State of Louisiana

Department of Environmental Quality

KATHLEEN BABINEAUX BLANCO
GOVERNOR

MIKE D. McDANIEL, Ph.D.
SECRETARY

Certified Mail No.:

Activity No.: PER20020005
Agency Interest No.: 9145

Mr. Marshall D. Byrd
Vice President and General Manager
Lockheed Martin
Michoud Operations
P. O. Box 29304
New Orleans, LA 70189-9304

RE: Permit modification, SLA Preparation and Application Processes - Michoud Assembly Facility, Lockheed Martin – Space Systems Company, New Orleans, Orleans Parish, Louisiana

Dear Mr. Byrd:

This is to inform you that the permit request for the above referenced facility has been approved under LAC 33:III.501. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets, and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

The permit number cited below and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done thi: DRAFT 2006.

Permit N FOR PUBLIC NOTICE

Sincerely

Chuck Carr Brown, Ph.D.
Assistant Secretary

CCB:AHG

AIR PERMIT BRIEFING SHEET
PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SLA PREPARATION AND APPLICATION PROCESSES
MICHOUD ASSEMBLY FACILITY
AGENCY INTEREST NO.: 9145
LOCKHEED MARTIN – SPACE SYSTEMS COMPANY
NEW ORLEANS, ORLEANS PARISH, LOUISIANA

I. BACKGROUND

Lockheed Martin - Space Systems Company (Lockheed Martin), a fully owned subsidiary of Lockheed Martin Corporation, is the operator of the NASA-owned Michoud Assembly Facility (MAF) in New Orleans, Orleans Parish. The facility is located at 13800 Old Gentilly Road, New Orleans, Louisiana. MAF is a component installation of the George C. Marshall Space Flight Center (MSFC) in Huntsville, Alabama.

The MAF has been an operational site since the outbreak of World War II. At that time, the site was developed by the U.S. Maritime Commission for the Construction of Liberty Ships. In 1942, the Liberty ship project was abandoned and the construction of the complex (which included administration, engineering, manufacturing, and hangar buildings, as well as several small shop buildings and an air stripper) was completed in order to manufacture cargo-type plywood aircraft.

The current primary activity at MAF is to support the continuing development and operations of the United States Space Transportation System. For permitting convenience the site has been separated into four contiguous areas individually permitted, these are: the Utility Point Sources, the Groundwater Air Stripper, the Primary Production Processes, and the SLA (Super Light Ablator) Preparation and Application Processes.

The Utility Point Sources addresses non-process related units and covers steam and hot water boilers as well as all prime movers at the MAF site and is currently operating under its initial Part 70 Permit No. 2692-V0 granted November 1, 2004.

The Primary Production Processes currently operates under a Part 70, Title V Permit No. 2740-V0 issued January 7, 2002, and addresses welding and solvent cleaning activities and primer and insulation application. A modification application was initially submitted October 11, 2002. An authorization to replace an existing paint spray booth, Emission Point 1203, with a less polluting new paint spray booth, Emission Point 1206, was granted on March 24, 2003. A revised submittal, dated March 2, 2005, incorporating reduction of the maximum annual usage of methyl ethyl ketone (MEK) was received and is currently under review.

The Groundwater Air Stripper consists of a system to treat groundwater and is a part of an ongoing groundwater remediation program at MAF. The Stripper was issued its initial Part 70 Permit No. 2474-V0 on June 3, 1999. A request dated December 01, 2003 to install a horizontal recovery well and a series of DNAPL trenches, list Groundwater Collection Tank, Emission Point 5096, as an insignificant activity, incorporate the latest limitations, and update emissions was submitted. Minor source Permit No. 2474 was issued July 25, 2005, under which the facility is currently operating.

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NEW ORLEANS, ORLEANS PARISH, LOUISIANA

The requested enforceable conditions will render the contiguous facility (MAF) a synthetic minor.

The SLA Shuttle Preparation and Application Processes permit incorporates the emissions from solvent cleaning, primer surface coating, and the associated preparation activities. It is presently operating under Permit No. 2720-V0 granted May 29, 2001, and amended on March 8, 2002.

II. ORIGIN

A permit application and Emission Inventory Questionnaire (EIQ) dated October 9, 2002 were received requesting a permit. Additional information dated December 29, 2003, February 07, 2005 was received. A revised application requesting a minor source (state) permit prompted by production scale down coupled with federally enforceable conditions, dated February 28, 2005 was received. Supplemental information dated March 28, April 5, June 14, July 14, December 14, and December 21, 2005 was also received.

III. DESCRIPTION

The SLA Shuttle Preparation and Application Processes covers activities such as composite molding, testing, curing surface priming and coating, mixing, solvent cleaning, material storing, and associated preparation activities. These activities are carried out in separate rooms, cells using testing equipment, electric ovens, chemical storage, and spray booths.

Lockheed Martin proposes to undertake the following actions:

1. Report the emissions from Building 318 under, Emission Point 3318, the common vent of thermal oxidizers 3001 and 3002, rather than under Emission Point 3001.
2. Cap the emissions from the separately vented thermal oxidizers 3004 and 3005 under Group 3131, rather than under Emission Point 3005.
3. Limit the combined total natural gas consumption of both thermal oxidizers 3001 and 3002 to 131.66 MMSCF during any twelve consecutive months.
4. Limit the combined total natural gas consumption of both thermal oxidizers 3004 and 3005 to 121.90 MMSCF during any twelve consecutive months.
5. Incorporate the emissions from the latest modifications and limitations.

Emissions originate from composite material testing, mixing, molding (manufacturing), air and heat curing (electric autoclaves and ovens) , storing (tanks vents), machining, cleaning, washing, priming, washing, coating (surface preparations), and insulation application.

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Estimated emissions in tons per year are as follows:

Pollutant	Before	After	Change
PM_{10}	3.78	1.74	- 2.04
SO_2	0.16	0.08	- 0.08
NO_X	38.68	17.75	- 20.93
CO	9.67	10.65	+ 0.98
VOC	6.10	6.02	- 0.08

LAC 33:III. Chapter 51 Toxic Air Pollutants (TAPs)	Emissions in Tons per year
Ethylbenzene	<0.50
Glycol Ethers (Class II)	<0.60
n-Butyl Alcohol	<1.00
Methyl Ethyl Ketone	1.25
Methyl Isobutyl Ketone	<1.00
Toluene	<0.90
Xylenes (mixed isomers)	<0.90
Non-VOC TAPs	
1,1,1-Trichloroethane	<0.01
Chromium VI	<0.01
Nitric Acid	0.001
Total TAP's	1.57

Contiguous Facilities Summary:

The SLA (Super Light Ablator) Preparation and Application Processes is one of four MAF contiguous areas individually permitted. The other three areas are: Utility Point Sources (Permit No. 2692-V0), Groundwater Air Stripper (No. 2474), and Primary Production Processes (Permit No. 2740-V0).

Permitted and estimated emissions from each area, as well as the combined total emissions from all areas in tons per year are as follow:

MAF Contiguous Areas	Emissions - TPY					
	PM_{10}	SO_2	NO_X	CO	VOC[1]	TAPs
SLA Preparation & Application Processes (Permit No. 2720)	1.74	0.08	17.75	10.65	6.02	1.57
Groundwater Air Stripper (Permit No. 2474)	-	-	-	-	0.90	0.80
Utility Point Sources (Permit No. 2692-V0)	5.76	7.06	72.24	45.84	5.95	0.02
Primary Production Processes (Permit No. 2740)	3.93	Neg.	0.75	0.45	22.53	10.40
Total / Combined Emissions[2]	**11.43**	**7.14**	**90.74**	**56.94**	**35.40**	**12.79**

[1]Toxic VOC components total 12.49 tons, 8.55 tons of which are MEK, a class III toxic substance.
[2]Individual criteria pollutants, toxic substances and combined toxic substances emissions are less than the corresponding major source thresholds.

IV. TYPE OF REVIEW

This permit was reviewed for compliance with Louisiana Air Quality Regulations. New Source Performance Standards (NSPS), Prevention of Significant Deterioration (PSD) and National Emission Standards for Hazardous Air Pollutants (NESHAP) do not apply.

The remediation activities at the MAF facility are exempt from the requirements of the National Emission Standards for Hazardous Air Pollutants-Site Remediation 40 CFR 63 Subpart GGGGG [63.7881(b)(3)]. These activities are being performed as Resource Conservation and Recovery Act corrective action activities regulated under RCRA Permit No. LA4800014587. The Groundwater Air Stripper, Emission Point 3091, treats the groundwater recovered from Areas of Concern B and D.

The contiguous facility (MAF) was a major source of both Toxic Air Pollutants (TAPs) and criteria pollutants. It is now a minor (synthetic) source as a result of production scale down and federally enforceable conditions limiting the potential to emit to below the major source thresholds of both criteria and air toxic pollutants. The facility is required to comply with LAC 33:III.5105A, 5107.A, B and C, 5111.A.4, and 5113. MAF achieved compliance, and will continue to comply with all applicable requirements of the compliance plan CC92036.

V. PUBLIC NOTICE

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge and the XXXX, XXXX, on XXXXXXXX XX, 200X. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on XXXXXXXX XX, 200X. All comments will be appropriately addressed.

VI. EFFECTS ON AMBIENT AIR

Dispersion Model(s) Used: <None>

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Air Quality Standard (NAAQS)
NONE			

VII. GENERAL CONDITION XVII ACTIVITIES

		Emission Rates - tons				
Work Activity	Schedule	PM_{10}	SO_2	NO_X	CO	VOC
NONE						

VIII. INSIGNIFICANT ACTIVITIES

ID No.:	Description	Citation

LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS

I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.

II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.

III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated October 9, 2002, along with supplemental information dated December 29, 2003, February 7, 2005, February 28, March 28, April 5, June 14, July 14, December 14, and December 21, 2005.

IV. This permit shall become invalid, for the sources not constructed, if:

A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;

B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.

The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.

This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.

V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.

VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.

VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Surveillance Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.

X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.

XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Surveillance Division with a written report as specified below.

A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.

B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.

C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:

1. Report by June 30 to cover January through March
2. Report by September 30 to cover April through June
3. Report by December 31 to cover July through September
4. Report by March 31 to cover October through December

D. Each report submitted in accordance with this condition shall contain the following information:

1. Description of noncomplying emission(s);
2. Cause of noncompliance;
3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.

E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.

XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:

A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;

B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;

C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and

D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.

XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.

XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.

XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.

XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:

1. Generally be less than 5 TPY
2. Be less than the minimum emission rate (MER)
3. Be scheduled daily, weekly, monthly, etc., or
4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

AI ID: 9145 Lockheed Martin - Space Systems Co
Activity Number: PER20020005
Permit Number: 2720
Air - Minor (Synthetic) Modification

Location of Front Gate: 30° 1' 36" latitude, 89° 55' 1" longitude, Coordinate Method: Interpolation - Map, Coordinate Datum: NAD27

Related People:

Name	Mailing Address	Phone (Type)	Relationship
Reynold Abadie	PO Box 29304 New Orleans, LA 701890304	5042573110 (WP)	Responsible Official for
Frank Duncan	PO Box 29304 New Orleans, LA 701890304	5042572539 (WP)	Radiation Safety Officer for
Melanie Jennings	PO Box 29304 New Orleans, LA 701290304	5042574787 (WP)	Underground Storage Tank Contact for
Melanie Jennings	PO Box 29304 New Orleans, LA 701290304	5042574787 (WP)	Haz. Waste Billing Party for
Gregory Lain	PO Box 29304 New Orleans, LA 701890304	5042571871 (WP)	Radiation Contact For
Dale Mahnke	PO Box 29304 New Orleans, LA 701290304	5042573434 (WP)	Water Billing Party for
A. Michael Wiater	PO Box 29304 New Orleans, LA 70189	5042571463 (WP)	Asbestos Contact for

Related Organizations:

Name	Address	Phone (Type)	Relationship
Lockheed Martin	PO Box 29304 New Orleans, LA 701890304	5042574787 (WP)	Air Billing Party for
Lockheed Martin	PO Box 29304 New Orleans, LA 701890304	5042574787 (WP)	Operates
Lockheed Martin	PO Box 29304 New Orleans, LA 701890304	5042574787 (WP)	Solid Waste Billing Party for
Lockheed Martin	PO Box 29304 New Orleans, LA 701890304	5042571871 (WP)	Radiation License Billing Party for
Lockheed Martin	PO Box 29304 New Orleans, LA 701890304	5042571871 (WP)	Radiation Registration Billing Party for
Lockheed Martin	PO Box 29304 New Orleans, LA 701890304	5042574787 (WP)	UST Billing Party for
US NASA	PO Box 29304 New Orleans, LA 701890304	5042572601 (WP)	Owns

SIC Codes: 3769, Missile and space vehicle equipment, nec

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 9145 - Lockheed Martin - Space Systems Co
Activity Number: PER20020005
Permit Number: 2720
Air - Minor (Synthetic) Modification

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
ARE021	3090 - Ablator & Primer Application Bypass		7.5 (other units)	7.5 (other units)		3744 hr/yr (All Year)
EQT127	1001 - Fume Hood, Tech Ops		7.5 (other units)	7.5 (other units)		1200 hr/yr (All Year)
EQT128	1002 - Fume Hood, Production (Hand Work)		7.5 (other units)	7.5 (other units)		1200 hr/yr (All Year)
EQT129	1119 - Bldg. 318 Air & Heat Cure Operations		7.5 (other units)	7.5 (other units)		2000 hr/yr (All Year)
EQT130	5001 - Heptane Storage Tank	2000 gallons	12000 gallons/yr	2000 gallons/hr	Heptane	8760 hr/yr (All Year)
EQT131	5003 - MEK Storage Tank	1000 gallons	2000 gallons/yr	1000 gallons/hr	MEK	8760 hr/yr (All Year)
EQT132	5006 - Waste Solvent Tank	2000 gallons	6000 gallons/yr	2000 gallons/hr	Waste Solvent	8760 hr/yr (All Year)
EQT133	5058 - MEK Storage Tank	2000 gallons	6000 gallons/yr	2000 gallons/hr	MEK	8760 hr/yr (All Year)
EQT134	5061 - Deoxidizer Storage Tank	11308 gallons	113080 gallons/yr	11308 gallons/hr		8760 hr/yr (All Year)
EQT135	5062 - Waste Solvent (MEK)	3000 gallons	9000 gallons/yr	3000 gallons/hr	Waste solvent (MEK)	8760 hr/yr (All Year)
EQT136	5065 - Heptane Storage Tank	2000 gallons	10000 gallons/yr	2000 gallons/hr	Heptane	8760 hr/yr (All Year)
EQT137	5066 - Waste Solvent Storage Tank	3000 gallons	9000 gallons/yr	3000 gallons/hr		8760 hr/yr (All Year)
EQT138	5002 - Xylene Storage Tank	160 gallons	2000 gallons/yr	1000 gallons/hr	Xylene	8760 hr/yr (All Year)
EQT150	EQ 300403 - Composite Curing Oven 8X8		7.5 (other units)	7.5 (other units)		8760 hr/yr (All Year)
EQT151	EQ 300466 - Composite Curing Autoclave		7.5 (other units)	7.5 (other units)		8760 hr/yr (All Year)
EQT152	EQ 300488 - Composite Curing Oven 12X12		7.5 (other units)	7.5 (other units)		8760 hr/yr (All Year)
EQT153	SLA 4 - Composite Material Testing RM 119		7.5 (other units)	7.5 (other units)		8760 hr/yr (All Year)
EQT154	SLA H - Chemical Store Room RM 133		7.5 (other units)	7.5 (other units)		8760 hr/yr (All Year)
EQT155	SLA 9 - Air Cure RM 128		7.5 (other units)	7.5 (other units)		8760 hr/yr (All Year)
EQT156	SLA A - SLA Heat Cure RM 134		7.5 (other units)	7.5 (other units)		8760 hr/yr (All Year)
EQT157	SLA 2 - SLA Machine Shop RM 122b		7.5 (other units)	7.5 (other units)		8760 hr/yr (All Year)
EQT158	SLA 3 - SLA Machine Shop RM 122A		7.5 (other units)	7.5 (other units)		8760 hr/yr (All Year)
EQT159	SLA 5 - SLA Mold and Clean Room RM 127		7.5 (other units)	7.5 (other units)		8760 hr/yr (All Year)
EQT160	SLA 7 - SLA Mold Hand Pack RM 130		7.5 (other units)	7.5 (other units)		8760 hr/yr (All Year)
EQT161	SLA G - SLA Mold Room RM 144		7.5 (other units)	7.5 (other units)		8760 hr/yr (All Year)
EQT162	SLA 6 - SLA Mix Room RM 129		7.5 (other units)	7.5 (other units)		8760 hr/yr (All Year)
EQT163	SLA D - Pot/Gun Clean Room RM 146		7.5 (other units)	7.5 (other units)		8760 hr/yr (All Year)
EQT164	SLA E - SLA Spray Prep Area RM 149		7.5 (other units)	7.5 (other units)		8760 hr/yr (All Year)
EQT165	SLA 1 - Robot SLA Spray Booth RM 125		7.5 (other units)	7.5 (other units)		8760 hr/yr (All Year)
EQT166	SLA 8 - Robot SLA Spray Booth RM 131		7.5 (other units)	7.5 (other units)		8760 hr/yr (All Year)
EQT167	SLA B - Robot SLA Spray Booth RM 148		7.5 (other units)	7.5 (other units)		8760 hr/yr (All Year)
EQT168	SLA C - Robot SLA Spray Booth RM 147		7.5 (other units)	7.5 (other units)		8760 hr/yr (All Year)
EQT169	SLA F - Robot SLA Spray Booth RM 150		7.5 (other units)	7.5 (other units)		8760 hr/yr (All Year)
EQT170	B130 - Mix Room (Ablator Preparation)		7.5 (other units)	7.5 (other units)		1200 hr/yr (All Year)
EQT171	B131 - Mix Room (Ablator Preparation)		7.5 (other units)	7.5 (other units)		1200 hr/yr (All Year)
EQT172	T130 - Cell P (LH2 External Wash and Prime)		7.5 (other units)	7.5 (other units)		1200 hr/yr (All Year)
EQT173	T140 - Cells M and N		7.5 (other units)	7.5 (other units)		1200 hr/yr (All Year)

INVENTORIES

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Activity Number: PER20020005
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Air - Minor (Synthetic) Modification

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
RLP035	3318 - Bldg. 318 Thermal Oxidizers Common Stack		50100 ft^3/min	50100 ft^3/min	Combustion Products	8760 hr/yr (All Year)
TRT002	3001 - Bldg. 318 Thermal Oxidizer No. 1		53 MM BTU/hr	15.9 MM BTU/hr	Natural gas	8760 hr/yr (All Year)
TRT003	3002 - Bldg. 318 Thermal Oxidizer No. 2		53 MM BTU/hr	15.9 MM BTU/hr	Natural gas	8760 hr/yr (All Year)
TRT004	3004 - Bldg. 131 Thermal Oxidizer No. 1		46.4 MM BTU/hr	13.9 MM BTU/hr	Natural gas	8760 hr/yr (All Year)
TRT005	3005 - Bldg. 131 Thermal Oxidizer No. 2		46 MM BTU/hr	15.3 MM BTU/hr	Natural gas	8760 hr/yr (All Year)

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP022	3131- Building 131 Emissions Group Cap	TRT4 3004 - Bldg. 131 Thermal Oxidizer No. 1
GRP022	3131- Building 131 Emissions Group Cap	TRT5 3005 - Bldg. 131 Thermal Oxidizer No. 2
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	ARE21 3090 - Ablator & Primer Application Bypass
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT127 1001 - Fume Hood, Tech Ops
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT128 1002 - Fume Hood, Production (Hand Work)
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT129 1119 - Bldg. 318 Air & Heat Cure Operations
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT130 5001 - Heptane Storage Tank
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT131 5003 - MEK Storage Tank
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT132 5006 - Waste Solvent Tank
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT133 5058 - MEK Storage Tank
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT134 5061 - Deoxidizer Storage Tank
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT135 5062 - Waste Solvent (MEK)
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT136 5065 - Heptane Storage Tank
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT137 5066 - Waste Solvent Storage Tank
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT138 5002 - Xylene Storage Tank
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT150 EQ 300403 - Composite Curing Oven 8X8
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT151 EQ 300466 - Composite Curing Autoclave
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT152 EQ 300488 - Composite Curing Oven 12X12
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT153 SLA 4 - Composite Material Testing RM 119
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT154 SLA H - Chemical Store Room RM 133
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT155 SLA 9 - Air Cure RM 128
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT156 SLA A - SLA Heat Cure RM 134
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT157 SLA 2 - SLA Machine Shop RM 122b
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT158 SLA 3 - SLA Machine Shop RM 122A
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT159 SLA 5 - SLA Mold and Clean Room RM 127
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT160 SLA 7 - SLA Mold Hand Pack RM 130
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT161 SLA G - SLA Mold Room RM 144
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT162 SLA 6 - SLA Mix Room RM 129

INVENTORIES

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Permit Number: 2720
Air - Minor (Synthetic) Modification

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT163 SLA D - Pot/Gun Clean Room RM 146
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT164 SLA E - SLA Spray Prep Area RM 149
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT165 SLA 1 - Robot SLA Spray Booth RM 125
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT166 SLA 8 - Robot SLA Spray Booth RM 131
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT167 SLA B - Robot SLA Spray Booth RM 148
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT168 SLA C - Robot SLA Spray Booth RM 147
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT169 SLA F - Robot SLA Spray Booth RM 150
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT170 B130 - Mix Room (Ablator Preparation)
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT171 B131 - Mix Room (Ablator Preparation)
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT172 T130 - Cell P (LH2 External Wash and Prime)
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	EQT173 T140 - Cells M and N
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	GRP22 3131- Building 131 Emissions Group Cap
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	RLP35 3318 - Bldg. 318 Thermal Oxidizers Common Stack
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	TRT2 3001 - Bldg. 318 Thermal Oxidizer No. 1
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	TRT3 3002 - Bldg. 318 Thermal Oxidizer No. 2
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	TRT4 3004 - Bldg. 131 Thermal Oxidizer No. 1
GRP027	SLA PREPARATION & APPLICATION PROCESSES AREA	TRT5 3005 - Bldg. 131 Thermal Oxidizer No. 2

Relationships:

Subject Item	Relationship	Subject Item
EQT170 B130 - Mix Room (Ablator Preparation)	Vents to, when 3005 is operating	TRT5 3005 - Bldg. 131 Thermal Oxidizer No. 2
EQT170 B130 - Mix Room (Ablator Preparation)	Vents to, when 3004 is operating	TRT4 3004 - Bldg. 131 Thermal Oxidizer No. 1
EQT171 B131 - Mix Room (Ablator Preparation)	Vents to, when 3004 is operating	TRT4 3004 - Bldg. 131 Thermal Oxidizer No. 1
EQT171 B131 - Mix Room (Ablator Preparation)	Vents to, when 3005 is operating	TRT5 3005 - Bldg. 131 Thermal Oxidizer No. 2
EQT172 T130 - Cell P (LH2 External Wash and Prime)	Vents to, when 3004 is operating	TRT4 3004 - Bldg. 131 Thermal Oxidizer No. 1
EQT172 T130 - Cell P (LH2 External Wash and Prime)	Vents to, when 3005 is operating	TRT5 3005 - Bldg. 131 Thermal Oxidizer No. 2
EQT173 T140 - Cells M and N	Vents to, when 3004 is operating	TRT4 3004 - Bldg. 131 Thermal Oxidizer No. 1
EQT173 T140 - Cells M and N	Vents to, when 3005 is operating	TRT5 3005 - Bldg. 131 Thermal Oxidizer No. 2
GRP22 3131- Building 131 Emissions Group Cap	Controls emissions from	TRT5 3005 - Bldg. 131 Thermal Oxidizer No. 2
GRP22 3131- Building 131 Emissions Group Cap	Controls emissions from	TRT4 3004 - Bldg. 131 Thermal Oxidizer No. 1
RLP35 3318 - Bldg. 318 Thermal Oxidizers Common Stack	Controls emissions from	TRT2 3001 - Bldg. 318 Thermal Oxidizer No. 1
RLP35 3318 - Bldg. 318 Thermal Oxidizers Common Stack	Controls emissions from	TRT3 3002 - Bldg. 318 Thermal Oxidizer No. 2
TRT2 3001 - Bldg. 318 Thermal Oxidizer No. 1	Controls emissions from, when Bldg 318 Thermal Oxidizer No. 2, 3002 (TRT3), is idle	EQT150 EQ 300403 - Composite Curing Oven 8X8
TRT2 3001 - Bldg. 318 Thermal Oxidizer No. 1	Controls emissions from, when Bldg 318 Thermal Oxidizer No. 2, 3002 (TRT3), is idle	EQT151 EQ 300466 - Composite Curing Autoclave

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Relationships:

Subject Item	Relationship	Subject Item
TRT2 3001 - Bldg. 318 Thermal Oxidizer No. 1	Controls emissions from, when Bldg 318 Thermal Oxidizer No. 2, 3002 (TRT3), is idle	EQT152 EQ 300488 - Composite Curing Oven 12X12
TRT2 3001 - Bldg. 318 Thermal Oxidizer No. 1	Controls emissions from, when Bldg 318 Thermal Oxidizer No. 2, 3002 (TRT3), is idle	EQT153 SLA 4 - Composite Material Testing RM 119
TRT2 3001 - Bldg. 318 Thermal Oxidizer No. 1	Controls emissions from, when Bldg 318 Thermal Oxidizer No. 2, 3002 (TRT3), is idle	EQT154 SLA H - Chemical Store Room RM 133
TRT2 3001 - Bldg. 318 Thermal Oxidizer No. 1	Controls emissions from, when Bldg 318 Thermal Oxidizer No. 2, 3002 (TRT3), is idle	EQT155 SLA 9 - Air Cure RM 128
TRT2 3001 - Bldg. 318 Thermal Oxidizer No. 1	Controls emissions from, when Bldg 318 Thermal Oxidizer No. 2, 3002 (TRT3), is idle	EQT156 SLA A - SLA Heat Cure RM 134
TRT2 3001 - Bldg. 318 Thermal Oxidizer No. 1	Controls emissions from, when Bldg 318 Thermal Oxidizer No. 2, 3002 (TRT3), is idle	EQT157 SLA 2 - SLA Machine Shop RM 122b
TRT2 3001 - Bldg. 318 Thermal Oxidizer No. 1	Controls emissions from, when Bldg 318 Thermal Oxidizer No. 2, 3002 (TRT3), is idle	EQT158 SLA 3 - SLA Machine Shop RM 122A
TRT2 3001 - Bldg. 318 Thermal Oxidizer No. 1	Controls emissions from, when Bldg 318 Thermal Oxidizer No. 2, 3002 (TRT3), is idle	EQT159 SLA 5 - SLA Mold and Clean Room RM 127
TRT2 3001 - Bldg. 318 Thermal Oxidizer No. 1	Controls emissions from, when Bldg 318 Thermal Oxidizer No. 2, 3002 (TRT3), is idle	EQT160 SLA 7 - SLA Mold Hand Pack RM 130
TRT2 3001 - Bldg. 318 Thermal Oxidizer No. 1	Controls emissions from, when Bldg 318 Thermal Oxidizer No. 2, 3002 (TRT3), is idle	EQT161 SLA G - SLA Mold Room RM 144
TRT2 3001 - Bldg. 318 Thermal Oxidizer No. 1	Controls emissions from, when Bldg 318 Thermal Oxidizer No. 2, 3002 (TRT3), is idle	EQT162 SLA 6 - SLA Mix Room RM 129
TRT2 3001 - Bldg. 318 Thermal Oxidizer No. 1	Controls emissions from, when Bldg 318 Thermal Oxidizer No. 2, 3002 (TRT3), is idle	EQT163 SLA D - Pot/Gun Clean Room RM 146
TRT2 3001 - Bldg. 318 Thermal Oxidizer No. 1	Controls emissions from, when Bldg 318 Thermal Oxidizer No. 2, 3002 (TRT3), is idle	EQT164 SLA E - SLA Spray Prep Area RM 149
TRT2 3001 - Bldg. 318 Thermal Oxidizer No. 1	Controls emissions from, when Bldg 318 Thermal Oxidizer No. 2, 3002 (TRT3), is idle	EQT165 SLA 1 - Robot SLA Spray Booth RM 125
TRT2 3001 - Bldg. 318 Thermal Oxidizer No. 1	Controls emissions from, when Bldg 318 Thermal Oxidizer No. 2, 3002 (TRT3), is idle	EQT166 SLA 8 - Robot SLA Spray Booth RM 131
TRT2 3001 - Bldg. 318 Thermal Oxidizer No. 1	Controls emissions from, when Bldg 318 Thermal Oxidizer No. 2, 3002 (TRT3), is idle	EQT167 SLA B - Robot SLA Spray Booth RM 148

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Relationships:

Subject Item	Relationship	Subject Item
TRT2 3001 - Bldg. 318 Thermal Oxidizer No. 1	Controls emissions from, when Bldg 318 Thermal Oxidizer No. 2, 3002 (TRT3), is idle	EQT168 SLA C - Robot SLA Spray Booth RM 147
TRT2 3001 - Bldg. 318 Thermal Oxidizer No. 1	Controls emissions from, when Bldg 318 Thermal Oxidizer No. 2, 3002 (TRT3), is idle	EQT169 SLA F - Robot SLA Spray Booth RM 150
TRT3 3002 - Bldg. 318 Thermal Oxidizer No. 2	Controls emissions from, when Bldg 318 Tthermal Oxidizer No. 1, TRT2 is idle	EQT150 EQ 300403 - Composite Curing Oven 8X8
TRT3 3002 - Bldg. 318 Thermal Oxidizer No. 2	Controls emissions from, when Bldg 318 Tthermal Oxidizer No. 1, TRT2 is idle	EQT151 EQ 300466 - Composite Curing Autoclave
TRT3 3002 - Bldg. 318 Thermal Oxidizer No. 2	Controls emissions from, when Bldg 318 Tthermal Oxidizer No. 1, TRT2 is idle	EQT152 EQ 300488 - Composite Curing Oven 12X12
TRT3 3002 - Bldg. 318 Thermal Oxidizer No. 2	Controls emissions from, when Bldg 318 Tthermal Oxidizer No. 1, TRT2 is idle	EQT153 SLA 4 - Composite Material Testing RM 119
TRT3 3002 - Bldg. 318 Thermal Oxidizer No. 2	Controls emissions from, when Bldg 318 Tthermal Oxidizer No. 1, TRT2 is idle	EQT154 SLA H - Chemical Store Room RM 133
TRT3 3002 - Bldg. 318 Thermal Oxidizer No. 2	Controls emissions from, when Bldg 318 Tthermal Oxidizer No. 1, TRT2 is idle	EQT155 SLA 9 - Air Cure RM 128
TRT3 3002 - Bldg. 318 Thermal Oxidizer No. 2	Controls emissions from, when Bldg 318 Tthermal Oxidizer No. 1, TRT2 is idle	EQT156 SLA A - SLA Heat Cure RM 134
TRT3 3002 - Bldg. 318 Thermal Oxidizer No. 2	Controls emissions from, when Bldg 318 Tthermal Oxidizer No. 1, TRT2 is idle	EQT157 SLA 2 - SLA Machine Shop RM 122b
TRT3 3002 - Bldg. 318 Thermal Oxidizer No. 2	Controls emissions from, when Bldg 318 Tthermal Oxidizer No. 1, TRT2 is idle	EQT158 SLA 3 - SLA Machine Shop RM 122A
TRT3 3002 - Bldg. 318 Thermal Oxidizer No. 2	Controls emissions from, when Bldg 318 Tthermal Oxidizer No. 1, TRT2 is idle	EQT159 SLA 5 - SLA Mold and Clean Room RM 127
TRT3 3002 - Bldg. 318 Thermal Oxidizer No. 2	Controls emissions from, when Bldg 318 Tthermal Oxidizer No. 1, TRT2 is idle	EQT160 SLA 7 - SLA Mold Hand Pack RM 130
TRT3 3002 - Bldg. 318 Thermal Oxidizer No. 2	Controls emissions from, when Bldg 318 Tthermal Oxidizer No. 1, TRT2 is idle	EQT161 SLA G - SLA Mold Room RM 144
TRT3 3002 - Bldg. 318 Thermal Oxidizer No. 2	Controls emissions from, when Bldg 318 Tthermal Oxidizer No. 1, TRT2 is idle	EQT162 SLA 6 - SLA Mix Room RM 129
TRT3 3002 - Bldg. 318 Thermal Oxidizer No. 2	Controls emissions from, when Bldg 318 Tthermal Oxidizer No. 1, TRT2 is idle	EQT163 SLA D - Pot/Gun Clean Room RM 146

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Relationships:

Subject Item	Relationship	Subject Item
TRT3 3002 - Bldg. 318 Thermal Oxidizer No. 2	Controls emissions from, when Bldg 318 Tthermal Oxidizer No. 1, TRT2 is idle	EQT164 SLA E - SLA Spray Prep Area RM 149
TRT3 3002 - Bldg. 318 Thermal Oxidizer No. 2	Controls emissions from, when Bldg 318 Tthermal Oxidizer No. 1, TRT2 is idle	EQT165 SLA 1 - Robot SLA Spray Booth RM 125
TRT3 3002 - Bldg. 318 Thermal Oxidizer No. 2	Controls emissions from, when Bldg 318 Tthermal Oxidizer No. 1, TRT2 is idle	EQT166 SLA 8 - Robot SLA Spray Booth RM 131
TRT3 3002 - Bldg. 318 Thermal Oxidizer No. 2	Controls emissions from, when Bldg 318 Tthermal Oxidizer No. 1, TRT2 is idle	EQT167 SLA B - Robot SLA Spray Booth RM 148
TRT3 3002 - Bldg. 318 Thermal Oxidizer No. 2	Controls emissions from, when Bldg 318 Tthermal Oxidizer No. 1, TRT2 is idle	EQT168 SLA C - Robot SLA Spray Booth RM 147
TRT3 3002 - Bldg. 318 Thermal Oxidizer No. 2	Controls emissions from, when Bldg 318 Tthermal Oxidizer No. 1, TRT2 is idle	EQT169 SLA F - Robot SLA Spray Booth RM 150
TRT4 3004 - Bldg. 131 Thermal Oxidizer No. 1	Controls emissions from, when Bldg 131 Thermal Oxidizer No. 1, 3004 (TRT4), is idle	EQT170 B130 - Mix Room (Ablator Preparation)
TRT4 3004 - Bldg. 131 Thermal Oxidizer No. 1	Controls emissions from, when Bldg 131 Thermal Oxidizer No. 1, 3004 (TRT4), is idle	EQT171 B131 - Mix Room (Ablator Preparation)
TRT4 3004 - Bldg. 131 Thermal Oxidizer No. 1	Controls emissions from, when Bldg 131 Thermal Oxidizer No. 1, 3004 (TRT4), is idle	EQT172 T130 - Cell P (LH2 External Wash and Prime)
TRT4 3004 - Bldg. 131 Thermal Oxidizer No. 1	Controls emissions from, when Bldg 131 Thermal Oxidizer No. 1, 3004 (TRT4), is idle	EQT173 T140 - Cells M and N
TRT5 3005 - Bldg. 131 Thermal Oxidizer No. 2	Controls emissions from, when Bldg 131 Thermal Oxidizer No. 2, 3005 (TRT5), is idle	EQT170 B130 - Mix Room (Ablator Preparation)
TRT5 3005 - Bldg. 131 Thermal Oxidizer No. 2	Controls emissions from, when Bldg 131 Thermal Oxidizer No. 2, 3005 (TRT5), is idle	EQT171 B131 - Mix Room (Ablator Preparation)
TRT5 3005 - Bldg. 131 Thermal Oxidizer No. 2	Controls emissions from, When Twhen Bldg 131 Thermal Oxidizer No. 2, 3005 (TRT5), is idle	EQT172 T130 - Cell P (LH2 External Wash and Prime)
TRT5 3005 - Bldg. 131 Thermal Oxidizer No. 2	Controls emissions from, when Bldg 131 Thermal Oxidizer No. 2, 3005 (TRT5), is idle	EQT173 T140 - Cells M and N

Stack Information:

ID		Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperatur (oF)
ARE021	3090 - Ablator & Primer Application Bypass	37.39	28200	4	12.57	55	70
EQT127	1001 - Fume Hood, Tech Ops	33.33	1840	1.08	.92	38	70

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Stack Information:

ID		Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperatur (oF)
EQT128	1002 - Fume Hood, Production (Hand Work)	47.21	7450	1.83	2.63	39	74
EQT129	1119 - Bldg. 318 Air & Heat Cure Operations						70
EQT130	5001 - Heptane Storage Tank			5.33		12	70
EQT131	5003 - MEK Storage Tank			4		11	70
EQT132	5006 - Waste Solvent Tank			5.33		12	70
EQT133	5058 - MEK Storage Tank			6		10	70
EQT134	5061 - Deoxidizer Storage Tank			10.8		17.4	70
EQT135	5062 - Waste Solvent (MEK)			8.04		8.5	70
EQT136	5065 - Heptane Storage Tank			6		10	70
EQT137	5066 - Waste Solvent Storage Tank			5.58		18.33	70
EQT138	5002 - Xylene Storage Tank			2.54		4.22	70
EQT150	EQ 300403 - Composite Curing Oven 8X8	31.29	50100	5.83	26.69	40	300
EQT151	EQ 300466 - Composite Curing Autoclave	31.29	50100	5.83	26.69	40	300
EQT152	EQ 300488 - Composite Curing Oven 12X12	31.29	50100	5.83	26.69	40	300
EQT153	SLA 4 - Composite Material Testing RM 119	31.29	50100	5.83	26.69	40	300
EQT154	SLA H - Chemical Store Room RM 133	31.29	50100	5.83	26.69	40	300
EQT155	SLA 9 - Air Cure RM 128	31.29	50100	5.83	26.69	40	300
EQT156	SLA A - SLA Heat Cure RM 134	31.29	50100	5.83	26.69	40	300
EQT157	SLA 2 - SLA Machine Shop RM 122b	31.29	50100	5.83	26.69	40	300
EQT158	SLA 3 - SLA Machine Shop RM 122A	31.29	50100	5.83	26.69	40	300
EQT159	SLA 5 - SLA Mold and Clean Room RM 127	31.29	50100	5.83	26.69	40	300
EQT160	SLA 7 - SLA Mold Hand Pack RM 130	31.29	50100	5.83	26.69	40	300
EQT161	SLA G - SLA Mold Room RM 144	31.29	50100	5.83	26.69	40	300
EQT162	SLA 6 - SLA Mix Room RM 129	31.29	50100	5.83	26.69	40	300
EQT163	SLA D - Pot/Gun Clean Room RM 146	31.29	50100	5.83	26.69	40	300
EQT164	SLA E - SLA Spray Prep Area RM 149	31.29	50100	5.83	26.69	40	300
EQT165	SLA 1 - Robot SLA Spray Booth RM 125	31.29	50100	5.83	26.69	40	300
EQT166	SLA 8 - Robot SLA Spray Booth RM 131	31.29	50100	5.83	26.69	40	300
EQT167	SLA B - Robot SLA Spray Booth RM 148	31.29	50100	5.83	26.69	40	300
EQT168	SLA C - Robot SLA Spray Booth RM 147	31.29	50100	5.83	26.69	40	300
EQT169	SLA F - Robot SLA Spray Booth RM 150	31.29	50100	5.83	26.69	40	300
EQT170	B130 - Mix Room (Ablator Preparation)						
EQT171	B131 - Mix Room (Ablator Preparation)						
EQT172	T130 - Cell P (LH2 External Wash and Prime)						
EQT173	T140 - Cells M and N						
GRP022	3131- Building 131 Emissions Group Cap	25.23	40000	5.8	26.42	36	886
RLP035	3318 - Bldg. 318 Thermal Oxidizers Common Stack	31.29	50100	5.83	26.69	40	300
TRT002	3001 - Bldg. 318 Thermal Oxidizer No. 1	31.2	50100	5.83	26.69	40	300
TRT003	3002 - Bldg. 318 Thermal Oxidizer No. 2	31.2	50100	5.83	26.69	40	300
TRT004	3004 - Bldg. 131 Thermal Oxidizer No. 1	25	40000	5.8	26.42	36	886
TRT005	3005 - Bldg. 131 Thermal Oxidizer No. 2	25.9	44000	6	28.27	39	894

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Permit Number: 2720
Air - Minor (Synthetic) Modification

Fee Information:

Subj Item Id	Multiplier	Units Of Measure	Fee Desc
GRP027			1080 - Sandblasting or Chemical Cleaning of Metal: A) 10 or More Employees

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 9145 - Lockheed Martin - Space Systems Co
Activity Number: PER20020005
Permit Number: 2720
Air - Minor (Synthetic) Modification

All phases

	PM_{10}			SO_2			NOx			CO			VOC		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 021 3090													0.449	2.80	0.84
EQT 127 1001													0.11	2.61	0.07
EQT 128 1002													0.21	3.00	0.13
EQT 129 1119													0.91	2.80	0.91
EQT 130 5001													0.01	3.53	0.04
EQT 131 5003													0.01	2.90	0.04
EQT 132 5006													0.02	5.81	0.07
EQT 133 5058													0.02	6.13	0.09
EQT 135 5062													0.01	7.51	0.05
EQT 136 5065													0.01	3.53	0.04
EQT 137 5066													0.01	7.51	0.06
EQT 138 5002													< 0.001	0.14	< 0.01
GRP 022 3131	0.19	0.62	0.84	0.01	0.03	0.04	1.95	6.29	8.53	1.16	3.77	5.12	0.30	10.20	1.32
RLP 035 3318	0.21	0.69	0.90	0.01	0.03	0.04	2.10	7.01	9.22	1.26	4.21	5.53	0.54	6.00	2.36

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

PM10: 1.74 tons/yr

SO2: 0.08 tons/yr

NOx: 17.75 tons/yr

CO: 10.65 tons/yr

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 9145 - Lockheed Martin - Space Systems Co
Activity Number: PER20020005
Permit Number: 2720
Air - Minor (Synthetic) Modification

All phases

VOC: 6.02 tons/yr

Emission rates Notes:

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 9145 - Lockheed Martin - Space Systems Co
Activity Number: PER20020005
Permit Number: 2720
Air - Minor (Synthetic) Modification

All phases

	1,1,1-Trichloroethane			Chromium VI (and compounds)			Methyl ethyl ketone			Nitric acid			Total suspended particulate		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 021 3090							0.08	2.80	0.16						
EQT 127 1001							0.04	2.52	0.03						
EQT 128 1002							0.07	3.00	0.04						
EQT 131 5003							< 0.01	2.90	< 0.04						
EQT 132 5005							0.02	5.81	0.07						
EQT 133 5058							0.02	6.13	0.09						
EQT 134 5061										< 0.001	0.090	< 0.01			
EQT 135 5062							0.01	7.51	0.05						
EQT 137 5066							0.01	7.51	0.06						
GRP 022 3131				< 0.001	0.39	< 0.01	0.10	6.36	0.42						
RLP 035 3318	< 0.001	0.500	< 0.01				0.07	6.00	0.29						

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Parameter Totals:

Ethyl benzene: <0.50 tons/yr

Glycol ethers (Table 51.1): <0.60 tons/yr

Methyl ethyl ketone: 1.25 tons/yr

Methyl isobutyl ketone: <1.00 tons/yr

n-butyl alcohol: <1.00 tons/yr

Toluene: <0.90 tons/yr

Toxic air pollutants (TAP): 1.57 tons/yr

Xylene (mixed isomers): <0.90 tons/yr

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 9145 - Lockheed Martin - Space Systems Co
Activity Number: PER20020005
Permit Number: 2720
Air - Minor (Synthetic) Modification

All phases

Emission Rates Notes:

SPECIFIC REQUIREMENTS

AI ID: 9145 - Lockheed Martin - Space Systems Co
Activity Number: PER20020005
Permit Number: 2720
Air - Minor (Synthetic) Modification

ARE021 3090 - Ablator & Primer Application Bypass

1 Acetone <= 0.053 lb/hr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Hourly average
2 Acetone <= 5.00 lb/hr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Hourly maximum
3 Acetone <= 0.10 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

GRP022 *3131- Building 131 Emissions Group Cap*

4 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
5 Determine compliance with LAC 33:III.2123.A, C, and D by applying the test methods specified in LAC 33:III.2123.E.1 through E.6, as appropriate. [LAC 33:III.2123.E]
6 The combined annual natural gas consumption of thermal oxidizer No. 1, Emission Point 3004 (TRT4), and thermal oxidizer No. 2 (TRT5), Emission Point 3005. Natural gas <= 121.9 MM scf/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the combined annual natural gas consumption of thermal oxidizer No. 1, Emission Point 3004 (TRT4), and thermal oxidizer No. 2, Emission Point 3005 (TRT5), exceeds the maximum listed in this specific condition for any twelve consecutive month period. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: None specified
7 Natural gas recordkeeping by electronic or hard copy monthly. Keep records of the combined total natural gas consumption of the thermal oxidizer No. 1, Emission Point 3004, (TRT4) and thermal oxidizer No. 2, Emission Point 3005 (TRT5) each month, as well as the combined total natural gas consumption of the thermal oxidizer No. 1, Emission Point 3004 and thermal oxidizer No. 2, Emission Point 3005 for the last twelve months. Make records available for inspection by DEQ personnel. [LAC 33:III.501]

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8 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]
9 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]
10 Organic solvent recordkeeping by electronic or hard copy monthly. Keep records of the information specified in LAC 33:III.2123.F.1 through F.4 to verify compliance with LAC 33:III.2123. Maintain records for at least two years. [LAC 33:III.2123.F]
11 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]
12 Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited. [LAC 33:III.2901.D]
13 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G. [LAC 33:III.2901.F]
14 Carbon monoxide <= 10.65 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

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15 Nitrogen oxides <= 17.75 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

16 Particulate matter (10 microns or less) <= 1.74 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

17 Sulfur dioxide <= 0.08 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

18 VOC, Total <= 6.02 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

19 Ethyl benzene < 0.50 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

20 n-butyl alcohol < 1.00 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

21 Glycol ethers (Table 51.1) < 0.60 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

22 Methyl ethyl ketone <= 1.25 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

23 Methyl isobutyl ketone < 1.00 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

24 Toluene < 0.90 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

25 Xylene (mixed isomers) < 0.90 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

26 Toxic air pollutants (TAP): The total emission of any individual and the combined total of all Toxic air pollutants (TAP) from the contiguous facility shall not exceed 9.5 tons and 12.79 tons, respectively, during any twelve consecutive month period. These emissions shall be generated by the same method(s) used in calculating the initial estimates, or using the latest approved suitable methods (mass balance, emission factors, test results, etc.,...). Total emission of any TAP for which this permit does not list a facility-wide shall be limited, during any twelve consecutive month period, to the Minimum Emission Rate (MER) for that TAP as listed in Tables 51.1, or 51.2 of LAC 33:III.5112. Noncompliance with any or both of these limitations is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if either or both of these annual TAPs emissions total exceeds the corresponding maximum listed in this specific condition for any twelve consecutive month period. [LAC 33:III.501.C.6]

27 Toxic air pollutants (TAP) recordkeeping by electronic or hard copy monthly. Keep records of the total emissions of the individual, and the combined Toxic air pollutants (TAP) from the contiguous facility monthly, as well as the total for the twelve consecutive month period. Retain records of emissions calculations, at the source, or at an alternate location approved by DEQ, for a minimum of five years, and make available upon request for inspection by DEQ. [LAC 33:III.501.C.6]

28 Total Toxic air pollutants (TAP) <= 1.57 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

29 Toxic air pollutants (TAP): Use of any material containing a TAP listed in Tables 51.1 and 51.3 of LAC 33:III.5112 shall be permitted provided that its use does not cause the total annual emissions of TAPs to exceed 1.57 tons/yr. Total emission of any TAP for which this permit does not list a facility-wide shall be limited, during any twelve consecutive month period, to the Minimum Emission Rate (MER) for that TAP as listed in Table 51.1 of LAC 33:III.5112. These emissions shall be calculated by the same methods initially used in estimating these emissions, or using the latest approved suitable methods (mass balance, emission factors, test results, etc.,...). Noncompliance with any or both of these limitations is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if either or both of the annual total TAP exceeds the corresponding maximum listed in this specific condition for any twelve consecutive month period. [LAC 33:III.501.C.6]

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30 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]

31 Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]

32 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]

33 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A. [LAC 33:III.5105.A.4]

34 Submit initial annual emissions report (TEDI) to DEQ within 180 days of December 20, 1991. Identify the quantity of emissions of toxic air pollutants listed in Table 51.1 for the calendar year 1991. [LAC 33:III.5107.A.1]

35 Submit Annual Emissions Report (TEDI): Due annually, by the 1st of July, to the Office of Environmental Assessment, Air Quality Assessment Division, in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]

36 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:III.5107.A.3]

37 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.5107.B.1]

38 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:I.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:I.3923. [LAC 33:III.5107.B.2]

39 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services, SPOC, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:I.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:I.3923. [LAC 33:III.5107.B.3]

40 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii. [LAC 33:III.5107.B.4]

41 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]

42 Apply for a permit in accordance with LAC 33:III.5111.B, for any existing major source which is operating without a Louisiana Air Permit, or which is not fully permitted, or for any minor source that was once a major source. [LAC 33:III.5111.A.4]

43 Submit notification in writing: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, SPOC, not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up. [LAC 33:III.5113.A.1]

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44 Submit notification in writing: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, SPOC, within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source. [LAC 33:III.5113.A.2]

45 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III.5113.B.1]

46 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. [LAC 33:III.5113.B.3]

47 Provide emission testing facilities as specified in LAC 33:III.5113.B.4.a through e. [LAC 33:III.5113.B.4]

48 Analyze samples and determine emissions within 30 days after each emission test has been completed. [LAC 33:III.5113.B.5]

49 Submit certified letter: Due to the Office of Environmental Assessment, Air Quality Assessment Division, before the close of business on the 45th day following the completion of the emission test. Report the determinations of the emission test. [LAC 33:III.5113.B.5]

50 Submit notification: Due to the Office of Environmental Assessment, Air Quality Assessment Division, at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test. [LAC 33:III.5113.B.7]

51 Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence. [LAC 33:III.5113.C.1]

52 Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ. [LAC 33:III.5113.C.2]

53 Submit performance evaluation report: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 60 days of the monitoring system performance evaluation. [LAC 33:III.5113.C.2]

54 Submit notification in writing: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system is to begin. [LAC 33:III.5113.C.2]

55 Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems. [LAC 33:III.5113.C.3]

56 Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B. [LAC 33:III.5113.C.5.a]

57 Submit report: Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days. [LAC 33:III.5113.C.5.a]

58 Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS. [LAC 33:III.5113.C.5.d]

59 Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS. [LAC 33:III.5113.C.5.e]

60 Submit plan: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system. [LAC 33:III.5113.C.5]

61 Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ. [LAC 33:III.5113.C.7]

62 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority. [LAC 33:III.5611.A]

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63 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:III.5611.B]

64 Install air pollution control systems whenever practical, technologically possible, and economically feasible. When systems have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded.

The Michoud Assembly Facility (MAF) shall continue to comply with all provisions of the compliance plan CC92036. The plan's MACT calls for:
1. Reduction of trichloroethylene (TCE) emissions below the Minimum Emission Rate (MER), by chemical substitution and process elimination;
2. Elimination of methylene chloride emissions by chemical substitution and process elimination; and
3. Reduction of ammonia emissions below the MER. [LAC 33:III.905]

65 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]

66 All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A. [40 CFR 61]

RLP035 3318 - Bldg. 318 Thermal Oxidizers Common Stack

67 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified

68 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average

69 VOC, Total >= 80 % control efficiency. [LAC 33:III.2123.D.1]
Which Months: All Year Statistical Basis: None specified

70 Acetone <= 0.01 lb/hr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Hourly average

71 Acetone <= 0.05 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

72 Acetone <= 0.50 lb/hr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Hourly maximum

73 Natural gas recordkeeping by electronic or hard copy monthly. Keep records of the combined total natural gas consumption of thermal oxidizer No. 1, Emission Point 3001 and thermal oxidizer No. 2, Emission Point 3002 each month, as well as the combined total natural gas consumption of the thermal oxidizer No. 1, Emission Point 300 and thermal oxidizer No. 2, Emission Point 3002 for the last twelve months. Make records available for inspection by DEQ personnel. [LAC 33:III.501.C.6]

74 The combined annual natural gas consumption of thermal oxidizer No. 1, Emission Point 3001 (TRT2), and thermal oxidizer No. 2, Emission Point 3002 (TRT3). Natural gas <= 131.66 MM scf/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the combined annual natural gas consumption of thermal oxidizer No. 1, Emission Point 3001 (TRT2), and thermal oxidizer No. 2, Emission Point 3002 (TRT3) exceeds the maximum listed in this specific condition for any twelve consecutive month period. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: None specified

TRT002 3001 - Bldg. 318 Thermal Oxidizer No. 1

75 Test the thermal oxidizer No. 1, Emission Point 3001 (TRT2), destruction efficiency following procedures approved in advance by DEQ. Calculate the applicable emission limit using the destruction efficiency baseline established by DEQ and determine compliance following a calculation procedure also approved by DEQ

An emission test performed on June 29, 1999 demonstrated that a temperature at the afterburner of thermal oxidizer No. 1 greater than, or equal to 1400 F maintains the required destruction efficiency of at least 90% and was accepted and approved as such by LDEQ Office of Environmental Assessment, Technology Division . [LAC 33:III.2123.D.9]

76 Temperature monitored by technically sound method continuously. The temperature at the combustion chamber (afterburner) of thermal oxidizer No. 1, Emission Point 3001, shall be greater than or equal 1400 F. An emission test performed on June 29, 1999 at the request of LDEQ demonstrated that the thermal oxidizer meets the control requirements at this temperature (i.e., maintains a destruction efficiency >= 90%). The test report was submitted to, and approved by, LDEQ Office of Environmental Assessment, Technology Division. A temperature below the specified limit in this specific condition constitutes a violation and must be reported to LDEQ Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: None specified

77 Natural gas recordkeeping by electronic or hard copy monthly. Keep records of the total natural gas consumption of the thermal oxidizer No. 1, Emission Point 3001 (TRT2) each month, as well as the total natural gas consumption of the thermal oxidizer No. 1, Emission Point 3001 (TRT2) for the last twelve months. Make records available for inspection by DEQ personnel. [LAC 33:III.501.C.6]

78 Temperature recordkeeping by electronic or hard copy continuously. Keep record on site for at least two years for the temperature at the combustion chamber (afterburner) of thermal oxidizer No. 1, Emission Point 3001 (TRT2), to demonstrate compliance with the minimum temperature of 1400 F. Make records available to a representative of DEQ. [LAC 33:III.501.C.6]

79 Temperature >= 1400 F. This is the temperature at the combustion chamber (afterburner) of thermal oxidizer No. 1, Emission Point 3001. This temperature is a measure for the destruction efficiency of the thermal oxidizer. [LAC 33:III.501.C.6]

TRT003 3002 - Bldg. 318 Thermal Oxidizer No. 2

80 Test the thermal oxidizer No. 2, Emission Point 3002 (TRT3), destruction efficiency following procedures approved in advance by DEQ. Calculate the applicable emission limit using the destruction efficiency baseline established by DEQ and determine compliance following a calculation procedure also approved by DEQ. An emission test performed on August 22, 2000 demonstrated that a temperature at the afterburner of thermal oxidizer No. 2 greater than, or equal to 1400 F maintains the required destruction efficiency of at least 90% and was accepted and approved as such by LDEQ Office of Environmental Assessment, Technology Division. [LAC 33:III.2123.D]

81 Temperature monitored by technically sound method continuously. The temperature at the combustion chamber (afterburner) of thermal oxidizer No. 2, Emission Point 3002 (TRT3), shall be greater than or equal 1400 F. An emission test performed on August 22, 2000 at the request of LDEQ demonstrated that the thermal oxidizer meets the control requirements at this temperature (i.e., maintains a destruction efficiency >= 90%). The test report was submitted to and approved by LDEQ Office of Environmental Assessment, Technology Division. A temperature below the specified limit in this specific condition constitutes a violation and must be reported to LDEQ Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: None specified

82 Temperature recordkeeping by electronic or hard copy continuously. Keep record on site for at least two years for the temperature at the combustion chamber (afterburner) of thermal oxidizer No. 2, Emission Point 3002 (TRT3), to demonstrate compliance with the minimum temperature of 1400 F. Make records available to a representative of DEQ. [LAC 33:III.501.C.6]

83 Temperature >= 1400 F. This is the temperature at the combustion chamber (afterburner) of thermal oxidizer No. 2, Emission Point 3002. This temperature is a measure for the destruction efficiency of the thermal oxidizer. [LAC 33:III.501.C.6]

TRT003 3002 - Bldg. 318 Thermal Oxidizer No. 2

84 Natural gas recordkeeping by electronic or hard copy monthly. Keep records of the total natural gas consumption of the thermal oxidizer No. 2, Emission Point 3002 (TRT3) each month, as well as the total natural gas consumption of the thermal oxidizer No. 2, Emission Point 3001 (TRT3) for the last twelve months. Make records available for inspection by DEQ personnel. [LAC 33:III.501]

TRT004 3004 - Bldg. 131 Thermal Oxidizer No. 1

85 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified

86 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average

87 Reduce emissions, where feasible, by incineration, provided 90 percent of the carbon in the organic compounds being incinerated is oxidized to carbon dioxide (except as provided in LAC 33:III.2123.D); carbon adsorption of the organic compounds; or any other equivalent means as may be approved by DEQ. [LAC 33:III.2123.A]

88 VOC, Total >= 80 % control efficiency. [LAC 33:III.2123.D.1]
Which Months: All Year Statistical Basis: None specified

89 Determine compliance with LAC 33:III.2123.A, C, and D by applying the test methods specified in LAC 33:III.2123.E.1 through E.6, as appropriate. [LAC 33:III.2123.E]

90 Temperature recordkeeping by electronic or hard copy continuously. Keep record on site for at least two years for the temperature at the combustion chamber (afterburner) of thermal oxidizer No. 1, Emission Point 3004 (TRT4), to demonstrate compliance with the minimum temperature of 1400 F. Make records available to a representative of DEQ. [LAC 33:III.501.C.6]

91 Temperature monitored by technically sound method continuously. The temperature at the combustion chamber (afterburner) of thermal oxidizer No. 1, Emission Point 3004 (TRT4), shall be greater than or equal 1400 F. An emission test performed on July 29, 2001 at the request of LDEQ demonstrated that the thermal oxidizer meets the control requirements at this temperature (i.e., maintains a destruction efficiency >= 90%). The test report was submitted to, and approved by, LDEQ Office of Environmental Assessment, Technology Division. A temperature below the specified limit in this specific condition constitutes a violation and must be reported to LDEQ Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: None specified

92 Test the thermal oxidizer No. 1, Emission Point 3004 (TRT4), destruction efficiency following procedures approved in advance by DEQ. Calculate the applicable emission limit using the destruction efficiency baseline established by DEQ and determine compliance following a calculation procedure also approved by DEQ. An emission test performed on July 29, 2001 demonstrated that a temperature at the afterburner of thermal oxidizer No. 1 greater than, or equal to 1400 F maintains the required destruction efficiency of at least 90% and was accepted and approved as such by LDEQ Office of Environmental Assessment, Technology Division. [LAC 33:III.501.C.6]

93 Temperature >= 1400 F. This is the temperature at the combustion chamber (afterburner) of thermal oxidizer No. 1, Emission Point 3004 (TRT4). This temperature is a measure for the destruction efficiency of the thermal oxidizer. [LAC 33:III.501.C.6]

94 Natural gas recordkeeping by electronic or hard copy monthly. Keep records of the total natural gas consumption of the thermal oxidizer No. 1, Emission Point 3004 (TRT4) each month, as well as the total natural gas consumption of the thermal oxidizer No. 1, Emission Point 3004 (TRT4) for the last twelve months. Make records available for inspection by DEQ personnel. [LAC 33:III.501]

TRT005 3005 - Bldg. 131 Thermal Oxidizer No. 2

TRT005 **3005 - Bldg. 131 Thermal Oxidizer No. 2**

95 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified

96 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average

97 Reduce emissions, where feasible, by incineration, provided 90 percent of the carbon in the organic compounds being incinerated is oxidized to carbon dioxide (except as provided in LAC 33:III.2123.D); carbon adsorption of the organic compounds; or any other equivalent means as may be approved by DEQ. [LAC 33:III.2123.A]

98 VOC, Total >= 80 % control efficiency. [LAC 33:III.2123.D.1]
Which Months: All Year Statistical Basis: None specified

99 Determine compliance with LAC 33:III.2123.A, C, and D by applying the test methods specified in LAC 33:III.2123.E.1 through E.6, as appropriate. [LAC 33:III.2123.E]

100 . The temperature at the combustion chamber (afterburner) of thermal oxidizer No. 2, Emission Point 3005, shall be greater than or equal 1400 F. An emission test performed on May 8, 2002 at the request of LDEQ demonstrated that the thermal oxidizer meets the control requirements at this temperature (i.e., maintains a destruction efficiency >= 90%). The test report was submitted to, and approved by, LDEQ Office of Environmental Assessment, Technology Division. A temperature below the specified limit in this specific condition constitutes a violation and must be reported to LDEQ Office of Environmental Compliance, Enforcement Division Temperature monitored by technically sound method continuously. [LAC 33:III.2511]
Which Months: All Year Statistical Basis: None specified

101 Test the thermal oxidizer No. 2, Emission Point 3005 (TRT5), destruction efficiency following procedures approved in advance by DEQ. Calculate the applicable emission limit using the destruction efficiency baseline established by DEQ and determine compliance following a calculation procedure also approved by DEQ. An emission test performed on May 8, 2001 demonstrated that a temperature at the afterburner of thermal oxidizer No. 2, greater than, or equal to 1400 F maintains the required destruction efficiency of at least 90% and was accepted and approved as such by LDEQ Office of Environmental Assessment, Technology Division. [LAC 33:III.501.C.6]

102 Temperature recordkeeping by electronic or hard copy continuously. Keep record on site for at least two years for the temperature at the combustion chamber (afterburner) of thermal oxidizer No. 2, Emission Point 3005 (TRT5), to demonstrate compliance with the minimum temperature of 1400 F. Make records available to a representative of DEQ. [LAC 33:III.501.C.6]

103 Temperature >= 1400 F. This is the temperature at the combustion chamber (afterburner) of thermal oxidizer No. 2, Emission Point 3005 (TRT5). This temperature is a measure for the destruction efficiency of the thermal oxidizer. [LAC 33:III.501.C.6]

104 Natural gas recordkeeping by electronic or hard copy monthly. Keep records of the total natural gas consumption of the thermal oxidizer No. 2, Emission Point 3005 (TRT5), each month, as well as the total natural gas consumption of the thermal oxidizer No. 2, Emission Point 3005 (TRT5), for the last twelve months. Make records available for inspection by DEQ personnel. [LAC 33:III.501]