

HAZARD	P*	COMPLETION DATES		COMMENTS
		TARGET	ACTUAL	
1. Several station ground wires are either broken or damaged east of P-1.	2			
2. Doors to tank farm MCC found open.	1			
3. Tank farm MCC is located next to the caustic unloading area and should be better protected on the northwest corner from damage when trucks are positioning to unload.	2			
4. Garden hose north of Tank 182.	2			
5. Large accumulation of plasticizer and resin inside the diced area of the tank farm. Several pump packings were noted leaking.	1			
6. The ground wire for loading of plasticizer does not appear to have been used recently. The ground on this station should be made up to attach to the top of trailers when the fill tube is brought out into position.	2			
7. E-54 line should be insulated.	2			
8. Labeling of lines to alcohol and plasticizer side of the tank farm is insufficient. Possibly Brady type signs may be helpful to improve labeling.	2			
9. Phthalic Anhydride - jacketed unloading line steam jumpers are not insulated and are a burn hazard (the use of asbestos sleeves should be avoided).	2			

* Priority

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10. Standing water locations:	1/2			
a. Safety shower/eye wash - alcohol unloading pump. b. Steam tracer leak in pipe rack north of the plasticizer/alcohol tank farm. c. Bleed method of freeze prevention around outdoor safety showers is a winter slipping hazard. d. Condensate trap drains to P.A. charge line west of storage tanks.				
11. Pallet storage around the P.A. unloading platform should be limited to allow for clear access to the safety shower from all system openings. Ten feet clearance should be maintained at all times.	2			
12. Inert gas supply should be controlled from the platform rather than at the top of a P.A. tank car as it is currently. This will allow for pressure bleed-off to be done away from the hazard.	1			W.O. turned in.
13. P.A. spur is no longer being used as designed. The unloading line elevations should therefore be raised to accomodate the taller pullman cars when the loading hatches are open during switching.	3			
14. Safety showers in the alcohol tank farm, P.A. Unloading, caustic unloading and P-1 areas should be converted to potable water from process water and flows increased as specified in the Safety Shower Waterflow Survey recommendations.	3			
15. Steam leak in tracing for the caustic unloading line just north of the diked area in the plasticizer tank farm.	2			

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16. Steam tracing trap northwest of glycol heater currently discharges 6 feet above grade. Pipe same to 6 inches above grade.	2			
17. Provide hose racks for storage of hose in the alcohol/plasticizer tank farm.	H			
18. Coupling guards on tanks 182, 184, and 185 do not adequately cover coupling keys and bolts.	3			
19. Plasticizer tank steam jacket traps should discharge vertically to grade in an area other than a walkway.	2			
20. Drain to API Separator on east side of tank 183 should be protected with grating to eliminate a tripping hazard (12-15 inch elevation change).	1			
21. Missing tank grounds on cuastic tank, 109 thru 112 tanks.	3			
22. Inert generator has a questionable earth ground (I could not find it).	2			
23. The prestart-up safety review of the inert generator called for insulation on the compressor discharge line for personnel protection. This has not been done as yet.	2			
24. Secure coupling guard on the plasticizer product pump at the southeast door to P-1 building.	2			
25. R-4 coil condensate line has corroded above the sewer and blows hot condensate to atmosphere above sewer pit near walkway.	1			

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26. Caustic wash tank exhaust fan should be checked for loose belts or mechanical problems. During audit, fumes were noted in this area.	3			
27. Install additional hangers on condensate discharge lines from each of the reactors in P-1 building. The lines are inadequately supported.	3			
28. Insulation on R-3 & R-4 is damaged and appears to be asbestos type insulation. Repair same to prevent release of fibers into work area.	2	Early		
29. Steam leak in gate valve on north side of reactor charge floor near north door.	2			
30. Steam leak through relief valve south of reactor/warehouse fire door on reactor side of first level.	3			
31. Steam leak in steam feeder to R-4 coils east of stairway.	2			
32. 2" X 10" temporary working surface above R-3 should be removed.	3			
33. PTSA drums are being heated by steam bands below safety shower on the south end of the reactor charge floor. This area must be kept clear at all times - relocate heating area.	1			EDIC, Do now. Danger Sign.
34. Numerous lines on the second level around the plasticizer reactors have damaged insulation which may contain asbestos and should be repaired or replaced to minimize the release of asbestos filers into the work area.	2			
35. The coupling on the north nitrogen blower was being aligned during the audit and was not locked out or tagged out by the mechanics assigned to the job.	1			Permit should catch this.

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36. Handrails on P-1 roof are not permanently attached and cannot prevent a fall from the roof.	1			Replace bolts now.
37. Plasticizer reactor vent stack covers are not being replaced when they are damaged.	2			EDIC, Job Safety Analysis. Will cover this item.
38. Examination of the face shield used to charge PTSA to the reactors suggests that operators are not using them as specified. (Repeat)	2			
39. Line I south walkway is not being maintained clear of material. The limit lines in this area should be repainted.	2			
40. Plasticizer transfer line near southeast door is leaking causing an oil slick on the floor in a walkway.	2			Paint spots yellow, safety meeting item.
41. Totes in service to Line I leak stabilizer into the walkway causing a slipping hazard. Totes should be placed inside the diked area or a new diked area created to minimize this problem.	2			
42. Numerous points on the blender chain conveyor are potential nip/pinch points and should be guarded.	2			
43. Coupling guard on Line I west blender was not in place.	2			EDIC. safety meeting item.
44. Oil slick on floor north of Line I mill.	2			
45. Line I dicer rotex screener star valve drives are missing back guards.	H			
46. Auto bagger junction box downstream of scale is missing a cover.	2			
47. Oil dry drum near Line III mill is being used as a trash container.	2			

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AREA: COMPOUND (Cont.)

1979 PLANT SAFETY AUDIT

PAGE: 6

VAB.0001074454

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48. Several oil dry drums were found in the line III/dry blend area with oil dry lower than the red mark inside the container.	2			Safety meeting item.
49. Aluminum ladder found in dry blend MCC (VD-338). Aluminum is a conductor and should not be stored or used in MCC's (Alton Reeves was notified).	2			Safety meeting item.
50. Monorails above Welex's are not load rated.	3/H			
51. Open wire raceway in Line III MCC above mill lube pump.	3			
52. <u>General Comment</u> - many breaker panels are inadequately labeled in the Line I, Line III and dry blend MCC's.	2			
53. Two temporary services (electrical) should be replaced in the Line III MCC. One of these goes into permanent conduit and the other to the FCM barrel lube pump.	2			Corrected?
54. The base of the hydrotherm unit needs to be drained to eliminate standing water.	3			
55. Hydrotherm sump pump vents excessive amounts of hot condensate and steam which may cause a thermal burn.	1			Does pump work?
56. Grating over diagonal trench west of the water stripping vacuum pumps does not seat properly in the trench and is a tripping hazard.	3			
57. Ladder to the Line III Sweco platform needs a safety gate.	2			

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58. Line III control panel at mill has open electrical controls where the old mill temperature recorder/controller was located.	1			Status?
59. Guard on the east mill takeoff conveyor needs to be re-paired where the drive chain has rubbed through and secured to the conveyor frame.	2			
60. FCM Johnson Joint feeder hoses need to be insulated.	1/2			Cover in safety meeting.
61. Steam leak on west end of south side of Line III mill.	2			
62. Rubber mats between Line III cooling troughs are worn out and are a tripping hazard - replace.	H			Mats are currently on order.
63. Area between the FCM and the hot oil pump/reservoir is constantly wet with oil. Fix leaks or provide for rough concrete to prevent slipping hazard.	2			Extend trench to reservoir.
64. Repair steam leak at coupling on inlet end of FCM.	2			
65. Stud bolt southwest of hold tank on feeder deck grating is a tripping hazard and should be cut off.	2			
66. Several hot water leaks in piping related to the hydrotherm tank.	1			Fixed.
67. Several hoses (vacuum, H2O) improperly stored on floor of Line III feeder deck.	H			
68. Stabilizer oil spill on floor around pumps in small warehouse area - line III/dry blend.	3			Pump packing leaks. Need better pump/packing.
69. Pump anchor bolts east of silo door - small warehouse should be removed - tripping hazard.	1			Fixed?

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70. No horn on the compound Hyster 25 - replace seat.	3			Service - routine.
71. Relocate stretcher cabinet in dry blend MCC to north wall near fire extinguisher in the control room.	1			Completed.
72. Repair steam leak at north end of A & B blenders - Line III.	3			
73. Eastern most line at the Dry Blender master batch transfer station has a missing bolt in the victalic coupling overhead.	1			Completed.
74. Line III and master batch platforms are consistently being left with the handrails down leaving an open sided platform.	2			EDIC - Safety meeting item.
75. Open conduit in are of dry blend transfer station south of welexs.	3			
76. Resin and compound transfer hoses (yellow jacketed) are hazardous to handle due to sharp edges on the compression bands and short sections of the reinforcing wire sticking out.	3			Safety meeting item.
77. Dry blend scale tank vibrators are loose. Could this be an application for electric vibrators similar to #6 dryer Bird chute?	3			
78. Several cleaning tools and hoses were noted being improperly stored on floor near dry blend use bins.	3			
79. Ladder gate to S.W. use bin platform is hung in the open position.	3			
80. Plasticizer spill below hold tanks.	1			

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81. Install handrails on roof around transfer blowers (NOTE: during winter, this area is known to have standing water which will become ice and could cause a serious fall).	1			
82. Obsolete wiring in area of roof transfer blowers should be removed.	3			
83. Walkboards on roofs should be provided to the resin bagging tanks and to the Line III resin tank.	3			
84. Four foot wooden ladder - damaged and condemned.	3			Find & dispose.
85. Remove obsolete Line III mill exhaust base from roof.	3			Done.
86. Turn heated plasticizer charge tank jacket relief valve discharge line toward grade. Currently water from this line reaches the lift truck dock and will be an icing hazard this winter. Does it need tracing/insul.?	1			
87. Properly store the portable storage racks currently west outside of the Line III warehouse raw material storage area.	1			Housekeeping, completed.
88. Open electrical junction box outside above Line I dock roof in pipe rack area.	3			
89. The 5 inch resin transfer line from 281 - 2 silos has a dog leg built in at the walkway crossover going to the silo deck which is inadequately supported and may blow apart.	3			Reroute line to avoid ranning across the roof.
90. Remove large obsolete wiring on north end of silo deck west of old transformer bank.	3			
91. The silo deck (410-415) was found generally disorderly with many items (hoses, tools, etc.) left on the deck.	2			Safety meeting item.

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92. Conduit feeding electrical controls to 410 silo knife gate valve is separated exposing wiring.	1			
93. Loading chute on 419 silo is inadequately supported.	3			Fixed
94. Portable star valve drive motor leads and feeder conduit are hanging loose at peckerhead (condemned and repaired).	1			
95. Yard operators have reportedly received shocks when operating knife gate valves during wet weather. Check enclosure weather seals and conductor supports. If that shows no conclusive findings, investigate weather proof switch enclosures that are non-conductive.	2	Early		Strain relief like Chinese handcuff.
96. Hole in silo decking west of 412 silo.	1			Will write W.O. ASAP.
97. Back guards are missing on 3 transfer blower drive systems on the west side of 410 thru 415 silos.	3			
98. 410 thru 415 silo bottom deck was found with hoses, fittings and other items left in a disorderly manner.				Same as Item 91.
99. Carbon steel support rings on 410 thru 415 silo are rusty and need to be painted.	3			
100. Walkway above T-100 & 1000 was noted as having rods, gloves, and other misc. items left where they were last used. Provide storage area for these items.	3			
101. Plate pressure vent on top of 414 silo has broken loose from one point of attachment and the other side is quite worn. Repair hinge points.	3			
102. Conduit crossing the walkway between 413 and 414 silo is a tripping hazard and should be relocated out of the walkway.	3			

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