

REACTIVE CHEMICALS SELF EVALUATION

DO A 017505
CONFIDENTIAL

SUBJECT: Scenarios

SUMMARY: Train III MODV programming automatically handles many possible scenarios. Trains 1 & 2 and TDC and Modicon based and require operator response.

IMPROVEMENTS: Management of Change.

STRENGTHS: All out of range conditions are alarmed. MOC "major" required to modify those related to critical instruments. Other changes require lower level MOC.

OPPORTUNITIES: Automation of Train 1 & 2 emergency response.

10/08/92
CONSOLIDATED_AUDIT.SUMMARIES

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REACTIVE CHEMICALS SELF EVALUATION

SUBJECT: Scrubbers (Not Applicable)

SUMMARY:

IMPROVEMENTS:

STRENGTHS:

OPPORTUNITIES:

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DO A 017506
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REACTIVE CHEMICALS SELF EVALUATION

SUBJECT: Waste Water Stripper (Not Applicable)

SUMMARY:

IMPROVEMENTS:

STRENGTHS:

OPPORTUNITIES:

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REACTIVE CHEMICALS SELF EVALUATION

SUBJECT: Catalysts

SUMMARY: Catalysts for the Solution Process are deactivated by excess temperature and exposure to calcium stearate and water.

IMPROVEMENTS: Management of Change.

STRENGTHS: Excess or runaway temperatures would "kill" the catalyst. All catalyst production is fully MODV controlled.

OPPORTUNITIES: Removal of "catalyst kill" from the recycle solvent loop to dramatically improve efficiency.

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REACTIVE CHEMICALS SELF EVALUATION

SUBJECT: Inhibitors (Not Applicable)

SUMMARY:

IMPROVEMENTS:

STRENGTHS:

OPPORTUNITIES:

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DO A 017509
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REACTIVE CHEMICALS SELF EVALUATION

SUBJECT: Lab Chemical Storage

SUMMARY: Lab chemicals are stored outside in "flammable" cabinets. Block inventory of lab chemicals is managed by block Sr. Quality Assurance Specialist.

IMPROVEMENTS: Management of Change.

STRENGTHS: No lab chemicals are stored in large enough quantities to require drum storage.

OPPORTUNITIES: Consider the need for a plant policy on lab chemical ownership, auditing and receiving. Consider the need for a Reactive Chemicals Chart for Lab Chemicals.

10/08/92
CONSOLIDATED_AUDIT.SUMMARIES

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REACTIVE CHEMICALS SELF EVALUATION

SUBJECT: Hazardous Material Handling

SUMMARY: Operations personnel are well trained in spill containment and waste handling. Oxygen in the Solution Polyethylene process is quality concern, not a hazard.

IMPROVEMENTS: Management of Change.

STRENGTHS: All catalyst production is fully MODV controlled.

OPPORTUNITIES:

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REACTIVE CHEMICALS SELF EVALUATION

DO A 017512
CONFIDENTIAL

SUBJECT: Waste Handling

SUMMARY: The Solution Polyethylene process solvent balance is ~7 mm1b/yr positive. This excess solvent has to be loaded, shipped and burned at Environmental Operations. The only absorbent material utilized is 3M's Oil Sorbent polypropylene (100%) cloths.

IMPROVEMENTS: Management of Change. Ongoing capital project to recycle and reuse ~50% of the excess.

STRENGTHS: Written procedures employed.

OPPORTUNITIES: Further investigate the reactive chemicals potential of the portable waste trailer that is routinely used for waste containment within Poly C.

10/08/92
CONSOLIDATED_AUDIT.SUMMARIES

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REACTIVE CHEMICALS SELF EVALUATION

DO A 017513
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SUBJECT: Heels in Tank Cars, Tank Trailers, Barges,
Process Lines and Storage Vessels

SUMMARY: Dedicated transport vessels are used to transport
excess wet solvent inside the LAD. Written
procedure, SOL/OCT-P2, dictates inspection
requirements.

IMPROVEMENTS: Management of Change.

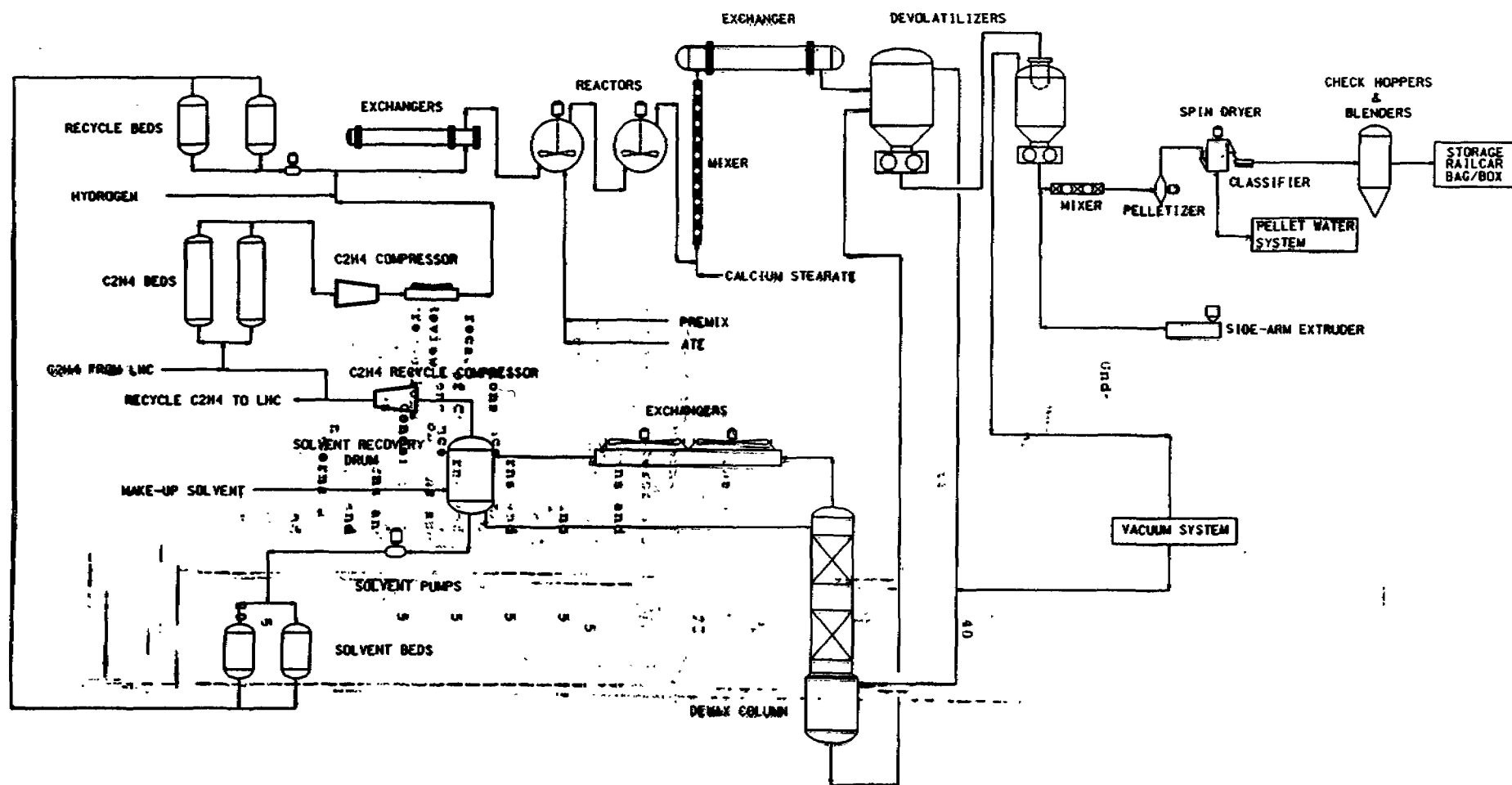
STRENGTHS: Written procedure dictates inspection requirements
for clean vessels.

OPPORTUNITIES:

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POLY C PROCESS OVERVIEW



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REACTIVE CHEMICALS SELF EVALUATION

DO A 017515
CONFIDENTIAL

SUBJECT: Exchangers

SUMMARY: All exchanger media is compatible with the process from a reactivity concern.

IMPROVEMENTS: Management of Change.

STRENGTHS: Catalyst components are deactivated by high temperatures.

OPPORTUNITIES:

10/08/92
CONSOLIDATED_AUDIT.SUMMARIES

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