

## **APPENDIX B**

---

### **EXISTING SCAQMD PERMIT TO OPERATE SVE SYSTEM**



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  
21865 East Copley Drive, Diamond Bar, CA 91765

Title Page  
Facility I.D.#: 011887  
Revision #: 1  
Date: July 01, 2000

**FACILITY PERMIT TO OPERATE**

**NASA JET PROPULSION LAB  
4800 OAK GROVE DR  
PASADENA, CA 91109**

**NOTICE**

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.  
EXECUTIVE OFFICER

By *Carol Coy* FOR  
Carol Coy  
Deputy Executive Officer  
Engineering & Compliance



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  
21865 East Copley Drive, Diamond Bar, CA 91765

Section D  
Facility I.D.:  
Revision #:  
Date: July 01,

**FACILITY PERMIT TO OPERATE  
NASA JET PROPULSION LAB**

**SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 8 : AIR POLLUTION CONTROL</b>					
SCRUBBER, AIXTRON, MODEL NO. A2STE, WITH TWO ADSORPTION COLUMNS A/N: 279200	C128	D83 C131			
SCRUBBER, AIXTRON, MODEL NO. A2STE A/N: 279200	C129	D84 C131			
SCRUBBER, AIXTRON, MODEL NO. A2STE A/N: 279200	C130	C131			
SCRUBBER, VIRON, MODEL NO. VHS1081081RP, WITH MIST ELIMINATOR A/N: 279200	C131	D82 C127 C128 C129 C130			8-1, 8-2
<b>Process 9 : MISCELLANEOUS</b>					
CARBON ADSORBER, FOUR VESSELS, EACH CONTAINING 1800 LBS OF CARBON, EXTRACTION BLOWER, KNOCKOUT TANK, WITH ACTIVATED CARBON ADSORPTION A/N: 344402	C136				6-2, 71-1, 71-2, 71-3

\* (1) Denotes RECLAIM emission factor  
 (2) Denotes RECLAIM emission rate  
 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5)(SA)(SR) Denotes command and control emission limit  
 (6) Denotes air toxic control rule limit  
 (7) Denotes NSR applicability limit  
 (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
 (10) See Section J for NESHAP/MACT requirements  
 \*\* Refer to Section F and Q of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  
21865 East Copley Drive, Diamond Bar, CA 91765

Section D	P.
Facility I.D.:	C
Revision #:	
Date:	July 01

### FACILITY PERMIT TO OPERATE NASA JET PROPULSION LAB

#### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

1-10. The operator shall limit the material processed to no more than 0.3 gallon(s) per day.

For the purpose of this condition, material processed shall be defined as solvent usage (excluding salvaged solvent) based on a calendar monthly average.

[ Devices subject to this condition : D45]

1-11. The operator shall limit the material processed to no more than 18750 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as the maximum combined amount of gasoline dispensed from devices D61 and D69.

[ Devices subject to this condition : D61, D69]

6-1. The operator shall use this equipment in such a manner that the differential pressure being monitored, as indicated below, does not exceed 0.25 inches water column.

To comply with this condition, the operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the exhaust filters.

[ Devices subject to this condition : D38]

6-2. The operator shall use this equipment in such a manner that the flow being monitored, as indicated below, does not exceed 500 CFM.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate at the inlet to the treatment system.

[ Devices subject to this condition : C136]



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  
21865 East Copley Drive, Diamond Bar, CA 91765

Section D	Page
Facility I.D.	0.
Revision #:	
Date:	July 01.

### FACILITY PERMIT TO OPERATE NASA JET PROPULSION LAB

#### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

63-1. The operator shall limit emissions from this equipment as follows

CONTAMINANT	EMISSIONS LIMIT
VOC	Less than or equal to 2.25 LBS IN ANY ONE DAY

[ Devices subject to this condition : D38]

67-1. The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):  
Solvent usage, solvents purchased orders, and records of materials leaving the facility for reclamation or disposal. Such records shall be maintained for at least two years and made available to district personnel upon request.

[ Devices subject to this condition : D43, D45]

67-2. The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):  
Records which clearly identify and locate the methanol compatible storage tank and its piping, such records shall state the tank manufacturer and date of installation.

[ Devices subject to this condition : D61, D69]

67-3. The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):  
Monthly records of the total amount of 100 percent Arsine used. All records shall be prepared in a format which is acceptable to the AQMD

[ Devices subject to this condition : D83, D84]

71-1. The operator shall not operate this equipment if leaks exist between the blower outlet and the outlet of the treatment system.

[ Devices subject to this condition : C136]



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  
21865 East Copley Drive, Diamond Bar, CA 91765

Section D	Page
Facility I.D.:	01
Revision #:	
Date:	July 01, 2

### FACILITY PERMIT TO OPERATE NASA JET PROPULSION LAB

#### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

71-2. The operator shall not operate this equipment if the concentration of carbon tetrachloride (CCL4) in the vapor effluent stream from the treatment system exceeds 0.5 ppmv, as measured by a calibrated vapor analyzer or any other AQMD approved method. The operator shall replace or change the carbon vessels before this concentration is reached. CCL4 concentrations shall be measured at the inlet and outlet of the treatment system at least once every two weeks.

[ Devices subject to this condition : C136]

71-3. The operator shall not extract soil vapors from the wells of this equipment if the wells are not vented to the carbon vessels. Upon completion of the soil remediation operation, all wells and ducts shall be capped to prevent vapors from venting to the atmosphere.

[ Devices subject to this condition : C136]

109-1. The operator shall use, except for diesel transfer, the phase I vapor recovery system in full operation whenever this equipment is in use. This system shall be installed, operated and maintained to meet all CARB certification requirements.

[ Devices subject to this condition : D61, D69]

110-1. The operator shall use, except for diesel transfer, the phase II vapor recovery system in full operation whenever gasoline from this equipment is dispensed to motor vehicles as defined in Rule 461. This system shall be installed, operated and maintained to meet all CARB certification requirements.

[ Devices subject to this condition : D60, D68]

114-1. The operator shall not use this equipment in conjunction with any utility voluntary demand reduction program.

[ Devices subject to this condition : D1, D2, D4, D5, D15, D16, D19]

121-1. The operator shall replace seals, fittings, and piping with methanol-compatible materials before the dispensing system is charged with methanol.

[ Devices subject to this condition : D61, D69]