

New York State Department of Environmental Conservation
Facility DEC ID: 9293800003



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 9-2938-00003/00002
Effective Date: 04/30/2002 Expiration Date: 04/30/2007

Permit Issued To: AES SOMERSET LLC
7725 LAKE RD
BARKER, NY 14012-9600

Contact: RICHARD PETERSEN
BUSINESS SERVICES TEAM
7725 LAKE ROAD
BARKER, NY 14012

Facility: AES SOMERSET LLC
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BARKER, NY 14012

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BARKER, NY 14012

Description:

AES Somerset LLC, located at 7725 Lake Road in the Town of Somerset is a 691 megawatt (MW) coal fired electric generating facility originally permitted and operating under the subpart Da New Source Performance Standards. Associated with the boiler is a coal handling system (unloading, conveying etc.), No. 2 or kerosene oil system (tanks and piping) used for startup and flame stabilization, limestone handling system (unloading and conveying etc.), and other miscellaneous sources and activities related to the operation of an electric generating station.

Emission Unit S00001, consists of one boiler feeding steam to one turbine generator. The boiler, emission source B0001, is a Babcock and Wilcox balanced draft, single reheat, pulverized coal, dry bottom radiant boiler. The steam generator is designed for a maximum continuous rating of 4,845,000 lb/hr, 1005 deg F and 2620 psig steam at the superheater outlet. The boiler has 48 burners in an opposed wall-fired configuration with a heat release rate of 76,400 Btu/hr/ft² at maximum continuous rating. Emission source B0001 is equipped with an electrostatic precipitator (ESP) to control particulate matter emissions. The precipitator is equipped with an energy management system that, based on feedback from the opacity monitor, adjusts the power levels in the precipitator to maintain the desired opacity. Sulfur Dioxide emissions are controlled by a flue gas desulfurization (FGD) system. Nitrogen oxide emissions are controlled through the use of low-Nox burners installed on the boiler, good combustion practices, and a Selective Catalytic Reduction (SCR) unit installed in front of the ESP. Emissions from unit S00001 exit the main 625 foot stack, emission point 00001.



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Somerset has two oil fired auxiliary boilers, emission sources B000A and B000B, each with a design heat input of 195 million Btu/hr. The auxiliary boilers are used to provide steam for a cold start of the main unit. The boilers are also used for heating the buildings and for maintaining essential equipment in a hot condition when the main boiler is not operating. These boilers burn No. 2 fuel oil, sometimes mixed with kerosene, as their fuel with combustion gases exhausting at a 300 foot stack, emission point, 0001A. These are no specific fuel oil (other than maximum sulfur content of 1.5% by weight) or kerosene controls on these small package boilers for particulate matter, sulfur dioxide or nitrogen oxide emissions.

The facility operation is permitted primarily under the following regulations:

- 1) 6 NYCRR Part 201-6 requires the facility to obtain a Title V permit.
- 2) 6 NYCRR Part 225-1 fuel composition and use - sulfur limitations.
- 3) 6 NYCRR Part 227 regulates stationary combustion sources.
- 4) 40 CFR 52 Subpart A.21 prevention of significant deterioration of air quality
- 5) 40 CFR 60 Subpart Da standards of performance for electric utility steam generating units for which construction commenced after September 18, 1978.

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

Permit Administrator: RICHARD P. SWEENEY
270 MICHIGAN AVE
BUFFALO, NY 14203-2999

Authorized Signature: _____ Date: ____ / ____ / _____



Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees, and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

Facility Inspection by the Department

Relationship of this Permit to Other Department Orders and Determinations

Applications for Permit Renewals and Modifications

Permit Modifications, Suspensions, and Revocations by the Department

Facility Level

Submission of Applications for Permit Modification or Renewal -REGION 9
HEADQUARTERS



DEC GENERAL CONDITIONS

****** General Provisions ******

For the purpose of your Title V permit, the following section contains state-only enforceable terms and conditions

GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department
Applicable State Requirement: ECL 19-0305.

Item 1.1:

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

Item 1.2:

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

Item 1.3:

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

Condition 2: Relationship of this Permit to Other Department Orders and Determinations
Applicable State Requirement: ECL 3-0301.2(m)

Item 2.1:

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

Condition 3: Applications for Permit Renewals and Modifications
Applicable State Requirement: 6NYCRR 621.13(a)

Item 3.1:

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item 3.2:

The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

Condition 4: Permit Modifications, Suspensions, and Revocations by the Department
Applicable State Requirement: 6NYCRR 621.14

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Item 4.1:

The Department reserves the right to modify, suspend, or revoke this permit. The grounds for modification, suspension or revocation include:

- a) the scope of the permitted activity is exceeded or a violation of any condition of the permit or provisions of the ECL and pertinent regulations is found;
- b) the permit was obtained by misrepresentation or failure to disclose relevant facts;
- c) new material information is discovered; or
- d) environmental conditions, relevant technology, or applicable law or regulation have materially changed since the permit was issued.

****** Facility Level ******

Condition 5: Submission of Applications for Permit Modification or Renewal -REGION 9 HEADQUARTERS
Applicable State Requirement: 6NYCRR 621.5(a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:

NYSDEC Regional Permit Administrator
Region 9 Headquarters
Division of Environmental Permits
270 Michigan Avenue
Buffalo, NY 14203-2999
(716) 851-7165



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ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

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Authorized Activity By Standard Industrial Classification Code:
4911 - ELECTRIC SERVICES

Permit Effective Date: 04/30/2002

Permit Expiration Date: 04/30/2007



LIST OF CONDITIONS

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FEDERALLY ENFORCEABLE CONDITIONS

****** Facility Level ******

Condition 1: Definitions Applicable To This Permit
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 200.1

Item 1.1:

The definitions found in Parts 200 and 201 apply throughout this permit. Specific definitions used in this permit and their meanings include:

1. "Act" refers to the Federal Clean Air Act, 42 U.S.C. Section 7401, et seq., as amended by Public Law 101-549, November 15, 1990.
2. "Administrator" refers to the Administrator of the United States Environmental Protection Agency or designee.
3. "Department" refers to the New York State Department of Environmental Conservation.

Condition 2: Sealing
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 200.5

Item 2.1:

(a) The commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the commissioner issued in the case of the violation. Sealing means labelling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

(b) No person shall operate any air contamination source sealed by the commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

(c) Unless authorized by the commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section

Condition 3: Acceptable ambient air quality
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 200.6

Item 3.1:



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Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the commissioner shall specify the degree and/or method of emission control required.

Condition 4: Maintenance of equipment
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 200.7

Item 4.1:

Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications, required to operate such device effectively.

Condition 5: Unpermitted Emission Sources
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 201-1.2

Item 5.1:

If an existing emission source was subject to the permitting requirements of 6NYCRR Part 201 at the time of construction or modification, and the owner and/or operator failed to apply for a permit for such emission source then the following provisions apply:

- (a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.
- (b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

Condition 6: Emergency Defense
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 201-1.5

Item 6.1:

An emergency constitutes an affirmative defense to an action brought for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

- (a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

- (1) An emergency occurred and that the facility owner and/or operator can identify the cause(s) of the emergency;

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(2) The equipment at the permitted facility causing the emergency was at the time being properly operated;

(3) During the period of the emergency the facility owner and/or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

(4) The facility owner and/or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(b) In any enforcement proceeding, the facility owner and/or operator seeking to establish the occurrence of an emergency has the burden of proof.

(c) This provision is in addition to any emergency or upset provision contained in any applicable requirement.

Condition 7: Recycling and Salvage
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 201-1.7

Item 7.1:

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

Condition 8: Prohibition of Reintroduction of Collected Contaminants to the Air
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 201-1.8

Item 8.1:

No person shall unnecessarily remove, handle, or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

Condition 9: Public Access to Recordkeeping for Title V facilities
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 201-1.10(b)

Item 9.1:

The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.

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Condition 10: Proof of Eligibility
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 201-3.2(a)

Item 10.1:

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Condition 11: Proof of Eligibility
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 201-3.3(a)

Item 11.1:

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Condition 12: Applicable Criteria, Limits, Terms, Conditions and Standards
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 201-6.

Item 12.1:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in the permit. This shall include:

- i. Any reporting requirements and operations under an accidental release plan, response plan, and compliance plan as approved as of the date of the permit issuance, or
- ii. Any support documents submitted as a part of the permit application for this facility as accepted and approved as of the date of permit issuance.

Any noncompliance with the federally-enforceable portions of this permit constitutes a violation of the federal Clean Air Act and will be grounds for enforcement action, for permit termination, revocation and



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reissuance, or modification, or for denial of a permit renewal application.

Item 12.2:

Any document, including reports, required by the federally-enforceable portions of this permit shall contain a certification by the responsible official for this facility as set forth in Section 201-6.3 that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

**Condition 13: Cessation or Reduction of Permitted Activity Not a Defense
Effective between the dates of 04/30/2002 and 04/30/2007**

Applicable Federal Requirement: 6NYCRR 201-6.

Item 13.1:

It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in order to maintain compliance with the conditions of this permit.

**Condition 14: Compliance Requirements
Effective between the dates of 04/30/2002 and 04/30/2007**

Applicable Federal Requirement: 6NYCRR 201-6.

Item 14.1:

The following information must be included in any required compliance monitoring records and reports:

- i. The date, place and time of sampling or measurements;
- ii. The date(s) analyses were performed;
- iii. The company or entity that performed the analyses;
- iv. The analytical techniques or methods used including quality assurance and quality control procedures if required;
- v. The results of such analyses including quality assurance data where required; and
- vi. The operating conditions as existing at the time of sampling or measurement;

Any deviation from permit requirements must be clearly identified in all records and reports. Reports must be certified by the responsible official, consistent with Section 201-6.3 of Part 201.

Item 14.2:

The permittee shall comply with the approved compliance schedule for this permit if such a schedule is a part of this permit. Risk management plans must be submitted to the Administrator if required by Section 112(r) of the Clean Air Act for this facility.

Item 14.3:



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Progress reports consistent with an applicable schedule of compliance must be submitted at least semiannually on a calendar year basis, or at a more frequent period if specified in the applicable requirement or by the Department elsewhere in this permit. These reports shall be submitted to the Department within 30 days after the end of a reporting period. Such progress reports shall contain the following:

- i. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and
- ii. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

Condition 15: Federally-Enforceable Requirements
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 201-6.

Item 15.1:

All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

Condition 16: Fees
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 201-6.

Item 16.1:

The permittee shall pay the required fees associated with this permit.

Condition 17: Monitoring, Related Recordkeeping and Reporting Requirements
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 201-6.

Item 17.1:

Compliance monitoring and recordkeeping shall be conducted according to the terms and conditions contained in this permit and shall follow all quality assurance requirements. Records of all monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

Condition 18: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission



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Requirements

Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 201-6.

Item 18.1:

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not relieve the permittee from the requirement to comply with any condition contained in this permit.

The permittee shall furnish to the Department, within a reasonable time, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The permittee shall also, on request, furnish the Department with copies of records required to be kept by the permit. Where information is claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

Condition 19: Permit Shield

Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 201-6.

Item 19.1:

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield. For those facilities for which a permit shield has been granted, compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;
- iii. The applicable requirements of Title IV of the Act;
- iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.



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Condition 20: Property Rights

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Applicable Federal Requirement: 6NYCRR 201-6.

Item 20.1:

This permit does not convey any property rights of any sort or any exclusive privilege.

Condition 21: Reopening for Cause

Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 201-6.

Item 21.1:

This Title V permit shall be reopened and revised under any of the following circumstances:

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.
- ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.
- iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

Item 21.2:

Proceedings to reopen and issue Title V facility permits shall follow the same procedures as apply to initial permit issuance but shall affect only those parts of the permit for which cause to reopen exists.

Item 21.3:

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

Condition 22: Right to Inspect

Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 201-6.



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Item 22.1:

Upon presentation of credentials and other documents, as may be required by law, the permittee shall allow the Department or an authorized representative to perform the following:

- i. Enter upon the permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
- ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- iii. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
- iv. As authorized by the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

Condition 23: Severability

Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 201-6.

Item 23.1:

If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.

Condition 24: Emission Unit Definition

Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 201-6.

Item 24.1:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: S-00001

Emission Unit Description:

AES Somerset LLC is an electric generating station consisting of one generator unit.

AES Somerset Stack, Emission Point 00001

Boiler 1, Emission Source B0001

Boiler 1 Selective Catalytic Reduction System,
Emission Source SCR01

Boiler 1 Electrostatic Precipitator,
Emission Source ESP01

Boiler 1 Flue Gas Desulfurization System,
Emission Source

FGD01

burning coal, Process P11

burning No. 2 fuel oil and kerosene, Process

P12

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Steam for Unit 1 is supplied by Emission Source B0001. Emission Source B0001 exhausts through Emission Point 00001.

Emission Source B0001 is a Babcock and Wilcox steam generator, rated at 4,845,000 lbs/hr of steam and a calculated heat input from fuel of 6280 MMBtu/hr. AES Somerset LLC notes that the heat input from fuel is based upon traditional boiler design calculations. For monitoring and reporting purposes, the heat input for Emission Source B0001 is derived from Continuous Emission Monitors (CEM), measuring carbon dioxide (CO₂) and flue gas flow, in accordance with 40 CFR Part 75 Regulations. The relative accuracy of these measurements, as well as EPA recognized flow biases related to Reference Method 2 and wall effect, can result in reported CEM heat inputs that are greater than the design calculated value.

The calculations pertaining to "Emission Rate Potential", "Potential to Emit", and "Minimum Required Control Efficiency", are based on the MCR of 6280 MMBtu/hr.

The boiler burns coal as its primary fuel. No. 2 fuel oil and kerosene are used for startup and flame stabilization.

Emission Source B0001 is equipped with an electrostatic precipitator to control particulate matter emissions. The precipitator is equipped with an energy management system that, based on feedback from the opacity monitor, will adjust the power levels in the precipitator to maintain the desired opacity. Sulfur dioxide emissions are controlled by a flue gas desulfurization (FGD) system. Nitrogen oxides emissions are controlled through the use of low-NO_x burners installed on the boiler, good combustion practices, and an anhydrous ammonia-based selective catalytic reduction (SCR) system.

Building(s): BOILER
FGD

Item 24.2:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: S-00002

Emission Unit Description:

AES Somerset Auxiliary Boilers



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AES Somerset Auxiliary Boiler Stack, Emission Point
0001A

Auxiliary Boiler A, Emission Source B000A
burning No. 2 fuel oil and kerosene, Process

PA2

Auxiliary Boiler B, Emission Source B000B
burning No. 2 fuel oil and kerosene, Process PB2

Both Emission Sources B000A and B000B are required to supply steam for a cold start of the main unit. One emission source, at partial output, is used for house heat and for maintaining essential equipment in a hot condition when the main boiler (Emission Source B0001) is not operating. Emission Sources B000A and B000B exhaust through Emission Point 0001A.

Emission Sources B000A and B000B are small package boilers rated at 195 MMBtu/hr maximum heat input each. The emission sources burn No. 2 fuel oil mixed with kerosene as their fuel.

Building(s): BOILER

Item 24.3:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: S-00003

Emission Unit Description:

AES Somerset Coal and Flyash Handling System

Coal is delivered to AES Somerset by train. It is unloaded by a rotary car dumper in the coal unloading building.

Flyash is collected in hoppers in the electrostatic precipitator building. It is then transported pneumatically through carbon steel piping to the sludge stabilization building where it is collected and stored in silos until used in the stabilization process, disposed of in the on-site landfill, or sold off-site as beneficial use determinations (BUD) products. The storage silos are equipped with baghouses.

Item 24.4:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: S-00004

Emission Unit Description:

AES Somerset Power Block Diesel Generator, Emission Point
00004 Power Block Diesel Generator, Emission Source



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G0001

Burning No. 2 fuel oil and kerosene, Process PP1

AES Somerset has a 2.2 megawatt diesel generator located by the power block to ensure a safe shutdown in the event of a loss of power. This generator may also provide power for station service.

Building(s): BOILER

Item 24.5:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: S-00005

Emission Unit Description:

AES Somerset FGD Diesel Generator, Emission Point 00005

FGD Diesel Generator, Emission Source F0001

Burning diesel or No. 2 fuel oil and kerosene,
Process PF1

AES Somerset has a 1.6 megawatt diesel generator located by the FGD building to ensure a safe shutdown in the event of a loss of power. This generator may also provide power for station service.

Building(s): FGD

Condition 25: Compliance Certification

Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 201-6.5(c)(3)(ii)

Item 25.1:

The Compliance Certification activity will be performed for the Facility.

Item 25.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To meet the requirements of this facility permit with respect to reporting, the permittee must:

Submit reports of any required monitoring at a minimum frequency of every 6 months, based on a calendar year reporting schedule. These reports shall be submitted to the Department within 30 days after the end of a reporting period. All instances of deviations from permit

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requirements must be clearly identified in such reports. All required reports must be certified by the responsible official for this facility.

Notify the Department and report permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations shall be submitted to the permitting authority based on the following schedule:

(1) For emissions of a hazardous air pollutant or a toxic air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.

(2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.

(3) For all other deviations from permit requirements, the report shall be contained in the 6 month monitoring report required above.

(4) This permit may contain a more stringent reporting requirement than required by paragraphs (1), (2) or (3) above. If more stringent reporting requirements have been placed in this permit or exist in applicable requirements that apply to this facility, the more stringent reporting requirement shall apply.

If any of the above conditions are met, the source must notify the permitting authority by telephone or facsimile based on the timetable listed in paragraphs (1) through (4) of this section. A written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.3(d)(12), must be submitted within 10 working days of the occurrence. All deviations reported under paragraph (1) through (4) of this section must also be identified in the 6 month monitoring report required

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above.

If the permittee seeks to have a violation excused as provided in 201-1.4, the permittee shall report such violations as required under 201-1.4(b). However, in no case may reports of any deviation be on a less frequent basis than those described in paragraphs (1) through (4) above. In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets.

In the case of any condition contained in this permit with a reporting requirement of "Upon request by regulatory agency" the permittee shall include in the semiannual report, a statement for each such condition that the monitoring or recordkeeping was performed as required or requested and a listing of all instances of deviations from these requirements.

In the case of any emission testing performed during the previous six month reporting period, either due to a request by the Department, EPA, or a regulatory requirement, the permittee shall include in the semiannual report a summary of the testing results and shall indicate whether or not the Department or EPA has approved the results.

All semiannual reports shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Compliance Monitoring and Enforcement (BCME) in the DEC central office). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.5(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/02.

Subsequent reports are due every 6 calendar month(s).

Condition 26: Compliance Certification
Effective between the dates of 04/30/2002 and 04/30/2007



Applicable Federal Requirement: 6NYCRR 201-6.5(e)

Item 26.1:

The Compliance Certification activity will be performed for the Facility.

Item 26.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Requirements for compliance certifications with terms and conditions contained in this facility permit include the following:

- i. Compliance certifications shall contain:
 - the identification of each term or condition of the permit that is the basis of the certification;
 - the compliance status;
 - whether compliance was continuous or intermittent;
 - the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related recordkeeping and reporting requirements of this permit;
 - such other facts as the Department may require to determine the compliance status of the facility as specified in any special permit terms or conditions;
 - and
 - such additional requirements as may be specified elsewhere in this permit related to compliance certification.
- ii. The responsible official must include in the annual certification report all terms and conditions contained in this permit which are identified as being subject to certification, including emission limitations, standards, or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.
- iii. Compliance certifications shall be submitted annually. Certification reports are due 30 days after the anniversary date of four consecutive calendar quarters. The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.

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iv. All compliance certifications shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Compliance Monitoring and Enforcement (BCME) in the DEC central office). Please send annual compliance certifications to Chief of the Stationary Source Compliance Section, the Region 2 EPA representative for the Administrator, at the following address:

USEPA Region 2
Air Compliance Branch
290 Broadway
New York, NY 10007-1866

The address for the RAPCE is as follows:

270 Michigan Avenue
Buffalo, NY 14203-2999

The address for the BCME is as follows:

NYSDEC
Bureau of Compliance Monitoring
and Enforcement
625 Broadway
Albany, NY 12233-3258

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/03.
Subsequent reports are due on the same day each year

Condition 27: Permit Exclusion Provisions
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 201-6.5(g)

Item 27.1:

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any currently pending or future legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR), and particularly any such enforcement



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action as may be authorized pursuant to 6 NYCRR 201-1.2 and 6 NYCRR 201-6.5(g).

The issuance of this permit by the Department and the receipt thereof by the Applicant does not supercede, revoke or rescind an order or modification thereof on consent or determination by the Commissioner issued heretofore by the Department or any of the terms, conditions or requirements contained in such order or modification thereof unless specifically intended by this permit.

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting the right of the Department to bring any future action, or pursue any pending action, either administrative or judicial, to required remediation, contribution for costs incurred or funds expended, for any violations, past, present or future, known or unknown, of applicable federal law, the ECL, or the rules and regulations promulgated thereunder, or conditions contained in any other licenses or permits issued to the Applicant and not addressed in this permit.

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting the right of the Department to pursue any claims for natural resource damages against the Applicant.

Condition 28: Required emissions tests
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 202-1.1

Item 28.1:

An acceptable report of measured emissions shall be submitted, as may be required by the commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the commissioner within the time stated shall be sufficient reason for the commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6NYCRR Part 202-1.

Condition 29: Compliance Certification
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 202-2.1

Item 29.1:

The Compliance Certification activity will be performed for the Facility.

Item 29.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar year.



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Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due by April 15th for previous calendar year

Condition 30: Recordkeeping requirements
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 202-2.5

Item 30.1:

(a) The following records shall be maintained for at least five years:

- (1) a copy of each emission statement submitted to the department; and
- (2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.

(b) These records shall be made available at the facility to the representatives of the department upon request during normal business hours.

Condition 31: Permit requirements.
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 204-1.6

Item 31.1: The NO_x authorized account representative of each NO_x budget unit shall submit to the Department a complete NO_x Budget permit application (as defined under Section 204-3.3) by May 1, 2002 or 12 months before the date on which the NO_x Budget unit commences operation.

Condition 32: Submissions to the Department.
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 204-2.1

Item 32.1: Each submission under the NO_x Budget Trading Program shall be submitted, signed and certified by the NO_x authorized account representative for each NO_x Budget source on behalf of which the submission is made. Each submission shall include a certification statement (as stated in paragraph 204-2.1(e)(1)) by the NO_x authorized account representative.

Condition 33: Contents of reports and compliance certifications.
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 204-4.1

Item 33.1: The NO_x authorized account representative shall include in the compliance certification report the following elements, in a format prescribed by the Administrator, concerning each unit at the source and subject to the NO_x Budget emissions limitation for the control period covered by the report:

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(1) Identification of each NOx Budget unit; and

(2) In the compliance certification report the NOx authorized account representative shall certify, based on reasonable inquiry of those persons with primary responsibility for operating the source and the NOx Budget units at the source in compliance with the NOx Budget Trading Program, whether each NOx Budget unit for which the compliance certification is submitted was operated during the calendar year covered by the report in compliance with the requirements of the NOx Budget Trading Program applicable to the unit, including:

- (i) Whether the unit was operated in compliance with the NOx Budget emissions limitation;
- (ii) Whether the monitoring plan that governs the unit has been maintained to reflect the actual operation and monitoring of the unit, and contains all information necessary to attribute NOx emissions to the unit, in accordance with Subpart 204-8;
- (iii) Whether all the NOx emissions from the unit, or a group of units (including the unit) using a common stack, were monitored or accounted for through the missing data procedures and reported in the quarterly monitoring reports, including whether conditional data were reported in the quarterly reports in accordance with Subpart 204-8. If conditional data were reported, the owner or operator shall indicate whether the status of all conditional data has been resolved and all necessary quarterly report resubmissions has been made;
- (iv) Whether the facts that form the basis for certification under Subpart 204-8 of each monitor at the unit or a group of units (including the unit) using a common stack, or for using an excepted monitoring method or alternative monitoring method approved under Subpart 204-8, if any, has changed; and
- (v) If a change is required to be reported under item (iv) above, specify the nature of the change, the reason for the change, when the change occurred, and how the unit's compliance status was determined subsequent to the change, including what method was used to determine emissions when a change mandated the need for monitor recertification.

Condition 34: Discretionary report contents.

Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 204-4.1

Item 34.1: At the NOx authorized account representative's option the following may be included in the compliance certification report:

- (1) The serial numbers of the NOx allowances that are to be deducted from each unit's compliance account under Section 204-6.5 for the control period; and
- (2) For units sharing a common stack and having NOx emissions that are not monitored separately or apportioned in accordance with Subpart 204-8, the percentage of NOx allowances that is to be deducted from each unit's compliance account under Subdivision 204-6.5(e).

Condition 35: Compliance Certification

Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 204-4.1



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Item 35.1:

The Compliance Certification activity will be performed for the Facility.

Item 35.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For each control period in which one or more NOx Budget units at a source are subject to the NOx Budget emissions limitation, the NOx authorized account representative of the source shall submit to the Department and the Administrator by November 30 of that year, a compliance certification report for each source covering all such units.

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 36: Submission of NOx allowance transfers.
Effective between the dates of 04/30/2002 and 04/30/2007**

Applicable Federal Requirement: 6NYCRR 204-7.1

Item 36.1: The NOx authorized account representatives seeking recordation of a NOx allowance transfer shall submit the transfer to the Administrator. To be considered correctly submitted, the NOx allowance transfer shall include the following elements in a format specified by the Administrator:

- (a) The numbers identifying both the transferor and transferee accounts;
- (b) A specification by serial number of each NOx allowance to be transferred; and
- (c) The printed name and signature of the NOx authorized account representative of the transferor account and the date signed.

**Condition 37: Requirements for recertification of monitoring systems.
Effective between the dates of 04/30/2002 and 04/30/2007**

Applicable Federal Requirement: 6NYCRR 204-8.2

Item 37.1: Whenever the owner or operator makes a replacement, modification, or change in a certified monitoring system that the Administrator or the Department determines significantly affects the ability of the system to accurately measure or record NOx mass emissions or heat input or to meet the requirements of 40 CFR 75.21 or Appendix B to 40 CFR Part 75, the owner or operator shall recertify the monitoring system according to 40 CFR 75.20(b). Furthermore, whenever the owner or operator makes a replacement, modification, or change to the flue gas handling system or the unit's operation that the Administrator or the Department determines to significantly change the flow or concentration profile, the owner or operator shall recertify the continuous emissions monitoring system according to 40 CFR 75.20(b). Examples of changes which require recertification include: replacement of the analyzer, change in location or orientation of the sampling probe or site, or changing of flow rate monitor

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polynomial coefficients.

Condition 38: Out of control periods.
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 204-8.3

Item 38.1: Whenever any monitoring system fails to meet the quality assurance requirements of Appendix B of 40 CFR Part 75, data shall be substituted using the applicable procedures in Subpart D, Appendix D, or Appendix E of 40 CFR Part 75.

Condition 39: Compliance Certification
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 204-8.7

Item 39.1:
The Compliance Certification activity will be performed for the Facility.

Item 39.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a unit that elects to monitor and report NO_x Mass emissions using a NO_x concentration system and a flow system shall also monitor and report heat input at the unit level using the procedures set forth in 40 CFR Part 75.

Monitoring Frequency: HOURLY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/02.

Subsequent reports are due every 3 calendar month(s).

Condition 40: Compliance Certification
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 207.2(a)

Item 40.1:
The Compliance Certification activity will be performed for the Facility.

Item 40.2:
Compliance Certification shall include the following monitoring:



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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any person who owns a significant air contamination source shall submit a proposed episode action plan to the commissioner within 90 days of his request therefor. The plan shall contain detailed steps which will be taken by the air contamination source owner to reduce air contaminant emissions during each stage of an air pollution episode. The commissioner shall make available and furnish with his request therefor, guidelines for preparation of episode action plans.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 41: Visible emissions limited.
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 211.3

Item 41.1:

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

Condition 42: Open Fires Prohibited at Industrial and Commercial Sites
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 215.

Item 42.1:

No person shall burn, cause, suffer, allow or permit the burning in an open fire of garbage, rubbish for salvage, or rubbish generated by industrial or commercial activities.

Condition 43: Compliance Certification
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 225-1.2(a)(2)

Item 43.1:

The Compliance Certification activity will be performed for the Facility.

Item 43.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC

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Monitoring Description:

No person will sell, offer for sale, purchase or use any distillate oil fuel which contains sulfur in a quantity exceeding the following limitation.

Note: The owner/operator or the fuel supplier must provide complete fuel sampling/analysis documentation from a fuel source (such as supplier's storage tank, supplier per delivery, or owner/operator storage tank) which is representative of as-fired fuel. Records of fuel use must be retained for 5 years.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 1.5 percent by weight

Reference Test Method: ASTM D 4294

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/02.

Subsequent reports are due every 3 calendar month(s).

Condition 44: Compliance Certification

Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 225-1.2(f)

Item 44.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 44.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This facility's Prevention of Significant Deterioration (PSD) permit required installation of Best Available Control Technology (BACT) for SO₂ upon construction. The control technique for SO₂ specified in Environmental Conservation Law (ECL) Section 19-0909 (State Acid Deposition Control Act), namely, paragraph 2e ("the use

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of best available control technology at the time of construction, reconstruction or substantial addition to or alteration of a facility or stationary source") is allowable for this facility to comply with the limits in Tables 2 and 3 of this regulation. No additional reporting is required by this permit condition.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 45: Compliance Certification
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 227-1.4(b)

Item 45.1:

The Compliance Certification activity will be performed for the Facility.

Item 45.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a stationary combustion installation which utilizes a continuous opacity monitoring system (COMS) shall include the following in their quarterly excess emission reports:

- 1) Magnitude, date, and time of each exceedence;
- 2) For each period of excess emissions, specific identification of the cause and corrective action taken;
- 3) Date, time, and duration of each period of COMS downtime, and the corrective action for each period of downtime;
- 4) Total time the COMS is required to record data during the reporting period;
- 5) The total number of exceedences and the duration of exceedences expressed as a percentage of the total time in which the COMS are required to record data; and
- 6) Such other requirements as the Department may deem necessary in order to enforce Article 19 of the



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Environmental Conservation Law (ECL).

Reference Test Method: 40 CFR 60 Appendix B

Monitoring Frequency: CONTINUOUS

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/02.

Subsequent reports are due every 3 calendar month(s).

Condition 46: Authorized Account Representatives (AARs)
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 227-3.12

Item 46.1: Each budget source must designate an AAR, and may designate an alternate AAR, for each compliance account and compliance overdraft account.

Condition 47: Compliance Certification
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 227-3.13

Item 47.1:
The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 47.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Sources subject to 40 CFR Part 75. The owner and/or operator of each budget source subject to 40 CFR Part 75 shall demonstrate compliance with this Subpart by using a certified 40 CFR Part 75 monitoring system and is subject to the following requirements:

Budget sources which have a flow monitor certified under 40 CFR Part 75: NO_x emissions in lbs/hr shall be determined using a CEMS and the flow monitor and by multiplying together the figures resulting from application of the following two Subparagraphs:

(i) The NO_x emission rate in lbs/mmBtu determined by using the procedure set forth in 40 CFR Part 75 Appendix



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F, Section 3.

(ii) The hourly heat input in mmBtu/hr determined by using the procedures set forth in 40 CFR Part 75 Appendix F, Section 5.

Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/02.
Subsequent reports are due every 3 calendar month(s).

Condition 48: Compliance Certification
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 227-3.15

Item 48.1:

The Compliance Certification activity will be performed for the Facility.

Item 48.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This budget source must submit to the Administrator, in a format which meets the requirements of the Administrator's Electronic Data Reporting convention, information regarding emissions and operations during each calendar quarter of each year in accordance with the procedures specified in the Guidance Document.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/02.

Subsequent reports are due every 3 calendar month(s).

Condition 49: Compliance Certification
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 227-3.17

Item 49.1:

The Compliance Certification activity will be performed for the Facility.

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Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 49.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

- (a) By December 31 of each year, this budget source must submit a compliance certification to the Department relating to the budget source's activities during the current year.
- (b) The compliance certification shall contain, at a minimum:
 - (1) identification of the budget source, including address of the budget source, name and address of the owner and/or operator, account numbers of the relevant compliance account and compliance overdraft account and the name of the AAR;
 - (2) a statement indicating whether NO_x emissions data have been reported to the NETS in accordance with the procedures set forth in Section 227-3.15 and any additional procedures established by the Administrator;
 - (3) a statement indicating whether the budget source has a number of allowances in its compliance account or compliance overdraft account equal to or greater than the budget source's NO_x emissions for the current year control period;
 - (4) a statement indicating whether the monitoring data reflected the actual operation of the budget source;
 - (5) a statement indicating whether all NO_x emissions from the budget source were accounted for, either through the relevant monitoring or application of the appropriate missing data procedures; and
 - (6) a statement indicating whether there were any changes in the method of operation of the budget source or the method of monitoring the budget source during the current year.
- (c) The Department may verify compliance by whatever means necessary, including, but not limited to, the following:
 - (1) inspection of budget source operating records;
 - (2) examining information contained in the NATS (NO_x Allowance Tracking System) regarding allowance deductions



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- and transfers for the budget source;
- (3) examining information contained in the NETS (NO_x Emission Tracking System) regarding NO_x emissions from the budget source;
- (4) testing emission monitoring devices; and,
- (5) testing conducted pursuant to 6 NYCRR Part 202.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 50: Compliance Certification
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 50.1:

The Compliance Certification activity will be performed for the Facility.

Item 50.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Attachment I
AES Somerset, L.L.C. (AES)
Somerset Station
PSD Permit Conditions

AES Somerset, L.L.C. (AES) is operating a 635 Megawatt (MW) coal-fired steam generating plant (Somerset Station, formerly known as Kintigh Station) in Somerset, New York. The plant consists principally of a Babcock & Wilcox steam generating unit (B&W boiler), two auxiliary oil-fired boilers and various coal and limestone storage and handling systems. This project is subject to PSD for the pollutant's particulate matter, sulfur dioxide, nitrogen oxides, carbon monoxide, fluorides, lead, mercury and beryllium. In addition to the operation of the coal-fired steam generating plant (Somerset Station), AES is hosting and partly funding a pilot project, an Environmental Control Technology Center (ECTC, formerly known as the High Sulfur Test Center (HSTC) sponsored by the Electric Power Research Institute (EPRI), the Empire State Electric Energy Research Corporation (ESEERCO), AES and the New York State Energy Research Development Authority (NYSERDA). As host, AES provides the ECTC with a small slip stream of the exhaust gas generated by the boilers at

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the plant. The ECTC spikes the small portion of the flue gas with additional sulfur dioxide, scrubs the sulfur dioxide "enriched" flue gas using various experimental control systems, and vents the exhaust gas back to the AES stack. This ECTC project is subject to PSD for the pollutant sulfur dioxide. Operation of the Somerset Station and construction/operation of the ECTC are subject to the following conditions:

I. Stack Emission Rates (B&W Boiler)

A. Particulate Matter (PM) and Opacity

1. Emissions of PM shall be controlled by the use of an electrostatic precipitator (ESP) to a rate not to exceed 0.030 pounds per million British thermal units (lbs/MMBtu) heat input.

2. Opacity of emissions shall not exceed 20 percent (six-minute average) except for one six-minute set per hour which shall not exceed 27 percent.

3. The addition of an Environmental Control Test Center shall not alter the requirements and limitations of Conditions I.A.1 and I.A.2 in any way.

B. Sulfur Dioxide (SO₂)

1. Emissions of SO₂ shall be controlled by the use of a flue gas desulfurization (FGD) system and the use of coal with a maximum sulfur content of 3.50 lbs/MMBtu heat input. Emissions of SO₂ shall not exceed 0.70 lbs/MMBtu heat input and 10 percent of the potential combustion concentration (90 percent reduction) or 30 percent of the potential combustion concentration (70 percent reduction) when emissions are less than 0.60 lbs/MMBTU heat input. The emission limitation is based on the average emission rate for 30 successive boiler operating days. Compliance with the allowable SO₂ removal efficiency shall be determined in accordance with the methods specified in 40 CFR Part 60, Appendix A, Method 19, Sections 3 and 5. The SO₂ removal efficiency shall first be calculated using the equation in Section 3.2. If that method cannot be used to determine compliance, the equation in Section 3.3 can be utilized. The sample taken for analysis can be obtained prior to pulverization but after any coal cleaning.

2. The addition of an Environmental Control Test Center shall not alter the requirements and limitations of Conditions I.B.1 in any way.

3. AES may re-heat the stack gases in order to prevent damage to equipment located downstream of the FGD system. The by-pass of the flue gases around the FGD system shall

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be permissible under the following conditions:

a. AES shall perform flue gas by-pass only to achieve the stack temperature of 122°F.

This minimum stack temperature will prevent equipment damage. However, the limitations listed in Condition I.B.1. shall not be exceeded under any circumstances. The minimum stack temperature was determined by AES during the first six months of normal operation (defined as the six-month period directly following performance of the stack test(s) required for compliance determination(s) pursuant to federal New Source Performance Standards codified at 40 CFR Part 60, Subpart Da). The information pertaining to this temperature limitation was submitted to the U.S. Environmental Protection Agency (EPA) for approval and, once approved, became part of this permit.

b. AES shall perform flue gas by-pass only for that volume of gas needed to achieve the stack temperature limitation of Condition I.B.3.a., plus or minus 10 degrees Fahrenheit. The remainder of the flue gas shall be treated by the FGD system. Ranges for various FGD parameters shall be determined by AES during the first six months of normal operation and submitted to the EPA for verification that the FGD system is operating normally. If more re-heat is required to achieve the safe stack temperature than can be achieved through by-pass, additional heat shall be provided by other means of

re-heat.

c. Whenever Condition I.B.1. is exceeded, AES shall submit to EPA in its quarterly reports the daily average stack temperature during the day(s) of the exceedance and whether or not any flue gases were by-passing the FGD at any time during the 48 hours preceding the exceedance.

C. Nitrogen Oxides (NO_x)

Emissions of NO_x shall be controlled by the use of good boiler design and good combustion practices to a rate not to exceed 0.60 lbs/MMBtu heat input.

D. Carbon Monoxide (CO)

Emissions of CO shall be controlled by the use of good boiler design and good combustion practices.

E. Fluorides

Emissions of fluorides shall be reduced by the FGD system.

F. Lead, Mercury, Beryllium

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Emissions of these trace elements shall be controlled by the ESP and the FGD system.

II. Continuous Monitoring Requirements (B&W Boiler)

A. The facility shall be equipped with continuous monitors (which meet the performance specifications in 40 CFR Part 60, Appendix B) to measure:

1. Opacity of emissions,
2. SO₂ emissions monitored at:
 - i) the location between the electrostatic precipitator (ESP) and the FGD inlet and
 - ii) the location after the FGD, after the introduction of the Environmental Control Test Center (ECTC) and after introduction of the flue gases by-passing the FGD. For the purposes of calculating SO₂ removal efficiency, the former location shall be deemed as the inlet to the sulfur dioxide control device and the latter location shall be deemed as the outlet from the sulfur dioxide control device.
3. NO_x emissions discharged to the atmosphere,
4. CO emissions discharged to the atmosphere,
5. Oxygen (O₂) or carbon dioxide (CO₂) content of the flue gas at each location where SO₂ or NO_x emissions are monitored.

B. Daily coal analysis shall consist of the following procedures:

1. Sample preparation-American Society for Testing Materials (ASTM) 2013
2. Sulfur analysis - ASTM D 3177
3. Moisture analysis - ASTM D 3173
4. Gross calorific value - ASTM D 3176 or D 2015

The most recent revisions of the above ASTM procedures shall be utilized. If more than one fuel type is used to produce the daily fuel supply, the equation contained in Appendix 1 shall be used to calculate the sulfur content of the daily coal supply.

III. Testing Requirements (B&W Boiler)

A. Tests shall be conducted in accordance with test methods established in 40 CFR Part 60, Appendix A to determine emissions of PM, SO₂ and NO_x. Such tests shall be conducted within 180 days of initial start-up of the boiler. {These tests have already been completed.}

B. All continuous monitors shall be installed within 60 days of initial start-up of the boiler. The opacity, SO₂,

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NO_x and O₂ or CO₂ monitors shall be tested during the performance tests referred to above in accordance with manufacturers' recommendations and with EPA approval. {The required monitors have been installed and tested.}

IV. Other Conditions (B&W Boiler)

A. After review of bids but prior to executing contracts with air pollution control equipment vendors, the company shall submit the design parameters listed in Appendix 2. EPA will review the submittal(s) to determine if the proposed air pollution control equipment can be reasonably expected to achieve the emission standards specified in Condition I of this permit. EPA will make every reasonable effort to review the design parameters and respond to the company within 30 days of receipt of a complete submittal. In addition, the company shall submit the design parameters listed in Appendix 2 at the time that consistency with the approval(s) is granted.

B. A maintenance schedule for the FGD system shall be submitted; such schedule shall include a plan for routine maintenance and inspection of the system hardware to ensure continuous and reliable performance. AES shall submit the schedule within 90 days after start-up. EPA will review the maintenance schedule to ensure that it is reasonable. Upon approval, the schedule shall become an enforceable condition of the permit. {The EPA-approved FGD maintenance schedule has been included here as Attachment II.}

C. The report that must be submitted after the initial six-month period pursuant to Condition I.B.3. of this permit shall include data obtained from monitoring those parameters necessary to establish the conditions under which by-pass re-heat is considered imperative. The conclusions reached must reflect the observations and monitoring data compiled. The stack temperature established shall be maintained under all conditions unless it can be shown that re-heat requirements for the protection of equipment vary due to specific coal properties or combustion parameters. {This report has already been submitted to EPA.}

D. For the purposes of inhibiting the formation of gypsum scale and enhancing the utilization of limestone in the FGD system, AES shall be allowed to use emulsified



elemental sulfur with the limestone in the FGD system. The addition of emulsified elemental sulfur in the FGD system shall not alter the requirements and limitations listed in this permit for each PSD-affected pollutant. The amount of emulsified elemental sulfur used shall be recorded by AES on a daily basis and such records shall be kept for a period of three years. The records shall be made available to Agency representatives upon request.

V. Fugitive Emissions

A. Coal Handling

1. Coal shall be unloaded by a rotary car dumper which will be housed in an unloading building and fitted with a wet dust suppression system.
2. Enclosed belt conveyors shall transport coal to the coal pile and/or crusher house. The surge bins and transfer points (including, but not limited to, Transfer Points 1 and 2 and the rotary car dumper) shall be in an enclosed structure and a wet system shall be utilized for dust control.
3. Emissions from conveyors between the first coal transfer house and the stacker-reclaimer shall be controlled by a water spray dust suppression system. All coal piles and the area around the active coal pile shall also be sprayed with water on a frequent basis.
4. All conveyors from the coal handling building to the power house shall be enclosed and shall utilize wet dust control systems. Fabric filters shall vent the storage silos in the power house. Cascade conveyors shall be enclosed in a gallery.

B. Limestone Handling

1. The dumping station shall be enclosed with roller-type doors at both ends of the structure and equipped to handle bottom unloading trucks and rail cars. The doors shall be closed during material unloading.
2. All conveyors shall be enclosed. Fabric filter dust collectors shall vent all emissions from conveyor transfer points.
3. The inactive limestone storage pile shall be sprayed with water, when necessary, to minimize dust emissions.
4. The active limestone storage pile shall be completely enclosed in a building.

C. Flyash Handling

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1. The flyash handling system is pneumatic so there will be no emission points from this system.
2. Flyash storage silo emissions shall be controlled by redundant bag filters.

VI. Auxiliary Boilers

There will be two auxiliary boilers, each with a design heat input of 195 MMBtu/hr. The units shall be used to provide steam for a cold start of the main unit. This will require their use for only a few hours per year. The units shall also be used for heating the buildings and for maintaining essential equipment in a hot condition when the main boiler is not operating. AES shall use No. 2 fuel oil to fire these units.

VII. ECTC Requirements

A. The mass rate of SO₂ that is added by the ECTC, not including the mass rate of SO₂ provided by the boiler off gases, shall be limited to 63 tons per year. SO₂ monitors shall be located at the inlet and outlet of the ECTC. If the outlet SO₂ concentration is higher than the inlet concentration from the boiler, then the amount of extra SO₂ leaving the facility is calculated and logged against the 63 tons/year limit that the ECTC may add to the flue gas.

B. The volumetric flow rate which is taken from the boiler off gases upstream of the SO₂ and particulate matter controls for introduction into the ECTC shall be limited to two percent (2%) of the design volumetric flow rate exiting the boiler.

C. The ECTC shall be equipped with a continuous SO₂ monitor to measure and record the amount of SO₂ added to the ECTC by means of SO₂ spiking. AES shall determine, by a method submitted to and approved by EPA, the mass rate of SO₂ spiking prior to the time of operation of the ECTC. EPA may approve an alternate method of monitoring the amount of added SO₂ due to spiking. In addition, AES shall submit to EPA, on a quarterly basis (90 days), continuous monitoring records for the SO₂ spike associated with the ECTC and the mass spike rate for that quarter.

VIII. Carbide Lime as a Partial Substitute to Limestone

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A. Somerset Station is authorized to use carbide lime as a partial substitute for natural mined limestone reagent feedstock in the flue gas desulfurization system under the following conditions:

1. The maximum amount of limestone to be replaced with carbide lime shall not exceed 25% by weight of the total limestone used regularly.
2. The addition of carbide lime shall not alter the requirements and limitations specified under Condition I.B.1 in any way.

IX. Recordkeeping and Reporting Requirements

A. All records required to be maintained by this permit shall be kept for a period of at least five (5) years.

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B. All reports required by this permit shall be submitted to:

Air Compliance Branch
U.S. Environmental Protection Agency
Region II
290 Broadway - 21st Floor
New York, New York 10007-1866

A copy of the report shall also be submitted to:

Mr. Steven C. Riva, Chief
Permitting Section
Air Programs Branch
U.S. Environmental Protection Agency
Region II
290 Broadway - 25th Floor
New York, New York 10007-1866

Region 2 CEM Coordinator
U.S. Environmental Protection Agency
Region II
Air and Water Section
Monitoring Management Branch
2890 Woodbridge Avenue - MS-102
Edison, New Jersey 09937-3679

Attachment II
AES Somerset, L.L.C. (AES)



Somerset Station
PSD Permit Conditions
Schedule for FGD Routine Maintenance

Somerset Station has six (6) FGD modules which includes two (2) spares. This could allow AES to periodically remove a module from service to perform inspections and routine maintenance. AES currently plans to remove a module from service after approximately two (2) months of operation or as modified based upon operational experience. The actual duration is dependent upon several factors.

A. AES expects to normally (i.e., full load) have four (4) modules operating with one "stand-by" spare and one isolated and out for maintenance. Every two (2) months one of the four (4) operating modules will be removed from service and be subject to inspect routine maintenance. At that time, the "stand-by" spare module will be placed into service. Four modules will continue to operate. The module that had been out for inspection and routine maintenance will then become the new stand-by spare.

B. This process will repeat for each module approximately every two (2) months or as modified based upon operational experience. The module most recently removed from service will be subject to the inspection and routine maintenance items listed below in Tables A and B. Other routine maintenance will be performed as required.

C. Certain items can only be inspected during major plant outages that normally are expected to occur yearly. These are listed in Table C.

D. AES shall maintain detailed maintenance and inspection logs, to be made available to EPA Region II upon request. Such logs shall include the time off and on for each module, problems that were observed, and a description of the maintenance work performed.

E. Modification of this FGD module operation and maintenance schedule shall be made only after formal approval by EPA Region II.

TABLE A	TABLE B
FGD MODULE	ROUTINE
INSPECTION	MAINTENANCE
ITEMS	

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Mist Eliminator	Cleaning Mist Eliminators
Wash Nozzles	Clean Wash Nozzles
Spray Nozzles	Recycle Pump Maintenance
Module Lining	Agitator Maintenance

TABLE C
MAJOR PLANT
OUTAGE ITEMS

Inlet Control Dampers (6)
Inlet Isolation Dampers (6)
Outlet Isolation Dampers (6)
Bypass Damper (1)
Reheat Damper (1)
Outlet Ductwork Linings

Appendix 1
AES Somerset, L.L.C. (AES)
Somerset Station
PSD Permit Conditions

If more than one type of coal is used to produce the daily fuel supply, the following shall be used to calculate the sulfur content per unit of heat content of the daily coal supply, %S/GCV:

$$\%S/GCV = \frac{\sum_{k=1}^n (Y_k (\%S_k/GCV_k))}{\sum_{k=1}^n Y_k}$$

Where:

Y_k = the fraction of total mass input derived from each type, k , of coal.
 $\%S_k$ = sulfur content of each coal type, k , on a dry basis, weight percent.
 GCV_k = gross calorific value for each coal type, k , on a dry basis, Btu/lb.
 n = number of different types of coal.

Appendix 2
AES Somerset, L.L.C. (AES)
Somerset Station
PSD Permit Conditions

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The following information must be submitted to the EPA for approval before and after contracts for the control equipment are finalized:

I. STEAM GENERATOR DATA

- A. Type of boiler (manufacturer)
- B. Size of boiler (heat input, MMBtu/hr)

II. FUEL DATA

Provide long-term average and ranges for specified short-term and long-term averaging periods for the following:

- A. Primary fuel (coal oil)
- B. Start-up fuel
- C. Alternate fuels
- D. Brief description of what fuels will be fired including
estimated percentage heat input
- E. Solid fuel data (all solid fuels to be fired)
 - 1. Ultimate analysis (as burned) % by weight sulfur also
include chlorine, ash, moisture and gross heating value (Btu/lb)
 - 2. Estimated resistivity of particulate as a function of
gas temperature (if known)
 - 3. Estimated ash analysis (% by weight - dry)
 - 4. Particulate density
- F. Particulate size analysis for ash

Is a contract signed for the coal? If no contract is signed, we would need the above information for all coals that are being contemplated for usage and percentage usage where coals are to be blended.

III. ELECTROSTATIC PRECIPITATOR (ESP) DATA

Final Design Criteria

- A. Design emission rate (lbs/MMBtu) for particulate matter
(before and after proposed controls).
- B. Total gas flow from steam generator at full load and a
ESP operating temperature (ACFM).
- C. ESP operating temperature (\pm F) range.
- D. Number of separate ESP modules under consideration.



- E. Approximate specific collection area (SCA).
- F. Number of separate electrical sections for each module under consideration.
- G. Type of power control and instrumentation.
- H. Estimated linear velocity of gas through each module
at full load (actual feet/sec) or range of acceptable velocities.
- I. Briefly describe techniques used to ensure uniform linear velocity within ESP.
- I. Nature and terms of performance guarantee.
- K. Briefly describe system used to remove and convey collected ash to final disposal.
- L. General flow diagram for the ESP.
- M. Provide design criteria and engineering data for the major elements of the ESP for the Somerset Station to include the following parameters:
 - 1. Electric length
 - 2. Wire to Plate Spacing
 - 3. Wire to Wire Spacing
 - 4. Wire Diameter
 - 5. Wires Per Section
 - 6. Wire Length Per Section
 - 7. Plate Area Per Section
 - 8. Number of Electrical Sections
 - 9. Duct Width
 - 10. Maximum Applied Voltage

IV. SULFUR DIOXIDE SCRUBBER DATA

Final Design Criteria

- A. Design emission rate (lbs/MMBtu) of SO₂ (before and after proposed controls).
- B. Design data or criteria for the scrubber modules to include:
 - 1. Scrubber types (TCS, spray tower, etc.)
 - 2. Absorbent type
 - 3. Possible scrubber liquor additives (e.g., Mg)
 - 4. Prescrubber design criteria, or acceptable range for 1/g, inlet and outlet chloride, etc.
 - 5. Design criteria for acceptable ranges for

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- inlet and outlet gas flow and temperature volume
percent H₂O, O₂, and SO₂
6. Specific design criteria or acceptable range for liquid/gas ratio
7. Estimated scrubber gas velocity
8. Design criteria or acceptable range of pressure drop across the scrubber (inches of H₂O)
- C. For turbulent contact absorber (TCA) also supply:
1. Design criteria or acceptable ranges for diameter of spheres.
 2. Design criteria or acceptable ranges for the height of sphere in TCA.
 3. Design criteria or acceptable ranges for number of grids or screens in TCA.
- D. Indicate total number of scrubber modules and number of spare modules during maximum boiler loading.
- E. What special precautions will be taken with module internals and other components (pumps, mist eliminators, fans, etc.) to ensure that corrosion, scaling, and plugging do not cause failure of the system?
- F. What special precautions will be taken with control system, e.g., spare probes, probe site location, probe sheaths, backup instrumentation to ensure that failure will not lead to excess emissions or fouling of components via scaling?
- G. Indicate the worst case fuel sulfur and heating value.
- H. Indicate the SO₂ absorber stoichiometry (moles limestone).

NOTE: Correspondence dated September 27, 2001 concerning extension of authority to use Dibasic Acids (DBA) in the



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Somerset facility's flue gas desulfurization (FGD) system is attached to this Title V permit as Attachment III.

NOTE: Correspondence dated October 29, 2001 concerning Somerset request for a petroleum coke product (Petcoke) test burn is attached to this Title V permit as Attachment IV.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 51: Recycling and Emissions Reduction
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 40CFR 82, Subpart F

Item 51.1:

The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVAC's in Subpart B:

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR Part 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR Part 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR Part 82.161.
- d. Persons disposing of small appliances, MVAC's, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR Part 82.166. ("MVAC-like appliance as defined at 40 CFR Part 82.152)
- e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR Part 82.156.
- f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR Part 82.166.

****** Emission Unit Level ******

Condition 52: Emission Point Definition By Emission Unit
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 201-6.

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Item 52.1:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: S-00001

Emission Point: 00001

Height (ft.): 612

Diameter (in.): 320

NYTMN (km.): 4807.021 NYTME (km.): 208.529 Building: BOILER

Item 52.2:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: S-00002

Emission Point: 0001A

Height (ft.): 300

Diameter (in.): 81

NYTMN (km.): 4807.021 NYTME (km.): 208.529 Building: BOILER

Item 52.3:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: S-00004

Emission Point: 00004

Height (ft.): 15

Diameter (in.): 18

Item 52.4:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: S-00005

Emission Point: 00005

Height (ft.): 15

Diameter (in.): 18

Condition 53: Process Definition By Emission Unit

Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 201-6.

Item 53.1:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: S-00001

Process: P11

Source Classification Code: 1-01-002-02

Process Description:

Emission Unit: S-00001

Process: P11

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Emission Source B0001 fires coal as its baseline fuel. Particulate matter emissions are controlled by the use of an electrostatic precipitator and measured at Emission Point 00001. Sulfur dioxide emissions are controlled by a flue gas desulfurization (FGD) system. Nitrogen oxides emissions are controlled through the use of low-NOx burners, good combustion practices and an anhydrous ammonia-based selective catalytic reduction (SCR) system. Nitrogen oxides limits on a system-wide basis are established in AES New York's NOx RACT Compliance Plan. Sulfur dioxide and nitrogen oxides emissions are measured by the continuous emission monitoring system on Emission Point 00001.

Emission Source/Control: B0001 - Combustion
Design Capacity: 6,280 million Btu per hour

Emission Source/Control: ESP01 - Control
Control Type: ELECTROSTATIC PRECIPITATOR

Emission Source/Control: FGD01 - Control
Control Type: FLUE GAS DESULFURIZATION SYSTEM

Emission Source/Control: SCR01 - Control
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 53.2:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: S-00001
Process: P12
Process Description:
Emission Unit: S-00001
Process: P12
Source Classification Code: 1-01-005-01

Emission Source B0001 uses No. 2 fuel oil and kerosene as startup fuel and for flame stabilization. It is used on an as-needed basis. There are no specific fuel oil controls for sulfur dioxide or nitrogen oxides emissions. Sulfur dioxide and nitrogen oxides emissions are measured by the continuous emission monitoring system on Emission Point 00001.

Emission Source/Control: B0001 - Combustion
Design Capacity: 6,280 million Btu per hour

New York State Department of Environmental Conservation

Permit ID: 9-2938-00003/00002

Facility DEC ID: 9293800003



Item 53.3:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: S-00002

Process: PA2

Source Classification Code: 1-01-005-01

Process Description:

Emission Unit: S-00002

Process: PA2

Emission Source B000A uses No. 2 fuel oil mixed with kerosene as its primary fuel. Emission Source B000A is used on an as-needed basis to supply steam for house heat and unit startup when the main boiler is not operating. This only occurs a few times each year. There are no specific fuel oil controls for particulate matter, sulfur dioxide, or nitrogen oxides emissions.

Emission Source/Control: B000A - Combustion

Design Capacity: 195 million Btu per hour

Item 53.4:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: S-00002

Process: PB2

Source Classification Code: 1-01-005-01

Process Description:

Emission Unit: S-00002

Process: PB2

Emission Source B000B uses No. 2 fuel oil mixed with kerosene as its primary fuel. Emission Source B000B is used on an as-needed basis to supply steam for house heat and unit startup when the main boiler is not operating. This only occurs a few times each year. There are no specific fuel oil controls for particulate matter, sulfur dioxide, or nitrogen oxides emissions.

Emission Source/Control: B000B - Combustion

Design Capacity: 195 million Btu per hour

Item 53.5:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: S-00004

Process: PP1

Source Classification Code: 2-01-001-07

Process Description:

Emission Source G0001 uses No. 2 fuel oil mixed with kerosene as its primary fuel. Emission Source G0001 is



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used on an as-needed basis to provide emergency power to ensure a safe shutdown in the event of a loss of power. This generator may also provide power for station service. There are no specific fuel oil controls for particulate matter, sulfur dioxide, or nitrogen oxides emissions.

Emission Source/Control: G0001 - Combustion
Design Capacity: 3,070 horsepower (mechanical)

Item 53.6:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: S-00005

Process: PF1

Source Classification Code: 2-01-001-07

Process Description:

Emission Source F0001 uses diesel fuel oil as its primary fuel. Emission Source F0001 is used on an as-needed basis to provide emergency power to ensure a safe shutdown in the event of a loss of power. This generator may also provide power for station service. There are no specific fuel oil controls for particulate matter, sulfur dioxide, or nitrogen oxides emissions.

Emission Source/Control: F0001 - Combustion
Design Capacity: 2,305 horsepower (mechanical)

Condition 54: Compliance Certification

Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 227-1.3(a)

Item 54.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001

Item 54.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one six minute period per hour of not more than 27 percent opacity.

Parameter Monitored: OPACITY



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Upper Permit Limit: 27 percent
Reference Test Method: 40 CFR 60 APP B
Monitoring Frequency: CONTINUOUS
Averaging Method: 6 MINUTE AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/02.
Subsequent reports are due every 3 calendar month(s).

Condition 55: Compliance Certification
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 227-2.4(a)(1)

Item 55.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 55.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
Monitoring Description:

The applicable NO_x limit for Emission Source B0001 is 0.45 lb/MMBtu. Under AES Title I NO_x RACT Compliance Plan, AES Somerset complies by meeting a system-wide daily (24-hour average) emission limit during the ozone season (May 1 through September 30) and a 30-day rolling system average emission limit during the non-ozone season (October 1 through April 30). Emissions are calculated using data collected and reported pursuant to 40 CFR 75.

The NO_x(lb/hr) emissions for Emission Source B0001 are monitored and reported using the Emission Point 00001 CEM system as detailed in the AES Somerset Unit 1 CEM monitoring plan (April, 2000). An emissions report must be submitted within 30 days following the end of the calendar quarter using data collected and reported pursuant to 40 CFR 75.

Note: The Title I NO_x RACT Compliance Plan for the Somerset Station is attached to the Title V permit as Appendix V. This attachment includes the Title I NO_x RACT



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Compliance Plan, the NYSDEC November 16, 1994 letter of approval, and Revision 9 of the plan dated 04/26/99 which complies with the system wide averaging provisions of 6 NYCRR 227-2.5(b). (Revision 9 is undergoing Department review). AES will utilize the system averaging provisions contained in 6 NYCRR Part 227-2.5(b) to comply with the NOx regulations.

Manufacturer Name/Model Number: TECO42C,MILTEN ROY3300/OR EQUIV.

Upper Permit Limit: 0.45 pounds per million Btus

Reference Test Method: 40 CFR 60 APP A, M7E

Monitoring Frequency: CONTINUOUS

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/02.

Subsequent reports are due every 3 calendar month(s).

Condition 56: Compliance Certification

Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 56.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 56.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

There is no applicable numeric carbon monoxide (CO) emission limit for Emission Source B0001. A condition of the Prevention of Significant Deterioration permit for AES Somerset requires emissions of CO shall be controlled by the use of good boiler design and good combustion practices. Emissions are calculated and reported according to the following formula:

$$\text{CO(lb/MMBtu)} = \text{CO(ppm)} \times 0.726 \times 10^{\text{exp-7}} \times \text{F-factor} \times 20.9(20.9 - \%O_2)$$

where:

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CO(ppm) = Carbon monoxide emission concentration in ppm
measured by the FGD inlet CEM

system

F-factor = The appropriate F-factor under 40 CFR
75

O2(%) = Oxygen concentration % measured by the FGD
inlet CEM system

Daily average data are reported according to 40 CFR 60.49a
within 30 days following the end of the calendar quarter.

Manufacturer Name/Model Number: ADV POLLUTION INSTRU / OR EQUIV.

Lower Permit Limit: 0 parts per million (by volume)

Reference Test Method: 40 CFR 60 APP A, M10

Monitoring Frequency: CONTINUOUS

Averaging Method: 24-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/02.

Subsequent reports are due every 3 calendar month(s).

Condition 57: Compliance Certification

Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 40CFR 60.42a(a)(1), NSPS Subpart Da

Item 57.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 57.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

No owner or operator subject to the provisions of 40 CFR
60 Da shall cause to be discharged into the atmosphere
from any affected facility any gases which contain
particulate matter in excess of 0.03 lb/million Btu heat
input derived from the combustion of solid, liquid, or
gaseous fuel.

While firing coal, the facility shall conduct periodic



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monitoring by stack emission testing this source for particulates at least once per permit term based on methods and procedures approved by this department.

Upper Permit Limit: 0.03 pounds per million Btus

Reference Test Method: 40CFR60 App A, M5B

Monitoring Frequency: AS REQUIRED - SEE MONITORING

DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST

METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 58: Compliance Certification

Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 40CFR 60.42a(b), NSPS Subpart Da

Item 58.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001

Item 58.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected facility any gases which exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.

Parameter Monitored: OPACITY

Upper Permit Limit: 27 percent

Reference Test Method: 40 CFR 60 App B

Monitoring Frequency: CONTINUOUS

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/02.

Subsequent reports are due every 3 calendar month(s).

Condition 59: Compliance Certification

Effective between the dates of 04/30/2002 and 04/30/2007

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Permit ID: 9-2938-00003/00002

Facility DEC ID: 9293800003



Applicable Federal Requirement: 40CFR 60.43a(a)(1), NSPS Subpart Da

Item 59.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 59.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The applicable SO₂ limit for Emission Source B0001 is 0.70 lb/MMBtu (30-day rolling average) as contained in AES Somerset Station's Prevention of Significant Deterioration (PSD) permit. Associated with this SO₂ emission limit is a sliding required SO₂ removal efficiency, based on the SO₂ emission rate. Emissions are calculated and reported according to the following formula, using data collected and reported pursuant to 40 CFR 75:

$$\text{SO}_2(\text{lb/MMBtu}) = \text{SO}_2(\text{ppm}) \times 1.660 \times 10^{\text{exp}7} \times \text{Fc factor} \times 100 / \% \text{CO}_2$$

where:

SO₂(ppm) = Sulfur Dioxide emission concentration in ppm measured on an hourly basis by the

Emission Point 00001 CEM system

Fc-factor = The appropriate Fc-factor as reported to EPA

under 40 CFR 75

CO₂(%) = Carbon dioxide emission concentration in % measured on an hourly basis by

the Emission Point 00001 CEM system

The SO₂(lb/MMBtu) emission rate for Emission Source B0001 must be monitored and reported using the Emission Point 00001 CEM system as detailed in the AES Somerset Station Unit 1 CEM monitoring plan (April, 2000). Data is reported according to 40 CFR 60.49a within 30 days following the end of the calendar quarter.

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Facility DEC ID: 9293800003



It is acceptable for AES Somerset to operate the monitoring system and process data (invalid data periods, etc.) entirely according to 40 CFR 75.

Manufacturer Name/Model Number: A POL INST 100AH MIL ROY3300/EQUIV
Upper Permit Limit: 0.70 pounds per million Btus
Reference Test Method: 40 CFR 60 APP A, M6C
Monitoring Frequency: CONTINUOUS
Averaging Method: 30-DAY ROLLING AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/02.
Subsequent reports are due every 3 calendar month(s).

Condition 60: Compliance Certification
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 40CFR 60.43a(a)(2), NSPS Subpart Da

Item 60.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001

Regulated Contaminant(s):
CAS No: 007446-09-5 SULFUR DIOXIDE

Item 60.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
Monitoring Description:

The applicable SO₂ removal efficiency requirement for Emission Source B0001 is 70% minimum (30-day rolling average) to 90%, depending on the actual SO₂ rate. Removal efficiency is calculated and reported according to the following formulas, using data collected and reported pursuant to 40 CFR 75:

$$\text{SO}_2 \text{ removal efficiency} = (1 - (\text{SO}_2 \text{ lb/MMBtu outlet} / \text{SO}_2 \text{ lb/MMBtu inlet})) \times 100$$

Manufacturer Name/Model Number: A POL INST 100AH MIL ROY3300/EQUIV
Lower Permit Limit: 70 percent
Reference Test Method: 40 CFR 60 App A, M6C
Monitoring Frequency: CONTINUOUS



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Permit ID: 9-2938-00003/00002

Facility DEC ID: 9293800003

Averaging Method: 30-DAY ROLLING AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/02.
Subsequent reports are due every 3 calendar month(s).

Condition 61: Compliance Certification
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 40CFR 60.44a(a)(1), NSPS Subpart Da

Item 61.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 61.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The applicable NO_x limit for Emission Source B0001 is 0.60 lb/MMBtu (30-day rolling average). Emissions are calculated using data collected and reported pursuant to 40 CFR 75.

The NO_x(lb/MMBtu) emission rate for Emission Source B0001 is monitored and reported using the Emission Point 00001 CEM system as detailed in the AES Somerset Unit 1 CEM monitoring plan (April, 2000). Data is reported according to 40 CFR 60.49a within 30 days following the end of the calendar quarter.

It should be noted that the same CEM system is used to report NO_x emissions under both 40 CFR 60 and 40 CFR 75. There are differences in data validation procedures between the two parts (e.g., 40 CFR 60 requires that data be invalidated retroactively from the time of a failed daily calibration, while 40 CFR 75 requires that data be invalidated prospectively from the time of a failed daily calibration). It is acceptable for AES Somerset to operate the monitoring system and process data (invalid data periods, etc.) entirely according to 40 CFR 75. Thus, the minimum data collection requirements under 40 CFR 60.47a(f) will be achieved; data will be filled in



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Facility DEC ID: 9293800003

during monitor downtime through proscribed missing data procedures in 40 CFR 75.

Manufacturer Name/Model Number: TECO 42C, MIL ROY3300 / EQUIVALENT

Upper Permit Limit: 0.60 pounds per million Btus

Reference Test Method: 40 CFR 60 APP A, M7E

Monitoring Frequency: CONTINUOUS

Averaging Method: 30-DAY ROLLING AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/02.

Subsequent reports are due every 3 calendar month(s).

Condition 62: Compliance Certification

Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 40CFR 60.47a(a), NSPS Subpart Da

Item 62.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001

Item 62.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The owner or operator of an affected facility shall install, calibrate, maintain, and operate a continuous monitoring system, and record the output of the system, for measuring the opacity of emissions discharged to the atmosphere, except where gaseous fuel is the only fuel combusted. If opacity interference due to water droplets exists in the stack (for example, from the use of an FGD system), the opacity is monitored upstream of the interference (at the inlet to the FGD system).

The saturated flue gas following the flue gas desulfurization (FGD) system necessitates locating the required opacity monitor in the ductwork preceding the FGD system for AES Somerset Station.

Manufacturer Name/Model Number: LAND MODEL 4500 MK II / EQUIVALENT

Parameter Monitored: OPACITY

Upper Permit Limit: 27 percent

Reference Test Method: 40 CFR 60 App B, PS1

Monitoring Frequency: CONTINUOUS



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Permit ID: 9-2938-00003/00002

Facility DEC ID: 9293800003

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)r Reports due 30 days after the reporting period.

The initial report is due 7/30/02.

Subsequent reports are due every 3 calendar month(s).

Condition 63: Compliance Certification
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 40CFR 73.

Item 63.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 63.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This facility is subject to the Title IV Acid Rain Regulations found in 40 CFR Parts 72,73,75,76,77 and 78. The Acid Rain Permit (effective date 01/26/1999) is attached to this Title V facility operating permit.

Emission Source B0001 must monitor and report SO₂(lb/hr) emissions under 40 CFR 75. The SO₂(lb/hr) emission rate for Emission Source B0001 is monitored and reported using the Emission Point 00001 CEM system as detailed in the AES Somerset Station Unit 1 CEM monitoring plan (April, 2000).

Manufacturer Name/Model Number: A POL INST 100AH MIL ROY3300/EQUIV

Reference Test Method: 40 CFR 60 APP A, M6C

Monitoring Frequency: CONTINUOUS

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/02.

Subsequent reports are due every 3 calendar month(s).

Condition 64: Compliance Certification
Effective between the dates of 04/30/2002 and 04/30/2007



Applicable Federal Requirement: 40CFR 76.5(a)(2)

Item 64.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00001 Emission Point: 00001

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 64.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The applicable NO_x limit for Emission Source B0001 is 0.46 lb/MMBtu (annual average), effective January 1, 2000.

However, EPA has approved AES Somerset's application for early election for Emission Source B0001 under 40 CFR 76.8. Therefore, the applicable NO_x limit for Emission Source B0001 is 0.50 lb/MMBtu (annual average) from January 1, 1997 through December 31, 2007, and 0.46 lb/MMBtu (annual average) beginning January 1, 2008. The NO_x(lb/MMBtu) emission rate for Emission Source B0001 is monitored and reported using the Emission Point 00001 CEM system as detailed in the AES Somerset Unit 1 CEM monitoring plan (April,2000). Emissions are reported using data collected and reported pursuant to 40 CFR 75.

Manufacturer Name/Model Number: TECO 42C, MIL ROY3300 / EQUIVALENT

Upper Permit Limit: 0.5 pounds per million Btus

Reference Test Method: 40 CFR 60 APP A M7E

Monitoring Frequency: CONTINUOUS

Averaging Method: CALENDAR YEAR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/02.

Subsequent reports are due every 3 calendar month(s).

Condition 65: Compliance Certification
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 227-1.3

Item 65.1:

The Compliance Certification activity will be performed for:

New York State Department of Environmental Conservation

Permit ID: 9-2938-00003/00002

Facility DEC ID: 9293800003



Emission Unit: S-00002

Item 65.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operators of oil-fired boilers which are not exempt from permitting and where a continuous opacity monitor is not utilized for measuring smoke emissions, shall be required to perform the following:

1) Observe the stack for each boiler which is operating on oil at steady state operation once per day for visible emissions. This observation(s) must be conducted during daylight hours except during adverse weather conditions (fog, rain, or snow).

2) The results of each observation must be recorded in a bound logbook or other format acceptable to the Department. The following data must be recorded for each stack:

- date and time of day
- observer's name
- identity of emission point
- weather condition
- was a plume observed?

Inclement weather conditions shall be recorded for those days when observations are prohibited. This logbook must be retained at the facility for five (5) years after the date of the last entry.

3) If the operator observes any visible emissions (other than steam - see below) two consecutive days firing oil (the firing of other fuels in between days of firing oil does not count as an interruption in the consecutive days of firing oil), then a Method 9 analysis (based upon a 6-minute mean) of the affected emission point(s) must be conducted within two (2) business days of such occurrence.

The results of the Method 9 analysis must be recorded in the logbook. The operator must contact the Regional Air Pollution Control Engineer within one (1) business day of performing the Method 9 analysis if the opacity standard is contravened. Upon notification, any corrective actions or future compliance schedules shall be presented to the Department for acceptance.



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**** NOTE **** Steam plumes generally form after leaving the top of the stack (this is known as a detached plume). The distance between the stack and the beginning of the detached plume may vary. However, there is (normally) a distinctive distance between the plume and stack. Steam plumes are white in color and have a billowy consistency. Steam plumes dissipate within a short distance of the stack (the colder the air the longer the steam plume will last) and leave no dispersion trail downwind of the stack.

Monitoring Frequency: DAILY

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 66: Compliance Certification
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 227-2.4(b)(1)

Item 66.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00002 Emission Point: 0001A

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 66.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emission sources B000A and B000B are small package boilers rated at 195 MMBtu/hr maximum heat input each. These emission sources burn No. 2 distillate fuel oil mixed with kerosene, and diesel fuel. The applicable NO_x emission limit for these sources is 0.30 lb/MMBtu. Under AES New York's NO_x RACT Compliance Plan, AES Somerset complies by meeting a system-wide daily emission rate during the ozone season (May 1 through September 30) and a 30-day rolling average emission rate during the non-ozone season (October 1 through April 30).

Records of boiler fuel usage and hours of operation must be maintained on site for five (5) years.

Monitoring Frequency: AS REQUIRED - SEE MONITORING

New York State Department of Environmental Conservation

Permit ID: 9-2938-00003/00002

Facility DEC ID: 9293800003



DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/02.

Subsequent reports are due every 3 calendar month(s).

Condition 67: Compliance Certification

Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 40CFR 60.252(c), NSPS Subpart Y

Item 67.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00003

Item 67.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

An owner or operator subject to the provisions of this subpart shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal, gases which exhibit 20 percent opacity or greater. Compliance with this requirement shall be determined by the source owner conducting a daily survey (non-method 9 observation, non-quantitative opacity reading) of visible emissions from these sources. If any atypical visible emissions are identified, corrective action is required as appropriate for the source. If corrective action does not abate the emissions, a Method 9 observation shall be performed to determine compliance and the results recorded in a log book. The facility owner/operator must contact the Regional Air Pollution Control Engineer within one business day of performing the Method 9 observation if the opacity standard is exceeded. Records of daily survey of visible emissions must be retained for five years.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: 40 CFR 60 APP A, M9

Monitoring Frequency: DAILY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

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Condition 68: Compliance Certification
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 201-3.2(c)

Item 68.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00004

Item 68.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operation of the power block diesel generator is limited to less than 500 hours per year (based on a rolling 12-month average). The owner or operator must maintain records on site for five years. Annual report must be submitted to the regional office indicating rolling 12-month average for each calendar month of the reporting year.

Monitoring Frequency: MONTHLY

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/03.

Subsequent reports are due every 12 calendar month(s).

Condition 69: Compliance Certification
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable Federal Requirement: 6NYCRR 201-3.2(c)

Item 69.1:

The Compliance Certification activity will be performed for:

Emission Unit: S-00005

Item 69.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operation of the FGD diesel generator is limited to less



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than 500 hours per year (based on a rolling 12-month average). The owner or operator must maintain records on site for five years. Annual report must be submitted to the regional office indicating rolling 12-month average for each calendar month of the reporting year.

Monitoring Frequency: MONTHLY

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/03.

Subsequent reports are due every 12 calendar month(s).



STATE ONLY ENFORCEABLE CONDITIONS
****** Facility Level ******

Condition 70: Unavoidable noncompliance and violations
Effective between the dates of 04/30/2002 and 04/30/2007

Applicable State Requirement: 6NYCRR 201-1.4

Item 70.1:

At the discretion of the commissioner a violation of any applicable emission standard for necessary scheduled equipment maintenance, start-up/shutdown conditions and malfunctions or upsets may be excused if such violations are unavoidable. The following actions and recordkeeping and reporting requirements must be adhered to in such circumstances.

(a) The facility owner and/or operator shall compile and maintain records of all equipment maintenance or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the commissioner's representative when requested to do so in writing or when so required by a condition of a permit issued for the corresponding air contamination source except where conditions elsewhere in this permit which contain more stringent reporting and notification provisions for an applicable requirement, in which case they supercede those stated here. Such reports shall describe why the violation was unavoidable and shall include the time, frequency and duration of the maintenance and/or start-up/shutdown activities and the identification of air contaminants, and the estimated emission rates. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for equipment maintenance or start-up/shutdown for the facility to the commissioner's representative.

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superceded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

(c) The Department may also require the owner and/or operator to include in reports described under (a) and (b) above an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions depending on the deviation of the malfunction and the air contaminants emitted.

(d) In the event of maintenance, start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard, the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air quality standard. Reasonably available control technology, as determined by the commissioner, shall be



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applied during any maintenance, start-up/shutdown or malfunction condition subject to this paragraph.

(e) In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets.

Condition 71: General Provisions

Effective between the dates of 04/30/2002 and 04/30/2007

Applicable State Requirement: 6NYCRR 201-5.

Item 71.1:

This section contains terms and conditions that are not federally enforceable and are not required under the Act or under any of its applicable requirements. Terms and conditions so designated are not subject to the requirements of Section 201-6.4 of Part 201.

Item 71.2:

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

Item 71.3:

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

Condition 72: Permit Exclusion Provisions

Effective between the dates of 04/30/2002 and 04/30/2007

Applicable State Requirement: 6NYCRR 201-5.

Item 72.1:

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any currently pending or future legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR).

The issuance of this permit by the Department and the receipt thereof by the Applicant does not supercede, revoke or rescind an order or modification thereof on consent or determination by the Commissioner issued heretofore by the Department or any of the terms, conditions or requirements



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contained in such order or modification thereof unless specifically intended by this permit.

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting the right of the Department to bring any future action, or pursue any pending action, either administrative or judicial, to required remediation, contribution for costs incurred or funds expended, for any violations, past, present or future, known or unknown, of applicable federal law, the ECL, or the rules and regulations promulgated thereunder, or conditions contained in any other licenses or permits issued to the Applicant and not addressed in this permit.

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting the right of the Department to pursue any claims for natural resource damages against the Applicant.

Condition 73: Contaminant List

Effective between the dates of 04/30/2002 and 04/30/2007

Applicable State Requirement: 6NYCRR 201-5.3(b)

Item 73.1:

Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).

CAS No: 000630-08-0

Name: CARBON MONOXIDE

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

CAS No: 0NY075-00-0

Name: PARTICULATES

CAS No: 007446-09-5

Name: SULFUR DIOXIDE

Condition 74: Air pollution prohibited

Effective between the dates of 04/30/2002 and 04/30/2007

Applicable State Requirement: 6NYCRR 211.2

Item 74.1:

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.



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Condition 75: Compliance Demonstration

Effective between the dates of 04/30/2002 and 04/30/2007

Applicable State Requirement: 6NYCRR 227-1.4(a)

Item 75.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 75.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Any person who owns a stationary combustion installation (excluding gas turbines), with a total maximum heat input capacity exceeding 250 million Btu per hour shall install, operate in accordance with manufacturer's instructions, and properly maintain accurate instruments satisfying the criteria in appendix B of title 40, part 60 of the Code of Federal Regulations, or approved by the commissioner on an individual case basis, for continuously monitoring and recording opacity, and when sulfur dioxide continuous monitoring is required by Part 225 of this Title for continuously monitoring and recording either the percent oxygen or carbon dioxide in the flue gases from such installations at all times that the combustion installation is in service. Where gas is the only fuel burned, monitoring and recording of opacity is not required.

Parameter Monitored: OPACITY

Upper Permit Limit: 27 percent

Monitoring Frequency: CONTINUOUS

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/02.

Subsequent reports are due every 3 calendar month(s).