

Sch #1

DATE: MARCH 30, 1988

FROM: PROCESS MANAGER
PYROLYSIS IIITO: SCHEDULE 1 -
SCHEDULE 2 -
SCHEDULE 3 -
SCHEDULE 4 -

8

SUBJECT: SAFETY MEETING AND EMERGENCY DRILL FOR ~~MARCH~~ APRIL 1988

SAFETY ORDER: S-125 "ASBESTOS" - 551.4

VIDEO: ASBESTOS IN THE WORKPLACE

EMERGENCY DRILL: "INSTANT" LOSS OF FURNACES DUE TO A
SHORT-TERM POWER FAILURE. 551.4

THE ATTACHED SAFETY ORDER AND EMERGENCY DRILL ARE FOR
YOUR STUDY AND DISCUSSION. IT IS VERY IMPORTANT THAT EVERYONE
UNDERSTAND AND COMPLY WITH THIS SAFETY ORDER.

PLEASE HAVE EVERYONE SIGN THE TRAINING FORM ON ASBESTOS
TRAINING, THIS FORM, AND ANSWER THE EMERGENCY DRILL QUESTIONS
AND SEND FORMS BACK TO ME.

EVERYONE PLEASE REVIEW THE MATERIAL AND MAKE NOTES TO
PREPARE FOR THE MEETING.

S. A. Grant
S. A. GRANT

INITIALS /

TIME OF DRILLS			
SCHEDULE 1	04/22/88	AT	0900 HRS
SCHEDULE 2	04/29/88	AT	0900 HRS
SCHEDULE 3	04/08/88	AT	0900 HRS
SCHEDULE 4	04/15/88	AT	0900 HRS

kdy

Attachment

cc: w/o Attachment
J. W. Griffiths
S. A. Grant
J. L. Weatherford
Olefins Satellite File

E KERO
W KERO.
GASOIL
FRACT
ETHANE
STF
EXTRA
EXTRA

FOREMAN

PM/OS

LAM 013086

EMERGENCY ACTION DRILL

- A. Emergency: Loss of normal and emergency power to all furnace shutdown systems. Loss of power is short term.
- B. Unit Conditions: F-P3-1010 through F-P3-1080 are kero. feed
F-P3-1110 through F-P3-1130 on gas oil feed
F-P3-1140 down for rebuild
F-P3-1090 on ethane feed
F-P3-1100 down for repairs
FOL-700 and FOL-710 on ethane
- C. Normal crew
- D. All on-line furnaces trip, however, power is available within five minutes for restart.
1. What action would be taken on furnaces?
BLOCK BURNERS, CLOSE DAMPERS
 2. What steps would be taken to conserve heat?
CUT BACK STEAM, CLOSE DAMPERS
 3. What would you do if factory mutual would not reset on one of the furnaces? *GO TO ANOTHER FURNACE.*
 4. What action would be taken on CP-1001 to control temperature? What happens to overhead fans?
CUT BACK REFLUX
 5. What other Shift foremen would be notified? Why?
UTILITIES, BD-HT.

LAM 013087

EMERGENCY ACTION DRILL

6. Would extra help be needed?
YES, CALL OUT 3 OR 4 DOORIE
7. Would maintenance repairs be affected on
F-P3-1140/1100? REPAIRS WILL BE STOPPED UNTIL THE
PLANT IS STABLE.
8. What would your crew assignment be?
 - a. 2 OPERATORS ON THE BOARD
 - b. 3 OUTSIDE BLOCKING IN BURNERS AND ASSISTING
 - c. TK FARM OPER. SECURE FEED PUMPS.
 - d.
 - e.
9. Problems or comments?

LAM 013088

DPMC-14409

DATE: MARCH 30, 1988

Sch #2

FROM: PROCESS MANAGER
PYROLYSIS III

TO: SCHEDULE 1 -
SCHEDULE 2 -
SCHEDULE 3 -
SCHEDULE 4 -

SUBJECT: SAFETY MEETING AND EMERGENCY DRILL FOR ~~MARCH~~ ^{APRIL} 1988

SAFETY ORDER: S-125 "ASBESTOS"

VIDEO: ASBESTOS IN THE WORKPLACE

EMERGENCY DRILL: "INSTANT" LOSS OF FURNACES DUE TO A
SHORT-TERM POWER FAILURE.

THE ATTACHED SAFETY ORDER AND EMERGENCY DRILL ARE FOR
YOUR STUDY AND DISCUSSION. IT IS VERY IMPORTANT THAT EVERYONE
UNDERSTAND AND COMPLY WITH THIS SAFETY ORDER.

PLEASE HAVE EVERYONE SIGN THE TRAINING FORM ON ASBESTOS
TRAINING, THIS FORM, AND ANSWER THE EMERGENCY DRILL QUESTIONS
AND SEND FORMS BACK TO ME.

EVERYONE PLEASE REVIEW THE MATERIAL AND MAKE NOTES TO
PREPARE FOR THE MEETING.

S. A. Grant
S. A. GRANT

INITIALS

	TIME OF DRILLS		
SCHEDULE 1	04/22/88	AT	0900 HRS
SCHEDULE 2	04/29/88	AT	0900 HRS
SCHEDULE 3	04/08/88	AT	0900 HRS
SCHEDULE 4	04/15/88	AT	0900 HRS

kdy

Attachment

cc: w/o Attachment
J. W. Griffiths
S. A. Grant
J. L. Weatherford
Olefins Satellite File

E KERO
W KERO
GASOIL
FRACT
ETHANE
STF
EXTRA
EXTRA

FOREMAN

PM/OS

LAM 013089

DPMC-14410

EMERGENCY ACTION DRILL

- A. Emergency: Loss of normal and emergency power to all furnace shutdown systems. Loss of power is short term.
- B. Unit Conditions: F-P3-1010 through F-P3-1080 are kero. feed
F-P3-1110 through F-P3-1130 on gas oil feed
F-P3-1140 down for rebuild
F-P3-1090 on ethane feed
F-P3-1100 down for repairs
FOL-700 and FOL-710 on ethane
- C. Normal crew
- D. All on-line furnaces trip, however, power is available within five minutes for restart.
1. What action would be taken on furnaces?
*CLOSE EACH BURNER FUEL GAS VALVE.
START RESETTING FACTORY MUTUAL.*
 2. What steps would be taken to conserve heat?
*CLOSE DAMPER
CUT BACK ON DILUTION STEAM, START NATURAL GAS
TO FRACTIONATOR IF NEEDED*
 3. What would you do if factory mutual would not reset on one of the furnaces?
*WATCH TEMPERATURE, TAKE OUT OF FRACTIONATOR
BEFORE DILUTION STEAM STARTS CONDENSING.
WORK ON FACTORY MUTUAL AFTER ALL OTHER FURNACES ARE*
 4. What action would be taken on CP-1001 to control temperature? What happens to overhead fans?
*SLOW DOWN LOOP CIRCULATIONS, MANUALLY CUT OFF
OVERHEAD FANS. BYPASS STEAM GENERATORS*
 5. What other Shift foremen would be notified? Why?
*L.O. III - WOULD EFFECT UNIT OPERATIONS
B.D. III - MUST STOP BDHE FLOW
ENVIRONMENTAL - POSSIBLE USE OF ELEVATED FLARE
C.P.S - DRASTIC REDUCTION IN 1250°F STEAM PRODUCTION
HT II - COORDINATOR OF H₂S USAGE*

LAM 013090

EMERGENCY ACTION DRILL

6. Would extra help be needed?

YES

7. Would maintenance repairs be affected on FIRST.
F-P3-1140/1100?

FOUR EXTRA OPERATORS WOULD BE CALLED OUT
WITH NO REGARDS TO OVERTIME HOURS. PEOPLE
WHO ARE LIVING CLOSEST TO THE PLANT WOULD BE CALLED
ALL MAINTENANCE JOBS WOULD BE
SHUT DOWN. MAINTENANCE PERSONNEL WOULD
BE DIRECTED TO LEAVE THE AREA

8. What would your crew assignment be?

- a. FRACT OPERATOR TO WORK FRACTIONATOR
- b. GAS OIL OPERATOR TO WORK ALL FURNACE BOARDS
- c. STF AND ALL OTHER AVAILABLE OPERATORS
- d. TO ASSIST IN GETTING FACTORY MUTUAL SYSTEMS
- e. RESET AND FURNACES BACK ON LINE.

9. Problems or comments?

ORDER OVERTIME MEALS

LAM 013091

DPMC-14412

DATE: MARCH 30, 1988

Sch # 3

FROM: PROCESS MANAGER
PYROLYSIS III

TO: SCHEDULE 1 -
SCHEDULE 2 -
SCHEDULE 3 -
SCHEDULE 4 -

SUBJECT: SAFETY MEETING AND EMERGENCY DRILL FOR ^{APRIL} MARCH 1988

SAFETY ORDER: S-125 "ASBESTOS"

VIDEO: ASBESTOS IN THE WORKPLACE

EMERGENCY DRILL: "INSTANT" LOSS OF FURNACES DUE TO A
SHORT-TERM POWER FAILURE.

THE ATTACHED SAFETY ORDER AND EMERGENCY DRILL ARE FOR
YOUR STUDY AND DISCUSSION. IT IS VERY IMPORTANT THAT EVERYONE
UNDERSTAND AND COMPLY WITH THIS SAFETY ORDER.

PLEASE HAVE EVERYONE SIGN THE TRAINING FORM ON ASBESTOS
TRAINING, THIS FORM, AND ANSWER THE EMERGENCY DRILL QUESTIONS
AND SEND FORMS BACK TO ME.

EVERYONE PLEASE REVIEW THE MATERIAL AND MAKE NOTES TO
PREPARE FOR THE MEETING.

S. A. Grant
S. A. GRANT

INITIALS

	TIME OF DRILLS		
SCHEDULE 1	04/22/88	AT	0900 HRS
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SCHEDULE 3	04/08/88	AT	0900 HRS
SCHEDULE 4	04/15/88	AT	0900 HRS

kdy

Attachment

cc: w/o Attachment
J. W. Griffiths
S. A. Grant
J. L. Weatherford
Olefins Satellite File

E KERO
W KERO
GASOIL
FRACT
ETHANE
STF
EXTRA
EXTRA

FOREMAN

PM/OS

LAM 013092

DPMC-14413

EMERGENCY ACTION DRILL

- A. Emergency: Loss of normal and emergency power to all furnace shutdown systems. Loss of power is short term.
- B. Unit Conditions: F-P3-1010 through F-P3-1080 are kero. feed
F-P3-1110 through F-P3-1130 on gas oil feed
F-P3-1140 down for rebuild
F-P3-1090 on ethane feed
F-P3-1100 down for repairs
FOL-700 and FOL-710 on ethane
- C. Normal crew
- D. All on-line furnaces trip, however, power is available within five minutes for restart.
1. What action would be taken on furnaces?
SECURE BURNERS, CLOSE DAMPERS DOWN, CUT DILUTION STEAM BACK TO MIN. TO HELP FRACT.
 2. What steps would be taken to conserve heat?
PINCH DOWN ON DAMPERS
 3. What would you do if factory mutual would not reset on one of the furnaces?
SECURE IT & LEAVE IT UNTIL LATER WHEN TIME PERMITS.
 4. What action would be taken on CP-1001 to control temperature? What happens to overhead fans?
INSURE THAT CHGD CIRCULATION IS UNINTERRUPTED. MAKE SURE TURBINES ARE UP.
 5. What other Shift foremen would be notified? Why?
LO 3, UTILITIES, B&B, UCC, ENVIRONMENTAL.

LAM 013093

EMERGENCY ACTION DRILL

6. Would extra help be needed?
YES, CALL OUT AN EXTRA FURNACE
AND EXTRA TRACT. OPERATOR. AT LEAST.
7. Would maintenance repairs be affected on
F-P3-1140/1100?
YES SHUT DOWN JOBS UNTIL UNIT IS STABILIZED
8. What would your crew assignment be?
 - a. 1 FURNACE BOARD OPERATORS
 - b. 3 FURNACE OPERATORS SECURING BURNERS & LIGHTING OFF
 - c. STF - CONTROLLING FELD PUMPS & FICS.
 - d. TRACT OPERATOR - WATCHING BOARD & HELPING ON FURNACE BOARDS
 - e. STF - CALL OUT HELP, COORDINATE WITH LO-3 RESTART OF FURNACES.
CREATE A DECKING ORDER.
9. Problems or comments?

OFFICE PERSONNEL USUALLY TRY TO HELP, BUT
OFTEN TIMES CAUSE SOME CONFUSION AND MAKE PEOPLE
NERVOUS (MOST PEOPLE ARE SCARED & ON EDGE DURING A
LARGE UPSET ANYWAY).

ENGINEERS: HELP OUT, CLOSING BURNERS & TURNING
KNOBS WHEN OPERATOR IS AGREEABLE & KNOWS WHAT
THE ENGINEER IS DOING AT ALL TIMES.

MGR. & O.S. - PLEASE RELAY ORDERS TO CREW
THROUGH THE SHIFT FOREMAN, TO AVOID REPEAT
ORDERS & WASTING TIME.

LAM 013094

DPMC-14415

Sch #4

DATE: MARCH 30, 1988

FROM: PROCESS MANAGER
PYROLYSIS III

TO: SCHEDULE 1 -
SCHEDULE 2 -
SCHEDULE 3 -
SCHEDULE 4 -

SUBJECT: SAFETY MEETING AND EMERGENCY DRILL FOR *APRIL* MARCH 1988

SAFETY ORDER: S-125 "ASBESTOS"

VIDEO: ASBESTOS IN THE WORKPLACE

EMERGENCY DRILL: "INSTANT" LOSS OF FURNACES DUE TO A
SHORT-TERM POWER FAILURE.

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YOUR STUDY AND DISCUSSION. IT IS VERY IMPORTANT THAT EVERYONE
UNDERSTAND AND COMPLY WITH THIS SAFETY ORDER.

PLEASE HAVE EVERYONE SIGN THE TRAINING FORM ON ASBESTOS
TRAINING, THIS FORM, AND ANSWER THE EMERGENCY DRILL QUESTIONS
AND SEND FORMS BACK TO ME.

EVERYONE PLEASE REVIEW THE MATERIAL AND MAKE NOTES TO
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S. A. Grant
S. A. GRANT

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SCHEDULE 3	04/08/88	AT	0900 HRS
SCHEDULE 4	04/15/88	AT	0900 HRS

kdy

Attachment

cc: w/o Attachment
J. W. Griffiths
S. A. Grant
J. L. Weatherford
Olefins Satellite File

E KERO
W KERO
GASOIL
FRACT
ETHANE
STF
EXTRA
EXTRA

FOREMAN

PM/OS

LAM 013095

EMERGENCY ACTION DRILL

- A. Emergency: Loss of normal and emergency power to all furnace shutdown systems. Loss of power is short term.
- B. Unit Conditions: F-P3-1010 through F-P3-1080 are kero. feed
F-P3-1110 through F-P3-1130 on gas oil feed
F-P3-1140 down for rebuild
F-P3-1090 on ethane feed
F-P3-1100 down for repairs
FOL-700 and FOL-710 on ethane
- C. Normal crew
- D. All on-line furnaces trip, however, power is available within five minutes for restart.
1. What action would be taken on furnaces?
BLOCK OFF ALL BURNERS
 2. What steps would be taken to conserve heat?
CLOSE OFF ON DAMPERS
 3. What would you do if factory mutual would not reset on one of the furnaces?
GO ON TO NEXT FURNACE & TRY TO GET IT UP
& LATER YOU CAN COME BACK TO PROBLEM FURNACE
 4. What action would be taken on CP-1001 to control temperature? What happens to overhead fans?
TRY TO KEEP CIRCULATION GOING BY MAKING SURE TURBINES ARE RUNNING - THEY ALL HAVE TO BE RESTARTED
 5. What other Shift foremen would be notified? Why?
LO-3
UTILITIES
B D

LAM 013096

DPMC-14417

EMERGENCY ACTION DRILL

6. Would extra help be needed?
YES - BUT A LOT OF THE PROBLEMS MAY
BE SOLVED BEFORE THEY CAN GET HERE
FRAC OPERATOR & POSSIBLY 2 FURNACE OPERATORS
7. Would maintenance repairs be affected on
F-P3-1140/1100?
YES - USE FIREWATCH & MAINT PEOPLE
TO ASSIST IF NECESSARY - GET OTHERS
OUT OF AREA FOR SAFETY
8. What would your crew assignment be?
- a. AT LEAST ONE - MAYBE 2 BOARD OPERATORS
 - b. OTHER FURNACE OPERATORS OUTSIDE
 - c. FRAC OPERATOR
 - d. STF OPERATOR
 - e. USE PERSONNEL CALLED OUT WHERE
NEEDED AS THEY REPORT IN
9. Problems or comments?
BE GLAD WHEN ITS OVER

LAM 013097

DPMC-14418

521

PYROLYSIS III
ORDER BOOK AND MSDS UPDATING FORM

ORDER NUMBER	DESCRIPTION	DATE
S-125	FOR HEALTH AND SAFETY ORDER BOOK	ASBESTOS
	FOR ENVIRONMENTAL ORDER BOOK	5/9/88
	FOR POLICY AND PROCEDURES ORDER BOOK	
	FOR COMPLEX SYSTEMS ORDER BOOK	
	FOR GENERAL OPERATIONS ORDER BOOK	
	FOR GENERAL MAINTENANCE ORDER BOOK	
	FOR DEPARTMENTAL ORDER BOOK	
X	FOR MSDS BOOK: 348,750-88	CITRIC ACID
		1/20/88

REVIEW

PRESENTER: FOREMAN_

DATE: 8/88

ATTENDEES: E. KERO.
W. KERO.
GAS OIL_
FRACT_

ETHANE_
STF_
EXTRA_
EXTRA_

COMMENTS:

RETURN THIS FORM TO THE O.S. OFFICE WHEN THE REVIEW HAS BEEN COMPLETED.
REMOVE OLD/INSERT NEW COPY IN APPROPRIATE BOOK : FOREMAN'S

K. D. Yielding

K. D. YIELDING

LAM 013098

DPMC-14419

Sch 2

PYROLYSIS III
ORDER BOOK AND MSDS UPDATING FORM

ORDER
NUMBER

DESCRIPTION DATE

S-125	FOR HEALTH AND SAFETY ORDER BOOK	ASBESTOS	5/9/88
	FOR ENVIRONMENTAL ORDER BOOK		
	FOR POLICY AND PROCEDURES ORDER BOOK		
	FOR COMPLEX SYSTEMS ORDER BOOK		
	FOR GENERAL OPERATIONS ORDER BOOK		
	FOR GENERAL MAINTENANCE ORDER BOOK		
	FOR DEPARTMENTAL ORDER BOOK		
X	FOR MSDS BOOK: 348,750-88	CITRIC ACID	1/20/88

REVIEW

PRESENTER: FOREMAN_____

DATE: 8-21-88

ATTENDEES: E. KERO_____
W. KERO_____
GAS OIL_____
FRACT_____

ETHANE_____
STF_____
EXTRA_____
EXTRA_____

COMMENTS:

RETURN THIS FORM TO THE O.S. OFFICE WHEN THE REVIEW HAS BEEN COMPLETED.
REMOVE OLD/INSERT NEW COPY IN APPROPRIATE BOOK : O.P. II STE

K.D. Yielding

K. D. YIELDING

LAM 013099

DPMC-14420

Sch 3

PYROLYSIS III
ORDER BOOK AND MSDS UPDATING FORM

ORDER
NUMBER

DESCRIPTION

DATE

S-125	FOR HEALTH AND SAFETY ORDER BOOK	ASBESTOS	5/9/88
	FOR ENVIRONMENTAL ORDER BOOK		
	FOR POLICY AND PROCEDURES ORDER BOOK		
	FOR COMPLEX SYSTEMS ORDER BOOK		
	FOR GENERAL OPERATIONS ORDER BOOK		
	FOR GENERAL MAINTENANCE ORDER BOOK		
	FOR DEPARTMENTAL ORDER BOOK		
X	FOR MSDS BOOK: 348,750-88	CITRIC ACID	1/20/88

REVIEW

PRESENTER: FOREMAN

DATE: 8-22-88

ATTENDEES: E. KERO
W. KERO
GAS OIL
FRACT ✓

ETHANE
STF
EXTRA
EXTRA

COMMENTS:

RETURN THIS FORM TO THE O.S. OFFICE WHEN THE REVIEW HAS BEEN COMPLETED.
REMOVE OLD/INSERT NEW COPY IN APPROPRIATE BOOK : BACK TRAINING COORD.

K. D. Yielding

K. D. YIELDING

LAM 013100

DPMC-14421

Sch 4

PYROLYSIS III
ORDER BOOK AND MSDS UPDATING FORM

ORDER
NUMBER

DESCRIPTION DATE

S-125	FOR HEALTH AND SAFETY ORDER BOOK	ASBESTOS	5/9/88
	FOR ENVIRONMENTAL ORDER BOOK		
	FOR POLICY AND PROCEDURES ORDER BOOK		
	FOR COMPLEX SYSTEMS ORDER BOOK		
	FOR GENERAL OPERATIONS ORDER BOOK		
	FOR GENERAL MAINTENANCE ORDER BOOK		
	FOR DEPARTMENTAL ORDER BOOK		
X	FOR MSDS BOOK: 348,750-88	CITRIC ACID	1/20/88

REVIEW

PRESENTER: FOREMAN_

DATE: 8-18-88

ATTENDEES: E. KERO_
W. KERO_
GAS OIL_
FRACT_

ETHANE_
STF_
EXTRA_
EXTRA_

COMMENTS:

RETURN THIS FORM TO THE O.S. OFFICE WHEN THE REVIEW HAS BEEN COMPLETED.
REMOVE OLD/INSERT NEW COPY IN APPROPRIATE BOOK : OPHTH CONTROL

K. D. Yielding

K. D. YIELDING

LAM 013101

DPMC-14422

TRAINING + Development - Programs
Fire, Health + Safety
130305 061 CR+2/3/CR+5
1988 551.4

LAM 013085

DPMC 14406.1