

Monsanto

FROM (NAME & LOCATION) J. T. Payne, (SS-18), Texas City, Texas

DATE August 1, 1984 cc. G. L. Tromblee 0-10

SUBJECT SHAC MINUTES - 8/1/84

REFERENCE

TO : SHAC Members:

E. P. Bailey 2Z
S. W. Moncla 513D
J. D. Richards 1Z
J. A. Stal, Jr. 0A-11
R. T. Hammann 0-22

These are the minutes of the August 1, 1984, SHAC committee meeting.

Future SHAC Meetings

SHAC meetings have been scheduled for the VIP Conference Room at 1:00 p.m. for the following dates:
August 3, 15, 22, 29
September 5, 12, 19, 26
October 3, 10, 17, 24

Project Assignments

<u>Project</u>	<u>Rep.</u>	<u>Status</u>
Parking Area Designations	J. D. Richards	Areas have been designated in all units. A sticker for car dashboards has been developed.
Emergency Center Communication	R. T. Hammann	Phone number finalized 3816.
Assembly Point Signs	J. D. Richards	A sign has been developed and is to be made.
Methanol Incident	J. Stal	Recommendations will be reviewed at the Aug. 1st meeting of SHAC for a report to PMSB 8/84.
Emergency Drill	S. Moncla	Possibly re-scheduled for end of Sept. and will be conducted with Danforth Hospital.
Contractor Safety Film (5 min.)	J. D. Richards	In progress

Annual Safety & Housekeeping Inspection

The SHAC committee is not in favor of a change in the date of the annual inspection, but would not object to a change in the date. A number of activities and contacts will have to be changed if the dates are changed.

The inspection tour schedule was reviewed and is attached.

The annual inspection action plan was updated and revised and is attached.

Quarterly Inspection

The SHAC quarterly inspection will be held August 6th thru 17th. The unit safety analysis are attached. It was decided to wait until after the AN-5 Shutdown to perform the quarterly inspection in AN-5.

Contractor Safety Program

Contractor have raised questions on respirator fit testing. These questions will be investigated separately.

The contractor safety orientation film is being planned.

STOP Observation

The June STOP observations will be published in the plant news within the next two weeks.

Hourly Safety Committee

Don Jordan was elected chairman of the hourly safety committee.

General Safety

A new toxicity manual has been developed by Safety and will be distributed shortly.

J. T. Payne/sr
J. T. Payne

JTP:sr
Attachments

LAM002028

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1984 TEXAS CITY SAFETY AND HOUSEKEEPING INSPECTION

GUIDELINES

THEME

SAFETY THROUGH EMPLOYEE INVOLVEMENT

EMPHASIS AREA

- Involvement of People in Safety
- Safety Results and Trends
- STOP Program
- Adherence to Safe Procedures and Practices
- Acceptance of Personal Responsibility for Safety
- Attitude and Awareness of Safety at all Levels
- Evidence of Management's (all levels) Commitment to Operate Safely
- Health and Industrial Hygiene Programs
- Programs for Good Housekeeping and Preservation of Assets
- Use of Promotional Activities
- Follow-up on Last Year's Inspection Recommendations

INSPECTION DATE

The plant will be inspected September 19, 20, 21, 1984.

INSPECTION TEAM

General Superintendent

Superintendent

Engineer

Foreman

Hourly

(One of the above should be from Process Technology)

RATINGS

The inspection committee will not give the plant an overall rating??

Individual areas will be given ratings, and plaques will be awarded to the best area in each of four categories: units, crafts, labs and offices and services.

Evaluations will be made based on safety performance, policies and practices, housekeeping conditions and involvement of people that ensures an effective, sustained safety attitude for outstanding safety performance.

Outstanding - Stands out from all areas (comparison based on theme criterion).
 No safety practice deficiencies.
 Housekeeping performance equal to achievement potential.

- (
- | | |
|----------------|---|
| Excellent | - Very favorable compared to acceptable standard (based on theme criterion).
Very few safety practice deficiencies.
Housekeeping performance nearly equal to achievement potential. |
| Good | - Favorable compared to acceptable standard (based on theme criterion).
Few safety practice deficiencies.
Housekeeping performance at acceptable level. |
| Unsatisfactory | - Inferior compared to acceptable standard (based on theme criterion).
Unacceptable level of safety deficiencies.
Unacceptable housekeeping level. |

Areas rated will be all units (including outside battery limits), main shops, instrument shop, electrical shop, stores, control lab, Research 1, 2 and 3.

INSPECTION RESULTS

(The general results of the plant inspection, including the outside areas, will be communicated Monday, September 24, 1984. The results will be communicated with the expanded staff, SHAC, Technical Center Safety Committee, Office Safety Committee and Hourly Safety Committee, Unit-Craft Safety representatives, and Unit-Craft Safety promotion team present. Group size has to be limited due to seating available in the cafeteria.

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LAM002030

INSPECTION TOUR SCHEDULE

TUESDAY NIGHT, SEPTEMBER 18

PRESENTATIONS

		Minutes
1. Overall Texas City Safety Program	R. T. Hammann (Bob) Loss Prevention & Safety Supt.	10
2. Plant Manager's Safety Board (PMSB) and Safety Advisory Committee (SAC)		10
3. Safety and Housekeeping Action Committee (SHAC)	E. P. Bailey (Paul)	10
4. Plant Manager's Comments	G. L. Tromblee (Gene)	5
5. Inspection Kickoff		5
6. Discussion		10

1984
INSPECTION TOUR SCHEDULE

FIRST DAY:
WEDNESDAY, SEPTEMBER 19

Arrive Texas City (Personnel Building Training Room) 0800
Distribution of Safety Equipment. Coffee & Rolls.

Begin Inspection. 0815

Walk To Power 2.

WATER TREATING - PLANT AIR - POWER 2 0820-0900

Treatment of raw Brazos River water for plant use and generation
facilities for breathing, instrument, and general plant air.
Facilities for steam generation and boiler feed water treatment.

<u>HOSTS</u>	<u>INSPECTORS</u>	<u>SHAC MEMBER</u>	Meet in Control Room
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Pick up cars parked by cylinder racks beside Stores.
Drive to Acetic Acid Control House.

DEPT. 50 ACETIC ACID 0900-0930

Acetic Acid is produced from carbonylation of methanol.
This area includes catalyst preparation and product distillation
facilities.

<u>HOSTS</u>	<u>INSPECTORS</u>	<u>SHAC MEMBER</u>	Park beside Control House. Meet in Control Room.
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Drive to Phthalic Anhydride Control House.

1984 Inspection Tour Schedule, Wednesday, September 19 (Continued)

DEPT. 53 PHTHALIC ANHYDRIDE

0930-0945

Manufacturing process which uses BASF technology
to convert air and orthoxylene to phthalic anhydride.

HOSTS

INSPECTORS

SHAC MEMBER

Park beside Control
House.
Meet in Control Room.

Drive to Dept. 48-56.

COFFEE - OXO-ALCOHOL - PHTHALATE ESTERS

0945-1000

DEPT. 48/56 OXO ALCOHOL-PHTHALATE ESTERS

1000-1030

Oxo alcohol area uses CO + H₂ blend gas and olefins as
raw materials. Phthalic anhydride and oxo alcohol used
to manufacture phthalate esters.

HOSTS

INSPECTORS

SHAC MEMBER

Park at Formaldehyde
Storage Area
(77T101).
Meet in Control
House.

Walk to Dept. 33.

DEPT. 33 LACTIC ACID, DRUMMING FACILITIES & CT-8

1030-1100

Manufacturing for pharmaceutical grade
lactic acid from lactronitrile.

HOSTS

INSPECTORS

SHAC MEMBER

Meet in Control
House.

Pick up cars at 77T101, drive to Zone I office.

1984 Inspection Tour Schedule, Wednesday, September 19 (Continued)

Walk to Zone I Office.

ZONE I OFFICE

1100-1110

Offices and conference room used by maintenance personnel for styrene process.

HOSTS

INSPECTORS

SHAC MEMBER

Walk to Operating Engineers Offices.

OPERATING ENGINEER OFFICES

1110-1120

Offices for operating engineers personnel.

HOSTS

INSPECTORS

SHAC MEMBER

Walk to Fire Station.

FIRE STATION

1120-1130

Two buildings which house the Texas City plant's fire fighting facilities.

HOSTS

INSPECTORS

SHAC MEMBER

Walk to Electric Shop.

1984 Inspection Tour Schedule, Wednesday, September 19 (Continued)

ELECTRIC SHOP

1130-1145

Consists of central shop facilities and offices for power distribution, electrical maintenance, and maintenance engineering personnel.

HOSTS

INSPECTORS

SHAC MEMBER

LUNCH - Cafeteria Conference Room

1145-1230

Walk to AN loading rack.

AN LOADING RACK, ESTERS LOADING RACK, TANK TRUCK RACK, SCALE HOUSE

1235-1300

Rail car handling facilities for acetic acid, methanol, TBA, sulfuric acid, IBY, ACH, and esters.

HOSTS

INSPECTORS

SHAC MEMBER

Pick up cars at truck loading spot west of 51T17-2.
Drive through North Storage.

PA LOADING RACK

1300-1310

Rail car handling facilities for phthalic anhydride.

HOSTS

INSPECTORS

SHAC MEMBER

Park north of reformer.

Drive to Dept. 513 Control House.

1984 Inspection Tour Schedule, Wednesday, September 19 (Continued)

PRIMARY TREATMENT, AMMONIA TANK

1310-1335

Facilities for primary treatment of all plant aqueous waste streams. Ammonia storage tank provides raw material for AN manufacturing facilities at Texas City and Chocolate Bayou.

HOSTS

INSPECTORS

SHAC MEMBER

Meet at 513 Control Room.

BARGE & SHIP DOCKS 5, 4, 3, 2, 1

1335-1445

Barge and ship loading/unloading facilities for raw materials, products, used at and produced by Texas City plant.

HOSTS

INSPECTORS

SHAC MEMBER

Meet at Dock 5.

Drive to cafeteria conference room.

COFFEE - CAFETERIA CONFERENCE ROOM

1445-1500

Drive through sandblasting, NSI Warehouse, Maintenance Laydown, Salvage Areas

1530-1600

HOSTS

INSPECTORS

SHAC MEMBER

Drive through South 22.

1530-1600

HOSTS

INSPECTORS

SHAC MEMBER

LAM002036

RECAP

1600-1630

1984
INSPECTION TOUR SCHEDULE

SECOND DAY:
THURSDAY, SEPTEMBER 20

CAFETERIA CONFERENCE ROOM - Coffee & Rolls

0800-0815

Drive to Material Handling

Park cars beside old
Pilot Plant.

MATERIAL HANDLING OFFICE BUILDING

0815-0825

Offices for supervision of distribution operations,
materials handling foreman and clerk; mail room,
printing & office services; QA Lab offices.

HOSTS

INSPECTORS

SHAC MEMBER

SUPER SHACK, AN INCINERATOR, DRIVE THROUGH STYRENE RACKS,
ACY RACK AND EAST STORAGE

0825-0845

HOSTS

INSPECTORS

SHAC MEMBER

DEPT. 13 AKLYLATION, CT-1

0845-0915

Ethylbenzene is produced by the reaction of
benzene with ethylene in the presence of an
aluminum chloride-organic catalyst complex.

HOSTS

INSPECTORS

SHAC MEMBER

Park south of 14-16 ,
Control House by
Smoke Shack.
Meet in Control Room.

1984 Inspection Tour Schedule, Thursday, September 20 (Continued)

DEPT. 15 DEHYDROGENATION

0915-0940

Synthesis area for dehydrogenation of ethylbenzene to crude styrene.

HOSTS

INSPECTORS

SHAC MEMBER

Meet in Control Room.

COFFEE - SYTRENE-EB (arrangements by department)

0940-0955

DEPTS. 14 & 16 STYRENE - EB DISTILLATION

0955-1025

Dept. 14 - Ethylbenzene purification facilities.

Dept. 16 - Styrene purification facilities.

HOSTS

INSPECTORS

SHAC MEMBER

Meet in Control Room.

EB

SM

Drive to Salt Water Pump House and Zone 1 Warehouse.

SALTWATER PUMP HOUSE AND ZONE 1 WAREHOUSE

1025-1040

HOSTS

INSPECTORS

SHAC MEMBER

Split Team.

Zone 1 Warehouse

Pump House

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1984 Inspection Tour Schedule, Thursday, September 20 (Continued)

Drive to car Stores.

Walk to Stores.

STORES

1040-1110

Stores includes the shipping and receiving docks,
storage bins of inventory items, and offices.

HOSTS

INSPECTORS

SHAC MEMBER

Pick up cars in car port.
Drive to Warehouses.

WAREHOUSE A-B-C-F-G

1110-1140

(Warehouse A contains class A materials
such as spare parts, paper goods, packing
materials. Serves receiving function.

Warehouse B contain flammable liquids,
acid, paint.

Warehouse C contains class A materials, such
as, insulation, packing.

Warehouse E contain materials needed for
maintenance work orders.

Warehouse F contains long storage items, such
as, mechanical equipment.

Warehouse G contains dry raw materials, such
as, iodine, Fullers Earth, etc.

HOSTS

INSPECTORS

SHAC MEMBER

Split team.
Park across from
Zone 2.

1984 Inspection Tour Schedule, Thursday, September 20 (Continued)

Drive to Cafeteria

LUNCH - Cafeteria Conference Room 1145-1230

Drive to Zone 2 office

ZONE 2 OFFICE 1230-1245

Offices for west plant maintenance personnel.

HOSTS

INSPECTORS

SHAC MEMBER

Drive to car port.

1245-1255

RESEARCH NO. 1

1300-1340

(This building houses analytical, catalyst
characterization, radioisotope, and MIC Tech
Services labs and bench scale reactor systems.

HOSTS

INSPECTORS

SHAC MEMBER

Meet 1st floor west
side.

RESEARCH NO. 2

1340-1440

This building houses Technology Dept. and
Industrial Hygiene labs, AN Catalyst
Preparation facilities and AN and Styrene
bench scale reactor systems. The instrument
development and control department is
located upstairs.

HOSTS

INSPECTORS

SHAC MEMBER

Meet at Visitor's
lobby Northwest
corner - 1st floor.

1984 Inspection Tour Schedule, Thursday, September 20 (Continued)

RESEARCH NO. 3

1440-1455

This building houses MMTS offices, QA Lab chemists offices, crafts and maintenance offices and MMTS labs and shops as well as lab supply overstock.

HOSTS

INSPECTORS

SHAC MEMBER

Meet at North
entrance below
stairway outside.

PT WAREHOUSE & SOLVENT STORAGE

1455-1505

HOSTS

INSPECTORS

SHAC MEMBER

Walk to Main Office Building.

COFFEE - CAFETERIA (arrangements by Cafeteria)

1505-1515

CAFETERIA

1515-1525

Main plant cafeteria.

HOSTS

INSPECTORS

SHAC MEMBER

Meet at cash register.

1984 Inspection Tour Schedule, Thursday, September 20 (Continued)

DISPENSARY

1525-1535

Provides facilities for emergency first aid
and for monitoring employee health.

HOSTS

INSPECTORS

SHAC MEMBER

MAIN OFFICE - 2nd, 3rd and 4th floors

1535-1555

Main Office building for manufacturing,
distribution, environmental, safety,
personnel and marketing personnel.

HOSTS

INSPECTORS

SHAC MEMBER

Split teams.
Meet in foyer.
2nd Floor
3rd Floor
4th Floor

QUALITY ASSURANCE LAB

1555-1630

Laboratory facilities needed to conduct
analyses required for production and
shipment of petrochemicals from Texas City
plant and for environmental control.

HOSTS

INSPECTORS

SHAC MEMBER

RECAP

1630-1635

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1984
INSPECTION TOUR SCHEDULE

THIRD DAY:
FRIDAY, SEPTEMBER 21

CAFETERIA CONFERENCE ROOM - Coffee & Rolls

0800-0815

OFFICE ANNEX

0815-0840

First floor of this building contains office for Technology Dept., Engineering Services and Guest Tech Service Group, Central Files, technical library and computer room.

HOSTS

INSPECTORS

SHAC MEMBER

Split Teams.
Meet in Main Lobby.

(
Second floor contains office facilities for Accounting, MIS Department with computer facilities, Plant Engineering Technical Support.

HOSTS

INSPECTORS

SHAC MEMBER

Meet in Front
Entrance 1st floor.

PERSONNEL TRAINING, PURCHASING BUILDING

0840-0855

Building contains plant purchasing offices, training facilities, video tape lab.

HOSTS

INSPECTORS

SHAC MEMBER

Meet in Personnel
Building Training
Room.

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1984 Inspection Tour Schedule, Friday, September 21 (Continued)

LOCKER BUILDING NO. 1 & SAFETY SUPPLY

0855-0910

Building houses separate lockers, showers,
and changing rooms as well as the safety
supply store.

HOSTS

INSPECTORS

SHAC MEMBER

GUARD HOUSE

0910-0920

Major plant entry gate with offices for
supervisors and security group.

HOSTS

INSPECTORS

SHAC MEMBER

Drive to Dept. 51.

DEPT. 51 ACRYLONITRILE, CT-9

0920-1025

Two reactor trains and a single purification
train are used to produce acrylonitrile,
acetonitrile and hydrogen cyanide as a
by-product. Ammonia and propylene are used
as raw materials. Includes slip stream
reactor. (Start in South end, end near MeOH.)

HOSTS

INSPECTORS

SHAC MEMBER

Meet in Control House
Park East of Control
House off South St.

Drive car to methanol

COFFEE - METHANOL (arrangements by dept.)

1025-1040

1984 Inspection Tour Schedule, Friday, September 21 (Continued)

DEPTS. 44-45-46 METHANOL, CT-3&4

1040-1110

Methanol, CO, and H₂ are produced by steam reforming of natural gas and CO₂. CO and H₂ are used in the production of oxo-alcohol and acetic acid.

HOSTS

INSPECTORS

SHAC MEMBER

Meet in Control House

DEPTS. 19-23-25-27-29 HCN-ACN-TBA-LN-ACY, CT-2

1110-1205

Manufacturing facilities for acetonitrile purification, tertiary butylamine, lactonitrile and acetone cyanohydrin. HCN Storage.

HOSTS

INSPECTORS

SHAC MEMBER

Meet in Control House

Drive car to Cafeteria

LUNCH - Trays in Cafeteria Conference Room

1205-1305

SHOP BUILDING

1305-1330

Central shops consists of facilities for pipe fabrication and plate and exchanger, machine and paint shops. Building also includes training rooms and various maintenance offices.

HOSTS

INSPECTORS

SHAC MEMBER

Meet at Shift Office

1984 Inspection Tour Schedule, Friday, September 21 (Continued)

SOUTH MAINTENANCE BUILDINGS, INSTRUMENT SHOP & GARAGE

1330-1415

Building include carpenter-insulator shop, instrument department shop, field maintenance offices, and garage facilities.

HOSTS

INSPECTORS

SHAC MEMBER

Maintenance

Instrument

RECAP

1415-1630

ANNUAL INSPECTION PREPARATION ACTION PLAN

<u>DATE</u>		<u>RESP.</u>	<u>STATUS</u>
7/1	Inspection route and timing defined - dry run completed to parking places, cars needed, guide meeting place.	JTP/JDR	Complete.
	Assign Office Safety Committee responsibility for publicity.	RTH	Complete.
	Send copy of previous inspection, recommendations to Superintendents. By 8/31 all items complete - written response.	JAS	Complete.
7/23	Send out notice that all ladders are to be inspected and new tags attached by 9/1.	RTH	Complete.
8/1	Inspectors named.	RAF	To be completed 8/3.
8/1	Encourage Plant Manager, Plant Engineer, and Safety Superintendent to be in the plant the 2 weeks prior to the inspection.	EPB	Complete.
8/15	Obtain pictures and information on the inspectors, sizes, etc.	JAS	
8/6-17	3rd Quarter Safety & Housekeeping Insp.	SWM	
8/15	Guides named for each area of plant. SHAC member will host each inspector - rotate at noon each day. Plant Manager will freelance. General Superintendents will meet team at each area of responsibility.	JTP/JDR	
8/30	SHAC drive around inspection -- made slides. Use 3rd Quarter comments. Communicate inspection schedule.	SWM	
8/31	All recommendations from last annual inspection completed. Route and guide list published and issued. Information for inspectors (booklet, etc.) completed. Name tags (name and position) completed for inspectors, guides, etc. Lunch arrangements completed (catered by cafeteria including designated eaters). Three cars reserved - drivers & movers selected.	JTP/JDR JAS RTH EPB SWM	SC 000849

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9/4	Mail information to inspectors.	JAS
9/5	Include pictures and history of inspectors in plant newsletter.	JAS
9/5	Expanded Staff -- review slides, inspection details and check list.	SWM
9/10	SHAC/Plant Manager drive around inspection - take slides.	SWM
	Plant Manager mail letter to all employees home.	EPB
	Obtain equipment for inspectors -- hard hats (with names), safety glasses, ear plugs, cover goggles, rain gear (suits and boots), name tags, and temporary badges.	RTH
9/12	Expanded Staff meeting -- review slides.	SWM
9/14	Drive around inspection -- each General Superintendent accompanied by two SHAC members. Short wrap-up staff meeting after inspection.	SWM
9/18	Evening meal with inspectors and presentations. Tromblee, Forsthoffer, Hammann and Chairman of SAC, SHAC, TCSC, OSC, HSC.	EPB
9/19-21	Inspection	ALL
10/1	Feedback	ALL
10/3	Critique	SHAC

JAS:sr
6-12-84

UNIT SAFETY ANALYSIS
3RD QTR. 1984

<u>DEPT.</u>	<u>RI</u>	<u>TIR</u>	<u>INCIDENT</u>	<u>INSPECTION</u>
44/45/46	0	0	NO	I
513	0	0	NO	I
Power 2	0	0	NO	I
33	0	0	NO	I
48/56	0	6.5	NO	I
15/16	0	7.2	NO	I
50	0	0	YES	II
13/14	0	12.1	NO	II
51	0	14.8	YES	II
Mat. Handl.	0	17.0	NO	II
53	0	19.7	NO	II
HCN Complex	0	21.7	NO	II

8/2/84
 sr

SC 000851

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SHOP SAFETY ANALYSIS
3RD QTR. 1984

<u>CRAFT</u>	<u>RI</u>	<u>TIR</u>
INSTRUMENT	0	0
PAINTERS	0	0
INSULATORS	0	0
PIPEFITTERS	0	33.3
CARPENTER	0	48.8
BOILERMAKERS	0	23.4
MACHINISTS	0	7.5
ELECTRICIANS	0	0

ALL ELIGIBLE FOR AWARD

8/2/84
sr

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