i> Gravouilla | <i>[initials]</i> Jackson | <i>[initials]</i> Millender | <i>[initials]</i> Metrejean |                          |
| OS's<br>X        | <i>[initials]</i> Bishop   | <i>[initials]</i> Bourg      | <i>[initials]</i> Ekey    | <i>[initials]</i> Wolfe     |                             |                          |
|                  | <i>[initials]</i> Harrison | <i>[initials]</i> Jack       | <i>[initials]</i> Lonney  | <i>[initials]</i> Davis     |                             |                          |
| Day Oper.<br>X   | <i>[initials]</i> Donatto  | <i>[initials]</i> Grace      | <i>[initials]</i> Johnson | <i>[initials]</i> Simonson  | <i>[initials]</i> Vavasseur |                          |
| Loaders<br>X     | <i>[initials]</i> Armand   | <i>[initials]</i> Doucet     |                           |                             |                             |                          |
| Instruments      |                            |                              |                           |                             |                             |                          |
|                  | ___ Neyland                | ___ Shanklin                 |                           |                             |                             |                          |

DO A 032044  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Mon, Apr 10, 1995

FROM: Rizzo

SUBJECT: Please review the attached sheet on the E-455 mod code changes.

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

| GROUP            | PERSONS NEEDING TO REVIEW                   |                                                |                                             |                                               |                                              |                                            |
|------------------|---------------------------------------------|------------------------------------------------|---------------------------------------------|-----------------------------------------------|----------------------------------------------|--------------------------------------------|
| Day Staff        | <input type="checkbox"/> Taylor             | <input type="checkbox"/> Miles                 | <input type="checkbox"/> Bourne             | <input checked="" type="checkbox"/> Kelley    | <input type="checkbox"/> Haney               | <input checked="" type="checkbox"/> Ledoux |
|                  | <input type="checkbox"/> Witt               | <input checked="" type="checkbox"/> Young      | <input type="checkbox"/> Michel             | <input type="checkbox"/> Clebert              | <input type="checkbox"/> Rizzo               |                                            |
| Supervisors<br>X | <input checked="" type="checkbox"/> Cook J. | <input checked="" type="checkbox"/> Dugas      |                                             |                                               |                                              |                                            |
| SOS's<br>X       | <input checked="" type="checkbox"/> Breaux  | <input checked="" type="checkbox"/> Beiler     | <input checked="" type="checkbox"/> Bickham | <input checked="" type="checkbox"/> Cook F.   | <input checked="" type="checkbox"/> Cavalier |                                            |
|                  | <input checked="" type="checkbox"/> Grant   | <input checked="" type="checkbox"/> Gravouilla | <input checked="" type="checkbox"/> Jackson | <input checked="" type="checkbox"/> Millender | <input type="checkbox"/> Metrejean           |                                            |
| OS's             | <input type="checkbox"/> Bishop             | <input type="checkbox"/> Bourg                 | <input type="checkbox"/> Ekey               | <input checked="" type="checkbox"/> Wolfe     |                                              |                                            |
|                  | <input type="checkbox"/> Harrison           | <input type="checkbox"/> Jack                  | <input type="checkbox"/> Lonney             | <input checked="" type="checkbox"/> Davis     |                                              |                                            |
| Day Oper.        | <input type="checkbox"/> Donatto            | <input type="checkbox"/> Grace                 | <input type="checkbox"/> Johnson            | <input type="checkbox"/> Simonson             | <input type="checkbox"/> Vavasseur           |                                            |
| Loaders          | <input type="checkbox"/> Armand             | <input type="checkbox"/> Doucet                |                                             |                                               |                                              |                                            |
| Instruments      | <input type="checkbox"/> Neyland            | <input type="checkbox"/> Shanklin              |                                             |                                               |                                              |                                            |

DO A 032045  
CONFIDENTIAL



# CHLORINATED METHANES MOD V

## DESCRIPTION OF CHANGE



**A**

System

**E-455**

Equipment Number

**500**

Can

### AO(514)

Added code to the AO(514) that will place the control valve on a fixed position output at AP(528) setpoint if DC(1213) comes true and the actual N2 temperature, AI(512) is less than the operator entered setpoint, AK(552).

The controller will stay on fixed position control as long as AI(512) is less than the AK and a downward temperature for AI(512) isn't detected, indicated by DC(524) becoming true.

The purpose for these changes is an attempt to ensure that the temperature we read is more accurate.

### DK(640)

Added a delay timer on the Call DKZERO code for DK(640). The DK will autozero approx. 1 hour after the required conditions become true.

**See the following code**

DC(516), DC(517), DC(518)

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

Name & Initial

DATE: 4-9-, 1995

FROM: "B" Shift

SUBJECT: C-204 Drain line

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial once review is complete.

| GROUP            | PERSONS NEEDING TO REVIEW                      |                                              |                                               |                                              |                                              |                                           |  |  |
|------------------|------------------------------------------------|----------------------------------------------|-----------------------------------------------|----------------------------------------------|----------------------------------------------|-------------------------------------------|--|--|
| Staff            | <input type="checkbox"/> Taylor                | <input type="checkbox"/> Miles               | <input type="checkbox"/> Bourne               | <input checked="" type="checkbox"/> Kelley   | <input type="checkbox"/> Ledoux              | <input type="checkbox"/> Witt             |  |  |
| Supervisors      | <input type="checkbox"/> Clebert               | <input checked="" type="checkbox"/> Cook, J. | <input type="checkbox"/> Dugas                | <input checked="" type="checkbox"/> Michel   | <input type="checkbox"/> Rizzo               | <input type="checkbox"/> Sauls            |  |  |
|                  | <input type="checkbox"/> Trice                 | <input checked="" type="checkbox"/> Young    |                                               |                                              |                                              |                                           |  |  |
| SOS's<br>✓       | <input checked="" type="checkbox"/> Breaux     | <input checked="" type="checkbox"/> Beiler   | <input checked="" type="checkbox"/> Bickham   | <input checked="" type="checkbox"/> Cavalier | <input checked="" type="checkbox"/> Cook, F. | <input checked="" type="checkbox"/> Grant |  |  |
|                  | <input checked="" type="checkbox"/> Gravouilla | <input checked="" type="checkbox"/> Jackson  | <input checked="" type="checkbox"/> Metrejean | <input checked="" type="checkbox"/> Why?     |                                              |                                           |  |  |
| OS's<br>✓        | <input checked="" type="checkbox"/> Armand     | <input checked="" type="checkbox"/> Bishop   | <input checked="" type="checkbox"/> Bourg     | <input checked="" type="checkbox"/> Davis    | <input checked="" type="checkbox"/> Doucet   | <input checked="" type="checkbox"/> Ekey  |  |  |
|                  | <input checked="" type="checkbox"/> Harrison   | <input checked="" type="checkbox"/> Jack     | <input checked="" type="checkbox"/> Looney    | <input checked="" type="checkbox"/> Wolfe    |                                              |                                           |  |  |
| Day<br>Operators | <input type="checkbox"/> Donatto               | <input type="checkbox"/> Grace               | <input type="checkbox"/> Johnson              | <input type="checkbox"/> Simonson            | <input type="checkbox"/> Vavasseur           |                                           |  |  |
| Instruments      | <input type="checkbox"/> Burris                | <input type="checkbox"/> Neyland             | <input type="checkbox"/> Shanklin             |                                              |                                              |                                           |  |  |

C-204 Drain To T651:

4/9/95

C-204's existing drain line has been modified to drain C-204's bottoms to T651. This will eliminate the environmental hazard to the slab and trench to the zone.

A control valve AOV(1263) has been installed to aid in the draining operation. It is found in Group 107 slot 6.

Please read the procedure to drain. Walk out the line before you attempt to drain the column bottoms.

Thanks,

"B" Shift & Steve L.

**CMP PROCEDURE  
C-204 DRAIN PROCEDURE  
PROCEDURE #**

---

|                                        |                                                                                                               |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>PURPOSE</b>                         | To provide the operator with a document which will assist them in the draining of C-204.                      |
| <b>SCOPE</b>                           | To list the necessary steps required to safely and properly drain C-204.                                      |
| <b>RELATED PROCEDURES</b>              | NONE                                                                                                          |
| <b>DEFINITIONS</b>                     | NONE                                                                                                          |
| <b>SAFETY CONCERNS &amp; EQUIPMENT</b> | The automated drain valve will eliminate the risk of exposure to sulfuric acid while draining C-204.          |
| <b>ENVIRONMENTAL CONCERNS</b>          | The closed system of draining C-204 will eliminate emissions of methyl chloride.                              |
| <b>SPECIAL CONCERNS</b>                | Do not blow down the column for too long. If the column is blown down for too long, M1 can pressure up T-651. |

*Carry out this procedure once / Day  
on the night shift.*

*Shyl*

**C-204 DRAIN PROCEDURE**

---

**PROCEDURE**

| Step | Action                                                                                                                               |
|------|--------------------------------------------------------------------------------------------------------------------------------------|
| 1    | A reminder to drain C-204 is located on the inside round sheet.                                                                      |
| 2    | Go to group 107, slot 6 and open the control valve manually. Open the valve slowly. It will not be necessary to open the valve 100%. |
| 3    | Drain the column until either an increase in T-651 pressure is noted or a decrease in the M1 header pressure is noted.               |
| 4    | Once complete, place the valve in manual and closed. The operation of this valve will remain in manual.                              |

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

| <b>K: &amp; Initial</b>                                                                                  | <b>DATE:</b> <u>4/9</u> , 199 <u>5</u><br><b>FROM:</b> <u>DUGAS / COOK</u>                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SUBJECT:</b> <u>TDC ALARM SYSTEM</u>                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| This form is used to insure the attached information is communicated to the appropriate plant personnel. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>INITIATOR:</b> Place a check mark by the group(s) needing to review.                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>EMPLOYEE:</b> Please initial once review is complete.                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| GROUP                                                                                                    | PERSONS NEEDING TO REVIEW                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Staff</b>                                                                                             | <input type="checkbox"/> Taylor <input type="checkbox"/> Miles <input type="checkbox"/> Bourne <input checked="" type="checkbox"/> <sup>5/3/5</sup> Kelley <input checked="" type="checkbox"/> Ledoux <input type="checkbox"/> Witt                                                                                                                                                                                                                             |
| <b>Supervisors</b>                                                                                       | <input type="checkbox"/> Clebert <input checked="" type="checkbox"/> Cook, J. <input checked="" type="checkbox"/> Dugas <input type="checkbox"/> Michel <input type="checkbox"/> Rizzo <input type="checkbox"/> Sauls<br><input type="checkbox"/> Trice <input type="checkbox"/> Young                                                                                                                                                                          |
| <b>SOS's</b>                                                                                             | <input checked="" type="checkbox"/> Breaux <input checked="" type="checkbox"/> Beiler <input checked="" type="checkbox"/> Bickham <input checked="" type="checkbox"/> Cavalier <input checked="" type="checkbox"/> Cook, F. <input checked="" type="checkbox"/> Grant<br><input checked="" type="checkbox"/> Gravouilla <input checked="" type="checkbox"/> Jackson <input checked="" type="checkbox"/> Metrejean <input checked="" type="checkbox"/> Millender |
| <b>OS's</b>                                                                                              | <input type="checkbox"/> Armand <input type="checkbox"/> Bishop <input type="checkbox"/> Bourg <input type="checkbox"/> Davis <input type="checkbox"/> Doucet <input type="checkbox"/> Ekey<br><input type="checkbox"/> Harrison <input type="checkbox"/> Jack <input type="checkbox"/> Looney <input type="checkbox"/> Wolfe                                                                                                                                   |
| <b>Day Operators</b>                                                                                     | <input type="checkbox"/> Donatto <input type="checkbox"/> Grace <input type="checkbox"/> Johnson <input type="checkbox"/> Simonson <input type="checkbox"/> Vavasseur                                                                                                                                                                                                                                                                                           |
| <b>Instruments</b>                                                                                       | <input type="checkbox"/> Burris <input type="checkbox"/> Neyland <input type="checkbox"/> Shanklin                                                                                                                                                                                                                                                                                                                                                              |

## TDC ALARM SYSTEM CHANGES

---

The proper MOC's have been written and approved for the following:

1. K-213 suction & discharge pressure alarms and D-213 & S-213 level alarms have been deleted from the alarm groups.
2. K-1002A & B hi/low amps alarms and R-750 liquid feed flow alarm have been changed to deviation alarms. The MOC limits have been updated in the blue book. The amps alarms for P1A & B have also been added to the book (also deviation alarms). This will allow for the alarm on the off-line pump or compressor to remain enabled and be cleared simply by setting the setpoint value to zero. The same holds true for the liquid feed - when the setpoint is at zero and the flow is at zero, there is no active alarm.
3. We will now be able to disable the hi/low pressure and surge flow alarms for the air compressor which is not on-line. When these alarms are disabled, leave a note in the log book. These alarms, along with the startup flows on the R-250's, are the only alarms which may be disabled without the necessity of a new MOC being written.

DO A 032052  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

& Initial

DATE: 3/31/95, 199

FROM: Jim Honey

SUBJECT: PA Analyzer Concentration Alarms

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial once review is complete.

| GROUP         | PERSONS NEEDING TO REVIEW                                                  |                                                            |                                                            |                                                                             |                                                           |                                                        |  |  |
|---------------|----------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------|--|--|
| Staff         | <input checked="" type="checkbox"/> <u>DW</u> <sup>3/31/95</sup><br>Taylor | <input type="checkbox"/> Miles                             | <input type="checkbox"/> Bourne                            | <input checked="" type="checkbox"/> <u>Jon</u> <sup>3/31/95</sup><br>Kelley | <input checked="" type="checkbox"/> <u>HL</u><br>Ledoux   | <input type="checkbox"/> Witt                          |  |  |
| Supervisors   | <input checked="" type="checkbox"/> <u>JC</u><br>Clebert                   | <input checked="" type="checkbox"/> <u>JRC</u><br>Cook, J. | <input checked="" type="checkbox"/> <u>DRD</u><br>Dugas    | <input checked="" type="checkbox"/> <u>A.M.</u><br>Michel                   | <input type="checkbox"/> Rizzo                            | <input type="checkbox"/> Sauls                         |  |  |
|               | <input type="checkbox"/> Trice                                             | <input checked="" type="checkbox"/> <u>DM</u><br>Young     |                                                            |                                                                             |                                                           |                                                        |  |  |
| SOS's         | <input checked="" type="checkbox"/> <u>RLB</u><br>Breaux                   | <input checked="" type="checkbox"/> <u>JB</u><br>Beieler   | <input checked="" type="checkbox"/> <u>CF</u><br>Bickham   | <input checked="" type="checkbox"/> <u>MA</u><br>Cavalier                   | <input checked="" type="checkbox"/> <u>EC</u><br>Cook, F. | <input checked="" type="checkbox"/> <u>er</u><br>Grant |  |  |
|               | <input checked="" type="checkbox"/> <u>DD</u><br>Gravouilla                | <input checked="" type="checkbox"/> <u>BJ</u><br>Jackson   | <input checked="" type="checkbox"/> <u>DM</u><br>Metrejean | <input checked="" type="checkbox"/> <u>ELH</u><br>Millender                 |                                                           |                                                        |  |  |
| OS's          | <input checked="" type="checkbox"/> <u>RLB</u><br>Armand                   | <input checked="" type="checkbox"/> <u>LB</u><br>Bishop    | <input checked="" type="checkbox"/> <u>CB</u><br>Bourg     | <input checked="" type="checkbox"/> <u>CD</u><br>Davis                      | <input checked="" type="checkbox"/> <u>LEO</u><br>Doucet  | <input checked="" type="checkbox"/> <u>EF</u><br>Ekey  |  |  |
|               | <input checked="" type="checkbox"/> <u>DRH</u><br>Harrison                 | <input checked="" type="checkbox"/> <u>OS</u><br>Jack      | <input checked="" type="checkbox"/> <u>RL</u><br>Looney    | <input checked="" type="checkbox"/> <u>DW</u><br>Wolfe                      |                                                           |                                                        |  |  |
| Day Operators | <input type="checkbox"/> Donatto                                           | <input type="checkbox"/> Grace                             | <input type="checkbox"/> Johnson                           | <input checked="" type="checkbox"/> <u>RS</u><br>Simonson                   | <input type="checkbox"/> Vavasseur                        |                                                        |  |  |
| Instruments   | <input type="checkbox"/> Burris                                            | <input type="checkbox"/> Neyland                           | <input type="checkbox"/> Shanklin                          |                                                                             |                                                           |                                                        |  |  |

High and High-High PDP-11 alarms have been added to the PSA analyzer indications as follows:

PSA-1750

|                  | <u>HHI</u> | <u>HI</u> |
|------------------|------------|-----------|
| M3 Concentration | 250 ppm    | 100 ppm   |

PSA-1760

|                  |         |         |
|------------------|---------|---------|
| M2 Concentration | 250 ppm | 100 ppm |
|------------------|---------|---------|

PSA-1770

|                    |     |     |
|--------------------|-----|-----|
| M2 Concentration   | 250 | 100 |
| M3 Concentration   | 250 | 100 |
| M4 Concentration   | 250 | 100 |
| MeOH Concentration | 50  | 25  |

These alarms were added in order to predict PSA problems before a potential permit exceedance occurs. If any of these alarms turn out to be a nuisance, please let me know so that the limits can be adjusted.

Thanks,

Jim Harey

DO A 032054  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

| 1. w & Initial                                                                                           |                                                         | DATE: <u>3/31</u> , 199 <u>95</u>     |                                                                                            |
|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------|
|                                                                                                          |                                                         | FROM: <u>Pammy Young</u>              |                                                                                            |
| SUBJECT: <u>New Contractor Pre-Job Hazard Assessment Form</u>                                            |                                                         |                                       |                                                                                            |
| This form is used to insure the attached information is communicated to the appropriate plant personnel. |                                                         |                                       |                                                                                            |
| INITIATOR: Place a check mark by the group(s) needing to review.                                         |                                                         |                                       |                                                                                            |
| EMPLOYEE: Please initial once review is complete.                                                        |                                                         |                                       |                                                                                            |
| GROUP                                                                                                    | PERSONS NEEDING TO REVIEW                               |                                       |                                                                                            |
| Staff<br><input checked="" type="checkbox"/>                                                             | <u>DWT</u> 3/31/95<br><u>W</u> Taylor<br><u>W</u> Honey | <u>    </u> Miles                     | <u>    </u> Bourne <u>W</u> Kelley <u>W</u> Ledoux <u>    </u> Witt                        |
| Supervisors                                                                                              | <u>W</u> Clebert <u>W</u> Trice                         | <u>W</u> Cook, J. <u>W</u> Young      | <u>W</u> Dugas <u>W</u> Michel <u>    </u> Rizzo <u>    </u> Sauls                         |
| SOS's                                                                                                    | <u>W</u> Breaux <u>W</u> Gravouilla                     | <u>W</u> Beiler <u>W</u> Jackson      | <u>W</u> Bickham <u>W</u> Metrejean <u>W</u> Cavalier <u>W</u> Cook, F. <u>W</u> Grant     |
| OS's                                                                                                     | <u>W</u> Armand <u>W</u> Harrison                       | <u>W</u> Bishop <u>W</u> Jack         | <u>W</u> Bourg <u>W</u> Looney <u>W</u> Davis <u>W</u> Wolfe <u>W</u> Doucet <u>W</u> Ekey |
| Day Operators                                                                                            | <u>W</u> Donatto                                        | <u>W</u> Grace <u>W</u> Johnson       | <u>W</u> Simonson <u>W</u> Vavasseur                                                       |
| Instruments<br><input checked="" type="checkbox"/>                                                       | <u>    </u> Burris                                      | <u>    </u> Neyland <u>W</u> Shanklin |                                                                                            |

All Camp Employees

Please note the attached form that the maintenance folks will start using Monday. It will not require any work for us but we need to encourage and support the contractors as they implement the use of this form.

The way it should work is as follows:

- 1) after the permit is issued from Dow to a contractor (we still need to fulfill all requirements to issue the permit including a job site inspection) then
- 2) the contractor who accepted the permit will go to the job site ~~on~~ with all the crew members and fill out this form.

If you have any questions please see me.

Thanks,  
Barry

Conference Room

DO A 032057  
CONFIDENTIAL.

|                                                                                    |      |       |
|------------------------------------------------------------------------------------|------|-------|
| Foreman                                                                            | Area | Date  |
| Review the following with the work crew and check the items which apply to the job |      | Block |

|                          |          | Permits |   |     |                    |
|--------------------------|----------|---------|---|-----|--------------------|
|                          |          | Y       | N | N/A |                    |
| <input type="checkbox"/> | Cherokee |         |   |     | Required           |
| <input type="checkbox"/> | Gemco    |         |   |     | Reviewed w/crew    |
| <input type="checkbox"/> | HBT      |         |   |     | All conditions met |
|                          |          |         |   |     | Other _____        |

|                                   |            |          |            |                            |
|-----------------------------------|------------|----------|------------|----------------------------|
| <input type="checkbox"/> ITC      | <b>PPE</b> |          |            |                            |
|                                   | <b>Y</b>   | <b>N</b> | <b>N/A</b> |                            |
| <input type="checkbox"/> JE Merit |            |          |            | Available                  |
|                                   |            |          |            | Trained in use             |
| <input type="checkbox"/> NMC      |            |          |            | Inspected / good condition |
|                                   |            |          |            | Other                      |

|                          |          | Tools |   |     |                                 |
|--------------------------|----------|-------|---|-----|---------------------------------|
|                          |          | Y     | N | N/A |                                 |
| <input type="checkbox"/> | Petrin   |       |   |     | Proper tools for the job        |
| <input type="checkbox"/> | Westgate |       |   |     | Inspection prior to use         |
|                          |          |       |   |     | Qualifications (if appropriate) |
|                          |          |       |   |     | Other                           |

| Emergency |   |     |                         |
|-----------|---|-----|-------------------------|
| Y         | N | N/A |                         |
|           |   |     | Intercom location       |
|           |   |     | Safety shower / eyewash |
|           |   |     | Evacuation route        |
|           |   |     | Other                   |

| Housekeeping |   |     |                    |
|--------------|---|-----|--------------------|
| Y            | N | N/A |                    |
|              |   |     | Aisleways clear    |
|              |   |     | Trash containers   |
|              |   |     | Containers labeled |
|              |   |     | Other              |

| Access / Egress |   |     |                                                 |
|-----------------|---|-----|-------------------------------------------------|
| Y               | N | N/A |                                                 |
|                 |   |     | Scaffold (Properly inspected _____)             |
|                 |   |     | Ladder                                          |
|                 |   |     | Aerial lift                                     |
|                 |   |     | Personnel basket (Inspected and approved _____) |
|                 |   |     | Hoisting of tools                               |
|                 |   |     | Special provision                               |

| <b>Overhead work</b> |          |            |
|----------------------|----------|------------|
| <b>Y</b>             | <b>N</b> | <b>N/A</b> |
|                      |          | Barricades |
|                      |          | Signs      |
|                      |          | Hole cover |
|                      |          | Other      |

| Electrical |   |     |                               |
|------------|---|-----|-------------------------------|
| Y          | N | N/A |                               |
|            |   |     | GFCI test                     |
|            |   |     | Extension cord inspection     |
|            |   |     | On / near energized equipment |
|            |   |     | Procedure number _____        |
|            |   |     | Voltage level _____           |

|  |  |  |           |  |
|--|--|--|-----------|--|
|  |  |  | Qualified |  |
|  |  |  | Other     |  |

| Gaskets |   |                             |
|---------|---|-----------------------------|
| Y       | N | N/A                         |
|         |   | Asbestos containing gaskets |
|         |   | Properly disposed           |
|         |   | Other                       |

| <b>Lifting</b> |          |            |                                  |
|----------------|----------|------------|----------------------------------|
| <b>Y</b>       | <b>N</b> | <b>N/A</b> |                                  |
|                |          |            | Manual lifting ( Body position ) |
|                |          |            | Proper rigging practices         |
|                |          |            | Mechanical                       |
|                |          |            | Condition of equipment           |
|                |          |            | Other                            |

| Hazards |   |     |                                    |
|---------|---|-----|------------------------------------|
| Y       | N | N/A |                                    |
|         |   |     | Proper tool and material placement |
|         |   |     | Hot / cold surfaces or material    |
|         |   |     | Inadequate lighting                |
|         |   |     | Fall potential                     |
|         |   |     | Pinch points                       |
|         |   |     | Slip trip potential                |
|         |   |     | Tight clearances                   |
|         |   |     | Awkward body position              |
|         |   |     | Overextension                      |
|         |   |     | Sustained position                 |
|         |   |     | Repetitive motion                  |
|         |   |     | Twisting motions                   |
|         |   |     | Sharp objects                      |
|         |   |     | Other                              |

- R**ead and know the safety rules for your job
- E**xpect the unexpected and plan ahead
- A**udit for hazards continuously
- C**ommunicate any problems or concerns
- T**hink safety first always

**Attention Mail room:** Please route this form to **Chuck Giffin** at building **4109**

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

k. n & Initial

DATE: MARCH 23, 199 5

FROM: RUSSELL ARMSTRONG

SUBJECT: A TOTAL FREON CHARGE CALCULATION HAS BEEN ADDED ON THE GPI SYSTEM.

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial once review is complete.

| GROUP           | PERSONS NEEDING TO REVIEW                                                                                                                                                                    |                                                                |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Staff ✓         | <u>DW</u> 3/21/95 Taylor<br><u>TH</u> Haney                                                                                                                                                  | Miles Bourne <u>K</u> 5/3/95 Kelley <u>ST</u> Ledoux <u>WA</u> |
| Supervisors ✓   | <u>CR</u> Cook, J.<br><u>TR</u> Young                                                                                                                                                        | <u>DD</u> Dugas <u>A.M.</u> Michel Rizzo <u>SG</u> Segals      |
| SOS's ✓         | <u>RP</u> Breaux <u>BB</u> Beicler <u>CB</u> Bickham <u>MC</u> Cavalier <u>FC</u> Cook, F. <u>GR</u> Grant<br><u>DD</u> Gravouilla <u>KJ</u> Jackson <u>DM</u> Metrejean <u>RM</u> Millender |                                                                |
| OS's ✓          | <u>RA</u> Armand <u>CB</u> Bishop <u>JB</u> Bourg <u>CD</u> Davis <u>LD</u> Doucet <u>KE</u> Ekey<br><u>DEH</u> Harrison <u>OZ</u> Jack <u>LL</u> Looney <u>DW</u> Wolfe                     |                                                                |
| Day Operators ✓ | <u>DA</u> Donato <u>GL</u> Grace <u>JS</u> Johnson <u>SM</u> Simons <u>VA</u> Vavassori                                                                                                      |                                                                |
| Instruments     | <u>BR</u> Brubaker <u>NR</u> Norrington <u>SK</u> Shanklin                                                                                                                                   |                                                                |

## **Methanes MOC Communique'**

---

Date: 3/23/95  
To: [CMP Personnel]  
From: Russell Armstrong  
Subject: [Total freon charge calculation on the GPI system]

[Code has been added to the GPI system to calculate the total freon charge of the K-1100 refrigeration system. The output tag name for the calculation is PGM\_FREONTOTAL. The total charge has been added to the data history system in Section 7 (K-1100) Scheme 58 (Total R-22 Charge). The total charge has been added to the Display Graphics area of the GPI Operator Menu under Section 7(K-1100) Sheet 3(D-1150,D-1140,E-1130,D-1120,D-1110 & D-1100). The total freon charge is calculated in LBS.]

RPA

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

Re: *W & Initial*

DATE: 3-23, 199 5

FROM: Barry Young

SUBJECT: A new alarm [GPI-PDA-11 NSPS Failure] is on the system and alarms on the [alarm display only - GPE] when the GPI-PDA-11 NSPS program has failed. IF you get this alarm and the PICSVAX is down then you need to manually gather NSPS DATA. IF PICSVAX is running it will serve AS the backup to gather NSPS DATA.

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial once review is complete.

| GROUP            | PERSONS NEEDING TO REVIEW |                          |                           |                           |                            |                       |
|------------------|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|-----------------------|
| Staff<br>✓       | <u>3/23/95</u><br>Taylor  | _____ Miles              | _____ Bourne              | <u>5/3/95</u><br>Kelley   | _____ Ledoux               | _____ Witt            |
| Supervisors<br>✓ | <u>OK</u> Clebert         | <u>OK</u> Cook, J.       | <u>OK</u> Dugas           | _____ Michel              | _____ Rizzo                | _____ Sauls           |
| SOS's<br>✓       | <u>OK</u> Breaux          | <u>OK</u> Beiler         | <u>OK</u> Bickham         | <u>OK</u> Cavalier        | <u>FC</u> Cook, F.         | <u>OK</u> Grant       |
|                  | <u>OK</u> Gravouilla      | <u>OK</u> Jackson        | <u>OK</u> Metrejean       | <u>OK</u> Millender       |                            |                       |
| OS's             | <del>_____ Annand</del>   | <del>_____ Bishop</del>  | <del>_____ Bourg</del>    | <del>_____ Davis</del>    | <del>_____ Doucet</del>    | <del>_____ Ekoy</del> |
|                  | <del>_____ Harrison</del> | <del>_____ Jack</del>    | <del>_____ Looney</del>   | <del>_____ Wolfe</del>    |                            |                       |
| Day Operators    | <del>_____ Doratto</del>  | <u>OK</u> Grace          | <del>_____ Johnson</del>  | <del>_____ Simonsen</del> | <del>_____ Vayasseur</del> |                       |
| Instruments      | <del>_____ Burris</del>   | <del>_____ Neyland</del> | <del>_____ Shanklin</del> |                           |                            |                       |

Rev 11/4/94:jpw

DOW CONFIDENTIAL

DO A 032060  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Tue, Mar 21, 1995

FROM: Rizzo

SUBJECT: Please review the attached sheets for the K-1100 upload

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

| GROUP            | PERSONS NEEDING TO REVIEW                   |                                                |                                             |                                               |                                               |                                            |
|------------------|---------------------------------------------|------------------------------------------------|---------------------------------------------|-----------------------------------------------|-----------------------------------------------|--------------------------------------------|
| Day Staff        | <input type="checkbox"/> Taylor             | <input type="checkbox"/> Miles                 | <input type="checkbox"/> Bourne             | <input checked="" type="checkbox"/> Kelley    | <input checked="" type="checkbox"/> Haney     | <input checked="" type="checkbox"/> Ledoux |
|                  | <input type="checkbox"/> Witt               | <input checked="" type="checkbox"/> Young      | <input type="checkbox"/> Michel             | <input type="checkbox"/> Clebert              | <input type="checkbox"/> Rizzo                |                                            |
| Supervisors<br>X | <input checked="" type="checkbox"/> Cook J. | <input checked="" type="checkbox"/> Dugas      |                                             |                                               |                                               |                                            |
| SOS's<br>X       | <input checked="" type="checkbox"/> Breaux  | <input checked="" type="checkbox"/> Beiler     | <input checked="" type="checkbox"/> Bickham | <input checked="" type="checkbox"/> Cook F.   | <input checked="" type="checkbox"/> Cavalier  |                                            |
|                  | <input checked="" type="checkbox"/> Grant   | <input checked="" type="checkbox"/> Gravouilla | <input checked="" type="checkbox"/> Jackson | <input checked="" type="checkbox"/> Millender | <input checked="" type="checkbox"/> Meterjean |                                            |
| OS's             | <input type="checkbox"/> Armand             | <input type="checkbox"/> Bishop                | <input type="checkbox"/> Bourg              | <input checked="" type="checkbox"/> Ekey      | <input checked="" type="checkbox"/> Doucet    |                                            |
|                  | <input type="checkbox"/> Harrison           | <input type="checkbox"/> Jack                  | <input checked="" type="checkbox"/> Lonney  | <input checked="" type="checkbox"/> Davis     | <input type="checkbox"/> Wolfe                |                                            |
| Day Oper.        | <input type="checkbox"/> Donatto            | <input type="checkbox"/> Grace                 | <input type="checkbox"/> Johnson            | <input checked="" type="checkbox"/> Simonson  | <input type="checkbox"/> Vavasseur            |                                            |
| Instruments      | <input type="checkbox"/> Neyland            | <input type="checkbox"/> Shanklin              |                                             |                                               |                                               |                                            |

DO A 032061  
CONFIDENTIAL

The following list comprises the work logic to be incorporated into the next upload schedule for Tuesday March the 1st. Please look over the list.

1. -1100:

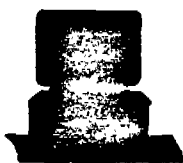
a. Transmitter failure logic for the temperatures, pressures and flows in each stage has been modified to provide the necessary fault tolerant logic in case of transmitter upset due to an incorrect input signal. Each transmitter now maintains a raw signal 'tracker' AIC() which will be used in the PIC VAX program for -1100. In the event a transmitter fails, the last good value will be sent to the PIC VAX.

b. Each stage will now have three pressure indications. These indications will either be supplied by an actual pressure transmitter or a calculated pressure from the output of the prior and following stage. Transmitter abort (FAIL) logic was added to ensure all three indications are not taken out of service at the same time. A middle select for the three indications will be used for pressure calculations or both the top and the PIC VAX. If one of the indications is not in service, the highest of the two remaining will be selected.  
or

c. The PIC VAX program for -1100 was modified to accept the tracked AIC() signal from the output of the raw input. This information is provided to guard against using an incorrect field indication in the calculations performed by the PIC VAX.

10  
072773

upload complete  
3/21/95



# CHLORINATED METHANES MOD V

## DESCRIPTION OF CHANGE

**B**

System

**R-1300**

Equipment Number

**100**

Can

**WARN(106)**

Added DC(1414) to warn(106). DC(1414) detects if a high rate of change occurs in any of the three bed sections. At present, the rate of change time frame is set at a 5 minute interval. If the rate of change of any of the 3 bed sections exceeds the value set by AP(1641/1642/1643), the alarm will activate. (See Alarm(106) code)

To determine the rate of change for the 3 bed section temperatures a stack consisting of 5 aco's was written for each section.

The upper section uses ACO(601) - ACO(606)

The middle section uses ACO(607) - ACO(612)

The lower section uses ACO(613) - ACO(618)

ACO'S were used in this code primarily because we don't have enough ac's left for system B.

The way the stack works is that when the DC() timer for each section becomes true the ACO'S value advances up one.

**EXAMPLE:**

When ever the DC() timer becomes true, the value that was in the first aco goes to the 2nd ACO, the value in the 2nd goes to the 3rd and so on, to a maximum of 5 ACO'S. This is a continual loop.

| ACO(605) | ACO(604) | ACO(603) | ACO(602) | ACO(601) | AC(1181) |
|----------|----------|----------|----------|----------|----------|
| 450      | 450      | 450      | 450      | 450      | 450      |
| 450      | 450      | 450      | 450      | 450      | 440      |
| 450      | 450      | 450      | 450      | 440      | 437      |
| 450      | 450      | 450      | 440      | 437      | 435      |
| 450      | 450      | 440      | 437      | 435      | 433      |
| 450      | 440      | 437      | 435      | 433      | 431      |
| 440      | 437      | 435      | 433      | 431      | 430      |



# CHLORINATED METHANES MOD V

## DESCRIPTION OF CHANGE



**B**

System

**R-1300**

Equipment Number

**100**

Can

A high rate of change may suggest too fast of an increase in M1/M2 recycle.

Once detected, DM(107) will be used to clear the DC.

There is no automatic action taken by this alarm.

### Warn(138)

DC(1415) was added to this alarm. DC(1415) detects when AI(126/146) reach a maximum flow output as set by AP(1644). Once activated, the alarm will stay on as long as the AI/s are above the unlatch setpoint AC(982).

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

Review & Initial

DATE: 3/21, 199 5

FROM: S. LEDOUX

SUBJECT: Throx Condensate

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial once review is complete.

| GROUP                                              | PERSONS NEEDING TO REVIEW            |                    |                     |                     |                                      |                  |      |  |
|----------------------------------------------------|--------------------------------------|--------------------|---------------------|---------------------|--------------------------------------|------------------|------|--|
| Staff<br><input checked="" type="checkbox"/>       | <u>DW</u> 3/21/95<br><u>SL</u> Harey | Taylor             | Miles               | Bourne              | <u>K</u> 3/21/95<br><u>SL</u> Kelley | <u>SL</u> Ledoux | Witt |  |
| Supervisors<br><input checked="" type="checkbox"/> | <u>SL</u> Clebert                    | <u>SL</u> Cook, J. | <u>SL</u> Dugas     | <u>AM</u> Michel    | Rizzo                                | Sauls            |      |  |
|                                                    | Trice                                | <u>SL</u> Young    |                     |                     |                                      |                  |      |  |
| SOS's<br><input checked="" type="checkbox"/>       | <u>SL</u> Breaux                     | <u>SL</u> Beiler   | <u>SL</u> Bickham   | <u>SL</u> Cavalier  | <u>SL</u> Cook, F.                   | <u>SL</u> Grant  |      |  |
|                                                    | <u>D. S.</u> Gravouilla              | <u>SL</u> Jackson  | <u>SL</u> Metrejean | <u>SL</u> Millender |                                      |                  |      |  |
| OS's<br><input checked="" type="checkbox"/>        | <u>SL</u> Armand                     | <u>SL</u> Bishop   | <u>SL</u> Bourg     | <u>SL</u> Davis     | <u>SL</u> Doucet                     | <u>SL</u> Ekey   |      |  |
|                                                    | <u>SL</u> Harrison                   | <u>SL</u> Jack     | <u>SL</u> Looney    | <u>SL</u> Wolfe     |                                      |                  |      |  |
| Day Operators                                      | Donatto                              | Grace              | Johnson             | Simonson            | Vavasseur                            |                  |      |  |
| Instruments                                        | Burris                               | Neyland            | Shanklin            |                     |                                      |                  |      |  |

To: CMP Personnel  
From: Steve Ledoux  
Subject: R-750 Blowdown

3/21/95

Betz requests we only blowdown the boiler, R-750, once per week. We must blowdown the boiler every Saturday morning. Ask if you have any question. The round sheets will be modified soon with the change.

---

Thanks,



DO A 032066  
CONFIDENTIAL

**BETZ**

Water Management Group

**SYSTEM REVIEW**

Customer: Dow Chemical Co.  
Address: Plaquemine, LA.  
System: CMP Boilers

Date: March 17, 1995  
Cust. No. 16449  
Reported To: D. Taylor, S. LeD ux  
B. Miles, Operations

| Tests        | Test Results |       |       |  |  | Control Limits |         |        |
|--------------|--------------|-------|-------|--|--|----------------|---------|--------|
|              | BFW          | Throx | E-480 |  |  | BFW            | Throx   |        |
| pH           |              | 10.7  | 10.1  |  |  | 8.5-10         | 10-11.5 | 9-10.5 |
| Conductivity |              | 400   | 160   |  |  | 10-20          | 400-800 |        |
| Sulfite      |              | 47    | 15    |  |  |                | 20-40   | 10-20  |
| Phosphate    |              | 34    | 11    |  |  |                | 20-40   | 10-20  |
|              |              |       |       |  |  |                |         |        |
|              |              |       |       |  |  |                |         |        |
|              |              |       |       |  |  |                |         |        |

BP50716 (Tank #920443) Inventory: 600 gallons  
GCP-187 (Tank #6221) 135 gallons

Feedrate: 1.2 GPD  
0 GPD

Comments:

1. Boiler chemistry in the Throx Boiler is good today, control parameters are at or near target levels.
2. Inventory of BP 50716 is adequate.
3. We are planning to reduce the number of manual blowdowns performed on the steam generators. Be sure to make note of any changes in the blowdown schedule. We anticipate a reduction to 1 manual blowdown per week.

Thank you,

*Bob Henke*

Steve,

I've checked with Doyle and in the older files I haven't been able to find any reason for daily blowdown. Recommend that you modify to 1 blowdown/week.

*Bob*

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Thu, Mar 16, 1995

FROM:

SUBJECT: Review the following procedures

Chlorine load change

R-1300 liquid injection after a system shutdown

R-1300 liquid injection start up

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

| GROUP       | PERSONS NEEDING TO REVIEW                   |                                                |                                             |                                               |                                                                                      |
|-------------|---------------------------------------------|------------------------------------------------|---------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------|
| Day Staff   | <input type="checkbox"/> Taylor             | <input type="checkbox"/> Miles                 | <input type="checkbox"/> Bourne             | <input checked="" type="checkbox"/> Kelley    | <input checked="" type="checkbox"/> Haney <input checked="" type="checkbox"/> Ledoux |
|             | <input type="checkbox"/> Witt               | <input checked="" type="checkbox"/> Young      | <input checked="" type="checkbox"/> Michel  | <input type="checkbox"/> Clebert              | <input type="checkbox"/> Rizzo                                                       |
| Supervisors |                                             |                                                |                                             |                                               |                                                                                      |
| X           | <input checked="" type="checkbox"/> Cook J. | <input checked="" type="checkbox"/> Dugas      |                                             |                                               |                                                                                      |
| SOS's       | <input checked="" type="checkbox"/> Breaux  | <input checked="" type="checkbox"/> Beiler     | <input checked="" type="checkbox"/> Bickham | <input checked="" type="checkbox"/> Cook F.   | <input checked="" type="checkbox"/> Cavalier                                         |
| X           | <input checked="" type="checkbox"/> Grant   | <input checked="" type="checkbox"/> Gravouilla | <input checked="" type="checkbox"/> Jackson | <input checked="" type="checkbox"/> Millender | <input checked="" type="checkbox"/> Meterjean                                        |
| OS's        | <input type="checkbox"/> Armand             | <input checked="" type="checkbox"/> Bishop     | <input type="checkbox"/> Bourg              | <input type="checkbox"/> Ekey                 | <input type="checkbox"/> Doucet                                                      |
|             | <input type="checkbox"/> Harrison           | <input type="checkbox"/> Jack                  | <input type="checkbox"/> Lonney             | <input checked="" type="checkbox"/> Davis     | <input type="checkbox"/> Wolfe                                                       |
| Day Oper.   | <input type="checkbox"/> Donatto            | <input type="checkbox"/> Grace                 | <input type="checkbox"/> Johnson            | <input type="checkbox"/> Simonson             | <input type="checkbox"/> Vavasseur                                                   |
| Instruments |                                             |                                                |                                             |                                               |                                                                                      |
|             | <input type="checkbox"/> Neyland            | <input type="checkbox"/> Shanklin              |                                             |                                               |                                                                                      |

DO A 032068  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Wed, Mar 15, 1995

FROM: Rizzo

SUBJECT: See the attached sheets indicating the changes that were made to system D, T-1830 and Alarm (324)

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

| GROUP            | PERSONS NEEDING TO REVIEW                   |                                                |                                             |                                               |                                               |                                            |
|------------------|---------------------------------------------|------------------------------------------------|---------------------------------------------|-----------------------------------------------|-----------------------------------------------|--------------------------------------------|
| Staff            | <input type="checkbox"/> Taylor             | <input checked="" type="checkbox"/> Miles      | <input type="checkbox"/> Bourne             | <input checked="" type="checkbox"/> Kelley    | <input checked="" type="checkbox"/> Haney     | <input checked="" type="checkbox"/> Ledoux |
|                  | <input type="checkbox"/> Witt               | <input checked="" type="checkbox"/> Young      |                                             |                                               |                                               |                                            |
| Supervisors<br>X | <input checked="" type="checkbox"/> Cook J. | <input checked="" type="checkbox"/> Dugas      | <input type="checkbox"/> Michel             | <input type="checkbox"/> Trice                | <input type="checkbox"/> Clebert              | <input type="checkbox"/> Rizzo             |
| SOS's<br>X       | <input checked="" type="checkbox"/> Breaux  | <input checked="" type="checkbox"/> Beiler     | <input checked="" type="checkbox"/> Bickham | <input checked="" type="checkbox"/> Cook F.   | <input checked="" type="checkbox"/> Cavalier  |                                            |
|                  | <input checked="" type="checkbox"/> Grant   | <input checked="" type="checkbox"/> Gravouilla | <input checked="" type="checkbox"/> Jackson | <input checked="" type="checkbox"/> Millender | <input checked="" type="checkbox"/> Meterjean |                                            |
| OS's             | <input checked="" type="checkbox"/> Armand  | <input type="checkbox"/> Bishop                | <input type="checkbox"/> Bourg              | <input type="checkbox"/> Ekey                 | <input checked="" type="checkbox"/> Doucet    |                                            |
|                  | <input type="checkbox"/> Harrison           | <input type="checkbox"/> Jack                  | <input type="checkbox"/> Lonney             | <input checked="" type="checkbox"/> Davis     | <input type="checkbox"/> Wolfe                |                                            |
| Day Oper.        | <input type="checkbox"/> Donatto            | <input type="checkbox"/> Grace                 | <input type="checkbox"/> Johnson            | <input type="checkbox"/> Simonson             | <input type="checkbox"/> Vavasseur            |                                            |
| Instruments      | <input type="checkbox"/> Neyland            | <input type="checkbox"/> Shanklin              |                                             |                                               |                                               |                                            |

DO A 032069  
CONFIDENTIAL



# *CHLORINATED METHANES MOD V*

## *DESCRIPTION OF CHANGE*



**D**

System

**T-1830**

Equipment Number

**400**

Can

### **AO(403)**

AO(403) control valve is replacing the AOV to the docks, DO(450/460).

DO(450) code was changed to DC(467). The code used to open DO(450) is now used as the enable code for AO(403).

When DC(467) is "TRUE" and if the control valve is less than the high limit setpoint, AP(467) the control valve, AO(403), will ramp open at a rate set by AP(483).

When DC(467) is "FALSE" and if the control valve, AO(403), is less than the low limit setpoint, AP(484) the valve will ramp closed at a rate set by AP(483).

### **DO(450/460)**

Deleted all reference to DO(450/460) code. Also deleted the digital abort code for DO(450/460). (DA(480), (380), (470) & (370))

### **Warn 480**

Changed DC(1148) code for Warn(480) from a DI/DO mismatch alarm for DO(450/460) and made it an AO/DI mismatch alarm . AO(403) / DI(450).

### **DK(162)**

Changed the Call DKZERO(DK(162) CODE. Took out reference to DO(450) and DO(460) and replaced with AO(403).

### **Warn (466) High High level T-1830**

There was a typo in this code which prevented the alarm from activating if the high pressure transmitter failure DC, DC(1006) for C-1550 was true. Replaced it with DC(1106), failure of T-1830 level transmitter AI(404).

### **UPDATED THE ALARM GRAPHICS**



# CHLORINATED METHANES MOD V

## DESCRIPTION OF CHANGE



D

System

C-1540

Equipment Number

300

Can

REQ(324)

This alarm will activate when the differential pressure, AI(336), for V-1540, gets greater than the high pressure setpoint, AP(1484). Once engaged the alarm will remain activated as long as the differential pressure is greater than the unlatch setpoint, AC(1443).

*Note: This is for the permanent filter that will be removed in the next few months.*

*Jim H.*

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

Review & Initial

DATE: 3/14, 199 5

FROM: S. Ledoux

SUBJECT: T-814

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial once review is complete.

| GROUP         | PERSONS NEEDING TO REVIEW                                                                                                                                                                                        |  |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Staff         | <u>AW</u> Taylor <u>    </u> Miles <u>    </u> Bourne <u>    </u> Kelley <u>    </u> Ledoux <u>    </u> Witt                                                                                                     |  |
| Supervisors   | <u>    </u> Clebert <u>    </u> Cook, J. <u>    </u> Dugas <u>    </u> Michel <u>    </u> Rizzo <u>    </u> Sauls<br><u>    </u> Trice <u>    </u> Young                                                         |  |
| SOS's         | <u>    </u> Breaux <u>    </u> Bejeler <u>    </u> Bickham <u>    </u> Cavalier <u>    </u> Cook, F. <u>    </u> Grant<br><u>    </u> Gravouilla <u>    </u> Jackson <u>    </u> Metrejean <u>    </u> Millender |  |
| OS's          | <u>    </u> Armand <u>    </u> Bishop <u>    </u> Bourg <u>    </u> Davis <u>    </u> Doucet <u>    </u> Ekey<br><u>    </u> Harrison <u>    </u> Jack <u>    </u> Looney <u>    </u> Wolfe                      |  |
| Day Operators | <u>    </u> Donatto <u>    </u> Grace <u>    </u> Johnson <u>    </u> Simonson <u>    </u> Vavasseur                                                                                                             |  |
| Instruments   | <u>    </u> Burris <u>    </u> Neyland <u>    </u> Shanklin                                                                                                                                                      |  |

**To: CMP Personnel**  
**From: Steve Ledoux**  
**Subject: T-814 Operation**

**3/14/95**

Do not add nitrogen in T-814 any longer. If we maintain at least a 25% level of M1 in the tank, nitrogen is not necessary. The NPSH for the pumps will be maintained above the minimum by maintaining the level. If the level is below 25% **do not** run the mag drive pump for any reason.

---

Thanks,

DO A 032073  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

Review & Initial

DATE: 3/13, 199 5

FROM: S. LEDOUX

SUBJECT: Zone Pumps

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial once review is complete.

| GROUP            | PERSONS NEEDING TO REVIEW |                     |                     |                     |                    |                 |
|------------------|---------------------------|---------------------|---------------------|---------------------|--------------------|-----------------|
| Staff<br>✓       | <u>DT</u> Taylor          | _____ Miles         | _____ Bourne        | <u>KV</u> Kelley    | <u>ML</u> Ledoux   | _____ Witt      |
| Supervisors<br>✓ | <u>Q</u> Clebert          | <u>JRC</u> Cook, J. | <u>DRD</u> Dugas    | <u>A.M.</u> Michel  | _____ Rizzo        | _____ Sauls     |
|                  | _____ Trice               | <u>BY</u> Young     |                     |                     |                    |                 |
| SOS's<br>✓       | <u>LB</u> Breaux          | <u>BB</u> Beiler    | <u>CF</u> Bickham   | <u>CC</u> Cavalier  | <u>FC</u> Cook, F. | <u>ac</u> Grant |
|                  | _____ Gravouilla          | <u>KA</u> Jackson   | <u>DM</u> Metrejean | <u>ZM</u> Millender |                    |                 |
| OS's<br>✓        | <u>MA</u> Armand          | <u>CB</u> Bishop    | <u>JS</u> Bourg     | <u>CD</u> Davis     | <u>LD</u> Doucet   | <u>EE</u> Ekey  |
|                  | <u>DR</u> Harrison        | <u>OS</u> Jack      | <u>PJJ</u> Looney   | <u>DW</u> Wolfe     |                    |                 |
| Day Operators    | _____ Donatto             | _____ Grace         | _____ Johnson       | _____ Simonson      | _____ Vavasseur    |                 |
| Instruments      | _____ Burris              | _____ Neyland       | _____ Shanklin      |                     |                    |                 |

To: CMP Personnel  
From: Steve Ledoux  
Subject: Zone pump modification

2/28/95

P-511B and P-531 pumps in Zone 1 have been modified with rubber bushings. The rubber bushings replace silicon carbide. We should get a longer life with the rubber material, but the problem will still exist. Please operate these pumps whenever possible over P-511A in order for us to get some run time with the new materials. Ensure operating parameters such as discharge pressure are all normal during operation.

---

Thanks,



DO A 032075  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

Review & Initial

DATE: 3-10, 199 5

FROM: Cook / Dugas

SUBJECT: After Hours (m.w.s. and Tools)

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial once review is complete.

| GROUP         | PERSONS NEEDING TO REVIEW |                     |                     |                     |                     |                 |  |
|---------------|---------------------------|---------------------|---------------------|---------------------|---------------------|-----------------|--|
| Staff         | <u>DT</u> Taylor          | <u>NA</u> Miles     | <u>NA</u> Bourne    | <u>RM</u> Kelley    | <u>KL</u> Ledoux    | <u>NA</u> Witt  |  |
|               | <u>SM</u> Harey           |                     |                     |                     |                     |                 |  |
| Supervisors   | <u>NA</u> Clebert         | <u>JRC</u> Cook, I. | <u>DD</u> Dugas     | <u>A.M.</u> Michel  | <u>NA</u> Rizzo     | <u>NA</u> Sauls |  |
|               | <u>NA</u> Trice           | <u>RM</u> Young     |                     |                     |                     |                 |  |
| SOS's         | <u>RM</u> Breaux          | <u>BB</u> Beiler    | <u>CP</u> Bickham   | <u>RC</u> Cavalier  | <u>FC</u> Cook, F.  | <u>u</u> Grant  |  |
|               | <u>DD</u> Gravouilla      | <u>RJ</u> Jackson   | <u>DM</u> Metrejean | <u>RM</u> Millender |                     |                 |  |
| OS's          | <u>NA</u> Armand          | <u>JB</u> Bishop    | <u>BB</u> Bourg     | <u>CD</u> Davis     | <u>148</u> Doucet   | <u>ES</u> Ekey  |  |
|               | <u>DD</u> Harrison        | <u>03</u> Jack      | <u>P11</u> Looney   | <u>DW</u> Wolfe     |                     |                 |  |
| Day Operators | <u>NA</u> Donatto         | <u>NA</u> Grace     | <u>NA</u> Johnson   | <u>NA</u> Simonson  | <u>NA</u> Vavasseur |                 |  |
| Instruments   | <u>NA</u> Burris          | <u>NA</u> Neyland   | <u>NA</u> Shanklin  |                     |                     |                 |  |

## Millwright Tool Availability

*James,  
Final. Please review  
with your shifts. There  
is a copy in callout book  
John*

In the past there have been several problems with millwrights having tools available to them for repairing pumps after normal working hours. These craftsmen work with Dow tools and are not allowed to bring their own tools into the division.

The following procedure will be used when millwrights are called out after normal hours.

### Vinyl 2

1. Contact Maintenance Supervisor using callout list.
2. Millwright tool lockers will be unlocked by Vinyl 2 operator. (Inform millwright to call Vinyl 2 control room to have shop area and tool locker inspected for housekeeping when job complete. When inspection is satisfactory to operator, tool cabinets will be locked and millwright released.)
3. While millwright is pulling pump in field, Inventory Management person should be contacted by using callout list. They should be here by the time the pump is disassembled.
4. All pump parts for Vinyl 2 are ordered from LHC #3 warehouse.

### Methanes

1. Contact Maintenance Supervisor using callout list.
2. Millwright tool lockers will be unlocked by Vinyl 2 operator at the Vinyl 2 shop. (Inform millwright to call Vinyl 2 control room to have shop area and tool locker inspected for housekeeping when job complete. When inspection is satisfactory to operator, tool cabinets will be locked and millwright released.)
3. While millwright is pulling pump in field, Inventory Management person should be contacted by using callout list. They should be here by the time the pump is disassembled.
4. All pump parts for Methanes are ordered from Cellulose warehouse. CMP will give the control room phone number to the millwright for any assistance they may need. Vinyl 2 will unlock, inspect, and lock tool area.

Any improvement to this procedure is welcomed. There is a phone list for callout numbers in respective control rooms.

John Meeker  
3/7/95

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

Review & Initial

DATE: 3/6, 199 5

FROM: Brian Donatto

SUBJECT: Safety Checks

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial once review is complete.

| GROUP         | PERSONS NEEDING TO REVIEW                      |                                              |                                               |                                               |                                              |                                           |
|---------------|------------------------------------------------|----------------------------------------------|-----------------------------------------------|-----------------------------------------------|----------------------------------------------|-------------------------------------------|
| Staff         | <input type="checkbox"/> Taylor                | <input type="checkbox"/> Miles               | <input type="checkbox"/> Bourne               | <input checked="" type="checkbox"/> Kelley    | <input checked="" type="checkbox"/> Ledoux   | <input type="checkbox"/> Witt             |
| Supervisors   | <input checked="" type="checkbox"/> Clebert    | <input checked="" type="checkbox"/> Cook, J. | <input checked="" type="checkbox"/> Dugas     | <input checked="" type="checkbox"/> Michel    | <input checked="" type="checkbox"/> Rizzo    | <input checked="" type="checkbox"/> Sauts |
|               | <input checked="" type="checkbox"/> Trice      | <input checked="" type="checkbox"/> Young    |                                               |                                               |                                              |                                           |
| SOS's         | <input checked="" type="checkbox"/> Breau      | <input checked="" type="checkbox"/> Beiler   | <input checked="" type="checkbox"/> Bickham   | <input checked="" type="checkbox"/> Cavalier  | <input checked="" type="checkbox"/> Cook, F. | <input checked="" type="checkbox"/> Grant |
|               | <input checked="" type="checkbox"/> Gravouilla | <input checked="" type="checkbox"/> Jackson  | <input checked="" type="checkbox"/> Metrejean | <input checked="" type="checkbox"/> Millender |                                              |                                           |
| OS's          | <input checked="" type="checkbox"/> Armand     | <input checked="" type="checkbox"/> Bishop   | <input checked="" type="checkbox"/> Bourg     | <input checked="" type="checkbox"/> Davis     | <input checked="" type="checkbox"/> Doucet   | <input checked="" type="checkbox"/> Ekey  |
|               | <input checked="" type="checkbox"/> Harrison   | <input checked="" type="checkbox"/> Jack     | <input checked="" type="checkbox"/> Looney    | <input checked="" type="checkbox"/> Wolfe     |                                              |                                           |
| Day Operators | <input type="checkbox"/> Donatto               | <input type="checkbox"/> Grace               | <input type="checkbox"/> Johnson              | <input type="checkbox"/> Simonson             | <input type="checkbox"/> Vavasseur           |                                           |
| Instruments   | <input type="checkbox"/> Burris                | <input type="checkbox"/> Neyland             | <input type="checkbox"/> Shanklin             |                                               |                                              |                                           |

TOPIC: SAFETY CHECKS

DATE: 3/6/95

TO: ALL OPERATIONS PERSONNEL

FROM: BRIAN DONATTO

I continue to have problems with the weekly safety checks. Each Monday morning I am having to track down the sprinkler system check which is required by C-9. The safety checks are now accessed through the procedure system. The sprinkler system check is to be complete and placed in the folder on the safety bulletin board. The oil mist and miscellaneous checks are to be filed with the operator round sheets. On Mondays the emergency light check is to be complete and placed in the folder on the safety bulletin board. Safety checks printing out on the PDP-11 should be ignored and each shift needs to call up the safety checks for the week ends and print them out from the procedure system. I will continue to inform the shifts responsible for the monthly safety checks. You'll be informed of what is due for each month.

<sup>R</sup>  
Your help is needed and will be greatly appreciated in getting this back on track.

DO A 032079  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Thu, Mar 2, 1995

FROM: Rizzo

SUBJECT: Please Review the following procedures

Taking C200 / 201 bottoms line out of service # 460337.

Freon Policy # 460558

P&ID flow sheet addition and revision 460607.

R250 recharge procedure # 460014

Shot pond 500 to T510 # 460122 / Shot pond to C-520 # 460247

Swapping out a nalco tank # 460529, Pumping T-510 to outfall # 460121

Vacation Policy # 460550

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

| GROUP            | PERSONS NEEDING TO REVIEW                    |                                                |                                             |                                               |                                               |                                            |
|------------------|----------------------------------------------|------------------------------------------------|---------------------------------------------|-----------------------------------------------|-----------------------------------------------|--------------------------------------------|
| Staff            | <input type="checkbox"/> Taylor              | <input type="checkbox"/> Miles                 | <input type="checkbox"/> Bourne             | <input type="checkbox"/> Kelley               | <input type="checkbox"/> Haney                | <input checked="" type="checkbox"/> Ledoux |
|                  | <input type="checkbox"/> Witt                | <input checked="" type="checkbox"/> Young      |                                             |                                               |                                               |                                            |
| Supervisors<br>X | <input checked="" type="checkbox"/> Cook J.  | <input checked="" type="checkbox"/> Dugas      | <input type="checkbox"/> Michel             | <input type="checkbox"/> Trice                | <input type="checkbox"/> Clebert              | <input type="checkbox"/> Rizzo             |
| SOS's<br>X       | <input checked="" type="checkbox"/> Breaux   | <input checked="" type="checkbox"/> Beiler     | <input checked="" type="checkbox"/> Bickham | <input checked="" type="checkbox"/> Cook F.   | <input checked="" type="checkbox"/> Cavalier  |                                            |
|                  | <input checked="" type="checkbox"/> Grant    | <input checked="" type="checkbox"/> Gravouilla | <input checked="" type="checkbox"/> Jackson | <input checked="" type="checkbox"/> Millender | <input checked="" type="checkbox"/> Meterjean |                                            |
| OS's<br>X        | <input checked="" type="checkbox"/> Armand   | <input checked="" type="checkbox"/> Bishop     | <input checked="" type="checkbox"/> Bourg   | <input checked="" type="checkbox"/> Ekey      | <input checked="" type="checkbox"/> Doucet    |                                            |
|                  | <input checked="" type="checkbox"/> Harrison | <input checked="" type="checkbox"/> Jack       | <input checked="" type="checkbox"/> Lonney  | <input checked="" type="checkbox"/> Davis     | <input checked="" type="checkbox"/> Wolfe     |                                            |
| Day Oper.<br>X   | <input checked="" type="checkbox"/> Donatto  | <input checked="" type="checkbox"/> Grace      | <input checked="" type="checkbox"/> Johnson | <input type="checkbox"/> Simonson             | <input type="checkbox"/> Vavasseur            |                                            |
| Instruments      | <input type="checkbox"/> Neyland             | <input type="checkbox"/> Shanklin              |                                             |                                               |                                               |                                            |

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

| Review & Initial                                                                                         |                                          | DATE: <u>3/1</u> , 199 <u>5</u>        |                                                                                                                    |
|----------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------|
|                                                                                                          |                                          | FROM: <u>Jim Harey</u>                 |                                                                                                                    |
| SUBJECT: <u>P-1511 A/B Low/Low Level Trip Setpoint Change</u>                                            |                                          |                                        |                                                                                                                    |
| This form is used to insure the attached information is communicated to the appropriate plant personnel. |                                          |                                        |                                                                                                                    |
| INITIATOR: Place a check mark by the group(s) needing to review.                                         |                                          |                                        |                                                                                                                    |
| EMPLOYEE: Please initial once review is complete.                                                        |                                          |                                        |                                                                                                                    |
| GROUP                                                                                                    | PERSONS NEEDING TO REVIEW                |                                        |                                                                                                                    |
| Staff<br><u>X</u>                                                                                        | <u>JW</u> Taylor<br><u>JWH</u>           | ____ Miles                             | ____ Bourne <u>KV</u> Kelley <u>SL</u> Ledoux ____ Witt                                                            |
| Supervisors<br><u>X</u>                                                                                  | <u>CL</u> Clebert<br>____ Trice          | <u>JRG</u> Cook, J.<br><u>MY</u> Young | <u>DR</u> Dugas <u>AM</u> Michel ____ Rizzo ____ Sauls                                                             |
| SOS's<br><u>X</u>                                                                                        | <u>RB</u> Breaux<br><u>GA</u> Gravouilla | <u>BB</u> Beiler<br><u>JA</u> Jackson  | <u>CQ</u> Bickham <u>AC</u> Cavalier <u>FC</u> Cook, F. <u>GR</u> Grant<br><u>DM</u> Metrejean <u>AM</u> Millender |
| OS's<br><u>X</u>                                                                                         | <u>MA</u> Armand<br><u>DB</u> Harrison   | <u>JB</u> Bishop<br><u>JJ</u> Jack     | <u>JB</u> Bourg <u>CD</u> Davis <u>LD</u> Doucet <u>JE</u> Ekey<br><u>RL</u> Looney <u>DW</u> Wolfe                |
| Day Operators                                                                                            | ____ Donatto                             | ____ Grace                             | ____ Johnson ____ Simonson ____ Vavasseur                                                                          |
| Instruments                                                                                              | ____ Burris                              | ____ Neyland                           | ____ Shanklin                                                                                                      |

The P-1511 A/B Low/Low level trip setpoint, AP(1904), has been changed from 5% to 10% in order to prevent pump wrecks during low level/light composition conditions (see attached Root Cause Failure Analysis).

Jim Haney

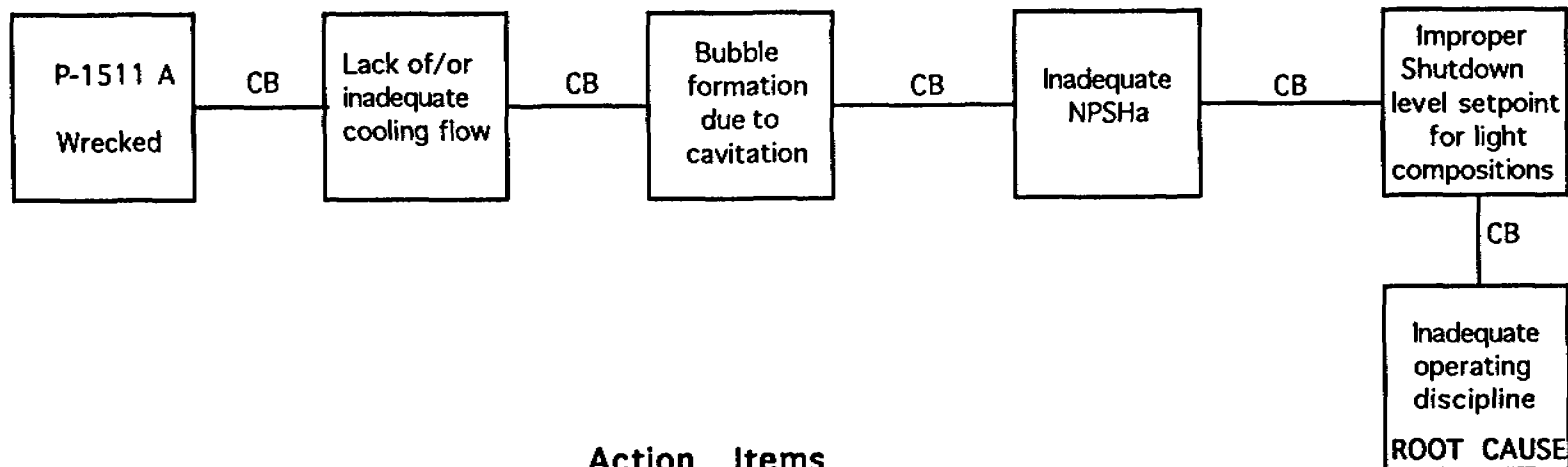
# P-1511 A WRECK - 1/28/95

## ROOT CAUSE FAILURE ANALYSIS

### Event Summary

1. P-1511 B shutdown due to D-1511 low level after R-1300 shutdown.
2. P-1511 A started up 45 minutes later - D-1511 level at 50%. Pump ran for 1 hour.
3. P-1511 A shutdown due to D-1511 low level. Pump was making a squealing sound at time of shutdown. Pump more than likely wrecked at this time.
4. Restart attempt, pump locked up- D-1511 level at 50%.

CB=CAUSED BY



### Action Items

1. Determine proper D-1511 low level trip point for the P-1511's when the column is in the shutdown step.
2. Determine if additional instrumentation can be installed on Klaus Union pumps to detect cavitation problems earlier before a wreck occurs

Jim Haney

Steve Folsie

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

Review & Initial

DATE: 2/28, 199 5

FROM: S LEDoux

SUBJECT: P-470A Modification

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial once review is complete.

| GROUP                                                   | PERSONS NEEDING TO REVIEW |                    |                     |                     |                    |                 |
|---------------------------------------------------------|---------------------------|--------------------|---------------------|---------------------|--------------------|-----------------|
| Staff<br><input checked="" type="checkbox"/>            | <u>MT</u> Taylor          | ___ Miles          | ___ Bourne          | <u>HP</u> Kelley    | <u>SL</u> Ledoux   | ___ Witt        |
|                                                         | <u>MT</u> Harney          |                    |                     |                     |                    |                 |
| Supervisors<br><input checked="" type="checkbox"/>      | <u>CL</u> Clebert         | <u>JR</u> Cook, J. | <u>DR</u> Dugas     | <u>AM</u> Michel    | ___ Rizzo          | ___ Sauls       |
|                                                         | ___ Trice                 | <u>MY</u> Young    |                     |                     |                    |                 |
| SOS's<br><input checked="" type="checkbox"/>            | <u>WB</u> Breaux          | <u>BB</u> Beiler   | <u>CP</u> Bickham   | <u>MA</u> Cavalier  | <u>FC</u> Cook, F. | <u>CG</u> Grant |
|                                                         | <u>DA</u> Gravouilla      | <u>MX</u> Jackson  | <u>DM</u> Metrejean | <u>AM</u> Millender |                    |                 |
| OS's<br><input checked="" type="checkbox"/>             | <u>MA</u> Armand          | <u>CE</u> Bishop   | <u>JB</u> Bourg     | <u>CD</u> Davis     | <u>LE</u> Doucet   | <u>KE</u> Ekey  |
|                                                         | <u>DA</u> Harrison        | <u>OS</u> Jack     | <u>RL</u> Looney    | <u>DW</u> Wolfe     |                    |                 |
| Day<br>Operators<br><input checked="" type="checkbox"/> | ___ Donatto               | ___ Grace          | ___ Johnson         | ___ Simonson        | ___ Vavasseur      |                 |
| Instruments<br><input checked="" type="checkbox"/>      | ___ Burris                | ___ Neyland        | ___ Shanklin        |                     |                    |                 |

To: CMP Personnel  
From: Steve Ledoux  
Subject: P-470A Seal Modification

2/28/95

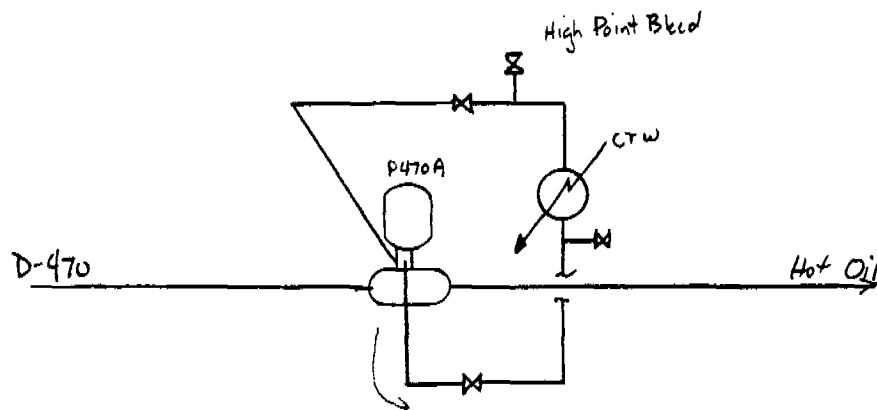
P-470A was started today with a modified seal. The modification recirculates the same oil through the seal all the time. The cooler temperature should improve the life of each rebuild. The modification is on a trial basis for a couple of weeks or until we can evaluate its performance.

Before operating this pump, the seal piping must be completely full of oil. Ensure the high point bleed is used to bleed all of the gases from the seal piping. If you have any questions on the pump let me know. If this seal works as expected, we will modify the other two pumps soon.

Thanks,

Steve

New Piping Arrangement



DO A 032085  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: Fri, Feb 24, 1995

FROM: Rizzo

SUBJECT: Please review the following new procedures

\* Adding oil to seal oil pots # 460605

\* Encapsulated Suit Procedure # 460606

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

| GROUP       | PERSONS NEEDING TO REVIEW                    |                                                |                                             |                                               |                                               |                                            |
|-------------|----------------------------------------------|------------------------------------------------|---------------------------------------------|-----------------------------------------------|-----------------------------------------------|--------------------------------------------|
| Staff       | <input type="checkbox"/> Taylor              | <input type="checkbox"/> Miles                 | <input type="checkbox"/> Bourne             | <input type="checkbox"/> Kelley               | <input type="checkbox"/> Haney                | <input checked="" type="checkbox"/> Ledoux |
|             | <input type="checkbox"/> Witt                | <input checked="" type="checkbox"/> Young      |                                             |                                               |                                               |                                            |
| Supervisors | <input checked="" type="checkbox"/> Cook J.  | <input checked="" type="checkbox"/> Dugas      | <input type="checkbox"/> Michel             | <input type="checkbox"/> Trice                | <input type="checkbox"/> Clebert              | <input type="checkbox"/> Rizzo             |
| SOS's       | <input checked="" type="checkbox"/> Breau    | <input checked="" type="checkbox"/> Beiler     | <input checked="" type="checkbox"/> Bickham | <input checked="" type="checkbox"/> Cook F.   | <input checked="" type="checkbox"/> Cavalier  |                                            |
| X           | <input checked="" type="checkbox"/> Grant    | <input checked="" type="checkbox"/> Gravouilla | <input checked="" type="checkbox"/> Jackson | <input checked="" type="checkbox"/> Millender | <input checked="" type="checkbox"/> Meterjean |                                            |
| OS's        | <input checked="" type="checkbox"/> Armand   | <input checked="" type="checkbox"/> Bishop     | <input checked="" type="checkbox"/> Bourg   | <input checked="" type="checkbox"/> Ekey      | <input checked="" type="checkbox"/> Doucet    |                                            |
| X           | <input checked="" type="checkbox"/> Harrison | <input checked="" type="checkbox"/> Jack       | <input checked="" type="checkbox"/> Lonney  | <input checked="" type="checkbox"/> Davis     | <input checked="" type="checkbox"/> Wolfe     |                                            |
| Day Oper.   | <input checked="" type="checkbox"/> Donatto  | <input checked="" type="checkbox"/> Grace      | <input checked="" type="checkbox"/> Johnson | <input checked="" type="checkbox"/> Simonson  | <input checked="" type="checkbox"/> Vavasseur |                                            |
| X           |                                              |                                                |                                             |                                               |                                               |                                            |
| Instruments | <input type="checkbox"/> Neyland             | <input type="checkbox"/> Shanklin              |                                             |                                               |                                               |                                            |

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: 2-February, 1995

FROM: Rizzo

SUBJECT: The ranges for the following variable were changed for AO(514) controller. The transmitter AI(514), one of the transmitters used for control by AO(514) was ranged for 100 while all of the below listed variables associated with this control, were ranged for 200. This prevented the controller from lining up properly.

AC(1232), AC(1235), AC(1233), AC(556), AC(1270), AC(1271), AC(558), AC(559), AK(553), AK(554), AP(1233).

THE OLD RANGE WAS 200 / THE NEW RANGE IS 100

- E-435

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

| GROUP            | PERSONS NEEDING TO REVIEW                   |                                                |                                             |                                               |                                               |                                            |
|------------------|---------------------------------------------|------------------------------------------------|---------------------------------------------|-----------------------------------------------|-----------------------------------------------|--------------------------------------------|
| Staff            | <input type="checkbox"/> Taylor             | <input type="checkbox"/> Miles                 | <input type="checkbox"/> Bourne             | <input checked="" type="checkbox"/> Kelley    | <input type="checkbox"/> Haney                | <input checked="" type="checkbox"/> Ledoux |
|                  | <input type="checkbox"/> Witt               | <input checked="" type="checkbox"/> Young      |                                             |                                               |                                               |                                            |
| Supervisors<br>X | <input checked="" type="checkbox"/> Cook J. | <input checked="" type="checkbox"/> Dugas      | <input type="checkbox"/> Michel             | <input type="checkbox"/> Trice                | <input type="checkbox"/> Clebert              | <input type="checkbox"/> Rizzo             |
| SOS's<br>X       | <input checked="" type="checkbox"/> Breaux  | <input checked="" type="checkbox"/> Beiler     | <input checked="" type="checkbox"/> Bickham | <input checked="" type="checkbox"/> Cook F.   | <input checked="" type="checkbox"/> Cavalier  |                                            |
|                  | <input checked="" type="checkbox"/> Grant   | <input checked="" type="checkbox"/> Gravouilla | <input checked="" type="checkbox"/> Jackson | <input checked="" type="checkbox"/> Millender | <input checked="" type="checkbox"/> Meterjean |                                            |
| OS's             | <input type="checkbox"/> Armand             | <input type="checkbox"/> Bishop                | <input type="checkbox"/> Bourg              | <input type="checkbox"/> Ekey                 | <input type="checkbox"/> Doucet               |                                            |
|                  | <input type="checkbox"/> Harrison           | <input type="checkbox"/> Jack                  | <input type="checkbox"/> Lonney             | <input checked="" type="checkbox"/> Davis     | <input type="checkbox"/> Wolfe                |                                            |
| Day Oper.        | <input type="checkbox"/> Donatto            | <input type="checkbox"/> Grace                 | <input type="checkbox"/> Johnson            | <input type="checkbox"/> Simonson             | <input type="checkbox"/> Vavasseur            |                                            |
| Instruments      | <input type="checkbox"/> Neyland            | <input type="checkbox"/> Shanklin              |                                             |                                               |                                               |                                            |

DO A 032087  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: 2-February, 1995

FROM: Rizzo

SUBJECT: Please review the following revised procedures

\*Quarantine Tanks #460306.

\*D-1750 pump down spec # 460281.

\*K1100 start up after a long shutdown # 460097.

\*T-814 fire # 460182.

\*Line opening initialing #460303.

\*Cyclohexane off procedure #460183.

\*Fire in the distillation area # 460079.

\*Spill in the distillation area 460080

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

| GROUP       | PERSONS NEEDING TO REVIEW                    |                                                |                                             |                                               |                                               |                                            |
|-------------|----------------------------------------------|------------------------------------------------|---------------------------------------------|-----------------------------------------------|-----------------------------------------------|--------------------------------------------|
| Staff       | <input type="checkbox"/> Taylor              | <input type="checkbox"/> Miles                 | <input type="checkbox"/> Bourne             | <input type="checkbox"/> Kelley               | <input type="checkbox"/> Haney                | <input checked="" type="checkbox"/> Ledoux |
|             | <input type="checkbox"/> Witt                | <input checked="" type="checkbox"/> Young      |                                             |                                               |                                               |                                            |
| Supervisors | <input checked="" type="checkbox"/> Cook J.  | <input checked="" type="checkbox"/> Dugas      | <input type="checkbox"/> Michel             | <input type="checkbox"/> Trice                | <input type="checkbox"/> Clebert              | <input type="checkbox"/> Rizzo             |
| X           |                                              |                                                |                                             |                                               |                                               |                                            |
| SOS's       | <input checked="" type="checkbox"/> Breaux   | <input checked="" type="checkbox"/> Beiler     | <input checked="" type="checkbox"/> Bickham | <input checked="" type="checkbox"/> Cook F.   | <input checked="" type="checkbox"/> Cavalier  |                                            |
| X           | <input checked="" type="checkbox"/> Grant    | <input checked="" type="checkbox"/> Gravouilla | <input checked="" type="checkbox"/> Jackson | <input checked="" type="checkbox"/> Millender | <input checked="" type="checkbox"/> Meterjean |                                            |
| OS's        | <input checked="" type="checkbox"/> Armand   | <input checked="" type="checkbox"/> Bishop     | <input checked="" type="checkbox"/> Bourg   | <input type="checkbox"/> Ekey                 | <input checked="" type="checkbox"/> Doucet    |                                            |
| X           | <input checked="" type="checkbox"/> Harrison | <input checked="" type="checkbox"/> Jack       | <input checked="" type="checkbox"/> Lonney  | <input type="checkbox"/> Davis                | <input checked="" type="checkbox"/> Wolfe     |                                            |
| Day Oper.   | <input type="checkbox"/> Donatto             | <input type="checkbox"/> Grace                 | <input type="checkbox"/> Johnson            | <input checked="" type="checkbox"/> Simonson  | <input checked="" type="checkbox"/> Vavasseur |                                            |
| X           |                                              |                                                |                                             |                                               |                                               |                                            |
| Instruments | <input type="checkbox"/> Neyland             | <input type="checkbox"/> Shanklin              |                                             |                                               |                                               |                                            |

DO A 032088  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

Review & Initial

DATE: 2/21, 199 5

FROM: Mike Bourne

SUBJECT: Mod 5 Upload on System A - EKS5

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial once review is complete.

| GROUP         | PERSONS NEEDING TO REVIEW |                     |                     |                     |                    |                 |
|---------------|---------------------------|---------------------|---------------------|---------------------|--------------------|-----------------|
| Staff         | <u>DW</u> Taylor          | _____ Miles         | _____ Bourne        | <u>HP</u> Kelley    | <u>U</u> Ledoux    | _____ Witt      |
|               | <u>STB</u> Henry          |                     |                     |                     |                    |                 |
| Supervisors   | <u>CK</u> Clebert         | <u>JRC</u> Cook, J. | <u>DD</u> Dugas     | <u>AM</u> Michel    | _____ Rizzo        | _____ Sauls     |
|               | _____ Trice               | <u>W</u> Young      |                     |                     |                    |                 |
| SOS's         | <u>RB</u> Breaux          | <u>BB</u> Beiler    | <u>eg.</u> Bickham  | <u>MA</u> Cavalier  | <u>FC</u> Cook, F. | <u>er</u> Grant |
|               | <u>DD</u> Gravouilla      | <u>g</u> Jackson    | <u>DM</u> Metrejean | <u>JA</u> Millender |                    |                 |
| OS's          | _____ Armand              | _____ Bishop        | _____ Bourg         | <u>CD</u> Davis     | _____ Doucet       | _____ Ekey      |
|               | _____ Harrison            | _____ Jack          | _____ Looney        | _____ Wolfe         |                    |                 |
| Day Operators | _____ Donatto             | _____ Grace         | _____ Johnson       | _____ Simonson      | _____ Vavasseur    |                 |
| Instruments   | _____ Burris              | _____ Neyland       | _____ Shanklin      |                     |                    |                 |

DO A 032089  
CONFIDENTIAL

( Programming changes to set (52) - CHA-455 VENT AND VAPOR SYSTEM

The following changes were made to the CHA-455 vent condenser system :

(1) By setting AK(573) to '0' the liquid nitrogen controller AC(514) will enable on an increase in CHA-455 pressure and control the liquid nitrogen outlet temperature AI(512) at its setpoint AK(552). Once the dead valve AC(514) is enabled and is greater than AC(555)%, the liquid nitrogen controller will automatically swap to control the process outlet temperature AI(514) at its setpoint AK(513).

(2) By setting AK(571) to '1' AC(514) will immediately enable constantly controlling the liquid nitrogen outlet temperature AI(512).

(3) By setting AK(572) to '2' AC(514) will immediately enable constantly controlling the process vent outlet temperature AI(514).

(4) By setting AK(574) True AC(514) will enable and pre-cool the exchanger prior to a large offloading. AC(514) will initially control the liquid nitrogen outlet and will swap to control the process vent outlet once the dead valve reaches AC(555)%.

Other modifications to the program include an addition to AL(507) which will now indicate a vent process malfunction in case the liquid nitrogen outlet temperature is less than -100 C (AK(512)) for 30 seconds.

Tangie Seal  
2/17/95

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: 2-February, 1995

FROM: Rizzo

SUBJECT: Please review the attached sheet concerning the MOD V upload of System A. The upload concerns the revisions of P-1250A

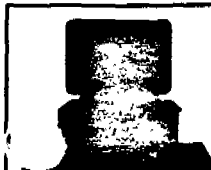
This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

| GROUP            | PERSONS NEEDING TO REVIEW          |                                          |                                        |                                          |                                           |                  |
|------------------|------------------------------------|------------------------------------------|----------------------------------------|------------------------------------------|-------------------------------------------|------------------|
| Staff            | <u>AW</u> Taylor<br>___ Witt       | ___ Miles<br><u>WY</u> Young             | ___ Bourne                             | <u>AK</u> Kelley                         | <u>JMH</u> Haney                          | <u>SW</u> Ledoux |
| Supervisors<br>X | <u>RC</u> Cook J.                  | <u>DD</u> Dugas                          | <u>na</u> Michel                       | <u>na</u> Trice                          | <u>na</u> Clebert                         | ___ Rizzo        |
| SOS's<br>X       | <u>WB</u> Breaux<br><u>W</u> Grant | <u>AB</u> Beiler<br><u>DD</u> Gravouilla | <u>AB</u> Bickham<br><u>BJ</u> Jackson | <u>FC</u> Cook F.<br><u>MM</u> Millender | <u>AC</u> Cavalier<br><u>DM</u> Meterjean |                  |
| OS's             | <u>RA</u> Armand<br>___ Harrison   | ___ Bishop<br>___ Jack                   | ___ Bourg<br><u>LL</u> Lonney          | <u>UE</u> Ekey<br><u>CD</u> Davis        | <u>LD</u> Doucet<br>___ Wolfe             |                  |
| Day Oper.        | ___ Donatto                        | ___ Grace                                | ___ Johnson                            | ___ Simonson                             | ___ Vavasseur                             |                  |
| Instruments      | ___ Neyland                        | ___ Shanklin                             |                                        |                                          |                                           |                  |

DO A 032091  
CONFIDENTIAL



# CHLORINATED METHANES MOD V

## DESCRIPTION OF CHANGE



**A**

System

**P-1250's**

Equipment Number

**600**

Can

### WARN(630)

This alarm was used for P-1250 A, DI/DO mismatch, Hi - low amps. It was revised and is now used to alarm on Hi-Hi amps, Low low amps, Hi-Hi Differential temperature for both P-1250 pumps.

### P-1250 A/B - DO(601/611)

This pump has been revised. Bump code logic , DC(633/1331) and trip logic have been added to the logic for this pump. When the condition for the pump to run becomes true the logic will cause the pump to energize for 1 second and then re-energize after a specified time frame.

The P-1250's will no longer shut down on low discharge pressure (ALM(633))

Also trip logic has been added, DC(1352/1357). The operator has to option of enabling the trip logic by setting DK(240/241) true. When set true, if the conditions for the trip flag become true indicated by DC(1353) becoming true the pump will trip.

The trips for the pump is as follows. (SEE WARN(630))

|                              | P-1250A  | P-1250B  |
|------------------------------|----------|----------|
| 1) Hi-Hi amps/power -        | DC(1354) | DC(1359) |
| 2) Hi-Hi Temperature Diff. - | DC(1355) | DC(1361) |
| 3) Lo-Lo Amp/power -         | DC(1356) | DC(1362) |



# CHLORINATED METHANES MOD V

## DESCRIPTION OF CHANGE



A

System

P-1250's

Equipment Number

600

Can

### ALARM(612)

This alarm was revised so that the off line pump will energize when this alarm activates. The alarm activates if a high virgin M1 flow to R-1300 AC(1727) is detected along with low pump discharge pressure.

### ALARM(631)

This alarm was revised. The alarm was used for P-1250 B, DI/DO mismatch, Hi/Lo amps. P-1250A logic for the same items have been added to this alarm. Also the items from ALM(667) were combined with this alarm.

This alarm now activates for both P-1250's on Hi/Lo power, Hi shroud temp., Hi differential Temperature between suction and discharge temperature and DI/DO mismatch.

This alarm is now a 1st level alarm that will activate if there is a problem with the amps. If the amps continue to increase or decrease Alarm(612) will activate and if the DK's are set the pump will trip.

### ALARM(667)

This alarm was deleted. The items that were in this alarm were combined with alarm 631

# CHLORINATED METHANE PRODUCTS COMMUNIQUE

Review & Initial

DATE: 2-February, 1995

FROM: Rizzo

SUBJECT: Please review the following revised procedures:

\* Linetest.doc - #460444

\* D1817liq.doc - # 460153

\* E1813su.doc - # 460148

\* K1100shortsu.doc #460106

\* MK1100ri.doc # 460291

\* K1100emersd.doc # 460099

\* Modvpump.doc # 460206

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understood the material.

| GROUP            | PERSONS NEEDING TO REVIEW                    |                                                |                                             |                                               |                                               |                                            |
|------------------|----------------------------------------------|------------------------------------------------|---------------------------------------------|-----------------------------------------------|-----------------------------------------------|--------------------------------------------|
| Staff            | <input type="checkbox"/> Taylor              | <input type="checkbox"/> Miles                 | <input type="checkbox"/> Bourne             | <input type="checkbox"/> Kelley               | <input checked="" type="checkbox"/> Haney     | <input checked="" type="checkbox"/> Ledoux |
|                  | <input type="checkbox"/> Witt                | <input checked="" type="checkbox"/> Young      |                                             |                                               |                                               |                                            |
| Supervisors<br>X | <input checked="" type="checkbox"/> Cook J.  | <input checked="" type="checkbox"/> Dugas      | <input type="checkbox"/> Michel             | <input type="checkbox"/> Trice                | <input type="checkbox"/> Clebert              | <input checked="" type="checkbox"/> Rizzo  |
| SOS's<br>X       | <input checked="" type="checkbox"/> Breaux   | <input checked="" type="checkbox"/> Beielor    | <input checked="" type="checkbox"/> Bickham | <input checked="" type="checkbox"/> Cook F.   | <input checked="" type="checkbox"/> Cavalier  |                                            |
|                  | <input checked="" type="checkbox"/> Grant    | <input checked="" type="checkbox"/> Gravouilla | <input checked="" type="checkbox"/> Jackson | <input checked="" type="checkbox"/> Millender | <input checked="" type="checkbox"/> Meterjean |                                            |
| OS's<br>X        | <input checked="" type="checkbox"/> Armand   | <input checked="" type="checkbox"/> Bishop     | <input checked="" type="checkbox"/> Bourg   | <input checked="" type="checkbox"/> Ekey      | <input checked="" type="checkbox"/> Doucet    |                                            |
|                  | <input checked="" type="checkbox"/> Harrison | <input checked="" type="checkbox"/> Jack       | <input checked="" type="checkbox"/> Lonney  | <input checked="" type="checkbox"/> Davis     | <input checked="" type="checkbox"/> Wolfe     |                                            |
| Day Oper.        | <input type="checkbox"/> Donatto             | <input type="checkbox"/> Grace                 | <input type="checkbox"/> Johnson            | <input type="checkbox"/> Simonson             | <input type="checkbox"/> Vavasseur            |                                            |
| Instruments      | <input type="checkbox"/> Neyland             | <input type="checkbox"/> Shanklin              |                                             |                                               |                                               |                                            |

DO A 032094  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

Review & Initial

DATE: Feb. 17, ,199 5

FROM: Brian Donatto

SUBJECT: 1994 E-Team Emergency Drill

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial once review is complete.

| GROUP              | PERSONS NEEDING TO REVIEW |                   |                     |                     |                     |                         |
|--------------------|---------------------------|-------------------|---------------------|---------------------|---------------------|-------------------------|
| Staff<br>✓         | <u>DD</u> Taylor          | _____ Miles       | _____ Bourne        | <u>WV</u> Kelley    | <u>AL</u> Ledoux    | _____ Witt              |
| Supervisors<br>✓   | <u>MM</u> Haney           | <u>JC</u> Clebert | <u>JC</u> Cook, J.  | <u>DD</u> Dugas     | <u>AM</u> Michel    | _____ Rizzo _____ Sauls |
| SOS's<br>✓         | <u>DD</u> Breau           | <u>AB</u> Beiler  | <u>eg</u> Bickham   | <u>AP</u> Cavalier  | <u>FC</u> Cook, F.  | <u>an</u> Grant         |
| OS's<br>✓          | <u>DD</u> Gravouilla      | <u>RS</u> Jackson | <u>DM</u> Metrejean | <u>RU</u> Millender |                     |                         |
| Day Operators<br>✓ | <u>HA</u> Armand          | <u>JB</u> Bishop  | <u>CB</u> Bourg     | <u>CD</u> Davis     | <u>LG</u> Doucet    | <u>JK</u> Ekey          |
|                    | <u>DD</u> Harrison        | <u>OS</u> Jack    | <u>LL</u> Looney    | <u>DW</u> Wolfe     |                     |                         |
|                    | _____ Donatto             | <u>AB</u> Grace   | <u>JJ</u> Johnson   | <u>BS</u> Simonson  | <u>TV</u> Vavasseur |                         |
| Instruments        | _____ Burris              | _____ Neyland     | _____ Shanklin      |                     |                     |                         |

DO A 032095  
CONFIDENTIAL

# CMP EMERGENCY DRILL

Drill Date 12/20/94

Record # 6

☐ Actual Emergency ☒ Emergency Drill

Safety Team Conducting Drill E Team

NOTE: The Safety Team must get Supervisor's approval to use an actual emergency to fulfill drill requirements.

Safety Team Working on Drill Date A Team

Drill Topic SPILL ON H2SO4 TANK CAR AT H2SO4 UNLOADING RACK

Personnel Involved in Drill:

List Names of People Responding to Drill Freddie Cook, Dale Gravouilla, John Ekey, Donald Harrison, Randy

Looney, Loading Personnel

List Groups Participating in Drill Shift Supervisor-James Cook, Observer-Fritz Simonson and Judi

Witt. Participants: All DOW and all contract personnel.

Drill Critique (Give description of actions taken in response to the emergency and the deficiencies noted during the emergency.)

Drill Scenario: Personnel going to tank car load rack discovered a leak on the head seam of a H2SO4 tank car approximately 1' from the bottom of the car.

Emergency response: The drill announcement was made. Outside personnel responded to scene of spill. The main track was already flagged and the area was immediately roped off. It was discovered that H2SO4 had reached zone 2. Made certain that T-510 was lined up. The tank car was already hooked up and offloading. Plant security responded and wanted to put a water fog on the spill. This was not allowed due to reaction potential. Head counts were taken at the evacuation points. It was discovered that some Cherokee people were missing. Located them quickly.

Positive Aspects of Response: 1) Main track already flagged, tank car already offloading.  
2) Emergency plan was pulled and sign in books checked. 3) Area quickly barricaded. 4) Zone 2 already going to T-510.

Areas for Improvement: 1) Still having problems with control room operators designating someone to take charge of emergency activities. 2) The drill announcement was lacking. 3) There was poor communication between inside and outside personnel. 4) One person went right through spill area instead of taking safe route. 5) Cherokee personnel went to T-804s and were watching what was going on instead of going to evacuation point to be accounted for. 6) There was misunderstanding as to how to conduct the division Emergency Response Team and determine product exoerts. 7)

Consider a limestone containment area at H2SO4 unload rack.

DO A 032096  
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# CMP EMERGENCY DRILL

Consider a limestone containment area at H2SO4 unload rack.

Follow up: 1) Determine encapsulated suit break through time. Determine acid suit break through time. 2) Determine who is in charge of Division Emergency Response Team. 3) Determine product expert.

4) Educate back-up personnel for permit writer on permit writers responsibilities during an emergency. Get with craft supervisor to make sure procedures for signing in/out of block is understood by all contractors and that they fully understand the importance of responding properly to any emergency alarm.

Follow Up Response: 1) The break through time for H2SO4 on the Level A encapsulated suit is greater than 480 minutes. No permiation was detected at this point.

2) The division Emergency Response Team is headed up through plant security. They will initiate actions to get the appropriate personnel out.

## Follow-Up Actions:

Action Item 1 & 2 of follow up.

| Responsible (Name)   | Expected Completion Date: | Actual Completion Date: |
|----------------------|---------------------------|-------------------------|
| <u>Brian Donatto</u> | <u>2/28/95</u>            |                         |

Action Item 3 of follow up

| Responsible (Name)   | Expected Completion Date: | Actual Completion Date: |
|----------------------|---------------------------|-------------------------|
| <u>Julie Clebert</u> | <u>2/28/95</u>            |                         |

Action Item 4 of follow up

| Responsible (Name) | Expected Completion Date: | Actual Completion Date: |
|--------------------|---------------------------|-------------------------|
| <u>Adam Michel</u> | <u>2/28/95</u>            |                         |

DO A 032097  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

view & Initial

DATE: 15-Feb, 1995

FROM: Gary Rizzo

**SUBJECT:** The following check sheets have been input into the procedure system. They can be located by choosing the "CHECKSHEET" button on the main screen. Then choosing one of the options

Airpack check sheet, Chain Operated Valves, Hazard Signs & Utiliti Station, Quarterly Lab Hood  
CMP Emergency Drill, Lights & Emergency Exits, Fire Extinguishers, Housekeeping Guidelines  
CMP Jack Inspection & Monthy Safety Shower and Eye Wash.

This form is used to insure the attached information is communicated to the appropriate plant personnel.

**INITIATOR:** Place a check mark by the group(s) needing to review

**EMPLOYEE:** Please initial and date when you have reviewed and understand the material

| GROUP         | PERSONS NEEDING TO REVIEW                                                                                                                                                                                                                 |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Staff         | <input type="checkbox"/> Taylor <input type="checkbox"/> Miles <input type="checkbox"/> Bourne <input checked="" type="checkbox"/> Kelley <input type="checkbox"/> Ledoux<br><input type="checkbox"/> Witt <input type="checkbox"/> Young |
| Supervisors   | <input type="checkbox"/> Clebert, J. <i>JRC</i> <input type="checkbox"/> Cook, J. <i>DRD</i> <input type="checkbox"/> Dugas <input type="checkbox"/> Michel <input type="checkbox"/> Trice <input type="checkbox"/> Rizzo                 |
| SOS's         | <i>WJ</i> Breaux <i>BB</i> Beiler <i>BP</i> Bickham <i>FC</i> Cook, F. <i>NAC</i> Cavalier<br><input checked="" type="checkbox"/> <i>DB</i> Gravouilla <i>RY</i> Jackson <i>DM</i> Metrejean <i>SL</i> Millender <i>ca</i> Grant          |
| OS's          | <i>WJA</i> Annand <i>CSB</i> Bishop <i>LS</i> Bourg <i>CA</i> Davis <i>Geo</i> Doucet <i>AK</i> Ekey<br><input checked="" type="checkbox"/> <i>DBH</i> Harrison <i>OS</i> Jack <i>BJJ</i> Looney <i>DW</i> Wolfe                          |
| Day Operators | <input type="checkbox"/> Donatto <input type="checkbox"/> Grace <input type="checkbox"/> Johnson <input type="checkbox"/> Simonson <input type="checkbox"/> Vavasseur                                                                     |
| Instruments   | <input type="checkbox"/> Shanklin <input type="checkbox"/> Wayne                                                                                                                                                                          |

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

|                                                                                                                                                                                            |                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| <b>Review &amp; Initial</b>                                                                                                                                                                | <b>DATE:</b> 15-Feb _____, 1995 |
| <b>FROM:</b> Gary Rizzo                                                                                                                                                                    |                                 |
| <b>SUBJECT:</b> Please review the following procedure revisions<br>MOD V Operated Pumps #460206 & Adding Oil to K-1002 A/B # 460604,<br>Adding N2 to Tanks #460599<br><br><br><br><br><br> |                                 |
| This form is used to insure the attached information is communicated to the appropriate plant personnel.                                                                                   |                                 |
| <b>INITIATOR:</b> Place a check mark by the group(s) needing to review.                                                                                                                    |                                 |
| <b>EMPLOYEE:</b> Please initial and date when you have reviewed and understand the material                                                                                                |                                 |

| GROUP         | PERSONS NEEDING TO REVIEW    |                           |                     |                       |                    |                |  |  |  |  |
|---------------|------------------------------|---------------------------|---------------------|-----------------------|--------------------|----------------|--|--|--|--|
| Staff         | _____ Tayler                 | _____ Miles               | _____ Bourne        | _____ <del>Witt</del> | _____ Ledoux       |                |  |  |  |  |
|               | _____ Witt                   | _____ Young               |                     |                       |                    |                |  |  |  |  |
| Supervisors   | _____ Clebert, J. <i>JRC</i> | _____ Cook, J. <i>JRC</i> | _____ Dugas         | _____ Michel          | _____ Trice        | _____ Rizzo    |  |  |  |  |
| SOS's         | <i>RB</i> Breaux             | <i>BB</i> Beiler          | <i>CP</i> Bickham   | <i>FC</i> Cook, F.    | <i>NR</i> Cavalier |                |  |  |  |  |
| X             | <i>DB</i> Gravouilla         | <i>DB</i> Jackson         | <i>DM</i> Metrejean | <i>JA</i> Millender   | <i>u</i> Grant     |                |  |  |  |  |
| OS's          | <i>NR</i> Armand             | <i>CB</i> Bishop          | _____ Bourg         | <i>CR</i> Davis       | <i>LB</i> Doucet   | <i>AB</i> Ekey |  |  |  |  |
| X             | <i>DBH</i> Harrison          | <i>OS</i> Jack            | <i>BT</i> Looney    | <i>DW</i> Wolfe       |                    |                |  |  |  |  |
| Day Operators | _____ Donatto                | _____ Grace               | _____ Johnson       | _____ Simonson        | _____ Vavasseur    |                |  |  |  |  |
| Instruments   | _____ Shanklin               | _____ Wayne               |                     |                       |                    |                |  |  |  |  |

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

view & Initial

DATE: 15-Feb, 1995

FROM: Gary Rizzo

SUBJECT: Please review the following environmental procedure revisions

Miscwst # 460304, Storage Doc, #460307, Enviro.doc # 460302, Procollect.doc #460305  
Hazadmat # #460409

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understand the material

| GROUP            | PERSONS NEEDING TO REVIEW                                                                                                                                                                                                                 |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Staff            | <input type="checkbox"/> Taylor <input type="checkbox"/> Miles <input type="checkbox"/> Bourne <input checked="" type="checkbox"/> Kelley <input type="checkbox"/> Ledoux<br><input type="checkbox"/> Witt <input type="checkbox"/> Young |
| Supervisors<br>X | <input type="checkbox"/> Clebert, J. <i>JRC</i> <input type="checkbox"/> Cook, J. <i>BRD</i> <input type="checkbox"/> Dugas <input type="checkbox"/> Michel <input type="checkbox"/> Trice <input type="checkbox"/> Rizzo                 |
| SOS's<br>X       | <i>RAF</i> Breaux <i>BS</i> Beiler <i>AG</i> Bickham <i>FC</i> Cook, F. <i>MA</i> Cavalier<br><i>DS</i> Gravouilla <i>CS</i> Jackson <i>DM</i> Metrejean <i>AK</i> Millender <i>W</i> Grant                                               |
| OS's<br>X        | <i>MA</i> Armand <i>CS</i> Bishop <i>AK</i> Bourg <i>CS</i> Davis <i>W</i> Doucet <i>JRC</i> Ekey<br><i>BRD</i> Harrison <i>DS</i> Jack <i>RJ</i> Looney <i>DW</i> Wolfe                                                                  |
| Day<br>Operators | <input type="checkbox"/> Donatto <input type="checkbox"/> Grace <input type="checkbox"/> Johnson <input type="checkbox"/> Simonson <input type="checkbox"/> Vavasseur                                                                     |
| Instruments      | <input type="checkbox"/> Shanklin <input type="checkbox"/> Wayne                                                                                                                                                                          |

DO A 032100  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

|                                                                                                                                                                                                                                                                                            |                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| <b>Review &amp; Initial</b>                                                                                                                                                                                                                                                                | <b>DATE:</b> 15-Feb _____, 1995<br><br><b>FROM:</b> Gary Rizzo |
| <b>SUBJECT:</b> Review the following lab procedures<br><br>Lab0001.doc #460004, LAB0002.doc, #460238, Sam0003, #460344, Sam0004 # 460601,<br>Lab0003 # 460239, LAB00016 # 460336 LAB00023 # 460343, LAB00041 # 460376<br>LAB00047 # 460280<br><br><div style="text-align: center;"> </div> |                                                                |
| This form is used to insure the attached information is communicated to the appropriate plant personnel.                                                                                                                                                                                   |                                                                |
| <b>INITIATOR:</b> Place a check mark by the group(s) needing to review.                                                                                                                                                                                                                    |                                                                |
| <b>EMPLOYEE:</b> Please initial and date when you have reviewed and understand the material                                                                                                                                                                                                |                                                                |

| GROUP                                                      | PERSONS NEEDING TO REVIEW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                            |                                                         |                                                        |                                                        |                                                        |                                                          |                                             |                                                         |                                                         |                                                     |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|---------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------|
| Staff                                                      | <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Taylor</td> <td><input type="checkbox"/> Miles</td> <td><input type="checkbox"/> Bourne</td> <td><input checked="" type="checkbox"/> Kenney</td> <td><input type="checkbox"/> Ledoux</td> </tr> <tr> <td><input type="checkbox"/> Witt</td> <td><input type="checkbox"/> Young</td> <td colspan="3"></td> </tr> </table>                                                                                                                                                                                                                                                                                                                       | <input type="checkbox"/> Taylor                            | <input type="checkbox"/> Miles                          | <input type="checkbox"/> Bourne                        | <input checked="" type="checkbox"/> Kenney             | <input type="checkbox"/> Ledoux                        | <input type="checkbox"/> Witt                            | <input type="checkbox"/> Young              |                                                         |                                                         |                                                     |
| <input type="checkbox"/> Taylor                            | <input type="checkbox"/> Miles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input type="checkbox"/> Bourne                            | <input checked="" type="checkbox"/> Kenney              | <input type="checkbox"/> Ledoux                        |                                                        |                                                        |                                                          |                                             |                                                         |                                                         |                                                     |
| <input type="checkbox"/> Witt                              | <input type="checkbox"/> Young                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                            |                                                         |                                                        |                                                        |                                                        |                                                          |                                             |                                                         |                                                         |                                                     |
| Supervisors                                                | <table style="width: 100%;"> <tr> <td><input checked="" type="checkbox"/> Clebert, J. <i>JRC</i></td> <td><input checked="" type="checkbox"/> Cook, J. <i>ORR</i></td> <td><input type="checkbox"/> Dugas</td> <td><input type="checkbox"/> Michel</td> <td><input type="checkbox"/> Trice</td> <td><input type="checkbox"/> Rizzo</td> </tr> </table>                                                                                                                                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> Clebert, J. <i>JRC</i> | <input checked="" type="checkbox"/> Cook, J. <i>ORR</i> | <input type="checkbox"/> Dugas                         | <input type="checkbox"/> Michel                        | <input type="checkbox"/> Trice                         | <input type="checkbox"/> Rizzo                           |                                             |                                                         |                                                         |                                                     |
| <input checked="" type="checkbox"/> Clebert, J. <i>JRC</i> | <input checked="" type="checkbox"/> Cook, J. <i>ORR</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <input type="checkbox"/> Dugas                             | <input type="checkbox"/> Michel                         | <input type="checkbox"/> Trice                         | <input type="checkbox"/> Rizzo                         |                                                        |                                                          |                                             |                                                         |                                                         |                                                     |
| SOS's                                                      | <table style="width: 100%;"> <tr> <td><i>Lab</i> <input checked="" type="checkbox"/> Breaux</td> <td><i>BB</i> <input checked="" type="checkbox"/> Beiler</td> <td><i>11</i> <input checked="" type="checkbox"/> Bickham</td> <td><i>FC</i> <input checked="" type="checkbox"/> Cook, F.</td> <td><i>MA</i> <input checked="" type="checkbox"/> Cavalier</td> </tr> <tr> <td><i>DD</i> <input checked="" type="checkbox"/> Gravouilla</td> <td><input checked="" type="checkbox"/> Jackson</td> <td><i>DM</i> <input checked="" type="checkbox"/> Metrejean</td> <td><i>JA</i> <input checked="" type="checkbox"/> Millender</td> <td><i>ce</i> <input checked="" type="checkbox"/> Grant</td> </tr> </table> | <i>Lab</i> <input checked="" type="checkbox"/> Breaux      | <i>BB</i> <input checked="" type="checkbox"/> Beiler    | <i>11</i> <input checked="" type="checkbox"/> Bickham  | <i>FC</i> <input checked="" type="checkbox"/> Cook, F. | <i>MA</i> <input checked="" type="checkbox"/> Cavalier | <i>DD</i> <input checked="" type="checkbox"/> Gravouilla | <input checked="" type="checkbox"/> Jackson | <i>DM</i> <input checked="" type="checkbox"/> Metrejean | <i>JA</i> <input checked="" type="checkbox"/> Millender | <i>ce</i> <input checked="" type="checkbox"/> Grant |
| <i>Lab</i> <input checked="" type="checkbox"/> Breaux      | <i>BB</i> <input checked="" type="checkbox"/> Beiler                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <i>11</i> <input checked="" type="checkbox"/> Bickham      | <i>FC</i> <input checked="" type="checkbox"/> Cook, F.  | <i>MA</i> <input checked="" type="checkbox"/> Cavalier |                                                        |                                                        |                                                          |                                             |                                                         |                                                         |                                                     |
| <i>DD</i> <input checked="" type="checkbox"/> Gravouilla   | <input checked="" type="checkbox"/> Jackson                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <i>DM</i> <input checked="" type="checkbox"/> Metrejean    | <i>JA</i> <input checked="" type="checkbox"/> Millender | <i>ce</i> <input checked="" type="checkbox"/> Grant    |                                                        |                                                        |                                                          |                                             |                                                         |                                                         |                                                     |
| OS's                                                       | <table style="width: 100%;"> <tr> <td><i>MA</i> <input checked="" type="checkbox"/> Armand</td> <td><i>GB</i> <input checked="" type="checkbox"/> Bishop</td> <td><i>CS</i> <input checked="" type="checkbox"/> Bourg</td> <td><i>CD</i> <input checked="" type="checkbox"/> Davis</td> <td><i>TE</i> <input checked="" type="checkbox"/> Doucet</td> <td><i>JE</i> <input checked="" type="checkbox"/> Ekey</td> </tr> </table>                                                                                                                                                                                                                                                                              | <i>MA</i> <input checked="" type="checkbox"/> Armand       | <i>GB</i> <input checked="" type="checkbox"/> Bishop    | <i>CS</i> <input checked="" type="checkbox"/> Bourg    | <i>CD</i> <input checked="" type="checkbox"/> Davis    | <i>TE</i> <input checked="" type="checkbox"/> Doucet   | <i>JE</i> <input checked="" type="checkbox"/> Ekey       |                                             |                                                         |                                                         |                                                     |
| <i>MA</i> <input checked="" type="checkbox"/> Armand       | <i>GB</i> <input checked="" type="checkbox"/> Bishop                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <i>CS</i> <input checked="" type="checkbox"/> Bourg        | <i>CD</i> <input checked="" type="checkbox"/> Davis     | <i>TE</i> <input checked="" type="checkbox"/> Doucet   | <i>JE</i> <input checked="" type="checkbox"/> Ekey     |                                                        |                                                          |                                             |                                                         |                                                         |                                                     |
| X                                                          | <table style="width: 100%;"> <tr> <td><i>DD</i> <input checked="" type="checkbox"/> Harrison</td> <td><i>OS</i> <input checked="" type="checkbox"/> Jack</td> <td><i>RJ</i> <input checked="" type="checkbox"/> Looney</td> <td><i>DW</i> <input checked="" type="checkbox"/> Wolfe</td> <td></td> </tr> </table>                                                                                                                                                                                                                                                                                                                                                                                             | <i>DD</i> <input checked="" type="checkbox"/> Harrison     | <i>OS</i> <input checked="" type="checkbox"/> Jack      | <i>RJ</i> <input checked="" type="checkbox"/> Looney   | <i>DW</i> <input checked="" type="checkbox"/> Wolfe    |                                                        |                                                          |                                             |                                                         |                                                         |                                                     |
| <i>DD</i> <input checked="" type="checkbox"/> Harrison     | <i>OS</i> <input checked="" type="checkbox"/> Jack                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <i>RJ</i> <input checked="" type="checkbox"/> Looney       | <i>DW</i> <input checked="" type="checkbox"/> Wolfe     |                                                        |                                                        |                                                        |                                                          |                                             |                                                         |                                                         |                                                     |
| Day Operators                                              | <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Donatto</td> <td><input type="checkbox"/> Grace</td> <td><input type="checkbox"/> Johnson</td> <td><input type="checkbox"/> Simonson</td> <td><input type="checkbox"/> Vavasseur</td> </tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input type="checkbox"/> Donatto                           | <input type="checkbox"/> Grace                          | <input type="checkbox"/> Johnson                       | <input type="checkbox"/> Simonson                      | <input type="checkbox"/> Vavasseur                     |                                                          |                                             |                                                         |                                                         |                                                     |
| <input type="checkbox"/> Donatto                           | <input type="checkbox"/> Grace                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input type="checkbox"/> Johnson                           | <input type="checkbox"/> Simonson                       | <input type="checkbox"/> Vavasseur                     |                                                        |                                                        |                                                          |                                             |                                                         |                                                         |                                                     |
| Instruments                                                | <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Shanklin</td> <td><input type="checkbox"/> Wayne</td> </tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input type="checkbox"/> Shanklin                          | <input type="checkbox"/> Wayne                          |                                                        |                                                        |                                                        |                                                          |                                             |                                                         |                                                         |                                                     |
| <input type="checkbox"/> Shanklin                          | <input type="checkbox"/> Wayne                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                            |                                                         |                                                        |                                                        |                                                        |                                                          |                                             |                                                         |                                                         |                                                     |

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

Review & Initial

DATE: February 13, 199 95

FROM: Brian Donatto

SUBJECT: Use of 2 lanyards with safety harnesses.

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial once review is complete.

| GROUP                 | PERSONS NEEDING TO REVIEW |                    |                     |                     |                      |                |
|-----------------------|---------------------------|--------------------|---------------------|---------------------|----------------------|----------------|
| Staff<br>✓            | <u>WA</u> Taylor          | _____ Miles        | _____ Bourne        | <u>24</u> Kelley    | <u>4</u> Ledoux      | _____ Witt     |
| Supervisors<br>✓      | <u>Q</u> Clebert          | <u>JK</u> Cook, J. | <u>PPS</u> Dugas    | <u>P.M.</u> Michel  | _____ Rizzo          | _____ Sauls    |
| SOS's<br>✓            | <u>Sub</u> Breaux         | <u>BB</u> Beiler   | <u>CF</u> Bickham   | <u>AF</u> Cavalier  | <u>F.C.</u> Cook, F. | <u>u</u> Grant |
| OS's<br>✓             | <u>DD</u> Gravouilla      | <u>JA</u> Jackson  | <u>DM</u> Metrejean | <u>PM</u> Millender |                      |                |
| Day<br>Operators<br>✓ | <u>RA</u> Armand          | <u>CB</u> Bishop   | <u>CB</u> Bourg     | <u>CD</u> Davis     | <u>16</u> Doucet     | <u>ER</u> Ekey |
|                       | <u>DR</u> Harrison        | <u>OZ</u> Jack     | <u>LL</u> Looney    | <u>DW</u> Wolfe     |                      |                |
|                       | <u>DD</u> Donatto         | _____ Grace        | <u>JA</u> Johnson   | <u>AS</u> Simonson  | <u>TV</u> Vavasseur  |                |
| Instruments<br>✓      | _____ Burris              | _____ Neyland      | _____ Shanklin      |                     |                      |                |

DO A 032102  
CONFIDENTIAL

### **USE OF 2 LANYARDS WITH SAFETY HARNESS**

The warning sheet with the instructions for safety harnesses have a statement that says, **"NEVER ATTACH MORE THAN ONE SNAP HOOK TO A D-RING"**. the safety department was contacted about this. This statement does not hold true for systems with locking type snap hooks which are required by DOW. This statement remains in the instructions because this company makes several different types of equipment and the same instruction sheets goes into each one. Also OSHA have not outlawed non-locking snap hooks. DOW requires locking type snap hooks which greatly reduces any potential for roll-out. Using two snap hooks of this type on a D-Ring is okay. Attached is a copy of the warning sent with safety harnesses.

RTC INSTRUCTION #569  
EFFECTIVE: 5/1/88  
PAGE 13 OF 14

- Never attempt to make any repairs or adjustments to RTC equipment. All problems or concerns must be reported to RTC Customer Service.
- Never punch or cut extra holes in a harness or belt. If the size is incorrect, check with your supervisor or contact RTC for the correct size.
- No addition or substitution of any part of a RTC system is permitted without the written approval of an RTC Officer.
- Do not use this equipment in violation of any applicable company, state or federal standard or requirement.
- After impact loading, harnesses and belts must be removed from service, destroyed and replaced to meet U.S. OSHA requirements.
- Never use or attach a snap hook to incompatible hardware such that it may be possible for it to disengage (roll-out) from being twisted.
- Never attach more than one snap hook to a D-ring.
- Never rely on the sound of a snap hook closing on a D-ring, check it visually for proper attachment.
- Anyone who has a history of back or neck problems which could be aggravated or complicated by using RTC equipment should not do so, especially a body belt. Prior to use or operation of any RTC system, each potential user should be medically certified to be free from spina bifida (congenital), spondylolisthesis and other spinal, cervical or muscular history.
- All users must be in good mental and physical health and not under the influence of drugs or alcohol.
- Never use belts, harnesses, lanyards, webbing, snap hooks or other fall protection equipment for any other use except personal fall protection as detailed in RTC instructions.

TO ACHIEVE THE MAXIMUM LEVEL OF SAFETY POSSIBLE WITH THIS SYSTEM, ALL INSTRUCTIONS MUST BE FOLLOWED CAREFULLY AND FULLY. YOU MUST PLAN THE USE OF SAFETY EQUIPMENT BEFORE THE JOB BEGINS THEN REGULARLY INSPECT AND MAINTAIN THE SYSTEM.

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

Review & Initial

DATE: 1-27, 199 5

FROM: Cook/Dugas

SUBJECT: New Lab Sample

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial once review is complete.

| GROUP         | PERSONS NEEDING TO REVIEW |                     |                     |                     |                    |                |  |
|---------------|---------------------------|---------------------|---------------------|---------------------|--------------------|----------------|--|
| Staff         | <u>DM</u> Taylor          | <u>DM</u> Miles     | ___ Bourne          | <u>K</u> Kelley     | <u>4L</u> Ledoux   | ___ Witt       |  |
| Supervisors   | <u>CC</u> Celebert        | <u>JRC</u> Cook, J. | <u>DD</u> Dugas     | <u>A.M.</u> Michel  | ___ Rizzo          | ___ Sauls      |  |
| SOS's         | <u>LB</u> Breaux          | <u>BS</u> Beiler    | <u>4L</u> Bickham   | <u>MC</u> Cavalier  | <u>FC</u> Cook, F. | <u>W</u> Grant |  |
| OS's          | <u>DD</u> Gravouilla      | <u>RF</u> Jackson   | <u>DM</u> Metrejean | <u>FM</u> Millender |                    |                |  |
| Day Operators | <u>MA</u> Armand          | <u>CEB</u> Bishop   | <u>JB</u> Bourg     | <u>CR</u> Davis     | <u>Leo</u> Doucet  | <u>JE</u> Ekey |  |
| Instruments   | <u>DD</u> Harrison        | <u>03</u> Jack      | <u>RJL</u> Looney   | <u>DW</u> Wolfe     |                    |                |  |
|               | ___ Donatto               | ___ Grace           | ___ Johnson         | ___ Simonson        | ___ Vavasseur      |                |  |
|               | ___ Burris                | ___ Neyland         | ___ Shanklin        |                     |                    |                |  |

DO A 032105  
CONFIDENTIAL

TOPIC: Potable water

January 27, 1995

As of January 27, we will start running the potable water for chlorine residual. Just grab a sample of the drinking water from any faucet or water cooler and check for chlorine using the same test as the one for the cooling tower. This sample will log in automatically every morning at 06:00 am and should print out with the normal rounds. Please enter in your results as this is a requirement. The spec range is .4 to 4.0 ppm. If this is a problem the time can be change to match that of the cooling tower.

The reason for this sample is due to the fact that we have a close loop system and if the system is not cycled enough the chlorine residuals will be depleted. If the results are lower than the minimum spec the system will need to be cycled up. This is accomplished by blowing down the system until the chlorine levels are within the required range. Again this is a requirement and the data will be checked should we have a audit.

Thanks,

Terry Vavasseur

Let sample point (faucet) run  
3 or 4 minutes before catching.  
USE Cold H<sub>2</sub>O only

DO A 032106  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

Review & Initial

DATE: February 2, 199 5

FROM: Brian Donatto

SUBJECT: Plug Valves With Actuators Safety Alert

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial once review is complete.

| GROUP              | PERSONS NEEDING TO REVIEW                                                                                                                                                                      |  |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Staff<br>✓         | <u>WJ</u> Taylor <u>PD</u> Miles <u>   </u> Bourne <u>JK</u> Kelley <u>CL</u> Ledoux <u>   </u> Witt                                                                                           |  |
| Supervisors<br>✓   | <u>AL</u> Clebert <u>FC</u> Cook, J. <u>DD</u> Dugas <u>AM</u> Michel <u>   </u> Rizzo <u>   </u> Sauls<br><u>   </u> Trice <u>MY</u> Young                                                    |  |
| SOS's<br>✓         | <u>LB</u> Breaux <u>   </u> Beiler <u>BJ</u> Bickham <u>MA</u> Cavalier <u>FC</u> Cook, F. <u>   </u> Grant<br><u>GB</u> Gravouilla <u>   </u> Jackson <u>DM</u> Metrejean <u>BM</u> Millender |  |
| OS's<br>✓          | <u>RA</u> Armand <u>CB</u> Bishop <u>JS</u> Bourg <u>CD</u> Davis <u>LD</u> Doucet <u>   </u> Ekey<br><u>CH</u> Harrison <u>OJ</u> Jack <u>RL</u> Looney <u>DW</u> Wolfe                       |  |
| Day Operators<br>✓ | <u>DD</u> Donatto <u>   </u> Grace <u>JO</u> Johnson <u>FS</u> Simonson <u>TV</u> Vavasseur                                                                                                    |  |
| Instruments<br>✓   | <u>   </u> Burris <u>   </u> Neyland <u>   </u> Shanklin                                                                                                                                       |  |

DO A 032107  
CONFIDENTIAL



BRIAN DONATTO  
SAFETY COORDINATOR  
BLDG. 4601



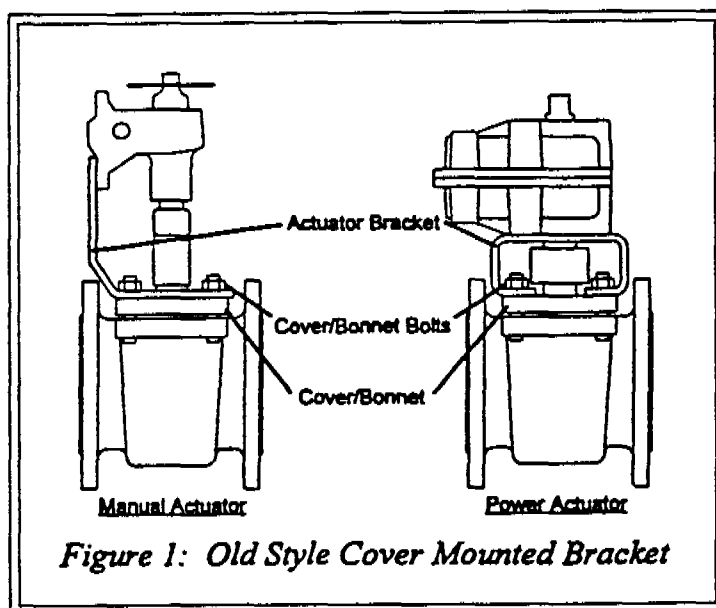
Hazardous  
Division  
**DOW**

Safety Coordinators/Representatives  
Bulletin Boards

## Plug Valves with Actuators Safety Alert

Recently, a valve manufacturer made notification that there is a safety issue with plug valves that use the cover/bonnet bolts to attach manual or power actuator brackets to the valve (see Figure 1).

Personnel, while attempting to remove the actuator, could mistakenly loosen the valve cover/bonnet bolts, while the valve is in service. If the valve cover/bonnet bolts are loosened while the valve is pressurized, massive leakage will result that could also result in personal injury or property damage. Plants should ensure this issue is reviewed with all personnel and that this type of hazard is part of training programs.



*Figure 1: Old Style Cover Mounted Bracket*

It is suggested that plants audit for these valves in hazardous service and determine if corrective action is needed. Relatively simple solutions to this are available through the I/E Department (contact Ike Eichelberger at 8799 for information).

DO A 032108  
CONFIDENTIAL

LAD Safety Communications Committee  
csz 01/31/95  
SP95-01  
Remove Date: 02/28/95

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OSHA  
VPP  
STAR  
WORK  
SITE

AN OPERATING UNIT OF THE DOW CHEMICAL COMPANY

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

Review & Initial

DATE: 23-Jan, 1995

FROM: Adam Michel

SUBJECT: Review the following procedure

PRV Inspection 460275

Switching PSV's with Isolation Valves #460593

Swapping Non MOD V operating pumps #460594

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understand the material

| GROUP       | PERSONS NEEDING TO REVIEW                      |                                              |                                                 |                                                 |                                              |                                |  |  |  |  |
|-------------|------------------------------------------------|----------------------------------------------|-------------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------------|--|--|--|--|
| Staff       | <input type="checkbox"/> Taylor                | <input type="checkbox"/> Miles               | <input type="checkbox"/> Bourne                 | <input checked="" type="checkbox"/> Kelley      | <input type="checkbox"/> Ledoux              |                                |  |  |  |  |
| X           | <input type="checkbox"/> Witt                  | <input type="checkbox"/> Young               | <input checked="" type="checkbox"/> [Signature] | <input checked="" type="checkbox"/> [Signature] |                                              |                                |  |  |  |  |
| Supervisors | <input type="checkbox"/> Clebert, J.           | <input checked="" type="checkbox"/> Cook, J. | <input checked="" type="checkbox"/> Dugas       | <input type="checkbox"/> Michel                 | <input type="checkbox"/> Trice               | <input type="checkbox"/> Rizzo |  |  |  |  |
| X           |                                                |                                              |                                                 |                                                 |                                              |                                |  |  |  |  |
| SOS's       | <input checked="" type="checkbox"/> Breaux     | <input checked="" type="checkbox"/> Beiler   | <input checked="" type="checkbox"/> Bickham     | <input checked="" type="checkbox"/> Cook, F.    | <input checked="" type="checkbox"/> Cavalier |                                |  |  |  |  |
| X           | <input checked="" type="checkbox"/> Gravouilla | <input checked="" type="checkbox"/> Jackson  | <input checked="" type="checkbox"/> Metrejean   | <input checked="" type="checkbox"/> Millender   | <input checked="" type="checkbox"/> Grant    |                                |  |  |  |  |
| OS's        | <input type="checkbox"/> Armand                | <input checked="" type="checkbox"/> Bishop   | <input checked="" type="checkbox"/> Bourg       | <input checked="" type="checkbox"/> Davis       | <input checked="" type="checkbox"/> Ekey     |                                |  |  |  |  |
| X           | <input checked="" type="checkbox"/> Harrison   | <input checked="" type="checkbox"/> Jack     | <input checked="" type="checkbox"/> Looney      | <input checked="" type="checkbox"/> Wolfe       |                                              |                                |  |  |  |  |
| Day         | <input type="checkbox"/> Donatto               | <input type="checkbox"/> Grace               | <input type="checkbox"/> Johnson                | <input type="checkbox"/> Simonson               | <input type="checkbox"/> Vavasseur           |                                |  |  |  |  |
| Operators   |                                                |                                              |                                                 |                                                 |                                              |                                |  |  |  |  |
| Instruments | <input type="checkbox"/> Shanklin              | <input type="checkbox"/> Wayne               |                                                 |                                                 |                                              |                                |  |  |  |  |

DO A 032109  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

| A <i>W &amp; Initial</i>                                                                                 | DATE: <u>1 / 20</u> , 199 <u>5</u><br>FROM: <u>DUGAS / COOK</u>                                                                                                                            |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SUBJECT: <u>T-1830 SAMPLE</u>                                                                            |                                                                                                                                                                                            |
| This form is used to insure the attached information is communicated to the appropriate plant personnel. |                                                                                                                                                                                            |
| INITIATOR: Place a check mark by the group(s) needing to review.                                         |                                                                                                                                                                                            |
| EMPLOYEE: Please initial once review is complete.                                                        |                                                                                                                                                                                            |
| GROUP                                                                                                    | PERSONS NEEDING TO REVIEW                                                                                                                                                                  |
| Staff                                                                                                    | <u>W.H. Haney</u> Taylor    Miles    Bourne <u>KA</u> Kelley <u>A</u> Ledoux    Witt                                                                                                       |
| Supervisors                                                                                              | <u>X</u> Clebert <u>JRC</u> Cook, J. <u>DRD</u> Dugas <u>A.M.</u> Michel    Rizzo    Sauls<br>Trice <u>mm</u> Young                                                                        |
| SOS's<br><u>X</u>                                                                                        | <u>Hub</u> Breaux <u>BS</u> Beiler <u>CP</u> Bickham <u>NA</u> Cavalier <u>R</u> Cook, F. <u>W</u> Grant<br><u>JD</u> Gravouilla <u>AS</u> Jackson <u>DM</u> Metrejean <u>RM</u> Millender |
| OS's<br><u>X</u>                                                                                         | <u>WPA</u> Armand <u>CEB</u> Bishop <u>JS</u> Bourg <u>CD</u> Davis <u>LD</u> Doucet <u>AK</u> Ekey<br><u>DEH</u> Harrison <u>QJ</u> Jack <u>RJ</u> Looney <u>DW</u> Wolfe                 |
| Day Operators                                                                                            | Donatto    Grace    Johnson    Simonson    Vavasseur                                                                                                                                       |
| Instruments                                                                                              | Burris    Neyland    Shanklin                                                                                                                                                              |

DO A 032110  
CONFIDENTIAL

WE NEED TO BEGIN CATCHING T-1830 SAMPLE  
ONCE/WEEK ON SUNDAY NIGHTS.

THE BLISS SYSTEM IS PROGRAMMED TO  
REMIND US TO DO THIS.

DO A 032111  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

| Review & Initial                                                                                         |                                        | DATE: <u>1/20/</u> , 1995              |                                                                                                                    |
|----------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------|
|                                                                                                          |                                        | FROM: <u>DUGAS / COOK</u>              |                                                                                                                    |
| SUBJECT: <u>D-1 CONTROL SCHEME</u>                                                                       |                                        |                                        |                                                                                                                    |
| This form is used to insure the attached information is communicated to the appropriate plant personnel. |                                        |                                        |                                                                                                                    |
| INITIATOR: Place a check mark by the group(s) needing to review.                                         |                                        |                                        |                                                                                                                    |
| EMPLOYEE: Please initial once review is complete.                                                        |                                        |                                        |                                                                                                                    |
| GROUP                                                                                                    | PERSONS NEEDING TO REVIEW              |                                        |                                                                                                                    |
| Staff<br><u>X</u>                                                                                        | <u>DT</u> Taylor<br><u>W.H. Henry</u>  | <u>Ben</u> Miles                       | <u>Bourne</u> <u>Ken</u> Kelley <u>AK</u> Ledoux <u>Witt</u>                                                       |
| Supervisors<br><u>X</u>                                                                                  | <u>C</u> Clebert<br><u>Trice</u>       | <u>JCC</u> Cook, J.<br><u>My</u> Young | <u>SRD</u> Dugas <u>A.M.</u> Michel <u>Rizzo</u> <u>Sauls</u>                                                      |
| SOS's<br><u>X</u>                                                                                        | <u>sub</u> Breaux<br><u>Gravouilla</u> | <u>BB</u> Beiler<br><u>RJ</u> Jackson  | <u>CP</u> Bickham <u>MA</u> Cavalier <u>EC</u> Cook, F. <u>ur</u> Grant<br><u>DM</u> Metrejean <u>FM</u> Millender |
| OS's                                                                                                     | <u>Armand</u>                          | <u>Bishop</u>                          | <u>Bourg</u> <u>CD</u> Davis <u>ED</u> Doucet <u>AK</u> Ekey                                                       |
|                                                                                                          | <u>Harrison</u>                        | <u>Jack</u>                            | <u>Looney</u> <u>Wolfe</u>                                                                                         |
| Day Operators                                                                                            | <u>Donatto</u>                         | <u>Grace</u>                           | <u>Johnson</u> <u>Simonson</u> <u>Vavasseur</u>                                                                    |
| Instruments                                                                                              | <u>Burris</u>                          | <u>Neyland</u>                         | <u>Shanklin</u>                                                                                                    |

SEVERAL PROBLEMS WERE FOUND ON THE TDC REGARDING D-1 FEED FLOW TRANSMITTER AND D-1330 TO D-1320 FLOW TRANSMITTER.

THESE PROBLEMS HAVE BEEN CORRECTED AND IT NOW LOOKS LIKE THE OLD CONTROL SCHEME OF CONTROLLING THE FLOW TO D-1 WORKS MUCH BETTER.

WE HAVE CHANGED THE CONTROL SCHEME BACK TO THE ORIGINAL METHOD. THE ~~THE~~ <sup>DO</sup> MLBS/HR NUMBERS ARE NOW CORRECT.

CONTROL THE FLOW TO D-1 AT APPROXIMATELY 3 - 4 MLBS/HR FOR NOW, AND WE MAY TRY CUTTING THIS BACK A LITTLE MORE IN THE FUTURE.

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

view & Initial

DATE: 18-Jan, 1995

FROM: Adam Michel

SUBJECT: Review the following procedure in the event that we need the FIRE WATER header

1. Open the block limit valve at the Northwest roadway *North New C/Room*
2. Open the Jumper coming out of the ground at the north roadway. *North P-1320'2*
3. Open 6" jumper on the east side of the cooling tower
4. Refer to P&ID for valve location

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understand the material

| GROUP       | REVIEW                                                                   |
|-------------|--------------------------------------------------------------------------|
| St          | Miles <u>Bourne</u> <u>Kelley</u> <u>Ledoux</u>                          |
| X           | Young <u>Harvey</u>                                                      |
| Supervisors | ok, J. <u>Dugas</u> <u>Adam Michel</u> <u>Trice</u> <u>Rizzo</u>         |
| X           |                                                                          |
| SOS's       | Breaux <u>Beiler</u> <u>Bickham</u> <u>Cook, F.</u> <u>Cavalier</u>      |
| X           | Gravouilla <u>Jackson</u> <u>Metrejean</u> <u>Millender</u> <u>Grant</u> |
| OS's        | Armand <u>Bishop</u> <u>Bourg</u> <u>Davis</u> <u>Doucet</u> <u>Ekey</u> |
| X           | Harrison <u>Jack</u> <u>Looney</u> <u>Wolfe</u>                          |
| Day         | Donatto <u>Grace</u> <u>Johnson</u> <u>Simonson</u> <u>Vavasseur</u>     |
| Operators   |                                                                          |
| Instruments | Shanklin <u>Wayne</u>                                                    |

DO A 032114  
CONFIDENTIAL

FIREWATER

P & ID



DO A 032115  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

|                                                                                                                                 |                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Review & Initial                                                                                                                | DATE: 16-Jan _____, 1994<br>FROM: Gary Rizzo                                                                                                                                                                                                                                          |
| SUBJECT: Please review the following revised procedures<br>Taking a transmitter out of service # 460315<br><br><br><br><br><br> |                                                                                                                                                                                                                                                                                       |
| This form is used to insure the attached information is communicated to the appropriate plant personnel.                        |                                                                                                                                                                                                                                                                                       |
| INITIATOR: Place a check mark by the group(s) needing to review.                                                                |                                                                                                                                                                                                                                                                                       |
| EMPLOYEE: Please initial and date when you have reviewed and understand the material                                            |                                                                                                                                                                                                                                                                                       |
| GROUP      PERSONS NEEDING TO REVIEW                                                                                            |                                                                                                                                                                                                                                                                                       |
| Staff<br>X                                                                                                                      | _____ Taylor    _____ Miles    _____ Pourné <i>[Signature]</i> Kelley    _____ Ledoux<br>_____ Witt    _____ Young <i>[Signature]</i>                                                                                                                                                 |
| Supervisors<br>X                                                                                                                | _____ Clebert, J. <i>[Signature]</i> Cook, J. <i>[Signature]</i> Dugas    _____ Michel    _____ Trice    _____ Rizzo                                                                                                                                                                  |
| SOS's<br>X                                                                                                                      | <i>[Signature]</i> Breaux <i>[Signature]</i> Beiler <i>[Signature]</i> Bickham <i>[Signature]</i> Cook, F. <i>[Signature]</i> Cavalier<br><i>[Signature]</i> Gravouilla <i>[Signature]</i> Jackson <i>[Signature]</i> Metrejean <i>[Signature]</i> Millender <i>[Signature]</i> Grant |
| OS's<br>X                                                                                                                       | <i>[Signature]</i> Armand <i>[Signature]</i> Bishop <i>[Signature]</i> Doug <i>[Signature]</i> Davis <i>[Signature]</i> Doucet <i>[Signature]</i> Ekey<br><i>[Signature]</i> Harrison <i>[Signature]</i> Jack <i>[Signature]</i> Loney <i>[Signature]</i> Wolfe                       |
| Day<br>Operators                                                                                                                | _____ Donatto    _____ Grace    _____ Johnson    _____ Simonson    _____ Vavasseur                                                                                                                                                                                                    |
| Instruments                                                                                                                     | _____ Shanklin    _____ Wayne                                                                                                                                                                                                                                                         |

DO A 032116  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

|                                                                                                                                                                                                                |                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Review & Initial                                                                                                                                                                                               | DATE: 13-Jan, 1994 |
| FROM: Gary Rizzo                                                                                                                                                                                               |                    |
| SUBJECT: Please review the following revised procedures<br>Cl2 load change # 460581, E455 Start up # 460489, R250 cool down, #460013,<br>R250 Recharge # 460014, R250 Shutdown # 460010 & R750 Liguie # 460145 |                    |
| This form is used to insure the attached information is communicated to the appropriate plant personnel.                                                                                                       |                    |
| INITIATOR: Place a check mark by the group(s) needing to review.                                                                                                                                               |                    |
| EMPLOYEE: Please initial and date when you have reviewed and understand the material                                                                                                                           |                    |

| GROUP                   | PERSONS NEEDING TO REVIEW                                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Staff<br><b>X</b>       | _____ Taylor _____ Miles _____ Bourne <i>K92</i> Kelley _____ Ledoux<br>_____ Witt _____ Young <i>MMH</i>                                                                                    |
| Supervisors<br><b>X</b> | _____ Clebert, J. <i>JRC</i> _____ Cook, J. <i>OKD</i> _____ Dugas _____ Michel _____ Trice _____ Rizzo                                                                                      |
| SOS's<br><b>X</b>       | <i>Reb</i> Breaux <i>BB</i> Beiler <i>AG</i> Bickham <i>FC</i> Cook, F. <i>AK</i> Cavalier<br><i>DS</i> Gravouilla <i>AS</i> Jackson <i>DM</i> Metrejean <i>RM</i> Millender <i>ca</i> Grant |
| OS's<br><b>X</b>        | <i>AK</i> Armand <i>AS</i> Bishop <i>AS</i> Bourg <i>CD</i> Davis <i>UD</i> Doucet <i>JS</i> Ekey<br><i>DAH</i> Harrison <i>DS</i> Jack <i>RJ2</i> Looney <i>DW</i> Wolfe                    |
| Day Operators           | _____ Donatto _____ Grace _____ Johnson _____ Simonson _____ Vavasseur                                                                                                                       |
| Instruments             | _____ Shanklin _____ Wayne                                                                                                                                                                   |

DO A 032117  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

ew & Initial

DATE: 13-Jan, 1994

FROM: Gary Rizzo

SUBJECT: Please review the attached sheet concerning or annual procedure review process.

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understand the material

| GROUP       | PERSONS NEEDING TO REVIEW                                                                          |  |
|-------------|----------------------------------------------------------------------------------------------------|--|
| Staff       | _____ Taylor <u>BEM</u> Miles _____ Bourne <u>K</u> Kelley <u>SL</u> Ledoux                        |  |
| X           | _____ Witt <u>W</u> Young <u>W</u> <u>W</u> <u>W</u>                                               |  |
| Supervisors | <u>W</u> Clebert, J. <u>JRC</u> Cook, J. <u>W</u> Dugas <u>A.M.</u> Michel _____ Trice _____ Rizzo |  |
| X           |                                                                                                    |  |
| SOS's       | <u>W</u> Breaux <u>W</u> Beiler <u>W</u> Bickham <u>Fe</u> Cook, F. <u>W</u> Cavalier              |  |
| X           | <u>W</u> Gravouilla <u>W</u> Jackson <u>W</u> Metrejean <u>W</u> Millender <u>W</u> Grant          |  |
| OS's        | <u>W</u> Armand <u>W</u> Bishop <u>W</u> Bourg <u>W</u> Davis <u>W</u> Doucet <u>W</u> Ekey        |  |
| X           | <u>W</u> Harrison <u>W</u> Jack <u>W</u> Looney <u>W</u> Wolfe                                     |  |
| Day         | <u>W</u> Donatto _____ Grace <u>W</u> Johnson <u>W</u> Simonson <u>W</u> Vavasseur                 |  |
| Operators   |                                                                                                    |  |
| X           |                                                                                                    |  |
| Instruments | _____ Shanklin _____ Wayne                                                                         |  |

DO A 032118  
CONFIDENTIAL

Jan 13, 1995

To: Plant Personnel

re: Annual Procedure Review

It is once again time to begin our annual procedure review process. Only this year we are going to do it a little different from last year. This year we are not going to have to review and update the IPT modules and resource material. They will be updated when changes are warranted by the Management of Change process.

The process that we will use this year for annual review is similar to last years. Plant personnel have been assigned specific procedures that they are responsible for reviewing and if warranted, initiating the MOC process (This includes Area Engineers and Production Supervisor). The difference is how we will review the procedure and document the change.

The Master Procedure List Book that contains a list of all the documents that we presently have in our system has been revised to include columns for personnel assignments, review dates, MOC required and initial. A Lab Master book will be kept in the lab and a Loading Master Book will be kept on the Load Rack. It is very important that these books do not become misplaced since they are our only source of documentation for revisions.

The actual process in reviewing a procedure will be as follows:

When a task that is being performed requires a procedure to be used, the operator will pull the procedure and review it for accuracy just as it is done now. If, after reviewing the procedure you note that there are no changes required, locate the procedure in the Master Procedure Book and fill in the space provided for the Date Reviewed and Reviewed By. In this way, as we use procedures throughout the year they will automatically be reviewed and documented.

If a procedure needs to be changed, the person reviewing the procedure will follow the same process as stated above and also place a check mark in the place provided for MOC Required. The reviewer will then be responsible for implementing the MOC process. Meaning that the changes should be noted on the procedure and an MOC form filled out with the reviewer signed off as the Originator. The MOC and the attached procedure are then forwarded to the Shift Supervisor or Area Engineer for review and update and then to the production supervisor for final approval. Area Engineer or Shift Supervisor will then be responsible, as they are now, for getting the procedure to the Training Supervisor so that it can be updated in the system.

**We need to have all the procedures reviewed by the end of the 3rd quarter. It is the responsibility of each operator to ensure that their assigned procedures are reviewed and documented.**

Please contact me or your shift supervisor should you have any questions concerning this process.

Thank You

Gary Rizzo

DO A 032119  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

Review & Initial

DATE: 1/12, 199 5

FROM: Jim Harey

SUBJECT: D-1 Feed Flow Controller Change

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial once review is complete.

| GROUP            | PERSONS NEEDING TO REVIEW                                                                                                                                                                      |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Staff<br>✓       | <u>DM</u> Taylor <u>BCM</u> Miles <u>   </u> Bourne <u>KK</u> Kelley <u>SK</u> Ledoux <u>   </u> Witt<br><u>JH</u> Harey                                                                       |
| Supervisors<br>✓ | <u>CC</u> Clebert <u>JRC</u> Cook, J. <u>DD</u> Dugas <u>J.M</u> Michel <u>   </u> Rizzo <u>   </u> Sauls<br><u>   </u> Trice <u>MY</u> Young                                                  |
| SOS's<br>✓       | <u>HB</u> Breaux <u>BB</u> Beiler <u>CF</u> Bickham <u>MC</u> Cavalier <u>FC</u> Cook, F. <u>   </u> Grant<br><u>DD</u> Gravouilla <u>   </u> Jackson <u>DM</u> Metrejean <u>   </u> Millender |
| OS's<br>✓        | <u>NRK</u> Armand <u>CEB</u> Bishop <u>   </u> Bourg <u>CD</u> Davis <u>ED</u> Doucet <u>   </u> Ekéy<br><u>DD</u> Harrison <u>DS</u> Jack <u>RJJ</u> Looney <u>DW</u> Wolfe                   |
| Day Operators    | <u>   </u> Donatto <u>   </u> Grace <u>   </u> Johnson <u>   </u> Simonson <u>   </u> Vavasseur                                                                                                |
| Instruments      | <u>   </u> Burris <u>   </u> Neyland <u>   </u> Shanklin                                                                                                                                       |

DO A 032120  
CONFIDENTIAL

**Communique**  
**From: Jim Haney**  
**Subject: D-1 Feed Flow Controller Change**

The flow indication input for the D-1 feed controller, FRC-28710, has been changed. The controller now uses the D-1330 to D-1320 flow indication as its input for control instead of the D-1 inlet. The D-1 inlet flow indication(FT-28710) is now located in Group 158 on the TDC. The D-1 flow controller is still located in Group 122, but now the D-1330 to D-1320 flow is displayed in the slot. This change was made in order to stabilize the flow controller since the D-1330 to D-1320 flow is cleaner than the D-1 feed flow (flowmeter less likely to plug).

1/12/52

DO A 032121  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

Review & Initial

DATE: 1/11, 199 5

FROM: M. Bourne

SUBJECT: Mod 5 Code to Distillation

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial once review is complete.

| GROUP                                              | PERSONS NEEDING TO REVIEW                                                                                                                                                                         |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Staff<br><input checked="" type="checkbox"/>       | <u>DWT</u> Taylor <u>BEM</u> Miles <u>    </u> Bourne <u>Ka</u> Kelley <u>    </u> Ledoux <u>    </u> Witt<br><u>MH</u> Honey                                                                     |
| Supervisors<br><input checked="" type="checkbox"/> | <u>    </u> Clebert <u>JRC</u> Cook, J. <u>ded</u> Dugas <u>    </u> Michel <u>    </u> Rizzo <u>    </u> Sauls<br><u>    </u> Trice <u>    </u> Young                                            |
| SOS's<br><input checked="" type="checkbox"/>       | <u>Rub</u> Breaux <u>BIB</u> Beiler <u>af</u> Bickham <u>MA</u> Cavalier <u>EC</u> Cook, F. <u>CE</u> Grant<br><u>DD</u> Gravouilla <u>    </u> Jackson <u>DM</u> Metrejean <u>    </u> Millender |
| OS's                                               | <u>    </u> Armand <u>    </u> Bishop <u>    </u> Bourg <u>CH</u> Davis <u>1Ed</u> Doucet <u>    </u> Ekey<br><u>    </u> Harrison <u>    </u> Jack <u>    </u> Looney <u>    </u> Wolfe          |
| Day Operators                                      | <u>    </u> Donatto <u>    </u> Grace <u>    </u> Johnson <u>    </u> Simonson <u>    </u> Vavasseur                                                                                              |
| Instruments                                        | <u>    </u> Burris <u>    </u> Neyland <u>    </u> Shanklin                                                                                                                                       |

DO A 032122  
CONFIDENTIAL

The following list summarizes the changes to the distillation area which will be incorporated into the next upload scheduled for Tuesday January the 1<sup>st</sup>. Please look over the list.

1. C-1540 overhead analyzer control scheme will now become disabled and drop analyzer control if the analyzer fails due to software detection.
2. C-1520 overhead analyzer control scheme will now become disabled and drop analyzer control if the analyzer fails due to software detection.
3. C-1520 attic and tray 17 thermocouples will now be used as an indication of 2 breakthrough in the bottom's. A differential temperature between the two thermocouples is alarmed at AC(1203) for a 1500FST alarm and AC(1212) for a new WH(11)C alarm WH(1135). WH(1225) will be responsible for zeroing OX(61) which will swap C-1520 attic's from point to C-1525 to T-1500.
4. The C-1510 mass fraction F(144) will now be ramped to a newly entered value instead of operations' having to change the ratio. The ramp is incorporated into both of the function generators for C-1510.
5. A delay timer was added to AC(150) - T-1500 pump out AIA for purposes of allowing the line to drain after the pump has shutdown.
6. AC(114) - T-1500 level to T-1500 will now become disabled unless the level rises two percent above the level setpoint when not level controlling to T-1500. If T-1500 is being level controlled to F-150, AC(114) will not become enabled until reaching the high level control setpoint.

4-5

1/1/74

DO A 032123  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

view & Initial

DATE: 6-Jan, 1994

FROM: Gary Rizzo

SUBJECT: The following procedures have been placed in the system or have been revised.

Acidsafe #460587, E455Start up #460489, Pulling and Cleaning the H2So4 Make up valve 460589  
P1541 pump procedure # 460590, Swapping the P-255 pumps # 460591,  
Swapping the P-301 pumps # 460592, H20fil.doc # 460553

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial and date when you have reviewed and understand the material

| GROUP       | PERSONS NEEDING TO REVIEW |          |
|-------------|---------------------------|----------|
| Staff       | Taylor                    | Miles    |
| X           | Witt                      | Young    |
| Supervisors | Clebert, J.               | Cook, J. |
| X           | Dugas                     | Michel   |
| SOS's       | Breaux                    | Beieler  |
| X           | Gravouilla                | Jackson  |
| OS's        | Armand                    | Bishop   |
| X           | Harrison                  | Jack     |
| Day         | Donatto                   | Grace    |
| Operators   | Johnson                   | Simonson |
| X           | Vavasseur                 |          |
| Instruments | Shanklin                  | Wayne    |

DO A 032124  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

Review & Initial

DATE: JAN 5, 199 5

FROM: Kevin Kelley

SUBJECT: Tested Sealants Screen on PDP-11

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial once review is complete.

| GROUP              | PERSONS NEEDING TO REVIEW                         |                                         |                                          |                                           |                     |                              |
|--------------------|---------------------------------------------------|-----------------------------------------|------------------------------------------|-------------------------------------------|---------------------|------------------------------|
| Staff<br>✓         | <u>DW</u> Taylor<br><u>SM</u> <del>Harvey</del>   | <u>BE</u> Miles                         | <u>   </u> Bourne                        | <u>KD</u> Kelley                          | <u>M</u> Ledoux     | <u>   </u> <del>Witt</del>   |
| Supervisors<br>✓   | <u>   </u> <del>Clebert</del><br><u>   </u> Trice | <u>JRC</u> Cook, J.<br><u>JMY</u> Young | <u>DRD</u> Dugas                         | <u>A.M.</u> Michel                        | <u>   </u> Rizzo    | <u>   </u> <del>Saults</del> |
| SOS's<br>✓         | <u>LB</u> Breaux<br><u>GD</u> Gravouilla          | <u>BB</u> Beiler<br><u>J</u> Jackson    | <u>27</u> Bickham<br><u>DM</u> Metrejean | <u>UP</u> Cavalier<br><u>AM</u> Millender | <u>AC</u> Cook, F.  | <u>   </u> Grant             |
| OS's<br>✓          | <u>AK</u> Armand<br><u>DRH</u> Harrison           | <u>CB</u> Bishop<br><u>OS</u> Jack      | <u>JB</u> Bourg<br><u>RL</u> Looney      | <u>CD</u> Davis<br><u>DW</u> Wolfe        | <u>160</u> Doucet   | <u>   </u> <del>Ekey</del>   |
| Day Operators<br>✓ | <u>BDP</u> Donatto                                | <u>H.G.</u> Grace                       | <u>GG</u> Johnson                        | <u>TS</u> Simonson                        | <u>TV</u> Vavasseur |                              |
| Instruments        | <u>   </u> Burris                                 | <u>   </u> Neyland                      | <u>   </u> Shanklin                      |                                           |                     |                              |

DO A 032125  
CONFIDENTIAL

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## OPERATIONS COMMUNIQUE

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### Leak Repair Sealants Update

K. KELLEY

1/4/95

During CMP's August 1994 reactive chemical audit, it was noted that CMP's existing PDP-11 list of tested sealants is constantly in need of updates. The group decided that the best way to ensure all of the latest testing data is available for leak repairs is to refer to the LACSDC Vax "Safety" Menu. The safety menu is continuously updated as new tests are performed, thus eliminating the need for CMP to constantly update the PDP-11 list.

The current "Tested Sealants" list existing on PDP-11 text screen #6 and is 7 pages long. In the near future, the text in this sheet will be replaced with the paragraph below. This will allow operations and engineers to know the proper place to refer to in case leak repair is needed.

---

#### CMP Leak Repair Tested Sealants:

In order to ensure the most up to date version of the division's reactive chemical tests are referred to when installing leak clamps, refer to the division's list. It can be accessed from the LACSDC Vax cluster by accessing the "Safety Menu". Type "SAFETY" at the Vax prompt and enter the correct menu option for "LAD Reactive Chemicals Program". The option for "Leak Repair Sealant Compatibility" should be chosen. Contact shift supervisor or area engineer for assistance in accessing the data base.

---

Kevin K.



DO A 032126  
CONFIDENTIAL

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

Review & Initial

DATE: JAN 5, 199 5

FROM: R. Kelley

SUBJECT: 1995 Hog Body Contest

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial once review is complete.

| GROUP              | PERSONS NEEDING TO REVIEW                                                                                                                                                                          |  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Staff<br>✓         | <u>Ans</u> Taylor <u>BEM</u> Miles <u>   </u> Bourne <u>RK</u> Kelley <u>Z</u> Ledoux <u>   </u> Witt                                                                                              |  |
| Supervisors<br>✓   | <u>   </u> Clebert <u>JRC</u> Cook, J. <u>   </u> Dugas <u>H.M.</u> Michel <u>   </u> Rizzo <u>   </u> Sauls<br><u>   </u> Trice <u>   </u> Young                                                  |  |
| SOS's<br>✓         | <u>   </u> Breaux <u>   </u> Beiler <u>ef</u> Bickham <u>WK</u> Cavalier <u>REC</u> Cook, F. <u>   </u> Grant<br><u>   </u> Gravouilla <u>   </u> Jackson <u>DM</u> Metrejean <u>   </u> Millender |  |
| OS's<br>✓          | <u>   </u> Armand <u>   </u> Bishop <u>   </u> Bourg <u>CD</u> Davis <u>LB</u> Doucet <u>   </u> Ekey<br><u>   </u> Harrison <u>OS</u> Jack <u>RL</u> Looney <u>DW</u> Wolfe                       |  |
| Day Operators<br>✓ | <u>   </u> Donatto <u>   </u> Grace <u>   </u> Johnson <u>   </u> Simonson <u>   </u> Vavasseur                                                                                                    |  |
| Instruments<br>✓   | <u>   </u> Burris <u>   </u> Neyland <u>   </u> Shanklin                                                                                                                                           |  |

DO A 032127  
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## 1995 Hog Body Contest

All CMP (Chlorinated Methanes Porkers) are invited to enter the 1995 Hog Body Contest. This is the third annual weight loss competition. Last year's contestants lost a whopping four pounds on the average. As you can see, every one has a decent shot at victory in our group of overachievers.

As was done in past competitions, the contestants will be divided into 2 groups. The "piglet bodies" and the "fat-old-sow bodies". The group will be split in two according to weight. In the event of an odd number of people, the person on the bubble will be competing with the "fat-old-sows". Weigh in should be completed by January 13, 1995. The competition will last 4 months, with final weigh outs done between May 1-8, 1995. As always, weigh in's and out's should be witnessed by a fellow competitor, according to the rules in the "Rules" section below. Penalty for conspiracy to cheat is life ineligibility for further competition, and a mandatory 6 month Slim-Fast diet. Moneys will be divided equally between the two least Hoggy bodies (largest % loss of start weight) at the end of the competition. Good Luck, and - from a fellow competitor - eat lots of crawfish and drink a lot this spring!

### Rules:

Open to CMP employees and support personnel with residence at Methanes.

Weigh in must be conducted without shoes, anything in pockets or any extras (i.e. jackets, hats, ankle weights, etc.) At weigh out, participants must wear pants and shirt, but shoes and other extras are acceptable.

Competitors are encouraged to bring snacks for their opponents.

Loss of a limb, limbs, or life disqualifies a participant. Entry fee refunded in full (less \$19.95 processing fee).

Entry fee will be \$20. At weigh out, one dollar per pound gained will be paid as a penalty. There is a stop loss of \$9 in penalty payments. Entry fee due by January 31, 1995 or the heaviest competitor sits on you.

All weights will rounded to the nearest pound (199.49 = 199 and 199.50 = 200). No exceptions.

Kevin will be official record keeper. A weigh in log will be posted by the scales.

# CHLORINATED METHANE PRODUCTS COMMUNIQUE'

Review & Initial

DATE: 1/4, 199 5

FROM: Kenn Kelley

SUBJECT: E-455 Start Up Procedure

This form is used to insure the attached information is communicated to the appropriate plant personnel.

INITIATOR: Place a check mark by the group(s) needing to review.

EMPLOYEE: Please initial once review is complete.

| GROUP         | PERSONS NEEDING TO REVIEW                                                                                                                                                                                     |  |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Staff         | <input checked="" type="checkbox"/> Taylor <u>BEM</u> Miles <u>_____</u> Bourne <u>KK</u> Kelley <u>KL</u> Ledoux <u>_____</u> Witt                                                                           |  |
| Supervisors   | <input checked="" type="checkbox"/> <u>_____</u> Ctebert <u>JRC</u> Cook, J. <u>DRD</u> Dugas <u>_____</u> Michel <u>_____</u> Rizzo <u>_____</u> Sauls<br><u>_____</u> Trice <u>_____</u> Young              |  |
| SOS's         | <u>_____</u> Breaux <u>B/B</u> Beiler <u>ef.</u> Bickham <u>MAC</u> Cavalier <u>FC</u> Cook, F. <u>_____</u> Grant<br><u>_____</u> Gravouilla <u>_____</u> Jackson <u>DM</u> Metrejean <u>_____</u> Millender |  |
| OS's          | <u>_____</u> Armand <u>CEB</u> Bishop <u>_____</u> Bourg <u>CH</u> Davis <u>_____</u> Doucet <u>_____</u> Ekey<br><u>_____</u> Harrison <u>DS</u> Jack <u>RJZ</u> Looney <u>DW</u> Wolfe                      |  |
| Day Operators | <u>_____</u> Donatto <u>_____</u> Grace <u>_____</u> Johnson <u>_____</u> Simonson <u>_____</u> Vavasseur                                                                                                     |  |
| Instruments   | <u>_____</u> Burris <u>_____</u> Neyland <u>_____</u> Shanklin                                                                                                                                                |  |

DO A 032129  
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## OPERATIONS COMMUNIQUE

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**E-455 Start Up Procedure Update**  
**K. KELLEY**  
**1/4/95**

The E-455 start up procedure has been modified. The revisions deal with the cooldown of the system during start up. The revised procedure is attached. Gary will have the system updated in the next few days.

See me or your supervisor with questions.

Kevin K.



DO A 032130  
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**CMP PROCEDURE**  
**E-455 START UP PROCEDURE (E455SU.DOC)**  
**PROCEDURE # 460489**

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|                                        |                                                                                                                                                                                                                                     |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PURPOSE</b>                         | To ensure the safe start up of the DV-455 vent recovery system.                                                                                                                                                                     |
| <b>SCOPE</b>                           | This procedure covers the line up of equipment and routine valving associated with a normal start up of the E-455 vent recovery system.                                                                                             |
| <b>RELATED PROCEDURES</b>              | N2TRUCK.DOC -Liquid N2 tank truck offload procedure<br>E455SD.DOC - E-455 system shutdown                                                                                                                                           |
| <b>DEFINITIONS</b>                     | Air Liquide- Liquid nitrogen tank vendor.                                                                                                                                                                                           |
| <b>SAFETY CONCERNS &amp; EQUIPMENT</b> | Frostbite : Line openings on any liquid nitrogen system are very hazardous because of the threat of frostbite.<br>Additional safety items required for a liquid nitrogen line opening are: long sleeves, heavy gloves, face shield. |
| <b>ENVIRONMENTAL CONCERNS</b>          | The system must be started up properly to ensure the vent recovery system will operate correctly. This system is required in order to control methanol emissions to the atmosphere.                                                 |
| <b>SPECIAL CONCERNS</b>                | None.                                                                                                                                                                                                                               |

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**E-455 START UP PROCEDURE (E455SU.DOC)**

4 Cool down the liquid N2 line to E-455 as per following page. \_\_\_\_\_

5 All bleed valves are closed and blinded or plugged \_\_\_\_\_

Checklist complete: \_\_\_\_\_

Approved by: \_\_\_\_\_  
(supervisor or boardman)

Date/Time: \_\_\_\_\_

Date/Time: \_\_\_\_\_

DO A 032132  
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12e

**E-455 START UP PROCEDURE (E455SU.DOC)**

**PROCEDURE**

**E-455 Vent System Start-Up**

| Step | Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Move E-455 sequence 52 to Step 520. Ensure all red tags are cleared and the system is ready for start up. T-455, liquid nitrogen tank should have an adequate level in it for start up. All control valves except the liquid N2 C/V should be in auto, all instruments should be in normal mode.                                                                                                                                                                                                                                                                                                           |
| 2    | Terminate to Step 521. The OS should begin lining up the system as per the outside OS checklist.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3    | System cooldown. Ensure the liquid N2 b/v at T-455 is closed. Open the liquid N2 C/V in manual to 100%. The OS should then open the manual B/V at T-455 1/4 to 1/2 turn. A steady, heavy vent should be coming out of the PRV near E-455 on top of DV-455. Watch E-455 outlet temperature. When it becomes less than 0 C, the OS will open the manual B/V <i>one full turn</i> . Complete the line cooldown <i>by maintaining flow</i> until the E-455 outlet temperature is less than -40 C. <i>Place the N2 control valve in automatic. Open the manual B/V at the liquid nitrogen tank all the way.</i> |
| 4    | Complete the E-455 Start Up Check Sheet & Mod V Check Sheet. Review the AK's and AP's through the Dynamic Data Display (GPI option 18).<br><br>(NOTE: The check sheets only need to be filled out if we are starting up after being down for a long duration)                                                                                                                                                                                                                                                                                                                                              |
| 5    | Terminate step 521 to step 522.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 6    | Once the MOD enters step 522, ensure that all controllers are enabled for normal operation. AO(515) and AO(504) should control DV-455 pressure, while AO(514) works to control the temperatures around E-455 based on the pressure in DV-455                                                                                                                                                                                                                                                                                                                                                               |

DO A 032133  
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