

CAUSTIC I

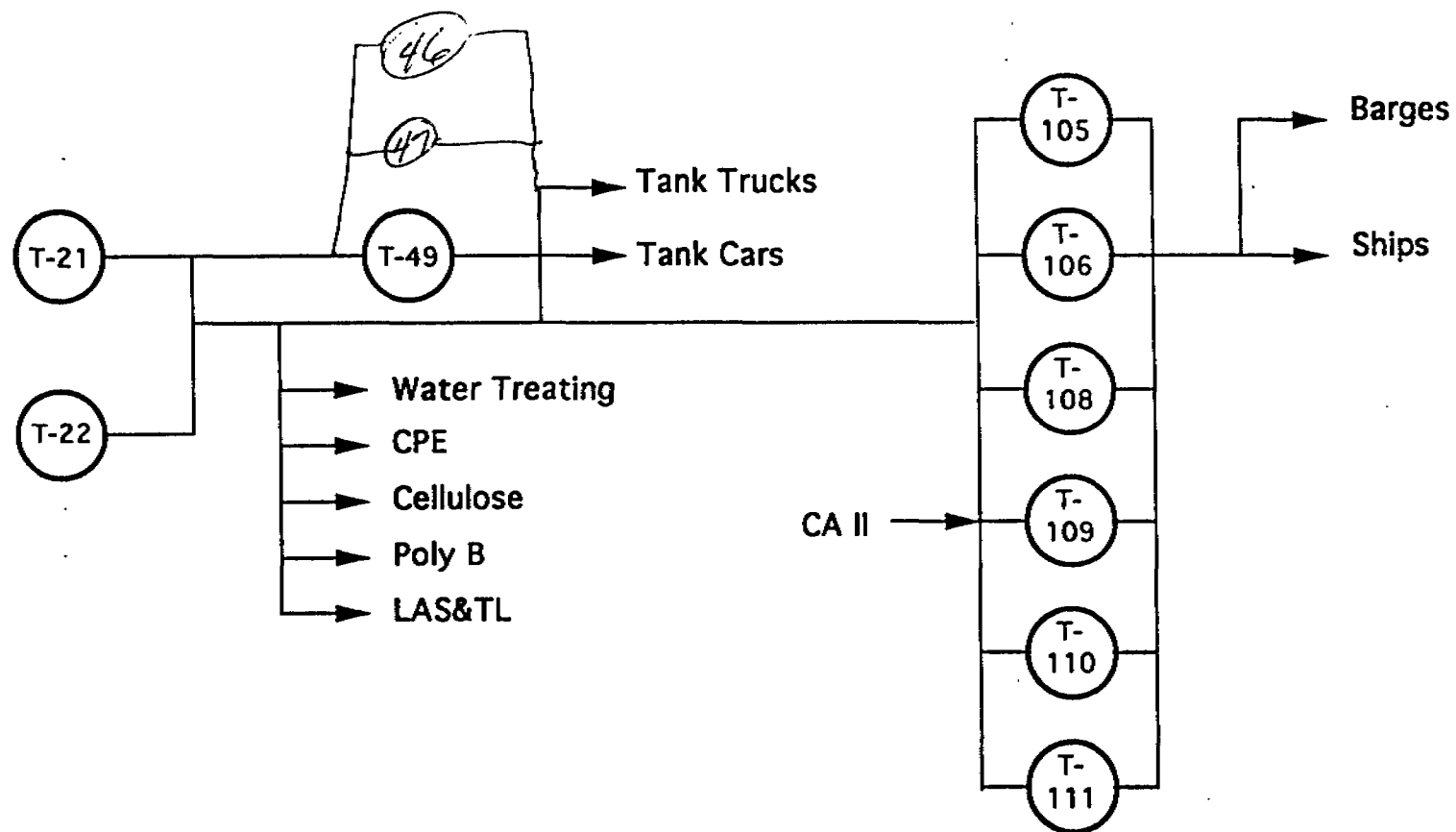
1994

REACTIVE CHEMICALS REVIEW

LOADING & DISTRIBUTION

DO A 046138
CONFIDENTIAL

CAUSTIC DISTRIBUTION 50% REGULAR GRADE CAUSTIC



CAUSTIC LOADING & DISTRIBUTION

POTENTIAL PROBLEMS

TANK TRUCKS

TANK TRUCK CONSTRUCTED OF ALUMINUM.

NON-CAUSTIC HEEL IN TANK TRUCKS FROM PREVIOUS LOAD.

Food grade status

COMPARTMENTED TANK TRUCKS CONTAINING CHEMICAL REACTIVE WITH CAUSTIC IN ADJACENT COMPARTMENT.

PREVENTIVE MEASURES

1 - T. E. D. sheet requires truck to be constructed of nickel clad, stainless steel, or lined carbon steel (MC-304, 307, 311, 312, 316).

2 - Listed on loading checklist.

1 - Tank trucks required to have completed cleaning sheet.

SA 2 - Visual inspection performed before loading each truck.

3 - Heel checked by chemical methods; litmus paper, mixed indicator, non-caustic heel verification tests. *for approved heels.*

4 - Written procedures for loading and checklist completed on each truck.

5 - Personnel training.

1 - Staff approval required before loading compartmented trucks.

2. Contact reactive chemicals committee member.

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CAUSTIC LOADING & DISTRIBUTION

POTENTIAL PROBLEMS

PREVENTIVE MEASURES

TANK CARS

NON-CAUSTIC HEEL IN TANK CAR
FROM PREVIOUS LOAD OR FROM
CUSTOMER CONTAMINATION.

*Cars are cleaned
before change to caustic
service.
food grade status*

- 1 - Dedicated fleet of tank cars.
- 2 - Dow-owned tank cars not stenciled "CAUSTIC" only loaded after cleaning.
- 3 - Visual inspection before loading each car.
- 4 - Heel checked by lab. ~~Procedures~~ if necessary.
- 5 - Written procedures for loading and checklist completed on each car.
- 6 - Personnel training.
- 7 - Follow-up with customers in cases of car contamination. Cars cleaned before reloading.

BARGES

NON-CAUSTIC HEEL IN BARGE FROM
PREVIOUS LOAD.

- 1 - Dedicated fleet of barges.
- 2 - Visual inspection before loading.
- 3 - Heel checked by lab. Procedures. *if needed.*
- 4 - Written procedures for loading.
- 5 - Personnel training.

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CAUSTIC LOADING & DISTRIBUTION

POTENTIAL PROBLEMS

PREVENTIVE MEASURES

SHIPS

NON-CAUSTIC HEEL IN SHIP.

- 1 - Ships required to be cleaned before loading.
- 2 - Last cargo information supplied to LAD ship coordinator and caustic plant loading coordinator.
- 3 - Visual inspection before loading each ship.
- 4 - Written procedures for loading.
- 5 - Personnel training.

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0. NO CLEANING REQUIRED
3. HOT WATER WASH.

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5. CANNOT LOAD DIRECTLY BEHIND
6. CALL QAC (NORM. NOT LOADED AFTER)