PROCEDURE (Continued)

5. Caution must be exercised when applying water to material of a heavy, viscous nature and above 212°F, such as tar, due to splashing. It is extremely important that the water be applied in a fog and be done intermittenly.

6. Water is very effective when used in a fog pattern to provide a water curtain between large LPG spill and a source of ignition, such as furnaces, etc.

7. All personnel should be informed that, in the event of a chemical spill, water is very important and should be applied as soon as possible, and the fire alarm turned in. There are times when turning in of the fire alarm for a spill is more important than for a fire. When chemicals are spilled, there is a danger of flash fire and/or explosion if the spill is not cleaned up immediately.

8. A good rule to follow on flushing acid lines is never use water to flush the lines and equipment until all acid has been removed or drained by other means.

9. Water, because of its mineral content, is an electrical conductor. Applying water to electrical equipment is, therefore, very hazardous. DO NOT use water on any electrical equipment.

AUTHOR: R. G. McNeely
R. G. McNeely

APPROVED BY: J. S. Hagood
J. S. Hagood

APPROVED BY: G. E. Davenport
G. E. Davenport

PLAINTIFF'S EXHIBIT
tabbies
MON-276

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17002

LC01554

USE OF VACUUM TRUCKS

PURPOSE

This policy and procedure defines the methods and responsibilities necessary to provide control of vacuum trucks from the viewpoint of both safety and long-term economy.

POLICY

The Environmental Control Department will dispatch all vacuum trucks. Tank trucks hauling material to be discarded will be dispatched by the Environmental Control Department functioning through the Distribution Dispatchers and adhering to the unit procedure for that material.

The requesting or originating department must declare the material to be hauled as either a waste or a usable material and as meeting certain requirements as defined further in the Procedure.

Disposition of all discarded material hauled by vacuum truck will be determined by the Environmental Control Department.

All vacuum truck operations should be confined to the hours that vacuum trucks are normally scheduled Monday - Friday. Scheduled hours will be determined according to the most efficient utilization of the vacuum trucks to fit the plant's needs. Scheduled hours will normally be established between 8:00 A.M. and 4:30 P.M. Monday - Friday. The use of vacuum trucks outside of the regularly scheduled hours Monday - Friday must be approved by the night supervisor. However, specific vacuum truck operations which begin during the scheduled hours Monday - Friday can continue beyond these hours without additional approval.

PROCEDURE

Attachments 1 and 2 indicate various jobs which may be routinely handled by vacuum trucks under this policy. Materials listed in Attachment 1 are those that have initially been determined to be handleable with air in vacuum trucks. Materials listed in Attachment 2 may be handled in vacuum trucks only when the following conditions have been met:

1. Trucks and hoses grounded while loading or unloading.

2. Inert gas or nitrogen is used to free the vacuum truck of air before loading.

USE OF VACUUM TRUCKS

3. Inert gas or nitrogen is used if the truck must be pressured to remove contents (rather than pressuring tank with truck compressor).

The department requesting vacuum truck service should contact the Environmental Control Department, providing information on type of material, any hazardous properties, origin, flash point above or below 125°F, and when the truck is needed. The flash point is determined by sending a sample to the Lab marked vacuum truck check and the "tag closed cup" method will be used.

Materials having less than 125°F flash points must have approval from a manufacturing superintendent or equivalent before being handled in a vacuum truck. Each request made to handle materials with less than 125°F flash point must be supported by a job plan used by the requesting department to insure that the safest method available is used for loading and unloading the truck. The requesting department should have a current flash point identity list to be used as a guide for the materials to be handled in a vacuum truck from the requesting department.

Trucks must be cleaned before and after handling acidic or basic materials. Mixing acidic/basic materials in a vacuum truck is not permitted under any circumstances. Inspection of the truck before loading is also advisable and the responsibility of the using department. If the material is shown on the attached lists, a vacuum truck will be dispatched. Special jobs, not listed, will be necessary from time to time. These jobs require approval of the manufacturing superintendent, or equivalent, of the department requesting the transfer during the regularly scheduled hours, Monday - Friday. Approval for these jobs outside of the regularly scheduled hours, Monday - Friday, must be given by the night supervisor.

A vacuum truck request sheet and trip ticket is required for each job. Alteration to tickets for driver to perform work outside of dispatch ticket is not permitted under any circumstances.

RESPONSIBILITIES

Environmental Control Department

1. Maintain records of vacuum truck transfers as shown on Attachment 3.

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USE OF VACUUM TRUCKS

2. Dispatch trucks for routine jobs on a first in first out request basis unless an emergency warrants a change. Request trucks through the vacuum truck company dispatcher for jobs needed outside of the regularly scheduled hours.

3. Maintain an up-to-date listing of "approved" vacuum truck users with inputs from user departments.

4. Determine disposition of vacuum truck wastes.

Requesting Department

1. Determine the type of material, its hazardous properties and origin prior to requesting service.

2. Implement the safe handling techniques described in the Procedure. Attachment 4 is included as a guideline on flammability restraints. For chemical compatibility restraints, refer to the Chocolate Bayou "Safety Guide" booklet, Pages 7-9.

3. Provide written notification of requested changes in the "approved" user list to the Environmental Control Department.

4. Obtain proper approval for special jobs not included on Attachment 1 and 2 approved lists.

5. Obtain night supervisor approval to use a vacuum truck for any purpose outside of the regularly scheduled hours, Monday - Friday.

6. Check the vacuum truck ticket time charged against the actual time spent and make revisions, if necessary.

7. Attach the trip ticket to the vacuum truck request sheet after assuring that entries are correct. These will be used by the Accounting Department to verify payment of vacuum truck bills.

8. Plan vacuum truck needs to be compatible with unit operations and restrict their use where possible to the regularly scheduled hours, Monday - Friday.

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USE OF VACUUM TRUCKS

9. Keep current a flash point identity list on all materials to be handled by a vacuum truck.

10. Keep current a department job plan for use in handling materials with less than 125°F flash point in vacuum trucks to insure the safest method is used for loading and unloading the truck.

added

11. Identify vacuum truck jobs that do/do not require a helper on the truck.

NOTE: As used above and on attachments, "approved" simply means not prohibited at this time. Other ways of handling the material may be more economical and/or safer.

AUTHOR : F. E. Crook

APPROVED BY: F. C. Himes

G. E. Davenport 2/2/76

6113
17006

EC01558

USE OF VACUUM TRUCKS

APPROVED MATERIALS FOR HANDLING WITH AIR IN VACUUM TRUCKS

SOURCE DEPT.	EQUIPMENT	NORMAL MATERIAL
Utilities	Miscellaneous Equipment	Used Lubricating Oil
	Acid Storage Tanks	Dilute Acid & Sludge
	Chemlime Storage Tank	Chemlime Sludge & Water
	Boiler Acidizing Material	Spent Ammoniated EDTA
added	350T-15 Sump	Water & Oil
Ethylene	13T5	Amine, Sludge, Water
	319Z1	Water, Oil, Coke Particles
	16T9	DMF & Water
SAB	Neutralization Pit	Water, Oil Emulsion
Hydrocarbons	Column and Exchanger Acidizing Material	Spent H. C. L. Acid and H_2O
AN	30T15	*Catalyst, Sludge Water
	Chemical Sump	*Acid & Water
	Sump Tanks 30T15 & 31T7	*Catalyst, Sand, Polymer, H_2O

EC01559

USE OF VACUUM TRUCKS

APPROVED MATERIALS FOR HANDLING WITH AIR IN VACUUM TRUCKS

SOURCE DEPT.	EQUIPMENT	NORMAL MATERIAL
Resins	85T18	Filter Cake Slurry
	85P5 Resins Sump	Calcium Carbonate Salt in Water with Formaldehyde Methanol, Phenol & Caustic
	83T2	Same as Above - 85P5
	85T-25	Same as Above - 85P5
	85T-10 Railcars	20% Spent Caustic, Formalin & Water + Paraformaldehyde Solids
DB2	55R4	*Process Water Waste
Distribution	Tar Pump	Tar
	AN Firewall	AN and Water
added	Phenol Sumps (2) and Phenol Tank Firewalls	Phenol and Water
	Caustic Sump	Dilute Caustic
	Barge Slip	Water and Oil
	Storage Tanks (Cleaning)	Water, Soap, Oil Emulsion
	~~Shipping Office Septic Tank~~	~~Water, Sewage~~
changed	Miscellaneous Lines, and non-toxic material with flash points above 125°F	Miscellaneous

*NOTE: May contain excessive HCN concentrations. Sampling, special handling, and Manufacturing Superintendent approval required for HCN concentrations above 10 ppm.

USE OF VACUUM TRUCKS

APPROVED MATERIALS FOR HANDLING WITH AIR IN VACUUM TRUCKS

SOURCE DEPT.	EQUIPMENT	NORMAL MATERIAL
Environmental Control (added)	Plant Outfall & N & S Ditch Traps	Oil, Scum, Water
	334/336 Lift Stations	Miscellaneous Oil/Water Sludges
	Miscellaneous Pipeways	Miscellaneous Organics & Water
	334P7 Sump & Aeration Ponds	Oils & Sludge
	334P7 Sump	Skimmed Oil
	336P4 Sump & Ponds	Oils & Sludge
	336P6 Sump & Ponds	Oils & Sludge
General Plant	Process Sewers	Trash, Mud & Water (Check for hazardous materials is required.)
2 added	Septic Tanks	Water and Sewage
Laboratory	Skid Tank	Heavier than Benzene Hydrocarbons

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EC01561

USE OF VACUUM TRUCKS

APPROVED MATERIALS FOR HANDLING WITH INERT GAS IN VACUUM TRUCKS

SOURCE DEPT.	EQUIPMENT	NORMAL MATERIAL
Ethylene	11T12	Water, MEA, TEG, C6 & HVR
	11T18	Water, MEA, H_2S
	13E-10	Amine, Sludge, Water
	13T8	TEG, MEA, Water
Hydrocarbons	23T-11	Water & <1% Glycol
changed	23D-4	Tetraethylene Glycol & Sludge
	25T-3	Water & <1% Glycol
	25T-6	Water, C_6 & Heavier
	27T5	Water, C_6 & Heavier
added	80T-5	Furfural & MOPN
	80T17	MOPN & Furfural Polymer
Phenol	67T16	Waste Oil
	68T8	AMS Waste Oil

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USE OF VACUUM TRUCKS

APPROVED MATERIALS FOR HANDLING WITH INERT GAS IN VACUUM TRUCKS

SOURCE DEPT.	EQUIPMENT	NORMAL MATERIAL
Distribution	Miscellaneous Organics with Flash Points Below 125°F	Miscellaneous Organics
Environmental Control	334T6	C_6, HVR Oil
	Wet well	Skimmed Oil and Bottom Sludge
Fire Training	SN1FO Tanks	SN1FO

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E001563

Org.Issue-8/15/69

MONSANTO COMPANY

VACUUM TRUCK SERVICE RECORD

SP-015

Date: _____

Dispatcher Name _____

Requesting Supervisor _____

Time Truck Requested _____

Time Truck Arrived _____

Time Truck Needed _____

Time Truck Released _____

Clean Truck Required

☐ Yes ☐ No

If NO, truck last carried _____

Helper Required

☐ Yes

☐ No

Personnel Safety Equipment Required for this job:

☐ Hard Hat	☐ Safety Glasses	☐ Goggles
☐ Face Shield	☐ Slicker Suit Top	☐ Rubber Boots
☐ Chemical Gloves	☐ Slicker Suit – 2 Piece	☐ Other

NOTE: Goggles, chemical gloves and hard hat are minimum safety requirements when unloading and washing out any vacuum truck.

Name of Material _____

Material on "Approved" List No. _____

Originating Vessel Name and Number _____

Disposition of Material _____

Vacuum truck tank to have ☐ air, ☐ nitrogen in it while being loaded.

Vacuum truck tank to be emptied with ☐ air, ☐ nitrogen.

Name of Truck Driver _____

Name of Person Releasing Truck _____

Comments _____

The personnel safety equipment checked above is available and is to be used by the driver and helper while loading, unloading and washing out, and the truck is equipped with fire extinguisher, relief valve and grounding cable.

Signed (Vacuum Truck Driver): _____

The personnel safety equipment checked above is adequate for the job at hand.

Signed (Using Unit Representative): _____

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17012

Changed

THE UNIT USING A VACUUM TRUCK WILL PROVIDE JOB SUPERVISION REQUIRED.

L001564

MCB-279 (REV. 10/74) R/4 2-6-76

Attachment #3

Page 1 of 1

USE OF VACUUM TRUCKS

GUIDE FOR PERMITTED VACUUM TRUCK USE

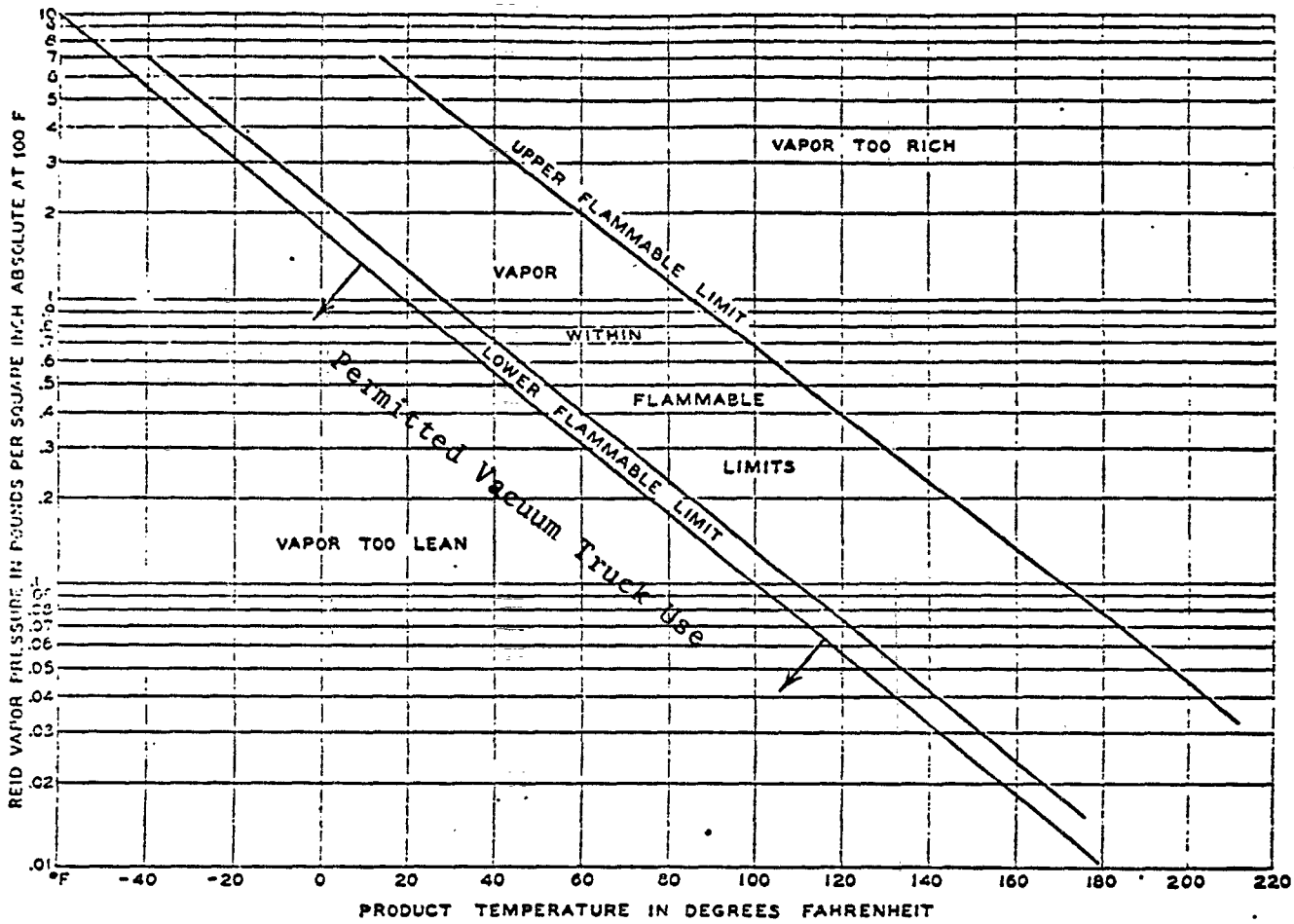

FIG. 8—Relationship Between Temperature, Rvp, and Flammable Limits of Petroleum Products at Sea Level.

Ref: API RP 2003, 2nd Ed., Sept. 1967

Attachment #4, "Guide for Permitted Vacuum Truck Use," will be used as the basis for deciding if vacuum trucks are safe for special jobs not included in Attachment #1 or #2.

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USE OF VACUUM TRUCKS

3. Inert gas or nitrogen is used if the truck must be pressured to remove contents (rather than pressuring tank with truck compressor).

The department requesting vacuum truck service should contact the Environmental Control Department, providing information on type of material, any hazardous properties, origin, flash point above or below 125°F, and when the truck is needed. The flash point is determined by sending a sample to the Lab marked vacuum truck check and the "tag closed cup" method will be used.

Materials having less than 125°F flash points must have approval from a manufacturing superintendent or equivalent before being handled in a vacuum truck. Each request made to handle materials with less than 125°F flash point must be supported by a job plan used by the requesting department to insure that the safest method available is used for loading and unloading the truck. The requesting department should have a current flash point identity list to be used as a guide for the materials to be handled in a vacuum truck from the requesting department.

Trucks must be cleaned before and after handling acidic or basic materials. Mixing acidic/basic materials in a vacuum truck is not permitted under any circumstances. Inspection of the truck before loading is also advisable and the responsibility of the using department. If the material is shown on the attached lists, a vacuum truck will be dispatched. Special jobs, not listed, will be necessary from time to time. These jobs require approval of the manufacturing superintendent, or equivalent, of the department requesting the transfer during the regularly scheduled hours, Monday - Friday. Approval for these jobs outside of the regularly scheduled hours, Monday - Friday, must be given by the night supervisor.

A vacuum truck request sheet and trip ticket is required for each vacuum truck operator.

RESPONSIBILITIES

Environmental Control Department

1. Maintain records of vacuum truck transfers as shown on Attachment 3.

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USE OF VACUUM TRUCKS

PURPOSE

This policy and procedure defines the methods and responsibilities necessary to provide control of vacuum trucks from the viewpoint of both safety and long-term economy.

POLICY

The Environmental Control Department will dispatch all vacuum trucks. Tank trucks hauling material to be discarded will be dispatched by the Environmental Control Department functioning through the Distribution Dispatchers and adhering to the unit procedure for that material.

The requesting or originating department must declare the material to be hauled as either a waste or a usable material and as meeting certain requirements as defined further in the Procedure.

Disposition of all discarded material hauled by vacuum truck will be determined by the Environmental Control Department.

All vacuum truck operations should be confined to the hours that vacuum trucks are normally scheduled Monday - Friday. Scheduled hours will be determined according to the most efficient utilization of the vacuum trucks to fit the plant's needs. Scheduled hours will normally be established between 8:00 A.M. and 8:00 P.M. Monday - Friday. The use of vacuum trucks outside of the regularly scheduled hours Monday - Friday must be approved by the night supervisor. However, specific vacuum truck operations which begin during the scheduled hours Monday - Friday can continue beyond these hours without additional approval.

PROCEDURE

Attachments 1 and 2 indicate various jobs which may be routinely handled by vacuum trucks under this policy. Materials listed in Attachment 1 are those that have initially been determined to be handleable with air in vacuum trucks. Materials listed in Attachment 2 may be handled in vacuum trucks only when the following conditions have been met:

1. Trucks and hoses grounded while loading or unloading.

2. Inert gas or nitrogen is used to free the vacuum truck of air before loading.

USE OF VACUUM TRUCKS

9. Keep current a flash point identity list on all materials to be handled by a vacuum truck.

10. Keep current a department job plan for use in handling materials with less than 125°F flash point in vacuum trucks to insure the safest method is used for loading and unloading the truck.

11. Identify vacuum truck jobs that do/do not require a helper on the truck.

NOTE: As used above and on attachments, "approved" simply means not prohibited at this time. Other ways of handling the material may be more economical and/or safer.

AUTHOR : F. E. Crook

APPROVED BY: F. C. Himes

G. E. Davenport 2/2/76

6113
17016

D001568

USE OF VACUUM TRUCKS

2. Dispatch trucks for routine jobs on a first in first out request basis unless an emergency warrants a change. Request trucks through the vacuum truck company dispatcher for jobs needed outside of the regularly scheduled hours.

3. Maintain an up-to-date listing of "approved" vacuum truck users with inputs from user departments.

4. Determine disposition of vacuum truck wastes.

Requesting Department

1. Determine the type of material, its hazardous properties and origin prior to requesting service.

2. Implement the safe handling techniques described in the Procedure. Attachment 4 is included as a guideline on flammability restraints. For chemical compatibility restraints, refer to the Chocolate Bayou "Safety Guide" booklet, Pages 7-9.

3. Provide written notification of requested changes in the "approved" user list to the Environmental Control Department.

4. Obtain proper approval for special jobs not included on Attachment 1 and 2 approved lists.

5. Obtain night supervisor approval to use a vacuum truck for any purpose outside of the regularly scheduled hours, Monday - Friday.

6. Check the vacuum truck ticket time charged against the actual time spent and make revisions, if necessary.

7. Attach the trip ticket to the vacuum truck request sheet after assuring that entries are correct. These will be used by the Accounting Department to verify payment of vacuum truck bills.

8. Plan vacuum truck needs to be compatible with unit operations and restrict their use where possible to the regularly scheduled hours, Monday - Friday.

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USE OF VACUUM TRUCKS

APPROVED MATERIALS FOR HANDLING WITH AIR IN VACUUM TRUCKS

SOURCE DEPT.	EQUIPMENT	NORMAL MATERIAL
Resins	85T18	Filter Cake Slurry
	85P5 Resins Sump	Calcium Carbonate Salt in Water with Formaldehyde Methanol, Phenol & Caustic
	83T2	Same as Above - 85P5
	85T-25	Same as Above - 85P5
	85T-10 Railcars	20% Spent Caustic, Formalin & Water + Paraformaldehyde Solids
DB2	55R4	*Process Water Waste
Distribution	Tar Pump	Tar
	AN Firewall	AN and Water
added	Phenol Sumps (2) and Phenol Tank Firewalls	Phenol and Water
	Caustic Sump	Dilute Caustic
	Barge Slip	Water and Oil
	Storage Tanks (Cleaning)	Water, Soap, Oil Emulsion
	Shipping Office Septic Tank	Water, Sewage
changed	Miscellaneous Lines, and non-toxic material with flash points above 125°F	Miscellaneous

*NOTE: May contain excessive HCN concentrations. Sampling, special handling, and Manufacturing Superintendent approval required for HCN concentrations above 10 ppm.

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USE OF VACUUM TRUCKS

APPROVED MATERIALS FOR HANDLING WITH AIR IN VACUUM TRUCKS

SOURCE DEPT.	EQUIPMENT	NORMAL MATERIAL
Utilities	Miscellaneous Equipment	Used Lubricating Oil
	Acid Storage Tanks	Dilute Acid & Sludge
	Chemlime Storage Tank	Chemlime Sludge & Water
	Boiler Acidizing Material	Spent Ammoniated EDTA
added	350T-15 Sump	Water & Oil
Ethylene	13T5	Amine, Sludge, Water
	319Z1	Water, Oil, Coke Particles
	16T9	DMF & Water
SAB	Neutralization Pit	Water, Oil Emulsion
AN	30T15	*Catalyst, Sludge Water
	Chemical Sump	*Acid & Water
	Sump Tanks 30T15 & 31T7	*Catalyst, Sand, Polymer, H_2O

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USE OF VACUUM TRUCKS

APPROVED MATERIALS FOR HANDLING WITH AIR IN VACUUM TRUCKS

SOURCE DEPT.	EQUIPMENT	NORMAL MATERIAL
Environmental Control (added)	Plant Outfall & N & S Ditch Traps	Oil, Scum, Water
	334/336 Lift Stations	Miscellaneous Oil/Water Sludges
	Miscellaneous Pipeways	Miscellaneous Organics & Water
	Wet Well	Skimmed Oil & Bottom Sludge
	334P7 Sump & Aeration Ponds	Oils & Sludge
	334P7 Sump	Skimmed Oil
	336P4 Sump & Ponds	Oils & Sludge
	336P6 Sump & Ponds	Oils & Sludge
General Plant	Process Sewers	Trash, Mud & Water (Check for hazardous materials is required.)
Laboratory	Skid Tank	Heavier than Benzene Hydrocarbons

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USE OF VACUUM TRUCKS

APPROVED MATERIALS FOR HANDLING WITH INERT GAS IN VACUUM TRUCKS

SOURCE DEPT.	EQUIPMENT	NORMAL MATERIAL
Ethylene	11T12	Water, MEA, TEG, C6 & HVR
	11T18	Water, MEA, H_2S
	13E-10	Amine, Sludge, Water
	13T8	TEG, MEA, Water
Hydrocarbons	23T-11	Water & <1% Glycol
changed	23D-4	Tetraethylene Glycol & Sludge
	25T-3	Water & <1% Glycol
	25T-6	Water, C_6 & Heavier
	27T5	Water, C_6 & Heavier
added	80T-5	Furfural & MOPN
	80T17	MOPN & Furfural Polymer
Phenol	67T16	Waste Oil
	68T8	AMS Waste Oil

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USE OF VACUUM TRUCKS

APPROVED MATERIALS FOR HANDLING WITH INERT GAS IN VACUUM TRUCKS

SOURCE DEPT.	EQUIPMENT	NORMAL MATERIAL
Distribution	Miscellaneous Organics with Flash Points Below 125°F	Miscellaneous Organics
Environmental Control	334T6	C_6, HVR Oil
Fire Training	SN1FO Tanks	SN1FO

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EC01574

Org. Issue-8/15/69

MONSANTO COMPANY

VACUUM TRUCK SERVICE RECORD

SD-005
~~D-0308~~

Date: _____

Dispatcher Name _____

Requesting Supervisor _____

Time Truck Requested _____
Time Truck Arrived _____
Time Truck Needed _____

Clean Truck Required
☐ Yes ☐ No

If NO, truck last carried
_____

Helper Required
☐ Yes
☐ No

Time Truck Released _____

Personnel Safety Equipment Required for this job:

☐ Hard Hat	☐ Safety Glasses	☐ Goggles
☐ Face Shield	☐ Slicker Suit Top	☐ Rubber Boots
☐ Chemical Gloves	☐ Slicker Suit – 2 Piece	☐ Other

NOTE: Goggles, chemical gloves and hard hat are minimum safety requirements when unloading and washing out any vacuum truck.

Name of Material _____

_____

Material on "Approved" List No. _____

Originating Vessel Name and Number _____

_____

Disposition of Material _____

_____

Vacuum truck tank to have ☐ air, ☐ nitrogen in it while being loaded.

Vacuum truck tank to be emptied with ☐ air, ☐ nitrogen.

Name of Truck Driver _____

Name of Person Releasing Truck _____

Comments _____

_____

The personnel safety equipment checked above is available and is to be used by the driver and helper while loading, unloading and washing out, and the truck is equipped with fire extinguisher, relief valve and grounding cable.

Signed (Vacuum Truck Driver): _____

The personnel safety equipment checked above is adequate for the job at hand.

Signed (Using Unit Representative): _____ 6113 17023

Changed

THE UNIT USING A VACUUM TRUCK WILL PROVIDE JOB SUPERVISION REQUIRED.

MCB-279 (REV. 10/74) R/4 2-6-76

T004525

Attachment #3
Page 1 of 1

MONSANTO COMPANY

VACUUM TRUCK SERVICE RECORD

Date: _____

Dispatcher Name _____

Requesting Supervisor _____

Time Truck Requested _____
Time Truck Arrived _____
Time Truck Needed _____

Time Truck Released _____

Clean Truck Required
☐ Yes ☐ No

If NO, truck last carried
_____

Helper Required
☐ Yes
☐ No

Personnel Safety Equipment Required for this job:

☐ Hard Hat	☐ Safety Glasses	☐ Goggles
☐ Face Shield	☐ Slicker Suit Top	☐ Rubber Boots
☐ Chemical Gloves	☐ Slicker Suit – 2 Piece	☐ Other

NOTE: Goggles, chemical gloves and hard hat are minimum safety requirements when unloading and washing out any vacuum truck.

Name of Material _____

_____

Material on "Approved" List No. _____

Originating Vessel Name and Number _____

_____

Disposition of Material _____

_____

Vacuum truck tank to have ☐ air, ☐ nitrogen in it while being loaded.

Vacuum truck tank to be emptied with ☐ air, ☐ nitrogen.

Name of Truck Driver _____

Name of Person Releasing Truck _____

Comments _____

_____

The personnel safety equipment checked above is available and is to be used by the driver and helper while loading, unloading and washing out, and the truck is equipped with fire extinguisher, relief valve and grounding cable.

Signed (Vacuum Truck Driver): _____

The personnel safety equipment checked above is adequate for the job at hand.

Signed (Using Unit Representative): _____

THE UNIT USING A VACUUM TRUCK WILL PROVIDE JOB SUPERVISION REQUIRED.

PLANT-WIDE USE OF WATER ON CHEMICAL SPILLS

PURPOSE:

The purpose of this procedure is to acquaint all Maintenance personnel with the safety of using water on chemical spills.

SCOPE:

This procedure covers the use of water on all chemicals within the plant.

RESPONSIBILITY:

In the event of a chemical spill, the primary function of the Maintenance personnel is to notify production personnel immediately. Assistance may be requested of Maintenance personnel from production to regain control of the situation.

It is the responsibility of the Maintenance foreman to insure that all technicians receive this information. As new chemicals are brought into the plant, information must be gathered on the use of water. This can be obtained from the Safety Department.

PROCEDURE:

1. Water can be safely applied on all chemical spills in the plant.

2. In any emergency, except for equipment operating at extreme high temperatures, such as HDA in Hydrocarbons, there would be no problems. In some cases, water will upset operating conditions, but this is to be expected in emergency cases.

3. Fog streams, in most cases, is the most effective application of water to hydrocarbon spills. Large quantities of air are pulled in with the fog spray, causing the vapor to become too lean to burn. Also, many chemicals are soluble in water. The more

PLANT-WIDE USE OF WATER ON CHEMICAL SPILLS

PROCEDURE (Continued)

water applied, the faster the hazard of fire or explosion is reduced. Spilled material should be flushed to sewer as soon as possible.

4. Spills of low temperature material will vaporize much faster when large amounts of water fog is applied, due to the difference in temperature of the chemicals and the water. The vapors will also be dispersed faster so there will no longer be a flammable mixture.

5. Caution must be exercised when applying water to material of a heavy, viscous nature and above 212°F, such as tar, due to splashing. It is extremely important that the water be applied in a fog and be done intermittenly.

6. Water is very effective when used in a fog pattern to provide a water curtain between large LPG spill and a source of ignition, such as furnaces, etc.

7. All personnel should be informed that, in the event of a chemical spill, water is very important and should be applied as soon as possible, and the fire alarm turned in. There are times when turning in of the fire alarm for a spill is more important than for a fire. When chemicals are spilled, there is a danger of flash fire and/or explosion if the spill is not cleaned up immediately.

8. A good rule to follow on flushing acid lines is never use water to flush the lines and equipment until all acid has been removed or drained by other means.

9. Water, because of its mineral content, is an electrical conductor. Applying water to electrical equipment is, therefore, very hazardous. DO NOT use water on any electrical equipment.

ORGANIZATION & PROCEDURE MANUAL

SP-~~077~~
~~D-0911~~

MONSANTO COMPANY — CHOCOLATE BAYOU PLANT

REMOVAL OF EQUIPMENT FROM OPERATING UNITS FOR REPAIR

Type

PURPOSE

change

To describe the requirements for removing equipment from operating units for repair. Equipment removed from the area for Maintenance will be cleaned and tagged by operating personnel. Tagging is required on all equipment leaving the area in which it is installed regardless of service.

PROCEDURE

change

1. Operating personnel will decontaminate equipment prior to repair or servicing. The Fire-Entry Permit Procedure will be followed where applicable.

   Methods of cleaning and decontaminating will vary and will be determined by Operations.

2. Prior to removing equipment from an operating area, the equipment will b tagged by Operations. The tag will include the following information. See Exhibit A.

   a. Equipment Identification
   b. Date Cleaned
   c. How Cleaned
   d. Comments
   e. Signature of Foreman
   f. Chemical Service

   "Comments" should include statements and suggestions for safe handling during the repair.

3. Maintenance will not accept equipment for removal from an operating area unless it is tagged.

4. Office Services will stock and issue the appropriate tags.

AUTHOR W. W. Varnado
W. W. Varnado

APPROVED W. F. Zimmerman
Plant Manager

put new D Pawlowski WHC

6113
17027

DC01579

DECONTAMINATION OF EQUIPMENT REMOVED FROM OPERATING UNITS FOR REPAIR

ATTACHMENT #1

CAUTION!!

READ THIS TAG !!!

THIS EQUIPMENT WAS USED IN

_____ SERVICE.

MCB 641

CLEANING RECORD

Equipment Ident. _____

Date Cleaned _____

How Cleaned _____

Comments _____

_____

Signature _____

MCB 641

6113
17028

E001580

DECONTAMINATION OF EQUIPMENT REMOVED
FROM OPERATING UNITS FOR REPAIR

ATTACHMENT #1

CAUTION!!

READ THIS TAG !!!

THIS EQUIPMENT WAS USED IN

_____ SERVICE.

MCR 641

CLEANING RECORD

Equipment Ident. _____

Date Cleaned _____

How Cleaned _____

Comments _____

_____

Signature _____

MCR 641

6113
17029

BC01581