

Chapter 8 - Air Pollution Control (REDACTED)

8.1 Applicability

This instruction is applicable to all civil servant and contractor employees, and partner tenant personnel at Ames Research Center (Ames), Moffett Federal Airfield (MFA), and Crows Landing Flight Facility.

8.2 Purpose

This chapter prescribes the roles and responsibilities for the construction and operation of new and existing facilities at Ames that may generate airborne contaminants to the atmosphere.

8.3 Policy

It is the policy of the Ames Research Center to

1. Comply with all pertinent statutory and regulatory requirements and Executive Orders related to air pollution control. Ames recognizes and will comply with applicable Federal, state, and local regulations.
2. Consult on the best techniques and methods to control air pollution, as appropriate, with Federal, state, and local agencies, including:
 - U. S. Environmental Protection Agency (EPA)
 - California Air Resources Board (CARB)
 - Bay Area Air Quality Management District (BAAQMD)
 - San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD)
3. Promote employee awareness of air pollution control through training and active information dissemination.
4. Inform the surrounding communities of the air emissions issues at Ames.

8.4 Authority

All relevant Federal, state, and local laws and regulations pertaining to the management of air pollution, including but not limited to:

1. Clean Air Act (CAA), Public Law 101-549, amended November 15, 1990
2. 40 Code of Federal Regulations (CFR) Parts 50 to 99 - Air Programs Regulations
3. Executive Order 12088, amended by Executive Order 12580, Federal Compliance with Pollution Control Standards
4. State laws and regulations related to air pollution control:
5. California Clean Air Act (CCAA)
6. California Health and Safety Code, Sections 39000 to 44384
7. California Code of Regulations (CCR), Title 17, Public Health
8. CCR, Title 26, Toxics
9. Rules and Regulations of the State Implementation Plan (SIP) of the nine-county-area agency, BAAQMD

10. Rules and Regulations of the eight-county-area agency, SJVUAPCD
11. NASA policy on use of chlorofluorocarbon (CFC) and halon compounds, June 26, 1990
12. Executive order 13148, Greening the Government through Environmental Management.
13. Executive Order 13123, Greening the Government through Efficient Energy Management.

8.5. Responsibilities

8.5.1 Operators of Air Pollution Sources

1. Conduct operations, in compliance with all applicable regulations, requirements, and permit conditions. Current permit conditions are included in Appendix A. Examples of types of air pollution sources are also included in Appendix A.
2. Maintain and make available required records (see Appendix B), as requested by the Environmental Office.
3. Inform the Environmental Office of any new/existing/changed operations that generate any air pollutants.
4. Submit documents/records to the Environmental Office for permit applications.
5. Keep all operating records for a minimum of two years.
6. Report all breakdowns of air pollution control equipment to the Environmental Office immediately.
7. Report all failures to comply with permit conditions to the Environmental Office immediately.
8. Provide data to the Environmental Office input so that plans and reports can be completed on time.
9. Provide access and points of contact for inspections, assessments, and audits by the Environmental Office.
10. Implement corrective actions, if required.
11. Attend training, as required.

8.5.2 Environmental Services Office, Code QE (Environmental Office)

1. Identify laws and regulations to which Ames must adhere.
2. Develop Ames policy to implement the identified laws and regulations.
3. Provide oversight and direction.
4. Provide consultation, services, and support.
5. Determine whether operations have regulated air pollution sources.
6. Prepare and submit the annual emission report to the BAAQMD.
7. Prepare, maintain, and submit permits and pay fees.
8. Review Purchase Requests (PRs) for air pollutants, air pollution sources, and abatement devices.
9. Serve as technical point of contact for regulatory agency inspections.

8.5.3 Line Management and Contracting Officer's Technical Representatives

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8.6 Definitions

8.6.1 Air Pollutant

Any material that, when emitted, causes or tends to cause the degradation of air quality. Such material includes, but is not limited to, smoke, charred paper, dust, soot, grime, carbon, fumes, gases, odors, particulate matter, acids, solvents, fuels, paints, or any combination thereof.

8.6.2 Air Pollution Control Equipment

Any equipment, the operation of which has as its primary purpose a significant reduction in either the emission of air contaminants or the effects of such emissions.

8.6.3 BAAQMD

Bay Area Air Quality Management District.

8.6.4 Breakdown (Malfunction)

Any unforeseeable failure or malfunction of any air pollution control equipment or operating equipment that causes a violation of any emission standard or limitation prescribed by the BAAQMD, California or Federal rules, regulations, or laws.

8.6.5 British Thermal Unit (BTU)

The amount of heat required to raise the temperature of one pound of water from 59°F to 60°F at one atmosphere.

8.6.6 CCR

California Code of Regulations

8.6.7 CFR

Code of Federal Regulations

8.6.8 Horsepower (HP)

The maximum horsepower rating at maximum revolutions per minute (rpm) specified for the engine by the manufacturer or indicated on the engine nameplate.

8.6.9 Operating Day

24 hours from midnight to midnight.

8.6.10 Organic Compound

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8.6.11 Organic Compound, Nonprecursor (NPOC)

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8.6.12 Organic Compound, Precursor

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8.6.13 Toxic Air Contaminants (TACs)

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8.6.14 VOC

Volatile Organic Compound.

8.7 Requirements

Operate air pollution sources in compliance with applicable laws, rules, regulations, and permit conditions. See Appendix D for a Table of Contents from the BAAQMD Rules and Regulations. For specific information, contact the Environmental Office.

8.8 Metrics

Percent of sources that have permits. Goal: 100%

Percent of noncompliances resolved within 30 days. Goal: 100%

8.9 Source of Additional Information or Assistance

Environmental Office (Code QE, REDACTED)

8.10 Appendices

8.10.1 Appendix A: List of Permitted Sources

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8.10.2 Appendix B: Air Pollutant Recording Forms

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8.10.3 Appendix C: Toxic Air Contaminant (TAC) Trigger Levels

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8.10.4 Appendix D: Table of Contents from BAAQMD Rules and Regulations

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