

VCM CONTROL PROGRAM
LOUISVILLE PLANT
ENGINEERING PROJECTS

Project	Audit Action Item	Purpose	Prior-ity	Target Compl.	Person Reporting	Person Assigned	Status	GPO, EA, DJ, MWO NUMBER
1.	Convert to GC's for area monitoring.	Fewer alarms from non-VCM hydrocarbons.	1	Comp. 1/11/76	Geisen Fultz	Fultz Deich Fannin	B-1, 111, 121 in use 3-19-76. EA for extra points approved, order placed.	EA 353029
2.	Multiplex sample system, B-121. Include B-1 & B-111.	Improve detection of high levels.	2	TBD <i>1/11/76 Geisen</i>	Geisen	Fannin Deich	B-121 in use. E.R. submitted for B-1 and B-111.	GPO 18364. MWO 101723.
3.	Shield minicomputer.	Preserve memory from stray fields.	G-5	Comp. <i>1/11/76</i>	McWhorter	Gibbs		MWO 069950
4.	Provide continuous monitors for tall stacks.	Quantify emission, progress indicator.	2	TBD	Fannin Geisen	Deich Pringle Fultz	New flow charts installed. E-16 Engr. Request submitted to install GC.	
5.	Install area monitor for tank farm.	Alarm upset conditions.	1	6-1-76 <i>Electrical completed</i>	Geisen	Deich	EA approved. Building on order, 4 week delivery.	M-27 EA 361057.
5.	Evacuate VCM unloading hose.	Reduce emissions.	1	6-1-76 <i>Approved</i>	Geisen	Distler	EA submitted to Cleveland.	M-32
7.	Double seals, VCM tank farm pumps.	Reduce emissions & EPA.	2	6-15-76 <i>Continuing</i>	Geisen	Distler	Double seals on two Worthingtons now. Sundyne pump motor out for rewind.	M-26 EA 361037
3.	Modernize VCM tank farm.	Reduce potential for upset.	2	8-1-76 <i>Write up estimate</i>	Geisen	Chevalier	Engineering in progress. No change.	M-33
3.	Supply clean air to B-111 & B-121 control rooms.	Safe-Haven	1	6-1-76 <i>Done</i>	Geisen	Wilkins	EA approved 3-9-76. Shop fab. work started.	EA 361038

VCN CONTROL PROGRAM - Page 2
ENGINEERING PROJECTS

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10.	Remove low spots in duct to stacks.	V-2 Eliminate condensate trap.	1	Comp.	Geisen	Wilkins	Drain line to sump installed.	EA 361042
11.	Connect vents to stack, recovery, jets & ducts, sumps.	PVC-8 Reduce reflux & crossover. V-4 V-3	1	Comp.	Geisen	Wilkins	Includes 4 jets, B-1, 2 jets, B-121, 2 jets, B-111, B-115 recovery vent.	EA 361044 EA 361042
12.	Add second floor safe-havens.	V-10 Safe-Havens	1	6-1-76 On-going	Geisen	Wilkins	Concrete block up in B-1 & B-115. B-111 released for construction. B-121 control room design complete.	P-75 EA 361046
13.	Shroud-spot ventilation at pump seals.	V-9 Reduce exposures.	1	Comp.	Geisen	Wilkins	Blower installed in B-1. B-121 completed on 4-21-76.	EA 361042
14.	Install breathing air system.	Reduce exposures.	1	Comp.	Geisen	Lawrence	Plant 2 tied in 2-16-76.	EA 747023 EA 741234
15.	Extend breathing air to B-127.	Provide breathing air to area.	1	Comp.	Geisen	Lawrence	Complete.	GPO 18373
16.	Adjust breathing air pressure & humidity.	Employee comfort.	1	Comp.	Geisen	Lawrence	16 psi pressure adjusted in all areas. Bubbler in B-121 tested & worked. No additional bubblers planned.	EA 747023
17.	Add breathing air stations.	G-9 Efficient operation.	1	TBD	Barrett	Hudson Fultz	MWO issued for 5 stations in B-1. Plant 1 complete. No change.	8016 Complete
18.	Revise tank farm breathing air.	TF-5 Reduce exposure.		Comp.	Grahek		Using factory air. Egress pack available.	
19.	Relieve HRC units to poly evacuation system.	Reduce exposure.	1	TBD	Fultz	Fultz	Will equip one unit for evaluation on MWO. Relief valve ordered. B-121 test unit ready to try without valve. No change.	P-66

ICM CONTROL PROGRAM - Page 3 ENGINEERING PROJECTS

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10.	Drain recovery knock-out tank to accumulator, B-121.	Stop reflux of VCM into building.	2	6-1-76	Geisen	Parris	EA approved. To be incorporated by Bjorn in Stripping EA. No change.	EA 361033
11.	Supply heat to B-121 accumulator.	Strip VCM from effluent.	1	7-15-76	Geisen	Mitchell	EA submitted.	P-65.
12.	Pressure transmitters, paste polys.	Eliminate direct piping into control room.	3	8-1-76	Geisen	Parris	EA rejected by Cleveland.	P-59
13.	High pressure alarms, westside polys, B-111.	Prevent vented charges.	1	hold & resubmit	Geisen	Parris	EA rejected, Link to review. No change.	P-58
14.	Larger relief valves & redball indicators for B-121 polys.	Prevent leaks into room. Detect potential leaks, protect relief valves.	3	9-1-76	Geisen	Wilkins	EA submitted.	P-57
15.	Install pressure activated lock for poly head.	Eliminate chance of opening and releasing VCM.	3	9-1-76	Geisen	Mitchell	Evaluated one unit, prospects poor. New device is promising. Will make one poly installation. No change.	P-22
6.	Add cut-off valves, B-1, redball lines.	Avoid venting VCM.	2	7BD	Barrett	Hudson	MWO issued. P.O. Issued for valves. No change.	Comp. by
7.	Add exhaust blower, B-1 polys.	Reduce capacity, reduce exposure.	4		Geisen	Lawrence	Problem corrected.	P-64
8.	Replace 3 EDC pumps, B-115.	Reduce emissions.	3	8-1-76	Geisen	Lawrence	HOLD. Due To EPA STANDARDS	P-40
9.	Double seals for Nash recovery pumps.	Reduce emissions & exposure, EPA.			Geisen	N.A.	HOLD. Seal	P-61

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30. Provide gas escape alarm separate from fire alarm.
Distinguish gas escape from other emergencies.
3 12-1-76 Geisen Deich EA approved. Major Items EA 361077
On Order

31. Connect B-111 east jets to stack.
Reduce cross-contamination to other areas.
Pringle Proposed at 4-7-76 meeting.
Nosa 1 to Pringle has originated an
Forward Engineering Request.

32. Take suction of B-112 dryers from within the building to boost ventilation.
Reduce levels.
Pringle MWO submitted. Set
Priority

33. Relocate HRC & accumulator water discharge SW corner B-125 to one of the B-121 ventilated sumps.
Reduce exposure potential for B-125.
Proposed. Accumulator job started.

34. Provide area monitoring for regulated section of B-127.
Comply with OSHA regulation.
Proposed 4-21-76. Alternate of continuous mask use considered. Still need 100 ppm alarm as Scott Pak is required.

3 PF THY
ER. TO BE
submitted
Pringle LDP. Request
Nasa - Approved