



Massachusetts Department of Environmental Protection  
Bureau of Waste Prevention – Air Quality

# **BWP AQ 25 Emission Standards for Power Plants – Emission Control Plan (ECP) Instructions and Supporting Materials**

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## **Table of Contents**

- introduction
- permit fact sheet
- instructions for applying

## **Introduction**

MassDEP *Permit Applications*, as well as *Instructions & Support Materials*, are available for download from the MassDEP Web site at [mass.gov/dep](http://mass.gov/dep) in two file formats: Microsoft Word™ and Adobe Acrobat PDF™. Either format allows documents to be printed.

*Instructions & Support Materials* files in Microsoft Word™ format contain a series of documents that provide guidance on how to prepare a permit application. Although we recommend that you print out the entire package, you may choose to print specific documents by selecting the appropriate page numbers for printing.

*Permit Applications* in Microsoft Word™ format must be downloaded separately. Users with Microsoft Word™ 97 or later may complete these forms electronically.

Permitting packages in Adobe Acrobat PDF™ format combine *Permit Applications* and *Instructions & Support Materials* in a single document. Adobe Acrobat PDF™ files may only be viewed and printed without alteration. *Permit Applications* in this format may not be completed electronically.



# **BWP AQ 25 Emission Standards for Power Plants – Emission Control Plan (ECP) Permit Fact Sheet**

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## **1. What is the purpose of this Emission Control Plan?**

The ECP is the instrument used by facilities to demonstrate to Department (MassDEP) and all interested parties, including the general public, how they are going to comply with specific emission standards in a regulation. There will be an opportunity for public comment upon each ECP application. This process enhances environmental protection by allowing for comments from various interests, and incorporating relevant comments as well as the regulatory requirements into the final ECP Approval. The application material submitted to the MassDEP and the plan approval letter become the approved ECP.

## **2. Who must apply?**

An ECP is required for affected facilities subject to 310 CMR 7.29. Affected facilities are those which emitted greater than 500 tons of SO<sub>2</sub> and 500 tons of NO<sub>x</sub> during calendar years 1997, 1998 or 1999 and include any unit which is a fossil fuel fired boiler or indirect heat exchanger that: (1) is regulated by 40 CFR Part 72 (Federal Acid Rain Program); (2) serves as a generator with a nameplate capacity of 100 MW or more; (3) was permitted prior to August 7, 1977; and (4) had not subsequently received a Plan Approval pursuant to 310 CMR 7.00: Appendix A or a permit pursuant to 40 CFR Part 52, Prevention of Significant Deterioration, prior to October 31, 1998.

## **3. What other requirements should be considered when applying for this ECP?**

The future submittal of a 310 CMR 7.02 plan application may be necessary for some modifications that may be undertaken at affected facilities to comply with the emission standard requirements of 310 CMR 7.29. If a plan approval is required pursuant to 310 CMR 7.02, an administratively complete application must be submitted on or before January 1, 2003. The Department strongly recommends that facilities planning to make modifications which will require the submittal of a plan application pursuant to 310 CMR 7.02 to submit said applications as soon as possible.

## **4. What are the application fees?**

There is no application fee for BWP AQ 25.

## **5. What is the Primary Permit Location? What is the Reserve Copy Location?**

Primary Permit Location:  
**Department of Environmental Protection**  
\_\_\_\_\_ \* **Regional Office**  
**BWP Permitting Program, Air Quality Section**

Reserve Copy Locations:  
**There are no Reserve Copy  
Locations for these permits.**

\* Find your region: <http://mass.gov/dep/about/region/findyour.htm>

BWP AQ 25 permit applications should be submitted in duplicate to the MassDEP Regional Office responsible for the community in which the affected facility is located.

If approved, MassDEP stamps one copy and returns it to you along with the ECP Final Approval for your records. In this manner, MassDEP and the applicant have identical copies of the approved submittal and the Final ECP Approval. Supplemental forms may be required when completing the ECP. Supplemental forms BWP AQ SFC-1, BWP AQ SFC-3 and BWP AQ SFC-6 are included in this application kit.



## **BWP AQ 25 Emission Standards for Power Plants – Emission Control Plan (ECP) Permit Fact Sheet**

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### **6. What are the timelines?**

Because there is no fee associated with a BWP AQ 25, these applications are not subject to timelines.

### **7. What is the annual compliance fee?**

The amount of the annual compliance assurance fee depends upon the facility's potential emissions. Please consult Table 4.03 (Air Quality Section) of 310 CMR 4.03 for more information. If you fail to pay the bill for your annual compliance assurance fee, your permit to operate could be suspended or revoked.

### **8. How long is this permit in effect?**

The permit is in effect until the facility approved in this plan is substantially reconstructed or altered, at which time a new approval may be required.

### **9. How can I avoid the most common mistakes made in applying for this permit?**

- a. Answer all questions on the application form and indicate "N/A" (not applicable) where appropriate.
- b. Be sure to have a legally responsible company official sign the application.
- c. Submit two copies of the application to the regional office (one of which must contain an original signature).
- d. Submit the BWP AQ 25 Form and a copy of the MassDEP transmittal Form to:

**Department of Environmental Protection  
P.O. Box 4062  
Boston, MA 02211.**

### **10. What are the regulations that apply to this permit? Where can I get copies?**

These regulations include, but are not limited to:

- a. Air Quality Control Regulations, 310 CMR 6.00 - 8.00.
- b. Administrative Penalty Regulations, 310 CMR 5.00.

These may be purchased at:

**State House Bookstore  
Room 116  
Boston, MA 02133**

**State House West Bookstore  
436 Dwight Street  
Springfield, MA 01103**



## **BWP AQ 25 Emission Standards for Power Plants – Emission Control Plan (ECP)**

# **Instructions for Applying**

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Emission Control Plan For Owners or Operators Subject To Emission Standards for Power Plants Regulation Under 310 CMR 7.29.

### **SECTION A – Facility Information**

1. Facility Information - Give the complete name and address of the facility.
2. Facility Contact Person - Indicate the person responsible for the day-to-day operations of the facility (plant manager for example).
3. Facility Owner - This can be a person or a corporation.
4. Compliance Contact – Company contact responsible for compliance with 310 CMR 7.29

### **SECTION B – Facility Description**

Facility Description – A list of units at the affected facility that will be used to demonstrate compliance with 310 CMR 7.29(5), including which units will be included in calculating historical actual emissions.

### **SECTION C – Description of Affected Facility Units:**

This section shall be completed for each unit.

1. Unit Designation - Indicate the designation of each unit (e.g. Unit 1 or Unit A)
2. Manufacturer - List the manufacturer of the unit.
3. Model Number - List the model number of the unit.
4. Maximum Continuous Rated Design Capacity - Indicate in parts a and b the fuel heat input and megawatt output, as applicable.
  - a. Fuel heat input (Million British Thermal Units per hour (MMBtu/hr))
  - b. Electrical output (Megawatts (MW))
5. Date of installation - Indicate the date of installation of the unit.

### **SECTION D – Compliance Path**

Choose yes or no for the following questions:

1. Will this affected facility comply with the emission standards in 310 CMR 7.29(5) by repowering a unit subject to 40 CFR Part 72 at the affected facility?
2. Will any unit at this affected facility be required to receive a plan approval pursuant to 310 CMR 7.02 for construction, substantial reconstruction or alteration of a facility subject to 40 CFR Part 72 for the purpose of compliance with 310 CMR 7.29?

If yes, identify which units.

**Note:** 310 CMR 7.29(6)(a)1. requires affected facilities to submit an emission control plan (ECP) for Department approval on or before January 1, 2002, regardless of the compliance path chosen.

### **SECTION E – Emissions Control for Nitrogen Oxides, Sulfur Dioxides, Particulate Matter, Mercury, Carbon Dioxide, and Carbon Monoxide (Complete Section E for each unit).**



**BWP AQ 25 Emission Standards for Power Plants –  
Emission Control Plan (ECP)**

**Instructions for Applying**

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**SECTION F – Compliance Methods**

A description of how the facility will comply with the emission standards contained in 310 CMR 7.29(5) for:

1. NO<sub>x</sub>
2. SO<sub>2</sub>
3. CO<sub>2</sub> (e.g. sequestration, off-site reductions, on-site efficiency improvements)

This description should include a unit-by-unit description of actions to be taken for each pollutant.

**SECTION G – Optimization Section**

A description of how emission reduction measures implemented to achieve reductions in one pollutant will optimize reductions of other pollutants, for example mercury and CO<sub>2</sub>.

**SECTION H – Proposed Schedule**

Submit a proposed schedule with interim milestones for each activity leading to compliance with the requirements in 310 CMR 7.29(5). Such information shall include, but not be limited to, sufficient information to allow MassDEP to consult with the Division of Energy Resources and the Department of Telecommunications and Energy, to address any concerns with potential impacts to the reliability of the New England power system.

**SECTION I – Signature of Facility Contact person Responsible for Compliance with 310 CMR 7.29.**

The signature of the facility contact person responsible for compliance with 310 CMR 7.29.

**Most MassDEP permit application packages  
are available from MassDEP's web site at  
[www.mass.gov/dep](http://www.mass.gov/dep)**

This information is available in alternative format upon request to MassDEP's ADA Coordinator, BAS/HR, 4th Floor. One Winter Street, Boston, MA 02108