BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Engineering Division

Permit Handbook

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BAY AREA AIR QUALITY MANAGEMENT DISTRICT
PERMIT HANDBOOK

Table of Contents

INTRODUCTION 5

GENERAL APPLICATION GUIDANCE 6

AIR QUALITY PERMIT REQUIREMENTS 6
COMPLETENESS DETERMINATION 6

GENERAL EVALUATION GUIDANCE 9

COMPLETENESS DETERMINATION 9
EVALUATION REPORT 9
BACKGROUND 9
EMISSION CALCULATIONS 9
APPLICABLE REQUIREMENTS 10
PERMIT CONDITIONS 16

PERMIT CONDITION GUIDANCE 17

BACKGROUND 17
CONDITION BASIS CODES 17
TEMPLATE PERMIT CONDITIONS 17
Permit Conditions for Boilers, Steam Generators & Process Heaters, fired with fuel oil only: 20
Permit Conditions for Boilers, Steam Generators & Process Heaters, fired with natural gas and fuel oil as backup fuel: 21
Permit Conditions for Boilers, Steam Generators & Process Heaters, fired with natural gas only: 22
Permit Conditions for Boilers, Steam Generators & Process Heaters, fired with other gaseous fuel: 23
Permit Conditions for Emergency Stationary Diesel Engines: 24
Permit Conditions for Emergency Stationary Natural Gas Engines: 25
Permit Conditions for Portable Diesel Engine: 26
Permit Conditions for Bulk Loading: 28
Permit Conditions for Marine Loading/Offloading Facility: 29
Permit Conditions for Oil-Water Separator: 30
Permit Conditions for Petroleum Refinery Fugitive Emissions: 31
Permit Conditions for Natural Gas Production Facilities and Crude Oil Production Facilities: 32
Permit Conditions for Storage Tanks (general conditions): 37
Permit Conditions for Storage Tanks (additional conditions for internal or external floating roofs): 38
Permit Conditions for Vapor Recovery Systems: 39
Permit Conditions for Coating Operations (including Graphic Arts): 40
Permit Conditions for Mixing Vats for Coating, Adhesives, and Ink Manufacturing: 41
Permit Conditions for Screening Mill for Coating, Adhesives, and Ink Manufacturing: 42
Permit Conditions for Solvent Cleaning Operations: 43
Permit Conditions for Wave Solder Flux Applicator: 44
Permit Conditions for Flexible and Rigid Disc Manufacturing: 45
Permit Conditions for Semiconductor Manufacturing Operations: 46
Permit Conditions for Anaerobic Digester: 47
Permit Conditions for Wastewater Treatment Facilities: 48
Permit Conditions for End of Remediation Project (for Airstripping or Soil Vapor Extraction): 49
Permit Conditions for Combined Airstripping and Soil Vapor Extraction Operation Using Thermal or Catalytic Oxidizer or Activated Carbon Vessels: 50
Permit Conditions for Portable Airstripping or Soil Vapor Extraction Operation Using Thermal Oxidizer: 53
Permit Conditions for Decorative Chrome Plating (or operations using less than 500,000 amp-hr/yr): 55
Permit Conditions for Hard Chrome Plating: 57
Permit Conditions for Trivalent Chrome Plating: 60
Permit Conditions for Sterilizer w/Catalytic Oxidation: 61

Permit Conditions for Non-Halogenated Solvent Dry Cleaning: 62
Permit Conditions for Perchloroethylene Dry Cleaning: 63
Permit Conditions for Abrasive Blasting (BACT with abatement): 68
Permit Conditions for Abrasive Blasting (non-BACT with abatement): 69
Permit Conditions for Abrasive Blasting (non-BACT with no abatement): 70
Permit Conditions for Asphalt Drum Mixer: 71
Permit Conditions for Coffee Roasting Operations: 72
Permit Conditions for Cooling Towers: 74
Permit Conditions for Concrete Batch Plants: 75
Permit Conditions for Animal Crematories: 76
Permit Conditions for Human Crematories: 78
Permit Conditions for Crushing and Grinding Operations: 80
Permit Conditions for Miscellaneous Organic Operations: 81
Permit Conditions for Portable Equipment (to be included with source specific conditions): 82
Permit Conditions for Polyester Resin Manufacturing: 83
Permit Conditions for Gel Coat and Resin Application: 84
Permit Conditions for Tub Grinder (powered by electricity & stationary): 85
Permit Conditions for Tub Grinder w/Diesel Engine (Stationary): 86
Permit Conditions for Portable Tub Grinder w/Portable Diesel Engine: 87
Permit Conditions for Baghouse: 89
Permit Conditions for Carbon Abatement: 90
Permit Conditions for RACT for IC Engines (> 250 HP): 91
Permit Conditions for Source Testing: 92
Permit Conditions for “Allowable Temperature Excursions” of Thermal Oxidizers: 93
Permit Conditions for Thermal Oxidizers: 94
Permit Conditions for RACT for Thermal Oxidizers (> 7.5 MMBTU/hr): 95
Permit Conditions for Water Spray System with throughput limit: 96

SOURCE-SPECIFIC GUIDANCE 97

1. GENERAL INSTRUCTIONS TO USING THESE GUIDELINES 99
2.1 BOILERS, STEAM GENERATORS & PROCESS HEATERS 100
2.3.1 STATIONARY DIESEL ENGINES 103
2.3.2 STATIONARY NATURAL GAS ENGINES 107
2.3.3 PORTABLE DIESEL ENGINES 109
2.4.1 MICRO TURBINES (25-500 KW) 113
3.1 BULK LOADING FACILITIES 116
3.2 GASOLINE DISPENSING FACILITIES 119
3.3 OIL-WATER SEPARATORS 121
3.4 PETROLEUM REFINERY FUGITIVE EMISSIONS 123
3.5 NATURAL GAS FACILITIES AND CRUDE OIL FACILITIES 126
4.0 ORGANIC LIQUID STORAGE TANK 132
5.1 SPRAY BOOTHS & SPRAY GUNS 134
5.2 COATING, ADHESIVES, AND INK MANUFACTURING 138
5.3 GRAPHIC ARTS PRINTING AND COATING OPERATIONS 141
6.1 COLD SOLVENT CLEANING 143
6.2 VAPOR SOLVENT & CONVEYORIZED SOLVENT CLEANING 145
6.3 WIPE CLEANING OPERATION 148
7.2 ELECTRONIC ASSEMBLY AND WAVE SOLDERING OPERATONS 150
7.3 FLEXIBLE AND RIGID DISC MANUFACTURING 153
7.4 SEMICONDUCTOR FABRICATION 155
8.2 WASTEWATER TREATMENT FACILITIES 157
9.1 AIRSTRIPPING 162
9.2 SOIL VAPOR EXTRACTION 166
10.1 CHROME PLATING (HEXAVALENT) 170
10.2 ETHYLENE OXIDE STERILIZERS 173
10.4 NON-HALOGENATED SOLVENT DRYCLEANING 176
10.5 SYNTHETIC SOLVENT DRYCLEANING 178
11.1 ABRASIVE BLASTING OPERATIONS 180
11.2 ASPHALT (HOT MIX) FACILITIES 183
11.3 COFFEE ROASTING OPERATIONS 196
11.4 COOLING TOWERS 199

11.5 CONCRETE BATCH PLANTS 204
11.6 CREMATORIES 211
11.7 CRUSHING AND GRINDING 215
11.9 MISCELLANEOUS ORGANIC OPERATIONS 219
11.10 PORTABLE EQUIPMENT 222
11.11 POLYESTER RESIN MANUFACTURING 223
11.12 POLYESTER RESIN OPERATIONS 225
11.13 TUB GRINDERS 236

LIST OF APPENDICES 237

A. PERMIT EXEMPTION GUIDANCE 238
B. DATA FORM GUIDANCE 265
C. FEE CALCULATION GUIDANCE 292
D. COMPLETENESS DETERMINATION CHECKLIST 299
E. EVALUATION REPORT TEMPLATE GUIDANCE 301
F. FREQUENTLY ASKED QUESTIONS – PERMITTING & OTHER 308

period of time, a project shall include those new or modified sources of TACs at a facility that have been permitted within the two-year period immediately preceding the date a complete application is received, unless the applicant demonstrates to the satisfaction of the APCO that construction or modification of the sources included in the current application was neither (1) a reasonably foreseeable consequence of the previous project, nor (2) a critical element or integral part of the previous project. If the estimated project emission of any identified TAC exceeds its respective acute or chronic trigger level listed in Table 2-5-1 of Regulation 2-5, then an HRSA is required for the project.

The permit evaluator should calculate TAC emission rates, including annual average emission rates, and maximum hourly emission rates (if the TAC has an acute trigger level) to determine if an HRSA is required. If an HRSA is required, the permit evaluator should submit a completed HRSA form with accompanying facility plot plan and local street map indicating the location of the facility, the source location(s), any surrounding building(s), application information from other new or modified sources of TACs at the facility that have been permitted within the two-year period immediately preceding the date the complete application was received, and a transmittal interoffice memorandum to the District's Toxics Section Manager. Regulation 2-5 dictates that the cancer risk is acceptable if it is below one in a million, or if TBACT is applied and the cancer risk is below 10 in a million; the non-cancer risk is acceptable if the chronic hazard index is less than or equal to 0.2, or if TBACT is applied and the chronic hazard index is less than or equal to 1.0, and the acute hazard index is less than or equal to 1.0. The District permit evaluator should summarize the risk assessment in the evaluation report. Unless the cancer and non-cancer risks are acceptable in accordance with Regulation 2-5, a permit application cannot be approved.

Air Toxics Control Measures (ATCM)
The permit handbook chapters will identify any applicable ATCM that may apply for each specific source type in each source category.

New Source Performance Standards (NSPS)
Section 111 of the Clean Air Act, "Standards of Performance of New Stationary Sources," requires EPA to establish federal emission standards for source categories, which cause or contribute significantly to air pollution. These standards are intended to promote use of the best air pollution control technologies, taking into account the cost of such technology and any other non-air quality, health, and environmental impact and energy requirements. These standards apply to sources, which have been constructed or modified since the proposal of the standard. Since December 23, 1971, the Administrator has promulgated nearly 75 standards. These standards can be found in the Code of Federal Regulations at Title 40 (Protection of Environment), Part 60 (Standards of Performance for New Stationary Sources).

The permit handbook chapters will identify any applicable NSPS that may apply for each specific source type in each source category.

National Emissions Standards for Hazardous Air Pollutants (NESHAP)
The Federal Clean Air Act requires the Environmental Protection Agency (EPA) to regulate emissions of toxic air pollutants from a published list of industrial sources referred to as "source categories." As required under the Act, EPA has developed a list of source categories that must meet control technology requirements for these toxic air pollutants. The EPA is required to develop NESHAP for all industries that emit one or more of the pollutants in significant quantities in 40 CFR 63. In addition, in 40 CFR 61, they also adopted NESHAPs based on control of certain types of hazardous pollutants.

The permit handbook chapters will identify any applicable NESHAP that may apply for each specific source type in each source category. These standards are also called Maximum Achievable Control Technology (MACT) standards. Most apply in the event that the facility is a Title V facility. However, there are a few MACT standards that apply to small sources. The source-specific permit handbook chapters will identify these cases.