

RTH - HANDOUT FROM
THURMAN PAYNE
7/11/84
MR

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)

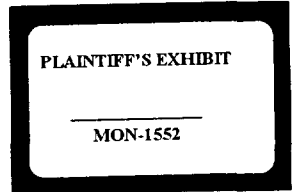
RATINGS

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 present. Group size has to be limited due to seating available in the Research II Conference Room.

INSPECTION TOUR SCHEDULE

FIRST DAY:
WEDNESDAY, SEPTEMBER 19

Arrive Texas City (Personnel Building Training Room) 8:00 a.m. -
9:00 a.m.

PRESENTATIONS

8:15 a.m.

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 |

Distribution of Safety Equipment

BEGIN INSPECTION

9:30 a.m.

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1984
INSPECTION TOUR SCHEDULE

FIRST DAY:
WEDNESDAY, SEPTEMBER 19

Walk To Power 2.

WATER TREATING - PLANT AIR - POWER 2

0900-0940

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.

HOSTS

INSPECTORS

SHAC MEMBER

Meet in Control Room

Pick up cars parked by cylinder racks beside Stores.
Drive to Acetic Acid Control House.

DEPT. 50 ACETIC ACID, CT-5

0940-1010

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

HOSTS

INSPECTORS

SHAC MEMBER

Park beside Control House.
Meet in Control Room.

Drive to Phthalic Anhydride Control House.

COFFEE - PHTHALIC ANHYDRIDE (Arrangements by Department)

1010-1025

HOSTS

INSPECTORS

SHAC MEMBER

Park beside Control House.
Meet in Control Room.

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DEPT. 53 PHTHALIC ANHYDRIDE

1025-1055

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

HOSTSINSPECTORSSHAC MEMBER

Drive to Dept. 48-56.

DEPT. 48/56 OXO ALCOHOL-PHTHALATE ESTERS

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

HOSTSINSPECTORSSHAC MEMBER

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

Walk to Dept. 33.

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

1135-1205

Manufacturing for pharmaceutical grade
lactic acid from lactronitrile.

HOSTSINSPECTORSSHAC MEMBER

Meet in Control
House.

Pick up cars at 77T101, drive to car port.

LUNCH - Trays in Cafeteria Conference Room.

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Walk to Zone I Office.

ZONE I OFFICE

1300-1310

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

HOSTS

INSPECTORS

SHAC MEMBER

Walk to Operating Engineers Offices.

OPERATING ENGINEER OFFICES

Offices for operating engineers personnel.

HOSTS

INSPECTORS

SHAC MEMBER

Walk to Fire Station.

FIRE STATION

1320-1335

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

HOSTS

INSPECTORS

SHAC MEMBER

Walk to Electric Shop.

ELECTRIC SHOP

1335-1350

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

HOSTS

INSPECTORS

SHAC MEMBER

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Walk to AN loading rack.

AN LOADING RACK, ESTERS LOADING RACK

1350-1410

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

1410-1420

Rail car handling facilities for phthalic anhydride.

HOSTS

INSPECTORS

SHAC MEMBER

Park north of reformer.

Drive to Dept. 513 Control House.

PRIMARY TREATMENT, AMMONIA TANK

1425-1450

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

1450-1530

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

HOSTSINSPECTORSSHAC MEMBER

Meet at Dock 5.

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

1530-1600

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1984
INSPECTION TOUR SCHEDULE

SECOND DAY:
THURSDAY, SEPTEMBER 20

CAFETERIA CONFERENCE ROOM - Coffee & Rolls 0800-0815

Drive through South 22. 0815-0825

HOSTS

INSPECTORS

SHAC MEMBER

Park cars beside old
Pilot Plant.

MATERIAL HANDLING OFFICE BUILDING

0825-0835

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

0835-0855

HOSTS

INSPECTORS

SHAC MEMBER

DEPT. 13 AKLYLATION, CT-1

0855-0925

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

HOSTSINSPECTORSSHAC MEMBER

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

DEPT. 15 DEHYDROGENATION

0925-0950

Synthesis area for dehydrogenation of ethylbenzene to crude styrene.

HOSTSINSPECTORSSHAC MEMBER

Meet in Control Room.

COFFEE - STYRENE-EB (arrangements by department)

0950-1005

DEPTS. 14 & 16 STYRENE - EB DISTILLATION

1005-1035

Dept. 14 - Ethylbenzene purification facilities.
Dept. 16 - Styrene purification facilities.

HOSTSINSPECTORSSHAC MEMBER

Meet in Control Room.

EBSM

Drive to Salt Water Pump House and Zone 1 Warehouse.

SALTWATER PUMP HOUSE AND ZONE 1 WAREHOUSE

1035-1050

HOSTSINSPECTORSSHAC MEMBER

Split Team.

Zone 1 WarehousePump House

LUNCH - Trays in Cafeteria Conference Room

1100-1130

Walk to Stores.

STORES

1130-1200

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

HOSTSINSPECTORSSHAC MEMBER

Pick up cars in car port.
Drive to Warehouses.

WAREHOUSE A-B-C-F-G

1200-1230

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.

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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.

<u>HOSTS</u>	<u>INSPECTORS</u>	<u>SHAC MEMBER</u>	
			Split team. Park across from Zone 2.

ZONE 2 OFFICE			1230-1245
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Offices for west plant maintenance personnel.

<u>HOSTS</u>	<u>INSPECTORS</u>	<u>SHAC MEMBER</u>	

Drive to car port.			1245-1255
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RESEARCH NO. 1			1300-1340
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This building houses analytical, catalyst characterization, radioisotope, and MIC Tech Services labs and bench scale reactor systems.

<u>HOSTS</u>	<u>INSPECTORS</u>	<u>SHAC MEMBER</u>	
			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.

HOSTSINSPECTORSSHAC MEMBER

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

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.

HOSTSINSPECTORSSHAC MEMBER

Meet at North entrance below stairway outside.

PT WAREHOUSE & SOLVENT STORAGE

1455-1505

HOSTSINSPECTORSSHAC MEMBER

Walk to Main Office Building.

COFFEE - CAFETERIA (arrangements by Cafeteria)

1505-1515

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CAFETERIA

1515-1525

Main plant cafeteria.

HOSTSINSPECTORSSHAC MEMBERMeet at cash
register.

DISPENSARY

1525-1535

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

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

1535-1555

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

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LOCKER BUILDING NO. 1 & SAFETY SUPPLY

0855-0910

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

HOSTSINSPECTORSSHAC MEMBER

GUARD HOUSE

0910-0920

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

HOSTSINSPECTORSSHAC 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.)

HOSTSINSPECTORSSHAC MEMBER

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

Drive car to methanol

COFFEE - METHANOL (arrangements by dept.)

1025-1040

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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.

HOSTSINSPECTORSSHAC 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.

HOSTSINSPECTORSSHAC MEMBER

Meet in Control House

Drive car to Cafeteria

LUNCH - Trays in Cafeteria Conference Room

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.

HOSTSINSPECTORSSHAC MEMBER

Meet at Shift Office

SOUTH MAINTENANCE BUILDINGS, INSTRUMENT SHOP & GARAGE

1330-1415

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

HOSTSINSPECTORSSHAC MEMBERMaintenanceInstrument

RECAP

1415-1630

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ANNUAL INSPECTION PREPARATION

<u>EDC</u>		<u>Resp.</u>
7/1	Inspection route and timing defined - dry run completed to parking places, cars needed, guide meeting place.	JTP/JDR
	Assign Office Safety Committee responsibility for publicity.	RTH
	Send copy of previous inspection recommendations to Superintendents. By 8/31 all items complete - written response.	JAS
7/23	Send out notice that all ladders are to be inspected and new tags attached by 8/3.	RTH
8/1	Encourage Plant Manager, Plant Engineer, and Safety Superintendent to be in the plant the two weeks prior to the inspection.	EPB
	By 8/15 obtain pictures and information on the inspectors, sizes, etc.	JAS
8/6-10	Third Quarter Safety & Housekeeping Inspection.	SWM
8/15	Guides named for each area of plant. SHAC member will host each inspector - rotate at noon each day. Plant Manager and Safety Superintendent will freelance. General Superintendents will meet team at each area of responsibility.	JTP/JDR
8/30	SHAC drive around inspection - make slides. Use 3rd Quarter comments.	SWM/JDR
8/31	All recommendations from last annual inspection completed.	JAS
	Route and guide list published and issued.	JTP/JDR
	Information for inspectors (booklet, etc.) completed.	JAS
	Name tags (name and position) completed for inspectors, guides, etc.	RTH
	Lunch arrangements completed (catered by cafeteria, sitdown)	EPB
9/4	Mail information to inspectors.	JAS
9/5	Include pictures and history of inspectors in plant newsletter.	JAS/RTH
	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

<u>EDC</u>		<u>Resp.</u>
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

JAS
6/12/84

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Shop Safety Analysis
2nd Qtr. 1984

<u>Craft</u>	<u>RI</u>	<u>TIR</u>	<u>Eligible Retired</u>
Instrument	0	21.6	Yes
Painters	0	0	Yes
Insulators	0	0	Yes
Pipe Fitters	1	—	No
Carpenters	0	0	Yes
Boilermakers	0	9.0	Yes
Machinists	0	8.7	Yes
Electricians	0	11.0	Yes

Unit Safety Analysis
2nd Qtr. 1984

<u>Dept.</u>	<u>RI</u>	<u>TIR</u>	<u>Inspection Group</u>
HON Complex	0	0	I
50	0	0	I
44/45/46	0	0	I
513	0	0	I
13/14	0	6.0	I
51	0	8.3	I
53	0	8.3	I
15/16	0	13.2	II
48/56	0	20.8	II
Power 2	0	33.3	II
33	0	76.2	II
Mt. Hdl.	1	—	II