

STATE OF CONNECTIC C DEPARTMENT OF ENVIRONMENTAL PROTECTION



ATTACHMENT #1

STATE OF CONNECTICUT DEPT. OF ENVIRONMENTAL PROTECTION)
DEPT. OF ENVIRONMENTAL PROTECTION) STATE ORDER NO. 8013
vs.)
RAYMARK INDUSTRIES, INC. DIV. OF RAYMARK CORPORATION STRATFORD. CONNECTICUT	<pre>) Proposed Order-January 15,1987) Final Order- February 10, 1987)</pre>

WHEREAS, Raymark Industries, Inc., (hereinafter, the "Company") a Division of Raymark Corporation, a Connecticut Corporation doing business at 75 East Main Street, Stratford, Connecticut operates manufacturing equipment subject to the standards and limitations of the Administrative Regulations for the Abatement of Air Pollution (hereinafter, "Regulations"); and

WHEREAS, the Company operates resin and adhesive manufacturing reactor vessels, vacuum pumps, saturating tanks, curing ovens, an autoclave, an adhesive spray booth, VOC condensate burning boiler, air drying areas and storage tanks which cause "actual" emissions of Volatile Organic Compounds in excess of one hundred (100) tons per year; and

WHEREAS, Section 22a-174-20(ee) of the Regulations requires that any premise with "actual" emissions, as currently defined in the Connecticut Administrative Regulations for the Abatement of Air Pollution, of Volatile Organic Compounds in excess of one hundred (100) tons per year utilize Reasonably Available Control Technology (RACT) to limit the discharge of volatile organic compounds by December 31, 1985 unless an extension to implement Reasonably Available Control Technology is granted pursuant to Section 22a-174-20 (ee)(3) of the Regulations; and

WHEREAS, Reasonably Available Control Technology is defined as the lowest emission limitation that a facility is capable of meeting by the application of control technology that is reasonably available considering technological and economic feasibility when the determination of "potential" emissions is based upon, in part, maximum rated capacity and Federally enforceable operating conditions and requirements; and

WHEREAS, the Company submitted information on the facility-wide emissions of Volatile Organic Compounds on May 2, 1986 and Supplementary VOC Source Emission and Budgetary Cost Data on February 13, 1987 which, upon review by Department of Environmental Protection staff, has resulted in the RACT determination represented by this order; and

WHEREAS, the Company and this Department each acknowledges that final approval of the RACT proposal must be issued by the United States Environmental Protection Agency in that approval of RACT proposals required pursuant to Section 22a-174-20(ee) of the Regulations must be submitted as revisions to Connecticut's State Implementation Plan.

NOW, THEREFORE, by authority of Section 22a-178, et. seq., of the Connecicut General Statutes and Section 110(a) of the Clean Air Act, as amended, 42 U.S.C. Section 7410(a), the Commissioner of the Department of Environmental Protection hereby orders Raymark Industries to complete the following measures further delineated by the Compliance Timetable which is hereby incorporated by reference in this order. The applicable requirements are as follows:

- RACT for the VOC emissions generated by the transfer pumps has been determined by the Department to be a maximum quarterly allowable emission rate of .1179 tons of VOC. Restrictions on the hours of operation of the pumps to ensure compliance with the above enforceable emission limitation are described in the Compliance Timetable.
- RACT for the VOC emissions generated by the storage tanks and condensate storage tank has been determined by the Department to be a maximum quarterly allowable emission rate of .2118 tons of The Department shall enforce this limit through recordkeeping requirements as described in the Compliance Timetable.

Any storage tank greater than 10,000 gallons volume and containing a VOC with a vapor pressure of 1.5 pounds per square inch absolute at its maximum operating temperature shall have a conservation vent valve which is maintained in good operating condition and which is set to release at no less than 0.7 pounds per square inch gauge of pressure or 0.3 pounds per square inch gauge of vacuum or the highest possible pressure and vacuum in accordance with State and local fire codes or the National Fire Prevention Association guidelines or other national consensus standards acceptable to the Department.

- 3) The Company shall institute a system of monthly measurements on all packing glands and quarterly measurements on all mechanical seals using a hydrocarbon detection meter.
- 4) The Company shall measure the temperature in the radiant section of the Wickes Boiler to verify if the boiler is achieving the high destruction efficiencies determined to be occurring, according to the consultant, for destruction of the VOC condensate. RACT for the destruction of the VOC condensate produced by the manufacturing of resins has been determined by the Department to be incineration in the Wickes Boiler with a minimum destruction efficiency of 90 percent.
- 5) RACT for the Wet Friction Process which includes saturators 95, 96 and 101 with precuring ovens and batch cure ovens as specified in the Compliance Timetable has been determined by the Department to be incineration with a 90 percent overall efficiency.
- 6) RACT for Special Products Manufacturing has been determined by the Department to be a maximum monthly allowable emission rate of 2.166 tons of VOC. This will be verified through recordkeeping as described in the Compliance Timetable.
- 7) A recordkeeping system shall immediately be implemented to determine if VOC emissions from the adhesive spray booth and adhesive manufacturing process exceeds 8 pounds per hour or 40 pounds per day. If VOC emissions are less than the above-referenced limits, these processes will be exempted from implementing RACT if the Company commits to keeping VOC emissions below these levels. If the emissions exceed the above-referenced limits, RACT shall be implemented. RACT for the above processes has been determined to be an 80 percent reduction in VOC emissions.

- 8) The Company shall develop and maintain a daily recordkeeping system on all VOC's used in each process as per the compliance timetable.
- 9) Submission of all required reports and data by the dates specified by the Compliance Timetable.
- 10) The implementation of the RACT determinations represented by the order does not excuse the source from compliance with any future source-specific VOC emission limitations which may be adopted, nor does it excuse the Company from responsibility to comply with Section 22a-174-29 of the Regulations concerning Hazardous Air Pollutants or Section 22a-174-23 concerning Control of Odors.

It is acknowledged that failure to comply with the requirements of this Order as well as to comply with the terms and conditions set forth in the Compliance Timetable (which is hereby incorporated, by reference, in this Order) shall constitute a violation of the Regulations of the Department and shall subject the Company to further enforcement action in accordance with applicable laws and regulations which may include liability for civil assessments up to \$25,000 plus \$1,000 per day pursuant to Section 22a-6b (a)(3) of the Connecticut General Statutes and Section 22a-6b-603 of the Department's Regulations. Failure to submit a Progress Report by the date(s) set forth in the Compliance Timetable may subject the Company to liability for civil assessments pursuant to Section 22a-6b (a)(3) of the General Statutes and Section 22a-6b-601 of the Department's Regulations. Departmental action under this authority in no way prevents the Commissioner from seeking, in addition or separately, an injunction enforcing this State Order together with penalties of up to Five Thousand Dollars (\$5,000.00) per week in court proceedings under Section 22a-180 of the General Statutes.

Leslie Carothers

Commissioner

Dept. of Environmental Protection

Raymark Industries, Inc. Stratford, Connecticut

- 5 -

STATE ORDER NO. 8013 January 15, 1987

I

hereby consent to the terms and	esentative of Raymark Corporation, a conditions of this Order and do al this Order pursuant to Section ations this day of
	RAYMARK INDUSTRIES
ву:	
Title:	

LC

Enc.

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PAGE	_1_	OF	20	

TYPE OF SOURCE:	X MAJOR MINOR	PROCEDURAL	OTHER
PRIME CONTACT:	K. Scott Jetter	SOURCE NAME:	Raymark Industries, Inc.
TITLE OF CONTACT PERSON	Environmental Engineer		
		PREMISE NO.:	178-006 CLIENT NO.: 002139
SOURCE ADDRESS:	75 East Main Street	ORDER NO.:	8013 DATE ISSUED: 1/15/87
	Stratford, Connecticut	N.V. NO.:	10810 DATE ISSUED: 2/4/86
		EQUIPMENT TYPE:	Wicks Boiler, Vac. Pumps, Ovens
TELEPHONE NO.:	371-0101		Adhesive Mfg., Saturators &
VIOLATION SUBSECTION:	22a-174-20 (ee)	REG. NO.: S t O	rage tanks INSPECTOR AND NO.: D.N#56

STEP	EVENTS LEADING TO COMPLIANCE	TIMETABLE	COMPLETED	VER.
	Raymark Corporation is subject to the requirements of Section 22a-174-20(ee) concerning Reasonably Available Control Technology (RACT) for the control of Volatile Organic Compound (VOC) emissions This Compliance Timetable is divided into nine (9) parts. The first seven (7) parts contain the work schedules for implementing the RACT determinations made by the Department on equipment subject to Section 22a-174-20(ee) and the documenting of overall control efficiencies of existing control equipment which has been determined to represent RACT on other equipment subject to Section 22a-174-20(ee). The eighth (8) part contains the monitoring and recordkeeping requirements and Part IX the progress report submission schedule.			
	Raymark operates fourteen (14) transfer pumps which utilize packing glands and have VOC emissions. A list of these pumps and the materials handled by the pumps was presented in Table 3.1 of Raymark's February 13, 1987 submittal to the Department. Usin fugitive emission factors developed by EPA for pumps handling light liquids the consultant calculated the combined VOC emissions from these pumps to be .39 tons of VOC per year. The Department has determined RACT for these pumps to be a maximum quarterly allowable VOC emission limit of .0975 tons of VOC. The Department shall enforce this limit by restricting the transfer pumps operating hours to two (2) hours per day, five (5) days per week for fifty-two (52) weeks per year. Compliance with this section of State Order No. 8013 does not excuse Raymark from complying with other requirements of Section 22a-174-20 which may apply.			

URCE NAME:	Raymark Industries, Inc.	PREMISE NO.: 178-006	CLIENT NO.: 002139
0001100 10 1110	TION: 22a-174-20 (ee)	ORDER NO.: 8013	DATE ISSUED: 1/15/87

STEP EVENTS LEADING TO COMPLIANCE	TIMETABLE	COMPLETED	VER
Whenever a transfer pump has expenduseful life and is to be replaced with a transfer pump, this new transfer pump shave mechanical seals to better controlemissions.	new all		
PART II - STORAGE TANKS AND CONDENSATE S' Raymark maintains storage tanks to VOC's used in their resin making and oth operations. The Company also has a stor which collects condensate from the condethe resins manufacturing process. Fugit emissions are generated from the filling tanks and thermal expansion of the liqui A list of the tanks and the VOC stored, capacities and the maximum vent size per included on Table 3.3 of Raymark's Febru 1987 submittal. The consultant calculat emissions for these tanks based on the athroughput of each tank in 1985. Total emissions from filling and thermal chang to .8475 tons per year. RACT for the st listed in Table 3.3 which contain VOC emmaterials has been determined to be a maquarterly allowable emission limit of .2 of VOC. The Department shall enforce the through recordkeeping requirements. Any tank greater than 10,000 gallons volume containing a VOC with a vapor pressure of per square inch absolute at its maximum temperature shall have a conservation vewhich is maintained in good operating cowhich is set to release at no less than per square inch gauge of pressure or 0.3 square inch gauge of vacuum or the higher pressure and vacuum in accordance with Sfire codes or the National Fire Preventiguidelines or other national consensus acceptable to the Department. Any instacconservation vent valves shall be completed.	hold er age tank nsors on ive VOC of these d VOC's. the tank tank are ary 13, ed the VOC nnual VOC es amounted orage tanks itting ximum 118 tons is limit storage and of 1.5 pounds operating ent valve ondition and 0.7 pounds spounds per est possible State and local on Association standards allations of		

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	tion: 22a-174-20 (ee)	ORDER NO.: 8013	DATE ISSUED: 1/15/87

TEP	EVENTS LEADING TO COMPLIANCE	TIMETABLE	COMPLETED	VE
	PART III - WICKS BOILER (#5) - CONDENSATE DESTRUCTION	W (8		
	VOC's are collected in a storage tank resulting		4	
	from the condensing of vapors from the manufacture			
	of VOC containing resins in the reactor vessels.			
	These stored VOC's are injected into the #5 Wicks			
	boiler and destroyed. A May 2, 1986 submittal from			
	a consultant hired by the Company claimed that 99%			
	of the VOC emissions are destroyed. The consultant,			
	through purchase records, determined that 657,317 lbs of VOC were injected into the boiler. VOC emissions	***	1	
	at a 99% destruction efficiency were 6,574 lbs. of			
	VOC. This figure was a best engineering practice			
	judgement by the consultant. Typical industrial			
	boilers operate at approximately 2600°F with a few			
	seconds retention time in the radiant section of the			
	boiler. At such conditions, EPA studies on the			
	destruction of hazardous liquid wastes in industrial boilers have shown destruction efficiencies as high			
	as 99.99 percent. The references to these EPA studie	S		
	used by the consultant are contained in a submittal			
	received from Raymark dated February 13, 1987.		V	
	Comparing similar data and using best engineering			
	practice, it appears Raymark's Wicks Boiler (#5) can			1
	easily achieve a VOC destruction efficiency greater than 90 percent which is the minimum destruction			1
	efficiency the Department will accept. The Department	ı t		
	has determined that incineration by the Wicks Boiler			
	(#5) of the VOC condensate produced by the condensing	3	1	1
	of VOC's from the reactor vessels manufacturing resign	1		
	represents RACT. The Department will require a		1	
	continuous weekly temperature recorder on the boiler.	i.		
	The placement of a thermocouple in the exhaust stack will be determined during a temperature profile study	ı		
	of the radiant section of the boiler. The temperature	r e	1	
	profile study will measure the temperature changes			
	across the radiant section of the boiler and provide		1	
	information on the retention time of VOC condensate	50		1
	emissions in the boiler to verify a minimum 90 percen	1 t		
	destruction is occurring. This information will be			1 20
	correlated with temperature readings in the exhaust stack to set a temperature which ensures a minimum	*		
	90 percent destruction efficiency.			
	No. 10 and 10 an			
			1	

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STEP	EVENTS LEADING TO COMPLIANCE	TIMETABLE	COMPLETED	VER.
	An alarm is also required on the temperature recorde or a boiler man present whenever the Wicks Boiler is burning VOC to determine if the combustion temperature drops below the level necessary to achie a 90 percent destruction efficiency. If this situat occurs, the VOC condensate being injected into the b will immediately be shut off to ensure that excess V emissions are not being released. During a malfunction or scheduled shutdown of the Wicks boile any other boiler used to destroy the VOC condensate shall meet the identical operating requirements as the Wicks boiler to ensure proper destruction of the VOC's.	ve ion oiler OC		
1.	Complete temperature measurements and temperature profile to determine location of the thermocouple for the continuous weekly temperature recorder.	10/1/87		
2.	Issue purchase orders for continuous weekly temperature recorder and any other necessary equipment.	10/15/87		
3.	Receive continuous weekly temperature recorder and all other necessary equipment and begin installation	11/1/87		
4.	Complete installation of continuous weekly temperature recorder and all other necessary equipment.	12/1/87		
5.	Be in compliance with Section 22a-174-20(ee). Compliance with these requirements do not relieve Raymark from compliance with any applicable State or Federal requirements governing the disposal of hazardous waste.	12/1/87		

SOURCE NAME:	Raymark Industries, I	Inc.	PREMISE NO.: 178-006	CLIENT NO.: 002139
SOUTH THINKS	ION: 22a-174-20 (ee)		ORDER NO.: 8013	DATE ISSUED: 1/15/87

	Raymark Industries, Inc.	178-006	002139
SOURCE NAME:	22a-174-20 (ee)	PREMISE NO.: 8013	CLIENT NO.: 1/15/87

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EVENTS LEADING TO COMPLIANCE	TIMETABLE	COMPLETED
RACT for the Wet Friction Manufacturing Process has been determined by the Department to be incineration with an overall capture and destruction efficiency of 90 percent of the VOC's for the saturation tanks, precuring ovens, batch cure ovens and final cure ovens described above. Figure 3.2 in Raymark's February 13, 1987 submittal documents that the wet friction process is currently meeting a 90% overall efficiency.		
PART V - SPECIAL PRODUCTS MANUFACTURING Dip Tank Room - Room Exhaust Batch Cure Ovens and #3 Oven - Vent #26 Steam Autoclave - Vent #30		
Special products manufacturing follows the same basic sequence as wet friction products with the exception that each operation is performed manually as opposed to automatically. Saturation is performed by manually dipping trucks into saturant and precuring is performed by air drying.		
Final curing or batch curing completes the operation. None of the VOC's from this process are controlled. The final cure or batch ovens used exclusively for curing special products are		
78 84 88 3 80 85 90 81 87 91		
The consultant calculated the VOC emissions for Special Products Manufacturing to be 26 tons of VOC per year. RACT for this process has been determine by the Department to be a maximum monthly allowable	d	

	Raymark Industries, Inc.	178-006	002139
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P EVENTS	ELADING TO COMPLIANCE	TIMETABLE	COMPLETED	VE
The Department tanks containing sate of minimize fugitive practice requirement which is saturated in the dip tank will closed until the saturated in the dip tank will closed until the saturated in the dip tank will closed until the saturated in the dip tank will closed until the saturated in the dip tank will closed until the saturated in tank or no work is remain closed. Issue purchase orde Receive dip tank contained in tank or installating the saturated in	will require that all dip turant have covers installed e VOC emissions. As a work t, any special product longer than five (5) minutes l be required to have the cover turation process is completed. t being performed in the dip scheduled the cover(s) shall rs for dip tank covers. vers and begin installation. on of dip tank covers and requirements. Special Products Manufacturing to be economically infeasible wincinerator which meets a overall efficiency. If at e Wet Friction Process ment is removed from the cility and the existing destroy VOC emissions remains, lity study will be immediately mine if it may now be econom-destroy VOC emissions from nufacturing to a minimum efficiency. The VOC emissions ts Manufacturing are currently	Completed (6/1/87) (7/1/87) (8/1/87)		

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	PART VI - SPECIAL PRODUCTS - ADHESIVE	SPRAYING		
]				
	Some special products are sprayed adhesive before they are bonded to oth The spraying of this adhesive emits VO company shall immediately institute a system to determine if the VOC emissio 8 pounds per hour and 40 pounds per da emissions are less than 8 pounds per h 40 pounds per day, RACT will not have implemented. If the VOC emissions excof the above emission standards the De will impose RACT or Raymark can commit the VOC emissions to less than 8 pound and 40 pounds per day. RACT for adhes has been determined by the Department 80 percent reduction in VOC emissions.	er materials. C's. The recordkeeping ns exceed y. If VOC our and to be eed either partment to keeping s per hour ive spraying to be an		
	Develop and begin recordkeeping on the spray booth to determine if VOC emissithan 8 pounds per hour and 40 pounds p	ons are less $(4/1/87)$		
	Complete determination on compliance sadhesive spray booth.	tatus of 10/1/87		
	If VOC emissions are less than 8 hour and 40 pounds per day procee No. 11.	pounds per d to Step		
	If VOC emissions are greater than per hour and 40 pounds per day pr Step No. 3.			
	Retain consultant to study and design capable of reducing VOC emissions by 8 or commit to reducing emissions to les 8 pounds per hour and 40 pounds per da	30 percent s than	56	
	Issue purchase orders for all required and control apparatus.	l equipment 10/1/87	X.	

Raymark Industries,	Inc.		178-006		002139
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TEP	EVENTS LEADING TO COMPLIANCE	TIMETABLE	COMPLETED	VE
5.	Submit a Permit to Construct/Operate application for approval by D.E.P.	10/1/87		
6.	Submit "Intent to Test" Form if necessary.	10/1/87		
7.	Receive all equipment and begin installation.	10/1/87		
	Complete installation of all equipment.	10/15/87		
) .	Complete emission tests and capture efficiency determinations per D.E.Papproved procedure if necessary.	11/1/87		
).	Submit emission test reports to D.E.P.	12/1/87		
1.	Be in compliance with Section 22a-174-20 (ee) by either reducing VOC emissions by 80 percent or if VOC emissions have been reduced to or are less than 8 pounds per hour or 40 pounds per day, commit to staying below these levels.	12/1/87		
2.	Complete and submit Registration Forms for any involved equipment and control apparatus as they will be operated in compliance. If a Registration for any involved equipment has been completed previously submit a new Registration Form using the same Application No. in Box No. 1 except mark "Amended" in the Box. Identify the form with this State Order.	12/1/87		
	VII. ADHESIVE MANUFACTURING			
	Adhesives are manufactured in small reaction vessels. These vessels are jacketed and temperature is controlled with cooling water. The manufacturing process consists of adding solids to the reaction vessel, then pumping in the VOC, mixing the ingredients and holding the ingredients until they dissolve and react. The mixture is then put into containers. VOC's can be emitted during the container filling operation. Raymark shall institute a recordkeeping system to determine if			

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STEP	EVENTS LEADING TO COMPLIANCE	TIMETABLE	COMPLETED	VER
	VOC emissions are greater than 8 pounds per hour and 40 pounds per day. If VOC emissions are less than 8 pounds per hour and 40 pounds per day the adhesive manufacturing operation would be exempt from implementing RACT providing Raymark committed to keeping VOC emissions below the above emission standard. If the emissions exceed the above standards RACT has been determined by the Department to be an 80 percent reduction in VOC emissions.			
1.	Develop and begin recordkeeping on the adhesive manufacturing operation to determine if VOC emissions are less than 8 pounds per hour and 40 pounds per day.	10/1/87		
2.	Complete determination on compliance status of adhesive manufacturing process.	10/1/87		
	If VOC emissions are less than 8 pounds per hour and 40 pounds per day proceed to Step No. 11. If VOC emissions are greater than 8 pounds			
	per hour and 40 pounds per day proceed to Step No. 3.			
3.	Retain a consultant to study and design a system capable of reducing VOC emissions by 80 percent or commit to reducing emissions to less than 8 pounds per hour and 40 pounds per day.	10/1/87		
4.	Issue purchase orders for all required equipment and control apparatus.	10/1/87		
5.	Submit a Permit to Construct/Operate application for approval by D.E.P.	10/1/87		
6.	Submit "Intent to Test" Form if necessary.	10/1/87		

SOURCE NAME:	Raymark Industries, Inc.	PREMISE NO.: 178-006	CLIENT NO.: 002139
	non: 22a-174-20 (ee)	ORDER NO.: 8013	DATE ISSUED: 1/15/87

STEP	EVENTS LEADING TO COMPLIANCE	TIMETABLE	COMPLETED	VER.
7.	Receive all equipment and begin installation.	11/1/87		
8.	Complete installation of all equipment.	11/15/87		
9.	Complete emission tests and capture efficiency determinations per D.E.Papproved procedures if necessary.	11/15/87		
10.	Submit emission test reports to D.E.P.	12/15/87		
11.	Be in compliance with Section 22a-174-20 (ee) through either reducing emissions by 80 percent or be exempted from RACT by the commitment to maintain VOC emissions to 8 pounds per hour and 40 pounds per day.	12/15/87		
12.	Complete and submit Registration or Permit Forms for any involved equipment and control apparatus as they will be operated in compliance. If a Registration for any involved equipment has been completed previously submit a new Registration Form using the same Application No. in Box No. 1 except mark "Amended" in the Box. Identify the form with this State Order.	12/15/87		

RCE NAME:	Raymark Industries, Inc.	PREMISE NO.: 178-006	CLIENT NO.: 002139
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	EVENTS LEADING TO COMPLIANCE	TIMETABLE	COMPLETED	VE
s e h t	ART VIII. RECORDKEEPING, MONITORING, AND REPORTING REQUIREMENTS Part VIII describes the required recordkeeping ystems necessary to demonstrate RACT or a RACT xemption once the designated RACT requirements ave been implemented or a RACT exemption documented o ensure continued compliance. These recordeeping systems are also required during the mplementation of the designated RACT requirements	TIMETABLE	COMPLETED	VE
s R t f m C	o that progress towards the final achievement of ACT can be monitored. All records required by his Compliance Timetable shall be kept on file or a period of three (3) years and submitted or ade available immediately upon request by the ommissioner.			
s f o s p T O t t a	The Company shall monitor its vacuum pumps, torage tanks, condensate storage tank, boiler used or condensate destruction, saturators, precuring vens, batch ovens (final curing ovens), adhesive pray booth, autoclave and adhesive manufacturing rocess in the manner described by this Compliance imetable and as further described within State order No. 8013. The following conditions apply to the above-referenced operations until such time as his order may be amended or otherwise altered in manner approved by the Commissioner of Environmental Protection.			
J c	Quarterly reports will be submitted to the Department beginning on July 1, 1987 and end on anuary 1, 1988. They shall continue to be ompiled and kept on file by the Company and made vailable on request by the Commissioner.			
f	Annual VOC emissions totals will be compiled from January 1 until December 31 of each year. Upon demonstrating compliance with the terms of his order, additional record-keeping requirements			

DURCE NAME: Raymark Industries, Inc.	PREMISE NO.: 178-006	CLIENT NO.: 002139
VIOLATION SUBSECTION: 22a-174-20 (ee)	ORDER NO.: 8013	DATE ISSUED: 1/15/87

EP	EVENTS LEADING TO COMPLIANCE	TIMETABLE	COMPLETED	VER
data as d the Pre-I recent VO	sist of: an annual submittal of VOC usage escribed in the following sections with a nspection Questionnaire for the most C emission year until notified otherwise partment at some future date.			
of proces that is o which Ray emissions Raymark's	Company shall distinctly mark each piece s or control equipment in the facility wned and/or operated by Raymark and for mark is responsible for the VOC. The markings shall clearly differentiate equipment from any equipment owned and/or by Brake Systems Inc.			
B) TRANS	FER PUMPS (14 Pumps)			
on all tr	faintain continuous use of packing glands ansfer pumps. The packing glands are o the following:			
a)	Monthly measurements of performance using a hydrocarbon detection meter.			
b)	Replace mechanical seal within 15 days whenever hydrocarbon emission readings indicate a 15% increase in VOC emissions over baseline emissions. Baseline is defined as a maximum of six thousand (6000) parts per million of VOC. The Company can make a request to the Commissioner to delay a repair of a fugitive emission source until the next turnaround if the repair is infeasible for technical or safety reasons without a complete or partial shutdown of the process unit can be made to the Commissioner. The hydrocarbon testing shall be in conformance with EPA Method 21 in 40 CFR, Appendix A, Part 60			

UBCE NAME.	Raymark Industries, Inc.	PREMISE NO.: 178-006	CLIENT NO.: 002139
OURCE NAME:	ion: 22a-174-20 (ee)	ORDER NO.: 8013	DATE ISSUED: 1/15/87

STEP		EVENTS LEADING TO COMPLIANCE	TIMETABLE	COMPLETED	VER.
	c)	Maintain daily records on the hours of operation of each pump which is not to exceed two (2) hours per day, five (5) days per week for fifty-two weeks per year		8	
	d)	Based on the recorded hours of operation, calculate the VOC's being emitted from the transfer pumps in tons of VOC on a quarterly basis.			
	e)	The above-referenced measurements and VOC emission calculation shall be submitted quarterly according to the Compliance Time table for the duration of this State Order	-		
	a complet the trans the Pre-I	an annual basis the Company shall compile e detailed record of total VOC emissions fr fer pumps and submit this information with nspection Questionnaire in the same format arterly reports.	om		
	1) M	GE TANKS AND CONDENSATE STORAGE TANK (aintain a recordkeeping system for each tar Table 3.3 of Raymark's February 13, 1987	ik		
		. At a minimum this record shall include:) VOC stored in the tank			
	ь) the tank identification number			
) the tank capacity			
	d) the maximum vent size in cubic feet per minute			

OURCE NAME:	Raymark Industries, Inc.	PREMISE NO.: 178-006	CLIENT NO.: 002139
	on: 22a-174-20 (ee)	ORDER NO.: 8013	DATE ISSUED: 1/15/87

STEP	EVENTS LEADING TO COMPLIANCE	TIMETABLE	COMPLETED	VER
	e) delivery date of VOC			
	f) the amount of VOC delivered			
	2) Based on the above information the			
	Company shall calculate the quarterly emissions			
	from filling and thermal losses in tons of VOC for submittal according to the Compliance			
	Timetable. This data is due quarterly.			
	652			
	3) On an annual basis the Company shall compile a complete detailed record of total VOC's			
	entering and being emitted by the storage tanks			
	and submit this information with the Pre-Inspection			
	Questionnaire in the same format as the quarterly			
	reports.			
	D) WICKS BOILER (#5) - CONDENSATE DESTRUCTION			
	1) Install a continuous weekly temperature			
	recorder on the boiler to ensure the destruction of VOC's injected from the storage tank. The			
	combustion temperature and the location of the			
	thermocouple in the exhaust stack shall be			
	determined during the temperature profile measure- ments. An alarm or boilerman present whenever VOC			
	condensate is being burned is required to determine		}	
	if the combustion temperature drops below the			
	level necessary to maintain a minimum 90 percent destruction efficiency of the VOC's being injected.			
	2) Develop and maintain a daily recordkeeping			
	system on the amount of VOC injected into the boiler for destruction and calculate the VOC reduction in			1
	pounds from incineration and report these figures			
	with the quarterly reports for the duration of			
	this State Order.			
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SOURCE NAME:	Raymark Industries, Inc.	PREMISE NO.: 178-006	CLIENT NO.: 002139
SOUTHOE THIME!	ion: 22a - 174 - 20 (ee)	ORDER NO.: 8013	DATE ISSUED: 1/15/87

STEP	EVENTS LEADING TO COMPLIANCE	TIMETABLE	COMPLETED	VER
	3) During a malfunction or scheduled shutdown of the Wicks boiler any other boiler used to destroy the VOC condensate shall meet the identical record-keeping and operational requirements as the Wicks boiler to ensure a proper destruction efficiency.			
	4) On an annual basis the Company shall compile a complete detailed record of total VOC's entering and destroyed in the boiler and submit this information with the Pre-Inspection Questionnaire in the same format as the quarterly reports.			
	E) WET FRICTION PRODUCTS MANUFACTURING Saturator Ovens Nos. 95, 96 and 101 - VENT #2 Batch Cure Ovens and #47 Oven - Vent #26	7		
	1) Develop and maintain a recordkeeping system of daily VOC usage for each saturation tank includin any additions of VOC to the resin mixture at irregulintervals.	g a r		
	2) Develop and maintain a recordkeeping system on all resin manifested as waste on a monthly basis.			
	3) Submit a summary of total VOC usage on a per saturation tank basis quarterly for the duration of this State Order expressed in tons of VOC.			
	4) Submit a summary of the total resin amount manifested as waste quarterly expressed in tons of VOC.			
	5) On an annual basis the Company shall compile a complete detailed record of total VOC usage in ton by each saturant tank and the amount of VOC destroyed by the incinerator and submit this information with the Pre-Inspection Questionnaire.	S		
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SOURCE NAME:	Raymark Industries, Inc.	PREMISE NO.: 178-006	CLIENT NO.: 002139
	ION: 22a-174-20 (ee)	ORDER NO.: 8013	DATE ISSUED: 1/15/87

EP	EVENTS LEADING TO COMPLIANCE	TIMETABLE	COMPLETED	VE
	6) The incinerator on saturator ovens Nos. 95,			
	96 and 101 (precuring ovens) shall have a continuous			
	weekly temperature recorder to ensure destruction of			
	the VOC's being captured. The temperature of the		1	
	incinerator shall be maintained at the level which		1	
	will achieve a 90 percent overall destruction		1	
	efficiency for the Wet Friction Process VOC emission	20		
	efficiency for the wet friction frocess voc emission	• 5		
	An alarm shall be installed to warn of a		1	
	temperature drop below the level which would		I.	
	reduce the overall destruction efficiency to		N.	
	less than 90 percent minimum.			
	2000 VIII VIII VIII VIII VIII VIII VIII			
	7) An inspection maintenance program shall			
	be established for weekly visible inspections of			
	fugitive emission leaks from all hooding and duct-		į	
	work from the ovens to the incinerator and oven door			
	gaskets. If visible emissions are observed,		ľ	
	repairs will be initiated immediately. Any			
	fugitive emission observations as well as any			
	repairs sustained shall be documented and kept on			1
	file for the Department's review.			
	F) SPECIAL PRODUCTS SATURATION AND AIR DRYING			1
	Dip Tank Room - Room Exhaust			
	Batch Cure Ovens and #3 Oven - Vent #26		1	
	Steam Autoclaving - Vent #30			
	500411111111111111111111111111111111111			1
	1) Develop and maintain a recordkeeping			
	system of daily VOC usage for each dip tank in			
	pounds of VOC including any additions of VOC to		1	
	the resin mixture at irregular intervals.			1
	a) positive and the spine			
	2) Develop and maintain a recordkeeping			
	system on all resin manifested as waste on a			4
	monthly basis.			
	3) Submit a summary of total VOC usage on a			
	per dip tank basis quarterly for the duration of			
	this State Order expressed in tons of VOC.			
				*
	4) Submit a summary of the total resin amount			
	manifested as waste quarterly expressed in tons			
	of VOC.			
			4	

SOURCE NAME:	Raymark Industries, Inc.	PREMISE NO.: 178-006	CLIENT NO.: 002139
SOUTH TO THE	ion: 22a - 174 - 20 (ee)	ORDER NO.: 8013	DATE ISSUED: 1/15/87

STEP	EVENTS LEADING TO COMPLIANCE	TIMETABLE	COMPLETED	VER
	5) On an annual basis the Company shall compile a detailed record of total VOC usage and VOC manifested as waste in tons and submit this information with the Pre-Inspection Questionnaire.			
	G) ADHESIVE SPRAY BOOTH			
	1) Develop and maintain a recordkeeping system of daily VOC usage in pounds of VOC.			
	2) Develop and maintain a recordkeeping system on all adhesive manifested as waste on a monthly basis expressed in pounds of VOC.			
	3) Submit a summary of total VOC usage for the adhesive spray booth quarterly for the duration of this State Order expressed in pounds of VOC.			
	4) Submit a summary of the total adhesive amount manifested as waste quarterly expressed in pounds of VOC.			
	5) On an annual basis the Company shall compile a complete detailed record of total VOC usage and VOC manifested as waste in tons for the adhesive spray booth and submit this information with the Pre-Inspection Questionnaire.			
	H) ADHESIVE MANUFACTURING			
	1) Develop and maintain a recordkeeping system of daily VOC usage in pounds of VOC.			
	2) Develop and maintain a recordkeeping system on all adhesive manifested as waste on a monthly basis expressed in pounds of VOC.			
	3) Submit a summary of total VOC usage for the adhesive manufacturing process quarterly for the duration of this State Order expressed in pounds of VOC.			03
	4) Submit a summary of total adhesive manifested as waste quarterly for the duration of this State Order expressed in pounds of VOC.			

SOURCE NAME: Raymark Industries, Inc.	PREMISE NO.: 178-006 CLIENT NO.: 002139
VIOLATION SUBSECTION: 22a-174-20 (ee)	ORDER NO.: 8013 DATE ISSUED: 1/15/87

EP		EVENTS LEADING TO COMPLIANCE	TIMETABLE	COMPLETED	VEF
	compil VOC us for th	On an annual basis the Company shall e a complete detailed record of total age and VOC manifested as waste in tons e adhesive manufacturing process and this information with the Pre-Inspection			
		onnaire.			
155	PART I	X - PROGRESS REPORT SCHEDULE			
	update cation the ab descri	progress report schedule requires monthly s on control equipment installation and modifi milestones. The quarterly reports require ove-referenced information and the usage data bed in Parts A through Part VIII of this ance Timetable.	≅e		
	1)	Submit quarterly usage and Volatile Organic Compound emission report.	(7/1/87)		
	2)	Submit Quarterly usage and Volatile Organic Compound emission report.	10/1/87		
	3)	Submit Progress Report.	10/1/87		
	4)	Submit Progress Report.	11/1/87		
	5)	Submit Quarterly usage and Volatile Organic Compound emission report.	12/1/87		
	6)	Submit Annual usage and Volatile Organic Compound emission report.	12/31/87		
	7)	Be in compliance with Section 22a-174-20 (ee).	12/31/87		
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SOURCE NAME:	Raymark Industries,	Inc.	PREMISE NO.:	178-006	CLIENT NO.: 002139
VIOLATION SUBSECTIO	n: 22a-174-20 (ee)		ORDER NO.:	8013	DATE ISSUED: 1/15/87

STEP		EVENTS LEADING TO COMPLIANCE	TIMETABLE	COMPLETED	VER
	8)	Complete and submit Registration Forms for any involved equipment and control apparatus as they will be operated in compliance. If a Registration for any involved equipment has been completed previously submit a new Registration Form using the same Application No. in Box No. 1 except mark "Amended" in the Box. Identify the form with this State Order.	12/31/87		
	9)	Submit Progress Report; and continue submitting Progress Reports at precisely one month intervals if you are delinquent in complying with any steps of this order.	12/31/87		