

Monsanto

FROM (NAME & LOCATION)

C. L. Wilson

Noel L. Rickard - Texas City, Texas

50D

DATE August 26, 1976

cc. L. I. Baker
B. L. Johnson
R. Rosenberg
G. T. Ryan
L. N. Vickery

SUBJECT SAFETY TOPICS FOR SAFETY CONTACT '76

REFERENCE

TO : Arnold Glass

PLAINTIFF'S EXHIBIT

MON-1081

Following are the four safety topics for the Safety Contact '76
Program from Department 50:

1. Lockout Procedure
2. Decontamination Procedure
3. Sampling Procedure
4. Iodine Handling Procedure

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SAFETY TOPICS - CONTACT SAFETY '76

DEPARTMENTS 19-25-27-29

Emergency lighting

Safety goggle regulations

Emergency Procedure Plan

Personal protective equipment

Sampling toxic streams

Handling of samples of hazardous materials

*Approved by SHAC
Arnold Glass
9/30/76*

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DEPARTMENT 33
SAFETY TOPIC '76

1. Lockout P41.
2. Prepare 33V2 for entry.
3. Put on the Scott Air Pak.

A. R. Kivich

G. G. Chestnut

/jp
8/30/76

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LAM015166

DEPARTMENT 56

1. 56V1 preparing for maintenance.
2. PA system preparing for maintenance.

DEPARTMENT 48

1. R101 O.H. line preparing for maintenance.
2. C701 preparing for maintenance.
3. Hydrogenators catalyst change out.

N. G. Trainer

T. J. Kennedy

/j
jp
8/30/76

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LAM015167

DEPARTMENT 53 SAFETY TOPICS FOR CONTACT '76 PROGRAM

1. Hazards associated with and proper precautions to take when preparing the 53E6 switch condenser drain lines for maintenance to disconnect, connect, or break into to avoid hazard to fitters (PA burns).
2. Hazards associated with and proper precautions to take in closing off the column vacuum jets to keep column vacuum from pulling in air or vapors from outside columns (explosive or contamination hazard).
3. Hazards associated with and proper procedure required to return a 53E7 switch condenser to service following a repair job - specifically how to avoid getting any water into the hot oil system which could result in a severe overpressure of equipment (overpressure and equipment rupture hazard).

G. A. Hart

Ken Harris

/jp
8/30/76

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LAM015168

SAFETY TOPIC LIST

ANALYZER

1. Handling and changing cylinders.
2. Flushing sample lines.
3. Changing sample valves.
4. Sample oven jobs have burn hazard.

ELECTRONIC SHOP

1. High voltage troubleshooting.
2. Changing CRT's or picture tubes.
3. Watch for electrolytic capacitor explosions.
4. Beware of temporary exposed wiring during tests or troubleshooting.
5. Isolation transformer is necessary on equipment that has no internal isolation.
6. Discharge capacitors when equipment has no power on.
7. Dynatrol replacement.
8. Proper use of soldering equipment.

CONVENTIONAL FIELD

1. Checking seal meter.
2. Checking displacers on level transmitters.
3. Blowing down steam meters.
4. Chlorinator troubleshooting and repair.
5. HCN pH sampling.
6. Thermocouple removal (hot).

CONVENTIONAL SHOP

1. Handling heavy equipment (valves, etc.)
2. Opening enclosed instruments that may contain hazardous materials.
3. Lathe operation.
4. Use of welding and cutting equipment.
5. Use of drill press and grinders.
6. Use of hydraulic press.
7. Shop hand tools.

C. E. Coulston
Hourly Safety Comm. Rep.
Instrument Dept.

8/25/76

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INSULATION DEPARTMENT

LIST OF SAFETY TOPICS

1. Burn protection (hazard area).
2. Handling of asbestos material.
3. Working in cover goggle area.
4. Stripping of caustic lines, electric traced lines, hot lines, rusty and corroded lines.
5. Working in high places.

S. Jones

/jp
8/30/76

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LAM015170

BOILERMAKERS

1. 10E65 maintenance.
2. 53E6 switch condenser maintenance - bundle replacement.
3. Methanol reformer - header repair & pigtail crimping.
4. 35V1-1, 2, 3 - cleaning polymer out of reactor.
5. 13E3's - unheading, rodding, and cleaning.
6. Installing boom and lift cranes, taking out boom.

Anderson/Leach

/jp
8/30/76

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LAM015171

CARPENTERS

1. Building scaffolds around expansion joints and piping on 15R1's.
2. Scaffolding beside CT-8.
3. Work on scaffolds near vent hoods.

Grimes/McGowan

/jp
8/30/76

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LAM015172

ELECTRICAL SHOP
SAFETY TOPICS FOR DISCUSSION

1. Relamping.
2. Changing belts on motors.
3. Changing out 480 volt breakers.
4. Battery maintenance.
5. Load switching (power distribution).
6. Motor repairing.
7. Disconnecting and handling motors.

J. S. McCurley

J. D. Kemmerling

/jp
8/30/76

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LAM015173

PAINT DEPARTMENT

1. Sandblasting.
2. Spray painting.
3. Stageing.

T. H. Glover

J. F. Thompson

/jp
8/30/76

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PIPEFITTERS

1. Install slip blinds (for what purpose).
2. Remove piping (for what purpose).
3. Clean screens.
4. Fabricate piping.
5. Cut out slip blinds.
6. Hook up barges & ships (disconnect same).
7. Hook up HCl trucks (disconnect same).
8. Hook up sulphuric acid cars (disconnect same).
9. Weld up steam leaks.
10. Revise existing piping.
11. Remove relief valves and install.
12. Remove instruments and install.
13. Water blast contaminated pipe.
14. Rattle plugged pipe.
15. Using heavy equipment to install or remove pipe, valves, etc.
16. Making pipe hanger in the field.
17. Breakout out plugged piping.
18. Repairing underground piping.
19. Remove, repair, and replace seal piping on mixers, compressor, pumps, etc.
20. Replace filters.
21. Hot tap connections.
22. Install rupture disk.
23. Breaking out hazardous piping such as HCN.

/jlp
8/30/76

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MACHINISTS

1. 16P54-3 - cooling water pump.
2. 15P15's & 16's condensate pumps.
3. 13P5's.
4. 10P31 waste oil pumps.
5. Routine running repairs on Clark engines (Dept. 10).
6. 977 DM 14-2 clarifier.
7. CT2 - cooling tower (gear box) (fan).
8. 50P102 DT (product pump).
9. 35N8-1 & 2 seals.
10. 35G1 & 2 & 3 die plates.
11. 35G1, 2, & 3 blobs.
12. 35G1-3 blade changes.
13. 35NN7-1 & 2 seals.
14. Tank car valves (Research Dept.).
15. Diesel repair on barges (Research Dept.).
16. 513 P202's slush pump (Research Dept.).
17. 513 P207's acid pumps (Research Dept.).
18. Dept. 17 fire pumps - alignment.
19. CR-1 - Manitowac - pull main drive wheel & axles (garage).
20. CR-1 - Manitowac - pull draw works (garage) (drum shaft assembly).
21. CR-6 Pettibone - pull boom and or wheels (garage).
22. 56R1-1, 2, 3, 4 - change agitator shaft.
23. 53V1-1, 2, 3, 4, 5 - Dingler valves - replace gear box.
24. 48P406-1 & 2 - Sundine pump & gear box - repair & replace.
25. 48C701 - compressor - valve change.

MACHINISTS (cont'd)

26. 44P103-1, 2, 3 - pumps & turbine - remove & replace pumps - P.M. or turbines.
27. 972 CT3 B 1 thru 10 - P.M. on cooling tower fans.
28. Tool room - removing tarps.
29. Bench (general) pump repairs.

Zeller

Puckett

/jp
8/30/76

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OPERATING ENGINEERS

1. Traveling cranes thru plant.
2. Getting off & on cranes.
3. Laying Dept. 10 Petro Chem heater stacks down.
4. Remove & install 10E65's.

Black

McRae

/jp
8/30/76

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LAM015178

SAFETY TOPICS - CONTACT SAFETY '76

LABOR DEPARTMENT

Lifting hazards

Slipping handling

Handling NSI material

Personal protective equipment

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SAFETY TOPICS - SAFETY CONTACT '76

TRUCK DEPARTMENT

Safe handling of laboratory materials

Safety in getting on or off the truck

Handling of drums of scrap

Transferring tool boxes

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SAFETY TOPICS - SAFETY CONTACT '76

NIGHT JANITORS

Dumping of containers

Lifting

Ladder safety

Changing lights

Slipping hazards

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PURCHASING/STORES

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SAFETY TOPICS

What do you do when the fire (or spill) alarm is sounded.

Is it fire or spill?

What type communication?

Do you run outside or stay inside?

Do you use the telephone?

During spill, is building pressured up?

Do you know the location and how to work the fire extinguishers in your office area?

Do you know all plant exits? If not, where would you find out if floor warden was not available?

Inspecting material packaged in cardboard cartons w/staple closures, wooden crates, steel bands.

Unloading palletized material at Receiving Dept.

Shipping of chemical product samples.

Handling of NSI at NSI Warehouse.

Receiving procedure for compressed cylinders. (Ask about compressed air.)

Loading and unloading of four wheeled freight hand trucks (routine).

Use of elevators and dumbwaiters.

Handling of blasting caps.

Personal safety equipment requirements in Stores Dept.

Driving fork lift trucks on ramps.

Removing heavy materials from bin by hand.

Coating parts with hot seal peel.

Unloading raw material trailer trucks.

Handling cylinders (compressed gas).

LAM015182

8/27/76

*Approved by SHK
JGL
8/28/76*

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PE LAB

1. Preparation of test slabs for determining polymer properties.
2. Use of viscosity testing equipment (MCER - viscosity).
3. Sample preparation for liquid slurries.

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SAFETY TOPICS - SAFETY CONTACT '76

CONTROL LABORATORY

Safe handling of unlabeled materials

Dumping waste materials

Safe handling of glassware

Safe handling of samples in bottles

*Approved by SHAC
Arnold Glass
8/30/76*

LAM015184

August 25,1976

SAFETY CONTACT '76 PROGRAM

TO HOURLY SAFETY COMMITTEE MEMBER
BOBBY SANDERS

I,as Supervisory contact for Material Handling,have been asked to make a list of safety topics. They are the following:

1. Trackmobil safety--for polyethylene section.
2. Safety in loading and unloading ship and barges.
3. Tankcar loading and unloading safety.
4. Tanktruck loading and unloading safety.
5. Drum loading safety.


Joe A. Cantrell

SC 14593

LAM015185

SAFETY TOPICS - SAFETY CONTACT '76

GUARDS

Safe handling of traffic at gates

Foot patrol tripping hazards

Defensive driving

Construction area hazards

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Arnold Glass
8/30/76*

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CAFETERIA

1. The safety hazards of cooking.
2. The safety hazards of waitress work.
3. The safety hazards of dish washers.

C. Merryman

L. Chandler

/jp
8/30/76

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MECHANICAL TECHNOLOGY

(Topics I Gave to Gupton)

1. Use of office equipment, electrical precautions.
2. What to do in case of fire.
3. Laboratory safety - personal protection while working with metal.
4. Field safety - conditions and procedures for inspecting equipment.

/jp
8/30/76

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SAFETY TOPICS FOR "SAFETY CONTACT" EXPERTS - AN-5

<u>TOPIC</u>	<u>POSSIBLE APPLICATION</u>
1. Fire Permit Procedure	a. New piping in existing racks; role of CED, future owner and adjacent area supervision and operators. b. New construction in existing plant (i.e., North Storage Area) Permit vs. "Open Area."
2. Protective Devices, Large Rotating Machinery Safety (i.e., vibration, thrust, low oil, overspeed, etc.)	a. AN-5 main air compressors b. Methanol compressors. c. Styrene axial compressors (Vanderford good candidate here).
3. Construction Area Safety	a. Things to be alert to when touring and const. area, hazards. b. "Safest" time to visit area.
4. HCN handling (Applies to both AN-5 and Dept. 19)	a. HCN sampling in AN-5. b. "First flange rule" in AN-5. c. "Buddy system" in AN-5. d. Operator back-up for Maint., P.T., etc. e. Precautions when incinerating liquid HCN. f. Decontamination of HCN handling eqpt. (heads col., condenser, etc.) and piping. g. Reporting to Chief Operator prior to entering AN-5 Mfg. area.
5. Hazards of Handling LPG's (propylene)	a. Handling RV discharges (thermal RV's to vent headers, flare, etc.) b. Bleeding down LPG piping (valve freeze-ups, double block and bleed design in AN-5, bleeders hand piped to vent headers, etc.).

AN-5 (cont'd)

TOPIC

POSSIBLE APPLICATION

- | | |
|---|--|
| 6. LPG Pipeline Safety
(propylene) | a. Above applications apply.
b. Special controls (i.e. high down stream pressure overrides, low upstream pressure).
c. Remote shutoffs at fence line.
d. Clearing a pipeline of liquid (i.e. line pigging facilities).
e. Clearing a pipeline of moisture and air prior to introduction of LPG's.
f. Optional - piping classes for LPG's, relationship between piping class and RV settings; why are we using 600 lb. class pipe? |
| 7. Hazards of Handling Steam (AN-5, Power 2, MeOH, SM, PA, etc.) | a. Safe method of warming up headers, vessels, turbines, etc. (avoidance of water - hammer, etc.)
b. Detecting/handling leaks in HP steam service.
c. Avoiding contact with hot equipment; personnel protection, etc. |
| 8. Safe Operation of Boilers and Furnaces (Power 2, MeOH, AN-5, SM, PA, etc.) | a. Flame scanner system.
b. Boiler interlock system; why necessary?
c. Necessity of purging firebox prior to ignition.
d. Monitoring/control of excess air; hazards of "combustibles."
e. Hazard of flashbacks. |

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AN-5 (cont'd)

<u>TOPIC</u>	<u>POSSIBLE APPLICATION</u>
9. Importance of Communications in Large Units (AN-5)	a. Safety advantages of maintaining radio contact with Control Room. b. Use of radios and other comm./ alarm devices during spills. c. Handling and controlling hazards via telephone "hot lines" (i.e., HCN to Dept. 19; ammonia spills, etc.)
10. Safe Use and Care of Operator's "Tools" and Protective Equipment	a. Valve wrenches; how to use properly (how does small man operate those big valves). b. Proper use of pipe wrenches, channel locks, why these aren't good substitutes for valve wrenches. c. Operator radio as a tool. d. Use and importance of plastic gloves, cover goggles, rubber boots & slicker suits, long-sleeved shirts.

L. Schlechte

J. H. Swain

B. V. Kukuk

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8/30/76

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