PLAINTIFF'S EXHIBIT
MON-2151

J-cc to SHAC MR 7/13/83

Monsanto

FROM (NAME & LOCATION) G. L. Tromblee (Texas City, Texas)

November 5, 1982

SUBJECT: ANNUAL SAFETY AND HOUSEKEEPING INSPECTION OF THE TEXAS CITY PLANT (October 18-19-20, 1982)

REFERENCE

TO : E. N. Brasfield - St. Louis, Missouri

cc:
G. A. Danner
G. W. Daues
F. C. Himes
W. G. Juhl
D. E. Kaldenberg
B. C. Lancaster
C. M. McCullough
A. D. McKee
D. W. Metten
S. G. Pappas
C. F. Navarrete
G. T. Ryan
G. E. Small
J. G. Trafton
Dennis Kos
Leonard Schwab
Carol Holmes
Vic Osburn
Mike Hancock
Bob Parker
J. D. Stone
Bob Hammann
J. A. Glass
Rosemary Fritz
H. E. Crow
M. A. Riddle
Joe Swain

The Annual Safety and Housekeeping Inspection of the Texas City Plant was conducted by a team of six Texas City employees representing Plant Management, Manufacturing, Maintenance, Loss Prevention, Personnel and Process Technology (see attached). It was the first time in our recollection that the annual inspection was conducted without visiting inspectors.

Because of this and the heavy emphasis in the past year on cost reduction and deferring non-essential work, there was concern on our part that preparations for this inspection might be inadequate. However, I am happy to report that this was not the case. The plant was in very good shape with regard to housekeeping and orderliness. Also, the safety preparations were impressive. Having in-house inspectors gave us an additional benefit in that we knew all the nooks and crannies and the procedures specific to the Texas City Plant which resulted in a more in-depth inspection.

The inspectors found no areas they regarded as unsatisfactory. All were rated : Good, Excellent-Minus, Excellent-Plus, or Outstanding. In addition, a few areas which had shown exceptional change for the better were rated in a "Most Improved" category. Plaques have been given for those rated "Outstanding" and "Most Improved".

Feedback from several individuals, both hourly and salaried, indicates that the cost savings generated by the tone that was set and the in-house inspection improved the credibility between management and the people. Several people mentioned that they thought this was the best and the most thorough inspection that was ever conducted.

BOB:
I SENT COPY OF THIS TO ALL SHAC MEMBERS SINCE THEY INDICATED THEY DID NOT HAVE COPY.
MARK 7/15/83

LAM002828

SC 001625

E. N. Brasfield November 5, 1982

The plant people seemed less tense during this inspection. I mentioned this to some during the tour and got back the response that they knew the inspectors and were more comfortable talking to them. Many also knew that the inspectors would appreciate the improvements in their areas.

Overall, I judge the "in-house" inspection to be quite successful and believe it is worth considering conducting the inspection in this manner every other or every third year.

Gene

G. L. Tromblee

nr

Attachments:
1. 1982 Safety and Housekeeping Inspection Ratings
2. Inspection Team Members
3. 1982 Safety and Housekeeping Inspection Guidelines
4. Notes from Inspection including positive comments and deficiencies/concerns that need followup and resolution. PMSB and SAC will deal with the plant-wide issues.

Special Edition

Monsanto Plant News

TEXAS CITY, TEXAS OCTOBER 27, 1982 VOLUME 15, NUMBER 22

The 1982 Annual Safety and Housekeeping Inspection was conducted October 18-20 using strictly Texas City plant people. Plant people, knowing all the nooks and crannies and the procedures specific to the Texas City plant, could and did provide a really in-depth inspection.

Another new twist this year was to rate individual areas rather than an overall plant rating. The possible ratings were Outstanding, Excellent, Good and Unsatisfactory. However, the inspection team found the plant in such good shape that no area was judged unsatisfactory. To better differentiate between those rated excellent the categories were expanded to: Outstanding, Excellent-Plus, Excellent, Excellent-Minus, Good and Unsatisfactory. These ratings were based on P-Bulletin knowledge and availability, safety meetings and safe practices, application of safety procedures, up-to-date inspections (e.g., ladders, hoses), safety equipment use and condition, STOP implementation, hourly and unit/craft involvement, safety log books, overall housekeeping, and the safety record of that area.

There were four outstanding ratings and all remaining were good to excellent. The four outstanding areas were truly outstanding and deserved to be sited as such. In addition to these ratings, several areas received special recognition for substantial improvement.

OUTSTANDING

Department 53
Department 513 and Ammonia Storage
Medical Department
Departments 48/56

SC 001627

LAM002830

Special Edition

Monsanto Plant News

TEXAS CITY, TEXAS | OCTOBER 13, 1982 | VOLUME 15, NUMBER 21

Plant inspection set for October 18, 19, 20

Theme: 'Good safety and housekeeping count'

Meet the inspectors



Gene Tromblee



Greg Daues



Ed Crow



Rose Mary Fritz



Joe Swain



Mark Riddle

LAM002831

SC 001628

1982 TEXAS CITY SAFETY AND HOUSEKEEPING INSPECTION

GUIDELINES

THEME

GOOD SAFETY AND HOUSEKEEPING COUNTS--WITH EMPHASIS ON SAFETY PERFORMANCE, UP-TO-DATE SAFETY PROCEDURES, PERSONNEL TRAINING ON SAFETY PROCEDURES, ACTIVE PLANT EMPLOYEE PARTICIPATION IN SAFETY ORGANIZATION, AND DEDICATION TO THE STOPPING OF UNSAFE ACTS.

INSPECTION DATE

The plant will be inspected October 18, 19, and 20, 1982.

INSPECTION TEAM

Chairman: G. L. Tromblee, Plant Manager

G. W. Daues - Supt. of Manufacturing
H. E. Crow - Maintenance Supt.
R. M. Fritz - PT Manager
J. Swain - Training Supervisor
M. Riddle - LP&S Engineer

RATINGS

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

Individual areas will be given ratings and the one or two outstanding areas will be awarded a plaque.

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 inspections, including the outside areas, will be communicated Friday, October 22, 1982.

D. D. Kos
1982 SHAC

1983
INSPECTION TOUR SCHEDULE

FIRST DAY:
MONDAY, OCTOBER 24

KICK OFF - Coffee & Rolls - Cafeteria Conference Room 0800-0900

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: Paul Papillion — *Meet in Control Room*
Jack Robinson
Jack Carpenter
George Orum
Morgan Holder
Donis Shotwell — Alternate-Nick Monroe

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: Noel Rickard — *Park beside Control House.*
Larry Baker — *Meet in Control Room.*
John Townsend
Walter "Yankee" Wilson
Elroy Adloff
Bobby Moore

Drive to Phthalic Anhydride Control House.

COFFEE - PHTHALIC ANHYDRIDE (Arrangements by Department) 1010-1025

Hosts: Mark Peebles — *Park beside Control House.*
Meet in Control Room.

DEPT. 53 PHTHALIC ANHYDRIDE 1025-1055

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

LAM002833

Hosts: Mark Peebles
Paula Clemens
Alvin Soderberg
Bill Crowder
Harold Baker
Vil Raska

Drive to Dept. 48-56

DEPT. 48-56 OXO ALCOHOL-PHTHALATE ESTERS 1055-1135

Oxo alcohol area uses CO + H_2 blend gas and olefins as raw materials. Phthalic anhydride and oxo alcohol used to manufacture phthalate esters.

Hosts: Rich Coleman
Brian Kam
Walter "Blue" Price
Norb Novak
Jose Gaviria
James Baker

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 facilities for pharmaceutical grade lactic acid from lactonitrile.

Hosts: C. R. Holcomb
Wm. L. Lingerfelter
John Ringer
Ralph Silvertooth
Keith Bailey
Cathy Geary

Meet in Control House.

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

LUNCH - Trays in Cafeteria Conference Room

Walk to Zone I Office

ZONE I OFFICE 1300-1310

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

Hosts: R. Santarelli
J. W. Paschal
J. Richards

Walk to Operating Engineers Offices

OPERATING ENGINEERS OFFICES 1310-1320

Offices for operating engineers personnel.

Hosts: Bill Recknor
A. D. Moeller
James Platt

Walk to Fire Station.

FIRE STATION 1320-1335

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

Hosts: Jimmy White
Leonard Hamilton
Bob McLaren

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: A. R. Mathison
Gerald McVay
Joe Sweeney

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: C. Loney
S. Poston
C. Martin

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: R. Wilson
T. Conner
D. Barnhill

Park north of reformer.

Drive to car port.

RECAP

SECOND DAY:
TUESDAY, OCTOBER 25

CAFETERIA CONFERENCE ROOM - Coffee & Rolls. 0800-0815

Drive through Sandblasting, NSI Warehouse, Maintenance Laydown, Salvage Areas, elect. whse. 0815-0835

Drive to Dept. 513 Control House.

PRIMARY TREATMENT, AMMONIA TANK 0835-0900

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: G. E. Sprock
B. G. Wooley
Bill Casey
Armando Casas

Meet at 513 Control Room.

BARGE & SHIP DOCKS 5, 4, 3, 2, 1 0900-0940

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

Hosts: T. Hartnett
G. Bostick
D. Paganucci
C. Flemon
E. Crabill
J. Walker

Meet at Dock 5.

Drive through South 22. 0940-0955

COFFEE - MATERIAL HANDLING OFFICE (arrangements by Department) 0955-1010

Hosts: Grace Kaldenberg

Park cars beside old Pilot Plant.

MATERIAL HANDLING OFFICE BUILDING 1010-1020

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

Hosts: F. Bales
G. Kaldenberg
R. Bledsoe

SUPER SHACK, AN INCINERATOR, DRIVE THROUGH STYRENE RACKS, ACY RACK AND EAST STORAGE. 1020-1040

Hosts: G. Vogtman
H. Bessire
J. Melton

DEPT. 13 ALKYLATION, CT-1 1040-1110

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

Hosts: Ken Nielsen
Dorthy Howard
Joe Walker
Leonard Denning

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

DEPT. 15 DEHYDROGENATION 1110-1135

Synthesis area for dehydrogenation of ethylbenzene to crude styrene.

Hosts: N. Ostrosky
Earl Moore
Beverly Dodson
Otto Patterson
Joe Desanto
Hugo Darden

Meet in Control Room.

DEPTS. 14-16 STYRENE - EB DISTILLATION 1135-1205

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

Hosts: EB - Carrol Smith
Dorthy Howard
Rudy Willis
SM - N. Kautz
Wayne Crowson
Beverly Dodson

Meet in Control Room.

Drive to Salt Water Pump House and Zone 1 Warehouse.

SALT WATER PUMP HOUSE AND ZONE 1 WAREHOUSE 1205-1220

Split Team.

Hosts:	Zone 1 Warehouse	Pump House
	T. J. Mitchner	Joe Desanto
	R. H. Darden	Ran Queery
	C. Mata	Beverly Dodson

LUNCH - Trays in Cafeteria Conference Room

Walk to Stores.

STORES 1310-1340

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

Hosts: Terry Grubbs
Tom Crump
John Catching

Pick up cars in car port.
Drive to Warehouses.

WAREHOUSE A-B-C-F-G 1340-1405

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

Warehouse B contains flammable liquids, acids, paint.

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

Warehouse F contains long storage items such as mechanical equipment.

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

Hosts: Terry Grubbs
Tom Crump
John Catching

Split team.
Park across from Zone 2.

ZONE 2 OFFICE 1405-1415

Offices for west plant maintenance personnel

Hosts: Laney Sweatt
Felix DeZengotita
Sue Lessa

Drive to car port.

RECAP

THIRD DAY:
WEDNESDAY, OCTOBER 26

CAFETERIA CONFERENCE ROOM - Coffee & Rolls. 0800-0815

RESEARCH NO. 1 0815-0855

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

Hosts: J. Garton
K. Wogoman
R. Fisher

Meet 1st floor west side.

RESEARCH NO. 2 0855-0955

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: Alex Sorenson, G. Biggs
J. Cross, Leo Garza
H. J. Baumgartner, Y. C. Liu

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

COFFEE - RESEARCH II CONFERENCE ROOM (Arrangements by Dept.) 0955-1010

Hosts: Bernice Flowers
Regina Spiller

RESEARCH NO. 3 1010-1025

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: Bob Crosby
Ted Johnson
Bill Temple

Meet at North Entrance below stairway outside.

PT WAREHOUSE & SOLVENT STORAGE 1025-1035

Host: J. R. McGinty
M. R. Lee
Johnny Mitchell

Walk to Main Office Building.

CAFETERIA 1040-1055

Main plant cafeteria.

Hosts: Harry Robinson
Laverne Chandler
Alma Joiner

Meet at cash registers.

LAM002840

SC 001637

PERSONNEL BUILDING 1325-1340

Building contains personnel office, training facilities, video tape lab, and plant receptionist.

Hosts: Don Kaldenberg
Sue Wilcox
Glenda Meisetschlaeger

Meet in Personnel Bldg. Training Room.

LOCKER BUILDING NO. 1 & SAFETY SUPPLY 1340-1355

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

Hosts: Louis Decker
Eddie Gay
Angelica Solis

GUARD HOUSE 1355-1405

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

Hosts: Billy Barker
Mark Riddle
Steve Lawless

RECAP

FOURTH DAY:
THURSDAY, OCTOBER 27

CAFETERIA CONFERENCE ROOM - Coffee & Rolls 0800-0815

Drive to Dept. 51

DEPT. 51 ACRYLONITRILE, CT-9 0820-0925

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: M. Devore
J. Butler
T. Herring
R. Kozlek
J. Earls
A. Urbani

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

AN personnel return cars at noon.

DEPTS. 44-45-56 METHANOL, CT-3 & 4 0925-1005

Methanol, CO, and H_2 are produced by steam reforming of natural gas and CO_2. CO and H_2 are used in the production of oxo-alcohol and acetic acid.

Hosts: Jim Butler
Harris Congor
Sam Fleenor
Frank Pryor
Byron Johnson
Don Carter

Meet in Control House.

COFFEE - HCN COMPLEX (Arrangements by Dept.) 1005-1025

Hosts: Mike Sweeney

DEPTS. 19-23-25-27-29 HCN-ACN-TBA-LN-ACY, CT-2 1025-1120

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

Hosts: Bob Lynch
Betty Beavers
D. Wells
George Bryan
Jasper Jennings
Mike Sweeney

Meet in Control House.

LAM002842

LUNCH - Trays in Cafeteria Conference Room

SHOPS BUILDING 1220-1305

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: K. Mathis *Meet at Shift Office.*
J. Haskovec
B. Recknar
R. Lopez
J. Fassetta
R. Wohleb

SOUTH MAINTENANCE BUILDINGS, INSTRUMENT SHOP & GARAGE 1305-1350

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

Hosts:	Maintenance	Instrument
	R. Bohlmer	Joe Matzke
	H. Bullock	Arnold Wisdom
	S. Jones	Jack Kiser
	D. Beard	Ralph Duzzelli
	L. Dolegal	Ray Fluharty
	M. Hare	Marvin Ball

RECAP