WORK PLAN

OF

MANUFACTURING

IMPROVEMENT

PLAN

FOR

AROCLORS

DEPARTMENT 246/259

APPROVED:

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DATE APPROVED:

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MONS 035044

DETAIL TASK LIST

Description	Estimated Man Days	Cap./Exp.	Justification	EDC	Responsibility
1. Conduct 1971 Safety Audit	20	0	Safety	10/1/71	Production/TSD/Safe'
2. Control Catalyst Mix Tank Temperature	10	0/2000	Safety	7/1/71	E&I, Maint. (Projec'
3. Complete Lean To Steel Modifications	0	0/3000	Safety	3/1/71	Maintenance
4. Upgrade 5th Level Steel	10	0/6000	Safety	9/1/71	Mech. Design, Maint
5. Resolve 1260 Quality Problem	10	0	Quality Imprvmt.	2/1/71	TSD
6. High Temperature Power Factor Program	50	TBD	Quality Imprvmt.	1/1/72	TSD, Proc. Tech.
7. Install Control Lab Clean Room	10	2500/2500	Quality Measure-ment	2/15/71	Mech. Design, Maint (Project)
8. Analyze Power Factor Data for Proposed Modifications	10	0	Quality Measure-ment	3/1/71	TSD
9. Study Possible Quality Degrading During Loading	20	TBD	Quality Imprvmt.	7/1/71	TSD
10. TCB and TTCB Quality Evaluation	15	TBD	Quality Imprvmt.	9/1/71	TSD
11. Install 70-30 Blend Storage Tank	20	0/$40,000	Inc. Blend Capacity	1/1/72	Mech. Design, Maint (Project)

MDNS 035045

Description	Estimated Man Days	Cap./Exp.	Justification	EDC	Responsibility
12. Improve Drum Handling Facility	20	0/7000	Labor Reduction	10/1/71	TSD/Mech. Design/Maint. (Project)
13. Start-Up Aroclor Incinerator	150 Incl. M.R.	430,000 / 100,000	Pollution	8/1/71	TSD/Maint. (Project)
14. Start-Up Aroclor Fractionator	200 Incl. M.R.	800,000 / 150,000	Pollution	10/1/71	Production/Maint./ TSD (Project)
15. Monitor Plant Sewers for PCB	50	0	Pollution	Cont.	Pollution Grp./TSD
16. Monitor Plant Air for PCB	15	0	Pollution	Cont.	Pollution Grp./TSD
17. Change Out Aroclor Therminol Units	25	10,000 / 10,000	Pollution	8/1/71	TSD/Maint. (Project)
18. Install Paving and Curbing Around Tank Farm and Loading Areas	5	40,000/0	Pollution	9/1/71	Mech. Design/Maint. (Project)
19. Install Paving and Curbing around Therminol Unit	10	5000/0	Pollution	7/1/71	Mech. Design/Maint. (Project)
20. Install Nitrogen Blanket on Mix Tanks and Reroute Chlorinator Relief Lines	20	0/6000	Pollution	4/1/71	TSD/Maint. (Project)
21. Initiate Drum Reclaiming or Disposal	20	0	Pollution	4/1/71	TSD/D&S
22. Install Aroclor Rework Project	5	35,000 / 3,000	Pollution	10/1/71	TSD/Maint.(Project)

Description	Estimated Man Days	Cap./Exp.	Justification	EDC	Responsibility
23. Issue Revised SMP's	5	O	Process Control	3/1/71	Production/TSD
24. Update and Issue Operating Instructions	10	O	Process Control	4/1/71	Production
25. Establish Key Variable Monitoring System	30	TBD	Process Control	2/1/71	TSD/Production/E&I
26. Develop Methods to Analyze Chlorine and Biphenyl	20	TBD	Process Control	1/1/72	AR&D/E&I
27. New Product Evaluations	60	TBD	New Earnings	As Needed	TSD/Production

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APPENDIX F. WORK PLAN ATTACHED TO ORIGINAL MIP DTD. MARCH, 1970

NO.	ITEM	EST. COST	EST. MAN-DAYS	RESPONSIBILITY	EDC	COMMENTS
1	Reduce Drumming Costs					
	A. Insulate #7 Storage Tank	$2500	0	TSD (Process)	1/1/70	CANCELLED
	B. Evaluate Improved Drumming	0	5	TSD (Process)	6/1/70	Report Drafted
2.	Increase Yields					
	A. Improve Blend Raw Material Yields	0	0	Production	1/1/70	Action Taken
	B. Chlorine Usage Study	0	10	TSD (Process)	1/1/71	In Progress
3.	Reduce Maintenance Costs					
	A. Determine Off-Gas Corrosion	0	10	TSD (Process)	9/1/70	MM&T Advice Needed
	B. Preventive Maintenance Lists	0	10	Prod/Maint.	3/1/70	In Progress
4.	Maintain Quality					
	A. Roofs on Loading Docks	8000	15	TSD (Mech. Design)	6/1/70	
	B. Resolve Electrical Property Measurement	0	0	TSD/Maint	1/1/71	Waiting for Lab Scrubber
	C. Preloading Quality Treatment	T.B.D.	20	TSD (Process)	*	Waiting for 4B
	D. Ag Grade KCl Test	0	10	TSD (Process)	3/1/70	Check effect on Aroclor
5.	Maintain Adequate Capacity					
	A. Replace Mix Tank Pumps	$5000	5	Maint.	6/1/70	Obsolete.
	B. Drowning Jet Evaluation	0	5	TSD (Process)	6/1/70	Check Capacity
	C. Improve Mix Tank Mixing	0	5	Production/ TSD (Process)	8/1/70	Minor Modification

* Dependent on ability to reproduce electrical property measurements - 4B.

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APPENDIX F.

NO.	ITEM	EST. COST	EST. MAN-DAYS	RESPONSIBILITY	EDC	COMMENTS
5.	Maintain Adequate Capacity (Cont'd)					
	D. Establish Minimum Drum Inventory	0	5	Production	3/1/70	
6.	Provide Safe Working Atmosphere					
	A. Fume Removal System Addition	$8000	10	TSD (Process)	7/1/70	Extension of System
	B. Lime Delivery Facility	1000	5	TSD (Mech. Design)	Hold	waiting for fork lift app.
	C. Safety Audit Items	T.B.D.	15	Production	11/1/70	Ref. Safety Audit
7.	Keep Aroclor from Sewers					
	A. Control Rupture Disc Discharge	5000	15	(TSD-Process)	6/1/70	Recycle to Surge Tank
	B. Install Sewer Basins	$11,000	15	TSD (Mech. Design)	7/1/70	Trap Aroclor
	C. Sewer Pollution Check	0		TSD (Pollution Control)	Cont.	Sampling to continue
	D. Reduce Blow Tank Losses	0	10	TSD (Process)	10/1/70	Aroclor to sewer
	E. Determine Amount of Aroclor in Off-Gas	0	5	TSD (Process)	4/1/70	At Depts. 217 & 218
	F. Catch Wastes from Drip Pans & Sample Lines	0	0	Production	3/1/70	
	G. Piping Modifications on Blow Tank	5400	20	TSD (Mech. Design	5/1/70	

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APPENDIX F. WORK PLAN - (Continued)

NO.	ITEM	EST. COST	EST. MAN-DAYS	RESPONSIBILITY	EDC	COMMENTS
8	Maintain Control of Process					
	A. Complete Process Variables Chart & Key Variable List	0	10	Production	4/1/70	In progress
	B. Revise Operating Instructions	0	10	Production	7/1/70	In progress
	C. Revise Std. Mfg. Process	0	10	Production	12/1/70	In progress
9	Maintain High Level of House-keeping and Improve Operations					
	A. Upgrade Control Room	$14,000	0	TSD(Mech.Design)	4/1/70	In progress
	B. Dismantle Obsolete Equipment	2,700	0	Maintenance	3/1/70	In progress
	C. Road & Sewer Improvements	30,000	20	TSD(Mech.Design)	On Hold	No work being done
	D. Pave Tank Farm	T.B.D.	10	" " "	On Hold	No work being done
	E. Replace Lean-to	$200,000	30	" " "	On Hold	No work being done

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