

OPERATING AIR PERMIT

Pursuant to the Regulations of the Arkansas Operating Air Permit Program, Regulation #26:

Permit #: 449-AOP-R1

IS ISSUED TO:

Entergy-Arkansas, Inc.-Independence
555 Point Ferry Road
Newark, AR 72562
Independence County
CSN:32-0042

THIS PERMIT AUTHORIZES THE ABOVE REFERENCED PERMITTEE TO INSTALL, OPERATE, AND MAINTAIN THE EQUIPMENT AND EMISSION UNITS DESCRIBED IN THE PERMIT APPLICATION AND ON THE FOLLOWING PAGES. THIS PERMIT IS VALID BETWEEN:

March 10, 1998

and

March 9, 2003

AND IS SUBJECT TO ALL LIMITS AND CONDITIONS CONTAINED HEREIN.

Signed:

Keith A. Michaels

Date

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SECTION I: FACILITY INFORMATION

PERMITTEE:	Entergy-Arkansas, Inc.- Independence
CSN:	32-0042
PERMIT NUMBER:	449-AOP-R1
FACILITY ADDRESS:	555 Point Ferry Road Newark, Arkansas 72562
COUNTY:	Independence
CONTACT POSITION:	Environmental Support
TELEPHONE NUMBER:	(501) 377-4032
REVIEWING ENGINEER:	Nancy Spencer Rogers
UTM North-South (X):	3811
UTM East-West (Y):	579

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SECTION II: INTRODUCTION

Entergy-Arkansas, Inc. operates the Independence Steam Electric Station located in Newark, Arkansas. Permit #449-AOP-R1 is a minor modification to the original Title V permit, Permit #449-AOP-R0. In this minor modification, storage tanks SN-10 and SN-11 and the Emergency Diesel Generator (SN-08) and the Fire Pump Emergency Diesel Generator (SN-09) were moved to the insignificant activities list. Storage tank SN-15 was removed from the permit because it was no longer in existence. The fuel throughput for storage tanks SN's 12, 13, and 14 was increased. The true vapor pressure for SN-13 and SN-14 was also increased.

The Independence Plant is a two-unit electric generating station which generates electric energy for sale. Electricity is produced by using sub-bituminous coal as the primary fuel and No. 2 fuel oil as the start-up fuel in both boilers to produce steam, which is used to drive turbines which turn the electric generators.

Independence Steam Electric Station operates currently as a base-load facility. In the future, the facility expects to operate as more of a peaking unit. The facility has two identical coal-fired units (Units 1 and 2) with a total capacity of approximately 1690 megawatts (MW). Low sulfur sub-bituminous coal is delivered by rail from northeastern Wyoming. Each rail car is equipped with rotary couplings which enable the rotary car dumper to grasp one car at a time and empty it without removing the car from the train. The rotary car dumper is capable of emptying approximately 30 cars per hour. Transfer conveyors move the coal to a transfer tower. From here the coal can be conveyed to three different areas including the plant to be pulverized and burned, the stacker/reclaimer, or dead storage. The stacker reclaimer has the capability of either stacking coal out or reclaiming the coal in the ready storage piles. The dead storage piles are used for long term storage of coal. Each coal pile is also managed by the use of heavy vehicles including front end loaders and bull dozers.

Coal is burned in the steam generators which feed turbine generators to produce electricity. Exhaust gases from both units are expelled through two 1000 foot stacks within a common outer chimney shell. Waste heat dissipation is through two hyperbolic natural draft cooling towers which obtain makeup water from the White River and from the capture of site drainage. Other major plant components include facilities for storage and handling of coal and disposal of ash; a switch-yard; electrostatic precipitators; water treatment: surge and other ponds; and intake and discharge structures.

Emissions from the plant include sulfur dioxide, nitrogen oxides, particulates and carbon monoxide. The emission levels for each of these are governed by Federal and State emission and ambient air regulations. In-stack monitoring is designed to meet the requirements of Acid Rain

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(40 CFR 75) and New Source Performance Standards. Oxides of nitrogen are subject to NSPS and Acid Rain requirements; particulates are subject to NSPS and PSD requirements; sulfur dioxide emissions are subject to PSD, NSPS and Acid Rain requirements and carbon monoxide emissions are subject to PSD requirements.

A summary of facility wide emissions is provided in the following table. Specific emission unit information is located by the indicated cross reference pages.

EMISSION SUMMARY					
Source No.	Description	Pollutant	Emission Rates		Cross Reference Page
			lb/hr	tpy	
Total Allowable Emissions		PM ₁₀	336.4	1471.9	
		SO ₂	16182.2	70877.6	
		VOC	70.7	309.0	
		CO	6471.7	28344.1	
		NO _x	12286.0	53812.4	
		PM	1177.8	5158.6	
		Lead	2.2	9.6	
SN-01 (C1)	Unit 1 Boiler- Coal Fired	PM ₁₀	65.0	284.7	12
		SO ₂	8091.0	35438.6	
		VOC	35.0	153.3	
		CO	3232.0	14156.2	
		NO _x	6090.0	26674.2	
		PM	283.0	1239.6	
		Lead	1.1	4.8	
SN-01 (C1)	Unit 1 Boiler-No. 2 Fuel Oil	PM ₁₀	0.1	0.2	12
		SO ₂	524.1	2295.5	
		VOC	1.5	6.4	
		CO	3232.0	14156.2	
		NO _x	175.2	767.3	
		PM	0.1	0.3	
		Lead	0.1	0.3	
SN-02 (C2)	Unit 2 Boiler- Coal Fired	PM ₁₀	65.0	284.7	12
		SO ₂	8091.0	35438.6	
		VOC	35.0	153.3	
		CO	3232.0	14156.2	
		NO _x	6090.0	26674.2	
		PM	283.0	1239.6	
		Lead	1.1	4.8	

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EMISSION SUMMARY					
Source No.	Description	Pollutant	Emission Rates		Cross Reference Page
			lb/hr	tpy	
SN-02 (C2)	Unit 2 Boiler- No. 2 Fuel Oil	PM ₁₀	0.1	0.2	12
		SO ₂	524.1	2295.5	
		VOC	1.5	6.4	
		CO	3232.0	14156.2	
		NO _x	175.2	767.3	
		PM	0.1	0.3	
		Lead	0.1	0.3	
SN-03 (M1)	Rail Car Rotary Dumper	PM ₁₀	0.1	0.1	24
		PM	16.0	70.1	
SN-04 (M30-31)	Fly Ash Silos(2) with Fabric Filters	PM ₁₀	0.1	0.1	26
		PM	1.0	4.4	
SN-05 (C3)	Auxiliary Boiler	PM ₁₀	0.6	2.6	12
		SO ₂	0.2	0.5	
		VOC	0.3	1.2	
		CO	7.7	33.8	
		NO _x	106.0	464.0	
		PM	1.0	4.2	
SN-06	Handling/Conveying Emissions	PM ₁₀	161.3	706.5	28
		PM	549.5	2406.9	
SN-07 (T1)	Fuel Oil Storage Tank	VOC	0.3	1.4	30
SN-12 (T27)	UST Diesel Tank	VOC	---	<0.1	31
SN-13 (T29)	UST Automotive Unleaded Gasoline Tank	VOC	---	<0.1	31
SN-14 (T30)	Unleaded Gasoline Tank	VOC	---	<0.1	31
SN-16 (X35)	Cooling Tower #1	PM ₁₀	4.6	20.0	33
		PM	4.6	20.0	
SN-17 (X36)	Cooling Tower #2	PM ₁₀	4.6	20.0	33
		PM	4.6	20.0	

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SECTION III: PERMIT HISTORY

449-A was issued to Arkansas Power & Light Company on November 1, 1977. 449-A permitted the installation of the coal-fired steam electric station near Newark on the White River. The permit established the limit of the SO₂ emission rate at 0.93 lbs/mmBtu heat input. The maximum emission rate for TSP was limited to 611 lb/hr based on the use of coal with a heat content of 8700 Btu/lb and a maximum sulfur and ash content of 0.45 percent and 8 percent, respectively.

PSD-AR-48 was issued by the Environmental Protection Agency (EPA) to Arkansas Power and Light Company to construct the Independence Steam Electric Station on March 30, 1978. This PSD permit limited the emission rates from the common stack of the two 800 MW coal-fired units (Units 1 and 2) to 15,510 lb/hr SO₂ and 611 lb/hr TSP based on the use of coal with a heat content of 8,700 BTU/lb and a maximum sulfur of 0.45% and a maximum ash content of 8%. Limits of 0.04 lb/10⁶ Btu TSP and 0.93 lb/10⁶ Btu SO₂ were also included. The EPA determined that the facility met the Best Available Control Technology (BACT) requirements for SO₂ and TSP. (The actual technology requirements were not specified in the permit.) This source was also subject to the requirements of 40 CFR 60, Subpart D-*Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971*, except that the maximum allowed emissions for TSP and SO₂ were 0.04 and 0.93 lb/10⁶ BTU and 40 CFR 60, Subpart Y-*Standards of Performance for Coal Preparation Plants*.

449-AR-1 was issued to Arkansas Power & Light Company- Independence Steam Electric Station on April 9, 1991. In June, 1990, AP&L announced its intent to sell a percentage of power from Unit 2 to Entergy Power Incorporated (EPI). EPI is a subsidiary of Entergy Corporation. It was determined that a revised permit for the Independence facility was needed. The revised permit incorporated existing lb/10⁶ Btu limits for particulate matter, and sulfur dioxide. The lb/hr limit for SO₂ was increased from 15,510 lb/hr to 16,182 lb/hr (8,091 lb/hr for each unit.) The lb/hr limit for TSP was increased from 611 lb/hr to 696 lb/hr (348 lb/hr for each unit.) The limits from 40 CFR 60, Subpart D-*Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971*, were incorporated for oxides of nitrogen and opacity. It also identified emission sources that were not addressed in the original permit application (i.e. rotary car dumper, fly ash silos) and estimated pollutant emissions from fuel oil storage facilities and air toxic emissions. The restrictions of 40 CFR 60, Subpart Y-*Standards of Performance for Coal Preparation Plants* were removed from the permit because the facility commenced construction before the applicable date.

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0449-AOP-R0 was the first operating air permit issued to Entergy-Arkansas, Inc.-Independence Steam Electric Station under Regulation 26 (Title V). There were no physical changes in the method of operation at the facility.

Entergy-Arkansas, Inc. increased the CO limit for the Independence facility from 300 lb/hr (50 ppm) to 3232 lb/hr or 300 ppm hourly (100 ppm 24-hour average) to reflect the optimum range for unit operating efficiency. Modeling analysis at a 500 ppm emission rate was conducted and showed no significant impact to the *NAAQS*. In addition, a Best Achievable Control Technology review was conducted since the facility is currently subject to PSD.

Entergy-Arkansas, Inc. elected to permit a new NO_x emission limit of 0.45 lb/mmBtu annual average at Independence Units 1 and 2. This early election is allowed under 40 CFR 76 of the Acid Rain Regulations. This limit was applicable beginning calendar year 1997. However, Entergy-Arkansas, Inc. shall not submit an application for an alternative emissions limitation demonstration period until the earlier of January 1, 2008, or early election is terminated pursuant to 40 CFR 76.8. The NSPS limit of 0.7 lb/mmBtu and the state-imposed lb/hr limit will still apply to these units.

BACT Analysis for Permit #449-AOP-R0:

When modifications at a facility that is a major stationary source result in an increase in potential emissions above the PSD significance level, a Best Available Control Technology (BACT) analysis is required. BACT is performed on a case-by-case basis taking economic, environmental, and energy impacts into consideration. Technical feasibility is also examined as a part of the BACT analysis. The appropriate level of emission control must be determined for each new or modified source of a PSD pollutant. Control equipment capable of this level of control must then be installed. Also, an ambient air impact analysis must be conducted in order to determine whether or not the allowable emissions from the proposed source, in conjunction with all other applicable emission increases or reductions, would cause or contribute to a violation of the applicable PSD increments and the National Ambient Air Quality Standards (*NAAQS*.)

A BACT analysis was performed for CO emissions from Unit 1 boiler and Unit 2 boiler. The analysis is described below.

BACT Analysis for CO

Sources that have been modified and require a PSD/BACT review for CO are Unit 1 boiler and Unit 2 boiler. The study reviewed controls for CO based on the RACT/BACT/LAER

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Clearinghouse and recent developments in control equipment. Technologies to control CO emissions from both boilers were evaluated according to the top down BACT approach.

The top down BACT approach requires the following steps:

- * Identification of all control technologies
- * Elimination of technically infeasible options
- * Ranking of remaining control technologies by control effectiveness
- * Evaluation of most effective control technology
- * Selection of BACT

Carbon monoxide is a product resulting from the incomplete combustion of carbonaceous fuels due to low excess oxygen and poor fuel/air mixing. The two methods for controlling CO in boilers are good combustion practices and use of a CO catalyst.

Good combustion practices are the standard technology for reducing carbon monoxide emissions. It is generally defined as adequate fuel/air mixing and maintaining oxygen levels such that sub-stoichiometric ratios are not reached. However, there is a limit to CO control by using excess air because it can promote production of nitrogen oxides (NO_x).

The other method of controlling carbon monoxide emissions is through the use of a CO catalyst. The catalyst oxidizes CO to carbon dioxide. The process requires no reagent. In order to achieve the required operating temperatures of 650 to 750 degrees Fahrenheit, the catalyst must be located between the economizer outlet and the air heater inlet.

Application of the CO catalyst technology to a coal fired source was deemed technically infeasible. Due to its position in the ductwork, the catalyst is exposed to a substantial amount of fly ash in the flue gas stream. Other disadvantages include pluggage and erosion from abrasive combustion products and poisoning of the catalyst from acid gases and trace metals in the flue gas.

Good combustion practices were determined to be technically feasible for this facility. This application for controlling CO has no adverse environmental impacts other than the potential for increased NO_x emissions. The concentration of CO in the flue gas corresponding to good combustion practices is not expected to result in a significant effect on existing ambient air quality. Also, there are no significant economic impacts related to this application.

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Arkansas Power & Light Company-Independence currently has a 300 lb/hr limit for CO emissions for each Unit boiler. Good combustion practices designed to meet a CO emission limit of 100 ppm on a 24-hour average basis was determined to be BACT for CO for this facility.

Ambient Air Impact Analysis

A preliminary analysis is used to determine if the predicted ambient impact caused by the increase in emissions will exceed the ambient air quality impact significance level. If the preliminary analysis indicates an ambient impact below the ambient air quality impact significance level, no further analysis is required. If the preliminary analysis indicates an ambient impact above the ambient air quality impact significance level, the preliminary analysis is used to determine the area of impact and a full impact analysis is required.

The results from stack testing showed a significant increase in CO emissions. Thus, the facility is required to conduct an ambient air impact analysis for this pollutant. The facility has not made any changes or expansions that would constitute a modification as defined in Section 19.2 of Regulation 19. As indicated in the table below, the ambient impact is below the ambient air quality impact significance level and no further analysis is required. The permittee modeled the increases using two Cartesian receptor grids. One is a coarse grid consisting of receptors spaced every 500 meters extending 10 kilometers from the emission stacks. The second receptor grid is a fine grid that extends 1 km from the property line with receptors spaced 100 meters apart.

Ambient Air Impact Analysis Results		
Pollutant	Concentration (Fg/m³)	
	Significance Level	Modeling Results
CO	2000 (1-hour average)	306.0
	500 (8-hour average)	67.0

The reviewer modeled the proposed increases using a Cartesian coordinate system to verify the results. The reviewer's analysis also indicated an ambient air impact analysis below the modeling significance level.

Ambient Air Quality Monitoring Data

The PSD regulations require that up to a year of pre-construction ambient air monitoring data be collected for each pollutant subject to PSD review. If it is demonstrated that the impact of these emissions are less than the de minimis monitoring exemption levels, an exemption from the PSD

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pre-construction monitoring can be granted by the Department. The results of the review are presented in the following paragraph.

CO - The monitoring de minimis level (8-hour average) for this pollutant is 575 Fg/m³. The maximum predicted impact is 306.0 Fg/m³. Since this is below the de minimis level, no pre-construction monitoring data will be required for this pollutant.

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SECTION IV: EMISSION UNIT INFORMATION

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SN-01, SN-02 and SN-05
Boilers

Source Description

SN-01 and SN-02 are 8700 million BTU per hour coal fired boilers. Both boilers were installed in 1974. Unit 1 (SN-01) was placed into operation in 1983 and Unit 2 (SN-02) was placed into operation in 1985. The boilers use sub-bituminous coal as their primary fuel and No. 2 fuel oil as the start-up fuel. The boilers are permitted to operate under alternating scenarios. Scenario I represents combustion from coal and Scenario II represents No. 2 fuel oil combustion. The boilers supply steam which feed turbine generators to produce electricity. Both units are subject to NSPS Subpart D, which regulates emissions of particulate matter, sulfur dioxide, and nitrogen oxides from fossil-fuel-fired steam generators.

A PSD permit was issued by the EPA in 1978 for the Independence facility. The facility underwent PSD review for SO₂ and TSP. The limits of 0.04 lb/10⁶ Btu TSP and 0.93 lb/10⁶ Btu SO₂ are still in effect. A PSD permit for CO was issued by the Department in 1998. These limits are specified in the Specific Conditions section for these sources.

Particulate emissions from SN-01 and SN-02 are controlled with electrostatic precipitators. NSPS emissions standards for particulate matter are 0.1 lb/mmBtu and a maximum opacity of 20 percent. However, the more stringent PSD emission limitation of 0.04 lb/mmBtu is in effect for this facility. A continuous opacity monitor records opacity emissions.

Sulfur dioxide emissions from SN-01 and SN-02 are limited by the use of low-sulfur coal. The NSPS emission standard for sulfur dioxide is 1.2 lb/mmBtu. However, the more stringent PSD emission limitation of 0.93 lb/mmBtu is in effect for this facility. A continuous emissions monitoring system measures sulfur dioxide emissions. Continuous emissions monitoring systems also measure CO₂ emissions and NO_x emissions under Acid Rain requirements (40 CFR 75).

SN-05 is a 183 million BTU per hour boiler. It was installed in 1974. This auxiliary boiler combusts No. 2 fuel in order to provide steam for unit start-up and shut-down activities. There are no control devices associated with this source. Emissions from this boiler are regulated under the State Implementation Plan (SIP), Regulation 19.

Specific Conditions

1. Pursuant to §19.501 of Regulation 19 et seq, and 40 CFR Part 52, Subpart E, the permittee shall not exceed the emission rates, when operating under Scenario I: coal firing, set forth in the following table.

Source No.	Pollutant	Emission Rate	
		(lb/hr)	(tpy)*
SN-01	PM ₁₀	65.0	284.7
	SO ₂	8091.0	35,438.6
	VOC	35.0	153.3
	CO	3232.0	14,156.2
	NO _x	6090.0	26,674.2
	lead	1.1	4.8
SN-02	PM ₁₀	65.0	284.7
	SO ₂	8091.0	35,438.6
	VOC	35.0	153.3
	CO	3232.0	14,156.2
	NO _x	6090.0	26,674.2
	lead	1.1	4.8

*Tpy was determined by multiplying the lb/hr by 8760 hrs per year and dividing by 2000 lb/ton.

2. Pursuant to §19.901 of Regulation 19 et seq, and 40 CFR Part 52, Subpart E, the permittee shall not exceed the emission rates, when operating under Scenario I: coal firing, set forth in the following table.

Source No.	Pollutant	Emission Rate	
		(lb/hr)	(tpy)*
SN-01	PM	283.0	1,239.6
	SO ₂	8091.0	35,438.6
	CO	3232.0	14,156.2
SN-02	PM	283.0	1,239.6
	SO ₂	8091.0	35,438.6
	CO	3232.0	14,156.2

*Tpy was determined by multiplying the lb/hr by 8760 hrs per year and dividing by 2000 lb/ton.

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3. Pursuant to §18.801 of Regulation 18, and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, the permittee shall not exceed the emission rates, when operating under Scenario I: coal firing, set forth in the following table.

Source No.	Pollutant	Emission Rate	
		(lb/hr)	(tpy)*
SN-01	PM	283.0	1,239.6
SN-02	PM	283.0	1,239.6

*Tpy was determined by multiplying the lb/hr by 8760 hrs per year and dividing by 2000 lb/ton.

4. Pursuant to §19.304 of Regulation 19, and 40 CFR 60, SN-01 and SN-02 are subject to 40 CFR Part 60, Subpart D, Standards of Performance for fossil fuel-fired steam generators due to a heat input capacity of greater than 250 mmBtu/hr. A copy of Subpart D is provided in Appendix A. Applicable provisions of Subpart D, include, but are not limited to:
- a. Pursuant to 40 CFR 60.42(a)(1), PM emissions shall not exceed 0.1 lb/mmBtu.
 - b. Pursuant to 40 CFR 60.42(a)(2), opacity shall not exceed 20 percent except as provided by 40 CFR 60.8 and 60.11.
 - c. Pursuant to 40 CFR 60.43(a)(2), SO₂ emissions shall not exceed 1.2 lb/mmBtu.
 - d. Pursuant to 40 CFR 60.44(a)(3), NO_x emissions shall not exceed 0.7 lb/mmBtu.
 - e. Pursuant to 40 CFR 60.45(a), the permittee shall install, calibrate, and maintain Continuous Emissions Monitoring Systems (CEMS) for NO_x, SO₂, CO₂, and opacity.
 - f. Pursuant to 40 CFR 60.45(g) excess emission and monitoring system performance reports shall be submitted to the ADEQ for every calendar quarter. Quarterly reports shall be postmarked by the 30th day following the end of the calendar quarter. Excess emissions are defined in 60.45(g)(1)(2) and (3).
 - g. Pursuant to 40 CFR 60.45(g)(1), excess opacity emissions are defined as any six minute period during which the average opacity emissions exceed 20%, except for one 6 minute average per hour of up to 27 percent opacity.
 - h. Pursuant to 40 CFR 60.45(g)(2), excess SO₂ emissions are defined as any 3 hour period during which the average emissions (arithmetic average of three contiguous one hour periods) of SO₂ as measured by a CEMS exceed the applicable standard under 60.43.
 - i. Pursuant to 40 CFR 60.45(g)(3), excess NO_x emissions are defined as any 3 hour

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period during which the average emissions (arithmetic average of three contiguous one hour periods) of NO_x as measured by a CEMS exceed the applicable standard under 60.44.

Note these units are also subject to PSD Restrictions. See the following three conditions.

5. Pursuant to §19.901 of Regulation 19 et seq, and 40 CFR Part 52, Subpart E, the emissions from SN-01 and SN-02 shall not exceed the PSD emission limits in the following table when burning coal or No. 2 fuel oil.

Source No.	Pollutant	Emission Rate (lb/mmBtu)
SN-01	PM	0.04
SN-01	SO ₂	0.93
SN-02	PM	0.04
SN-02	SO ₂	0.93

6. Pursuant to §19.304 of Regulation 19, and 40 CFR Part 60, Subpart D, emissions of sulfur dioxide from SN-01 and SN-02 shall not exceed the NSPS emission limits in the following table when burning coal or No. 2 fuel oil.

Source No.	Pollutant	Emission Rate (lb/mmBtu)
SN-01	SO ₂	1.2*
SN-02	SO ₂	1.2*

*A more stringent PSD limit of 0.93 lb/mmBtu is in effect for these units. (See Specific Condition No. 4.)

7. Pursuant to §19.304 of Regulation 19, and 40 CFR Part 60, Subpart D, emissions of particulate matter from SN-01 and SN-02 shall not exceed the NSPS emission limits in the following table when burning coal or No. 2 fuel oil.

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Source No.	Pollutant	Emission Rate (lb/mmBtu)
SN-01	PM	0.1*
SN-02	PM	0.1*

*A more stringent PSD limit of 0.04 lb/mmBtu is in effect for these units. (See Specific Condition No. 4.)

8. Pursuant to §19.705 of Regulation 19, and 40 CFR Part 52, Subpart E, the permittee shall maintain records which demonstrate compliance with the hourly SO₂ emission limit set in Specific Condition 1. These records may be used by the Department for enforcement purposes. Compliance shall be determined as the average emissions (arithmetic average of three contiguous one hour periods) of SO₂ as measured by a CEMS and converted to pounds per mmBtu. These records shall be kept on site and shall be provided to Department personnel upon request. Records shall be submitted in accordance with General Provision 8 and Plantwide Condition 14.
9. Pursuant to §19.705 of Regulation 19, and 40 CFR Part 52, Subpart E, the permittee shall maintain records which demonstrate compliance with the NO_x emission limit set in Specific Condition 1. These records may be used by the Department for enforcement purposes. Compliance shall be determined as the average emissions (arithmetic average of three contiguous one hour period) of NO_x as measured by a CEMS and converted to pounds per mmBtu. These records shall be kept on site and shall be provided to Department personnel upon request. Records shall be submitted in accordance with General Provision 8 and Plantwide Condition 14.
10. Pursuant to §19.503 of Regulation 19, and 40 CFR Part 52, Subpart E and 40 CFR 60, Subpart D, the permittee shall not cause to be discharged to the atmosphere from the boilers any emissions which exhibit an opacity greater than 20 percent when firing coal or No. 2 fuel oil. The opacity shall not exceed 20 percent (6 minute average), except for one 6-minute period per hour not to exceed 27 percent. In accordance with General Condition 8, Entergy shall notify the Department whenever excessive emissions occur, including instances due to start-up activities using fuel oil or turning off the electrostatic precipitators during shut-down operations.
11. Pursuant to §19.703 of Regulation 19, §19.901 of Regulation 19 et seq, 40 CFR Part 52, Subpart E, and A.C.A. §8- 4-203 as referenced by §8-4-304 and §8-4-311, and 40 CFR

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60, Subpart D, the permittee shall install, calibrate, maintain, and operate a continuous emission monitoring system (CEMS) for measuring opacity of emissions and all SO₂, NO_x and CO₂ emissions discharged to the atmosphere from SN-01 and SN-02 and record the output of the system. This CEMS shall comply with the Air Division's "Continuous Emission Monitoring System Standards." A copy is provided in Appendix B. The permittee shall report all excess emissions as defined by 40 CFR 60.45(g)(1),(2) and (3) and in accordance with 40 CFR 60.7(c).

Appendix B, Section II, paragraph F, shall not apply to Units 1 and 2 as it relates to excess emissions for opacity. For purposes of the opacity emissions limitations only, the permittee shall not have the 5 percent excess emissions historically allowed for the excess emissions caused by startups, shutdowns, and malfunctions. Excess opacity emissions caused by startups, shutdowns, and malfunctions for Units 1 and 2 are addressed elsewhere in this permit. However, the permittee must report all excess emissions including those excess emissions caused by startups, shutdowns, and malfunctions.

The number of startup and shutdown occurrences that occur at this facility have historically ranged from 12 to 24 per year. In general, startup begins when the ID and FD fans are started with the intent to fire the unit. Normally, startup ends when the unit achieves stable operation and the following operating parameters are met: (1) the electrostatic precipitator is placed in service, and (2) startup oil is no longer necessary to support combustion. Duct sweeps are usually considered a part of the startup operation. For these units, shutdown normally begins when the unit load or output is reduced with the intent of removing the unit from service, or when the unit trips as the result of a sudden or unforeseen failure or malfunction. Shutdown usually ends when the unit commences startup.

12. Pursuant to §19.304 of Regulation 19, and 40 CFR 60, §60.7, the permittee shall submit quarterly excess emissions and monitoring systems performance reports to the Department. The reports shall include the magnitude of excess emissions, date and time of commencement and completion of each period of excess emissions, process operating time during reporting period, date and time of each period during which the CEMS are inoperative, identification of each period of excess emissions that occurs during startup, shutdown, and malfunctions of the units, nature and cause of any malfunction (if known), and the corrective action or preventative measure adopted. Reports shall be sent to the following address:

Arkansas Department of Environmental Quality
Air Division

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Attn.: Air Enforcement
P.O. Box 8913
Little Rock, AR 72219-8913

13. Pursuant to §19.304 of Regulation 19, and 40 CFR 75, § 75.10, the permittee shall ensure that all continuous emission and opacity monitoring systems are in operation and monitoring all unit emissions or opacity at all times, except during periods of calibration, quality assurance, preventative maintenance or repair.
14. Pursuant to §19.501 of Regulation 19 et seq, and 40 CFR Part 52, Subpart E, the permittee shall not exceed the emission rates, when operating under Scenario II: fuel oil firing, set forth in the following table.

Source No.	Pollutant	Emission Rate	
		(lb/hr)	(tpy)*
SN-01	PM ₁₀	0.1	0.2
	SO ₂	524.1	2295.5
	VOC	1.5	6.4
	CO	3232.0	14156.2
	NO _x	175.2	767.3
	lead	0.1	0.3
SN-02	PM ₁₀	0.1	0.2
	SO ₂	524.1	2295.5
	VOC	1.5	6.4
	CO	3232.0	14156.2
	NO _x	175.2	767.3
	lead	0.1	0.3

*Tpy was determined by multiplying the lb/hr by 8760 hrs per year and dividing by 2000 lb/ton.

15. Pursuant to §18.801 of Regulation 18, and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, the permittee shall not exceed the emission rates, when operating under Scenario II: fuel oil firing, set forth in the following table.

Source No.	Pollutant	Emission Rate	
		(lb/hr)	(tpy)
SN-01	PM	0.1	0.3
SN-02	PM	0.1	0.3

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16. Pursuant to §19.705 of Regulation 19, and 40 CFR Part 52, Subpart E, the permittee shall maintain records which demonstrate compliance with the hourly SO₂ emission limit set in Specific Condition 13 and may be used by the Department for enforcement purposes. Compliance shall be determined as the average emissions (arithmetic average of three contiguous one hour periods) of SO₂ as measured by a CEMS and converted to pounds per mmBtu. These records shall be kept on site and shall be provided to Department personnel upon request. Records shall be submitted in accordance with General Provision 8 and Plantwide Condition 14.
17. Pursuant to §19.705 of Regulation 19, and 40 CFR Part 52, Subpart E, the permittee shall maintain records which demonstrate compliance with the hourly NO_x emission limit set in Specific Condition 13 and may be used by the Department for enforcement purposes. Compliance shall be determined as the average emissions (arithmetic average of three contiguous one hour periods) of NO_x as measured by a CEMS and converted to pounds per mmBtu. These records shall be kept on site and shall be provided to Department personnel upon request. Records shall be submitted in accordance with General Provision 8 and Plantwide Condition 14.
18. Pursuant to §19.703 of Regulation 19, 40 CFR Part 52, Subpart E, and A.C.A. §8- 4-203 as referenced by §8-4-304 and §8-4-311, the permittee shall sample and analyze each shipment of fuel oil to determine the sulfur content. The sulfur content shall not exceed 0.5 weight percent. Fuel oil sampling and analysis may be performed by the owner or operator of an affected unit, an outside laboratory, or a fuel supplier, provided that sampling is performed according to ASTM D4057-88. Each shipment shall be defined as a 5000 or 10000 barrel lot delivered to a pipeline and pumped to a loading rack. *(Note: Vendor testing would satisfy this requirement as long as the sampling is performed according to ASTM D4057-88 and the facility is able to meet the requirements of Specific Condition No. 18.)*
19. Pursuant to §19.705 of Regulation 19, and 40 CFR Part 52, Subpart E, the permittee shall maintain records of fuel oil sampling. These records shall be kept on site and made available to Department personnel upon request. These records may be used by the Department for enforcement purposes.
20. Pursuant to §19.705 of Regulation 19, A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, and 40 CFR 70.6, No. 2 fuel oil is the only fuel permitted for use in the Auxiliary boiler, SN-05.

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21. Pursuant to §19.501 of Regulation 19 et seq, and 40 CFR Part 52, Subpart E, the permittee shall not exceed the emission rates set forth in the following table when burning No. 2 fuel oil in the Auxiliary boiler, SN-05.

Source No.	Pollutant	Emission Rate (lb/hr)	Emission Rate (tpy)
SN-05	PM ₁₀	0.6	2.6
	SO ₂	0.2	0.5
	VOC	0.3	1.2
	CO	7.7	33.8
	NO _x	106.0	464.0

22. Pursuant to §18.801 of Regulation 18, and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, the permittee shall not exceed the emission rates set forth in the following table when burning No. 2 fuel oil in the Auxiliary boiler, SN-05.

Source No.	Pollutant	Emission Rate (lb/hr)	Emission Rate (tpy)
SN-05	PM/PM ₁₀	1.0	4.2

23. Pursuant to 40 CFR 70.6(a)(9)(i) and §26.7 of Regulation #26, and in accordance with General Condition 17, the permittee shall, contemporaneously with making a change from one operating scenario to another, record in a log at the permitted facility a record of the scenario under which the facility or source is operating.
24. Pursuant to §19.304 of Regulation 19, and 40 CFR Part 60, Subpart D, NO_x emissions shall not exceed the NSPS emissions standard of 0.7 lb/mmBtu when burning coal or No. 2 fuel oil (3-hour rolling average).
25. Pursuant to §19.304 of Regulation 19, and 40 CFR 60, §60.46, the permittee shall determine compliance with the particulate matter, SO₂, and NO_x emission standards in §§60.42, 60.43, and 60.44 by the test procedures and methods outlined in this section.
- Method 5 shall be used to determine particulate matter concentration.
 - Method 6 shall be used to determine the SO₂ concentration.
 - Method 7 shall be used to determine the NO_x concentration.
 - EPA approved alternative test methods may be used as specified in this section.

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26. Pursuant to §19.705 of Regulation 19, A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, and 40 CFR 70.6, the permittee shall not exceed the rates in the following table during any consecutive twelve month period from SN-01 and SN-02 when firing coal or No. 2 fuel oil.

Source No.	Pollutant	Emission Rate (tpy)
SN-01	Total Combined Emissions	
SN-02	SO ₂	70.877.6

27. Pursuant to §19.705 of Regulation 19, and 40 CFR Part 52, Subpart E, the permittee shall maintain records which demonstrate compliance with the limit set in Specific Condition 25. These records may be used by the Department for enforcement purposes. The records shall be updated on a monthly basis, shall be kept on site, and shall be provided to Department personnel upon request. An annual total and each individual month's data shall be submitted in accordance with General Provision 8 and Plantwide Condition 14.
28. Pursuant to §19.501 of Regulation 19 et seq, and 40 CFR Part 52, Subpart E, the permittee shall not exceed the rates in the following table during any consecutive twelve month period from SN-01 and SN-02 when firing coal or No. 2 fuel oil.

Source No.	Pollutant	Emission Rate (tpy)
SN-01	Total Combined Emissions	
SN-02	NO _x	53.807.1

29. Pursuant to §19.705 of Regulation 19, and 40 CFR Part 52, Subpart E, the permittee shall maintain records which demonstrate compliance with the limit set in Specific Condition 27. These records may be used by the Department for enforcement purposes. The records shall be updated on a monthly basis, shall be kept on site, and shall be provided to Department personnel upon request. An annual total and each individual month's data shall be submitted in accordance with General Provision 8 and Plantwide Condition 14.
30. Pursuant to §19.304 of Regulation 19, and 40 CFR Part 75, the permittee shall submit the required electronic data reports (EDRs) to EPA Headquarters.

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31. Pursuant to §19.304 of Regulation 19, and 40 CFR 75, Relative Accuracy tests will be performed in accordance with 40 CFR, Part 75. This relative accuracy test will meet the requirements under 40 CFR, Part 60, Subpart D.
32. Pursuant to §19.304 of Regulation 19, and 40 CFR Part 75.10(c), the permittee shall determine and record the heat input to each affected unit for every hour or part of an hour any fuel is combusted following the procedures in Appendix F of 40 CFR Part 75.

**SN-03
Rail Car Rotary Dumper**

Source Description

The coal for the Independence Steam Electric Station is received by rail. Each rail car is equipped with rotary couplings which enable the rail car rotary dumper to grasp one car at a time and empty it without removing the car from the train. The rail car rotary dumper, SN-03, is capable of emptying approximately 30 cars per hour. A rotoclone and water sprays are utilized to control emissions from this process. Emissions from the rail car rotary dumper are regulated under the State Implementation Plan (SIP), Regulation 19.

Specific Conditions

33. Pursuant to §19.501 of Regulation 19 et seq, and 40 CFR Part 52, Subpart E, the permittee shall not exceed the emission rates at SN-03 set forth in the following table.

Pollutant	lb/hr	tpy
PM ₁₀	0.1	0.1

34. Pursuant to §18.801 of Regulation 18, and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, the permittee shall not exceed the emission rates at SN-03 set forth in the following table.

Pollutant	lb/hr	tpy
PM	16.0	70.1

35. Pursuant to §19.503 of Regulation 19, and 40 CFR Part 52, Subpart E, the permittee shall not cause to be discharged to the atmosphere any emissions which exhibit an opacity greater than 20 percent. The opacity shall be measured in accordance with EPA Reference Method 9.
36. Pursuant to §19.303 of Regulation 19, and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, the permittee shall use the water sprays while the dumper is in operation.
37. Pursuant to §19.304 of Regulation 19, and 40 CFR 70.6, the permittee shall comply with the maintenance plan submitted to the Department for the rotary car dumper (See

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Appendix C). Compliance with the maintenance plan may demonstrate compliance with the limits set in Specific Condition 34. Requirements include but are not limited to the following:

- a. Inspect primary and secondary tubes for pluggage and wear
- b. Inspect and adjust v-belts
- c. Inspect secondary fan impeller for wear
- d. Inspect all bearings for grease and vibration
- e. Check dust outlet for pluggage
- f. Inspect rotoclone bearings
- g. Inspect fan housing for cracks
- h. Inspect fan blades for dust buildup
- i. Inspect spray nozzles for pluggage
- j. Clean strainers (regulator strainer and basket strainer)
- k. Check motor for vibration
- l. Check bearing temperature

The permittee may use equivalent or alternative maintenance plans for this source without undergoing a modification to this permit if the new maintenance plans have been reviewed and approved by the Department. The permittee is required to submit any new maintenance plan for this source to the Department and may not implement the maintenance plan until the facility receives approval from the Department. The permittee must submit the proposed maintenance plan(s) with a cover letter explaining any changes to the following address:

Arkansas Department of Environmental Quality
Air Division
ATTN.: Air Enforcement
Post Office Box 8913
Little Rock, AR 72219

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SN-04
Fly Ash Silos w/Fabric filters

Source Description

The Independence Plant is equipped with two (2) fly ash silos. Particulate emissions from the silos are controlled by fabric filters (SN-04) with control efficiency of 98 percent. Emissions are regulated under the State Implementation Plan, (SIP), Regulation 19.

Specific Conditions

- b. Pursuant to §19.501 of Regulation 19 et seq, and 40 CFR Part 52, Subpart E, the permittee shall not exceed the emission rates at SN-04 specified in the following table.

Pollutant	lb/hr	tpy
PM ₁₀	0.1	0.1

- c. Pursuant to §19.501 of Regulation 19 et seq, and 40 CFR Part 52, Subpart E, the permittee shall not exceed the emission rates at SN-04 specified in the following table.

Pollutant	lb/hr	tpy
PM	1.0	4.4

- d. Pursuant to §19.503 of Regulation 19, and 40 CFR Part 52, Subpart E, the permittee shall not cause to be emitted from this source any emission which exhibit an opacity greater than 20 percent. The opacity shall be measured in accordance with EPA Reference Method 9.
- e. Pursuant to §19.304 of Regulation 19, and 40 CFR 70.6, the permittee shall comply with the maintenance plan submitted to the Department for the fly ash silos (See Appendix C). Compliance with the maintenance plan may demonstrate compliance with the limits set in Specific Conditions 37 and 38. Requirements include but are not limited to the following:
- a. Check air leaks on pulsation system
 - b. Check air operated valves
 - c. Check piping and supports
 - d. Check air cylinders
 - e. Check baghouse doors and seals
 - f. Check bags

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- g. Check diffuser blower bearings for heat and vibration
- h. Check blower case for excessive heat buildup
- i. Check inlet filter and change as needed

The permittee may use equivalent or alternative maintenance plans for this source without undergoing a modification to this permit.

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SN-06
Handling/Conveying Emissions

Source Description

Minor emission sources at the facility include coal handling/conveying operations (not subject to NSPS Subpart Y). Dust emissions from the coal handling operations are controlled with AMERCLONES, roto clones and wet sprays. These control devices do not operate at all times due to maintenance or ambient temperatures below freezing. Emissions are regulated under the State Implementation Plan (SIP), Regulation 19.

Handling Conveying Sources - Rotoclone Units
1 - (M-7) American Air Filter, Size 20, type "W" rated at 9600 CFM, wet type
1 - (M-14) American Air Filter, Size 20, type "W" rated at 9600 CFM, wet type
1 - (M-2) American Air Filter, Size 24, type "W" rated at 13600 CFM, wet type w/American Air Filter, Size 15, AMERclone
1 - (M-5) American Air Filter, Size 24, type "W" rated at 21500 CFM, wet type w/American Air Filter, Size 12, AMERclone
1 - (M-25) American Air Filter, Size 27, type "W" rated at 16400 CFM, wet type
1 - (M-26) American Air Filter, Size 27, type "W" rated at 16400 CFM, wet type
1 - (M-6) American Air Filter, Size 36, type "W" rated at 26800 CFM, wet type w/American Air Filter, Size 27, AMERclone
1 - (M-12) American Air Filter, Size 36, type "W" rated at 27500 CFM, wet type w/American Air Filter, Size 27, AMERclone
1 - (M-24) American Air Filter, Size 36, type "W" rated at 2600 CFM, wet type w/American Air Filter, Size 27, AMERclone
1 - (M-8) American Air Filter, Size 45, type "W" rated at 36200 CFM, wet type w/American Air Filter, Size 36, AMERclone

Specific Conditions

- f. Pursuant to §19.501 of Regulation 19 et seq, and 40 CFR Part 52, Subpart E, the permittee shall not exceed the emission rates at SN-06 specified in the following table.

Pollutant	lb/hr	tpy
PM ₁₀	161.3	706.5

- g. Pursuant to §18.801 of Regulation 18, and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, the permittee shall not exceed the emission rates at SN-06 specified in the following table.

Pollutant	lb/hr	tpy
PM	549.5	2406.9

- h. Pursuant to §19.503 of Regulation 19, and 40 CFR Part 52, Subpart E, the permittee shall not cause to be discharged to the atmosphere from this source any emissions which exhibit an opacity greater than 20 percent. The opacity shall be measured in accordance with EPA Reference Method 9.
- i. Pursuant to §19.503 of Regulation 19, and 40 CFR Part 52, Subpart E, the permittee shall conduct weekly observations of the opacity from SN-06 and keep records of these observations. If visible emissions are detected, then the permittee shall conduct a 6-minute opacity reading in accordance with EPA Reference Method 9. The results of these observations shall be kept on site and made available for inspection upon request.

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SN-07
Fuel Oil Storage Tank

Source Description

No. 2 Fuel Oil is stored in a storage tank on site. The tank has a capacity of 3,360,000 gallons or 80,000 barrels. The tank is cylindrical with a fixed roof. No. 2 Fuel Oil is stored at a minimum temperature of 64.0 °F and a maximum temperature of 89.9 °F. Emissions from the storage tank are 1.4 tons/year of volatile organic compounds (VOCs). Emissions are regulated under the State Implementation Plan (SIP), Regulation 19.

Specific Conditions

- j. Pursuant to §19.501 of Regulation 19 et seq, and 40 CFR Part 52, Subpart E, the permittee shall not exceed the emission rates at SN-07 as specified in the following table.

Pollutant	lb/hr	tpy
VOC	0.3	1.4

- k. Pursuant to §19.705 of Regulation 19, A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, and 40 CFR 70.6, the permittee shall not exceed the annual throughput limit of 112,000,000 gallons of No. 2 fuel oil at SN-07 during any consecutive twelve month period.
- l. Pursuant to §19.705 of Regulation 19, and 40 CFR Part 52, Subpart E, the permittee shall maintain records which demonstrate compliance with the limit set forth in Specific Condition 46. These records may be used by the Department for enforcement purposes. The records shall be updated on a monthly basis, shall be kept on site, and shall be provided to Department personnel upon request.

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(SN-12 thru SN-14)
Miscellaneous Storage Tanks

Source Description

SN-12 (T27) is a 15,000 gallon tank used to store diesel.

SN-13 (T29) is a 2,500 gallon tank used to store gasoline.

SN-14 (T30) is a 500 gallon tank used to store gasoline.

Emissions from the tanks are volatile organic compounds (VOCs) which are regulated under the State Implementation Plan (SIP), Regulation 19.

Specific Conditions

- m. Pursuant to §19.501 of Regulation 19 et seq, and 40 CFR Part 52, Subpart E, the permittee shall not exceed the emission rates specified in the following table.

Source Number	Pollutant	tpy
SN-12 (T27)	VOC	0.1
SN-13 (T29)		
SN-14 (T30)		

- n. Pursuant to §19.705 of Regulation 19, A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, and 40 CFR 70.6, the permittee shall store only liquids having a true vapor pressure equal to or less than 0.05 psia in storage tank SN-12.
- o. Pursuant to §19.705 of Regulation 19, A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, and 40 CFR 70.6, the permittee shall store only liquids having a true vapor pressure equal to or less than 9.2 psia in storage tanks SN-13 and SN-14.

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- p. Pursuant to §19.705 of Regulation 19, A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, and 40 CFR 70.6, the permittee shall not exceed a combined annual throughput limit of 180,000 gallons of diesel at SN-12 during any consecutive twelve month period.
- q. Pursuant to §19.705 of Regulation 19, A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, and 40 CFR 70.6, the permittee shall not exceed a combined annual throughput of 15,600 gallons of gasoline at SN-13 and SN-14 during any consecutive twelve month period.
- r. Pursuant to §19.705 of Regulation 19, and 40 CFR Part 52, Subpart E, the permittee shall maintain records which demonstrate compliance with the limits set in Specific Conditions 51 and 52. These records may be used by the Department for enforcement purposes. The records shall be updated on a monthly basis, shall be kept on site, and shall be provided to Department personnel upon request.

SN-16 and SN-17
Cooling Towers

Source Description

The Independence Steam Electric Station operates two (2) cooling towers for waste heat dissipation. The cooling towers obtain makeup water from the White River and from the capture of site drainage. Emissions from the towers are particulate matter which are regulated under the State Implementation Plan, (SIP), Regulation 19.

Specific Conditions

- s. Pursuant to §19.501 of Regulation 19 et seq, and 40 CFR Part 52, Subpart E, the permittee shall not exceed the emission rates specified in the following table.

Source Number	Pollutant	lb/hr	tpy
SN-16 (X35)	PM ₁₀	4.6	20.0
SN-17 (X36)	PM ₁₀	4.6	20.0

- t. Pursuant to §18.801 of Regulation 18, and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, the permittee shall not exceed the emission rates specified in the following table.

Source Number	Pollutant	lb/hr	tpy
SN-16 (X35)	PM	4.6	20.0
SN-17 (X36)	PM	4.6	20.0

- u. Pursuant to §18.501 of Regulation 18, and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, the permittee shall not cause to be discharged to the atmosphere from this source any emissions which exhibit an opacity greater than 5 percent. The opacity shall be measured in accordance with EPA Reference Method 9.

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- v. Pursuant to §19.303 of Regulation 19, and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, the permittee shall operate the cooling towers within the design specifications listed in Appendix C. Compliance with the design specifications may demonstrate compliance with the limit specified in Specific Condition 56.
- w. Pursuant to §19.501 of Regulation 19 et seq, and 40 CFR Part 52, Subpart E, the total dissolved solids content shall not exceed 3000 parts per million.
- x. Pursuant to §19.705 of Regulation 19, A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, and 40 CFR 70.6, the circulating water flow for SN-16 and SN-17 shall not exceed 21,000 kgal/hr.
- y. Pursuant to §19.703 of Regulation 19, 40 CFR Part 52, Subpart E, and A.C.A. §8- 4-203 as referenced by §8-4-304 and §8-4-311, the permittee shall monitor the circulating water flow and total dissolved solids to demonstrate compliance with this source's applicable requirements.

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SECTION V: COMPLIANCE PLAN AND SCHEDULE

The Independence facility is in compliance with the applicable regulations cited in the permit application. The Independence facility will continue to operate in compliance with those identified regulatory provisions. The facility will examine and analyze future regulations that may apply and determine their applicability with any necessary action taken on a timely basis.

Existing Monitoring

The Independence facility currently monitors SO₂, NO_x and opacity. Quarterly reports of emissions are submitted to EPA and the Department to meet NSPS and Acid Rain requirements under 40 CFR 60 and 40 CFR 75.

Changes to CO Emission Limit

The current limit for CO at the Independence facility is 300 lb/hr. This limit was based on AP-42 factors that were inaccurate for this facility. The CO limit will be increased to 3232 lb/hr which represents an in-stack concentration of 300 ppm. BACT analysis and NAAQS modeling reports were submitted with the request.

Voluntary Early Compliance Election for Coal Plant NO_x

Entergy is electing to comply with a 0.45 lb/mmBtu annual average for NO_x emissions under the Acid Rain provisions of 40 CFR 76. Compliance will begin in the year 1998 and will be determined by the average emission rate at the end of each calendar year. This emission limit will not affect the existing NSPS limit of 0.7 lb/mmBtu hourly (as determined by a 3-hour rolling average) limit.

SECTION VI: PLANTWIDE CONDITIONS

1. Pursuant to §19.704 of Regulation 19, 40 CFR Part 52, Subpart E, and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, the Director shall be notified in writing within thirty (30) days after construction has commenced, construction is complete, the equipment and/or facility is first placed in operation, and the equipment and/or facility first reaches the target production rate.
2. Pursuant to §19.410(B) of Regulation 19, 40 CFR Part 52, Subpart E, the Director may cancel all or part of this permit if the construction or modification authorized herein is not begun within 18 months from the date of the permit issuance if the work involved in the construction or modification is suspended for a total of 18 months or more.
3. Pursuant to §19.702 of Regulation 19 and/or §18.1002 of Regulation 18 and A.C.A. §8-4-203 as referenced by A.C.A. §8-4-304 and §8-4-311, any equipment that is to be tested, unless stated in the Specific Conditions of this permit or by any federally regulated requirements, shall be tested with the following time frames: (1) Equipment to be constructed or modified shall be tested within sixty (60) days of achieving the maximum production rate, but in no event later than 180 days after initial start-up of the permitted source or (2) equipment already operating shall be tested according to the time frames set forth by the Department. The permittee shall notify the Department of the scheduled date of compliance testing at least fifteen (15) days in advance of such test. Compliance test results shall be submitted to the Department within thirty (30) days after the completed testing.
4. Pursuant to §19.702 of Regulation 19 and/or §18.1002 of Regulation 18 and A.C.A. §8-4-203 as referenced by A.C.A. §8-4-304 and §8-4-311, the permittee shall provide:
 1. Sampling ports adequate for applicable test methods
 2. Safe sampling platforms
 3. Safe access to sampling platforms
 4. Utilities for sampling and testing equipment
5. Pursuant to §19.303 of Regulation 19 and A.C.A. §8-4-203 as referenced by A.C. A. §8-4-304 and §8-4-311, the equipment, control apparatus and emission monitoring equipment shall be operated within their design limitations and maintained in good condition at all times.

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6. Pursuant to Regulation 26 and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, this permit subsumes and incorporates all previously issued air permits for this facility.

Acid Rain (Title IV)

7. Pursuant to §7(a) of Regulation #26 and 40 CFR 70.6(a)(4), the permittee is prohibited from causing any emissions which exceed any allowances that the source lawfully holds under Title IV of the Act or the regulations promulgated thereunder. No permit revision is required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. This permit establishes no limit on the number of allowances held by the permittee. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement of this permit or the Act. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Act.

Title VI Provisions

8. The permittee shall comply with the standards for labeling of products using ozone depleting substances pursuant to 40 CFR Part 82, Subpart E:
 1. All containers containing a class I or class II substance stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced to interstate commerce pursuant to §82.106.
 2. The placement of the required warning statement must comply with the requirements pursuant to §82.108.
 3. The form of the label bearing the required warning must comply with the requirements pursuant to §82.110.
 4. No person may modify, remove, or interfere with the required warning statement except as described in §82.112.
9. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
 1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156.

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2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158.
 3. Persons performing maintenance, service repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161.
 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with record keeping requirements pursuant to §82.166. (“MVAC-like appliance” as defined at §82.152.)
 5. Persons owning commercial or industrial process refrigeration equipment must comply with leak repair requirements pursuant to §82.156.
 6. 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 §82.166.
10. If the permittee manufactures, transforms, destroys, imports, or exports a class I or class II substance, the permittee is subject to all requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
 11. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term “motor vehicle” as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term “MVAC” as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or the system used on passenger buses using HCFC-22 refrigerant.

12. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program.

PERMIT SHIELD

13. Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements, as of the date of permit issuance, included in and specifically identified in item A of this condition:

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- A. The following have been specifically identified as applicable requirements based upon information submitted by the permittee in an application dated March 29, 1996.

Description of Applicable Regulations	Regulation	Basis
Regulations of the Arkansas Operating Air Permit Program	Regulation 26 Section 3	Facility is defined as a major source.
State Implementation Plan, Prevention of Significant Deterioration Supplement	Regulation 19 §19.9	Facility is currently a major stationary source for the purpose of applicability.
New Source Performance Standards for Fossil-Fuel-Fired Steam Generators after August 17, 1978	40 CFR 60 Subpart D	Fossil-fuel fired steam generating units have heat input rate greater than 250 mmBtu/hr.
National Emission Standards for Hazardous Air Pollutants	40 CFR 61 Subpart M	Facility meets requirements for asbestos.
Acid Rain Permit Regulations	40 CFR 72 Subpart A-D	Units meet the definition of an affected source.
SO ₂ Allowance Allocations	40 CFR 73 Subpart B	Facility is on list of Phase II Allowance Allocations.
Continuous Emission Monitoring	40 CFR 75 Subpart A-D, F, and G	Facility is subject to Acid Rain Requirements for the purpose of applicability.
NO _x Emission Reduction Program	40 CFR 76	Facility is subject to Acid Rain Requirements for the purpose of applicability.
Excess Emissions	40 CFR 77	Facility is subject to Acid Rain Requirements for the purpose of applicability.

- B. The following requirements have been specifically identified as not applicable, based upon information submitted by the permittee in an application dated March 29, 1996.

Not Applicable

- C. Nothing shall alter or affect the following:

Provisions of Section 303 of the Clean Air Act;

The liability of an owner or operator for any violation of applicable requirements prior to or at the time of permit issuance;

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The applicable requirements of the acid rain program, consistent with section 408(a) of the Clean Air Act; or

The ability of the EPA to obtain information under Section 114 of the Clean Air Act.

14. Pursuant to §19.705 of Regulation 19, and 40 CFR Part 52, Subpart E, all reports shall be submitted within 30 days after the end of the reporting period. The first reporting period starts on the day of the permit issuance. The first report shall contain data for the first six months of operation after the date of issuance. The second and all subsequent reports shall contain 12 consecutive months of data.
15. Pursuant to §19.705 of Regulation 19, A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, and 40 CFR 70.6, the annual throughput of coal at the facility shall not exceed 9.2 million tons of coal per year during any consecutive twelve month period.
16. Pursuant to §19.705 of Regulation 19, and 40 CFR Part 52, Subpart E, the permittee shall maintain records which demonstrate compliance with the limit set in Plantwide Condition 15. These records may be used by the Department for enforcement purposes. The records shall be updated on a monthly basis, shall be kept on site, and shall be provided to Department personnel upon request.
17. Pursuant to §19.7 and 40 CFR Part 52, the permittee shall not begin to demonstrate compliance with the conditions in this permit until thirty (30) days after the issued date of this permit.

SECTION VII: INSIGNIFICANT ACTIVITIES

Pursuant to §26.3(d) of Regulation 26, the following sources are insignificant activities. Insignificant and trivial activities will be allowable after approval and federal register notice publication of a final list as part of the operating air permit program. Any activity for which a state or federal applicable requirement applies is not insignificant even if this activity meets the criteria of §3(d) of Regulation 26 or is listed below. Insignificant activity determinations rely upon the information submitted by the permittee in an application dated March 29, 1996.

Description	Category
34 - Storage tanks less than 10,000 gallons storing organic liquids having a true vapor pressure less than or equal to 0.5 psia, provided that the aggregate pollutant specific emissions from all such liquid storage tanks listed as insignificant do not exceed 5 tpy of any combination of HAPs and 10 tpy of any other pollutant. (T3-T12, T14-T26, T28, T32-T33, T35-T36, T47-T48, T59-T60, and X8)	Group A-3
1 - Caustic storage tank containing no VOCs. (T37)	Group A-4
5 - Storage tanks less than 250 gallons storing organic liquids having a true vapor pressure less than or equal to 3.5 psia, provided that the aggregate pollutant specific emissions from all such liquid storage tanks listed as insignificant do not exceed 5 tpy of any combination of HAPs and 10 tpy of any other pollutant. (T52, T58, T63-T65)	Group A-2
Other activities for which the facility demonstrates that no enforceable permit conditions are necessary to insure compliance with any applicable law or regulation provided that the emissions are less than 5 tpy of any pollutant regulated under this regulation or less than 1 tpy of a single HAP or 2.5 tpy of any combination of HAPs. (T2, T13)	Group A-13
4 - Diesel fired space heaters (C7-C10)	Group B-2
Emergency use generators, boilers, or other fuel burning equipment that is of equal or smaller capacity than the primary operating unit, cannot be used in conjunction with the primary operating unit, and does not emit or have the potential to emit regulated air pollutants in excess of the primary operating unit and not operated more than 90 days a year. (C4, C5)	Group A-12
Emissions from wastewater sources (W1-W12)	Group A-13
Emissions from fuel dispensing stations (X1-X4, X6 and X7)	Group A-13
Emissions from laboratory equipment/ vents (V38 and V39)	Group A-5

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Pursuant to §26.3(d) of Regulation 26, the following emission units, operations, or activities have been determined by the Department to be insignificant activities. Activities included in this list are allowable under this permit and need not be specifically identified.

1. Combustion emissions from propulsion of mobile sources and emissions from refueling these sources unless regulated by Title II and required to obtain a permit under Title V of the federal Clean Air Act, as amended. This does not include emissions from any transportable units, such as temporary compressors or boilers. This does not include emissions from loading racks or fueling operations covered under any applicable federal requirements.
2. Air conditioning and heating units used for comfort that do not have applicable requirements under Title VI of the Act.
3. Ventilating units used for human comfort that do not exhaust air pollutants into the ambient air from any manufacturing/industrial or commercial process.
4. Non-commercial food preparation or food preparation at restaurants, cafeterias, or caterers, etc.
5. Consumer use of office equipment and products, not including commercial printers or business primarily involved in photographic reproduction.
6. Janitorial services and consumer use of janitorial products.
7. Internal combustion engines used for landscaping purposes.
8. Laundry activities, except for dry-cleaning and steam boilers.
9. Bathroom/toilet emissions.
10. Emergency (backup) electrical generators at residential locations.
11. Tobacco smoking rooms and areas.
12. Blacksmith forges.
13. Maintenance of grounds or buildings, including: lawn care, weed control, pest control, and water washing activities.

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14. Repair, up-keep, maintenance, or construction activities not related to the sources' primary business activity, and not otherwise triggering a permit modification. This may include, but is not limited to such activities as general repairs, cleaning, painting, welding, woodworking, plumbing, re-tarring roofs, installing insulation, paved/paving parking lots, miscellaneous solvent use, application of refractory, or insulation, brazing, soldering, the use of adhesives, grinding, and cutting.¹
15. Surface-coating equipment during miscellaneous maintenance and construction activities. This activity specifically does not include any facility whose primary business activity is surface-coating or includes surface-coating or products.
16. Portable electrical generators that can be "moved by hand" from one location to another.²
17. Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning, or machining wood, metal, or plastic.
18. Brazing or soldering equipment related to manufacturing activities that do not result in emission of HAPs.³
19. Air compressors and pneumatically operated equipment, including hand tools.
20. Batteries and battery charging stations, except at battery manufacturing plants.
21. Storage tanks, vessels, and containers holding or storing liquid substances that do not contain any VOCs or HAPs.⁴

¹ Cleaning and painting activities qualify if they are not subject to VOC or HAP control requirements. Asphalt batch plant owners/operators must get a permit.

² "Moved by hand" means that it can be moved by one person without assistance of any motorized or non-motorized vehicle, conveyance, or device.

³ Brazing, soldering, and welding equipment, and cutting torches related to manufacturing and construction activities that emit HAP metals are more appropriate for treatment as insignificant activities based on size or production thresholds. Brazing, soldering, and welding equipment, and cutting torches related directly to plant maintenance and upkeep and repair or maintenance shop activities that emit HAP metals are treated as trivial and listed separately in this appendix.

⁴ Exemptions for storage tanks containing petroleum liquids or other volatile organic liquids are based on size and limits including storage tank capacity and vapor pressure of liquids stored and are not appropriate for this list.

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22. Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and no volatile aqueous salt solutions, provided appropriate lids and covers are used and appropriate odor control is achieved.
23. Equipment used to mix and package soaps, vegetable oil, grease, animal fat, and non-volatile aqueous salt solutions, provided appropriate lids and covers are used and appropriate odor control is achieved.
24. Drop hammers or presses for forging or metalworking.
25. Equipment used exclusively to slaughter animals, but not including other equipment at slaughter-houses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.
26. Vents from continuous emissions monitors and other analyzers.
27. Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.
28. Hand-held applicator equipment for hot melt adhesives with no VOCs in the adhesive.
29. Lasers used only on metals and other materials which do not emit HAPs in the process.
30. Consumer use of paper trimmers/binders.
31. Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.
32. Salt baths using non-volatile salts that do not result in emissions of any air pollutant covered by this regulation.
33. Laser trimmers using dust collection to prevent fugitive emissions.
34. Bench-scale laboratory equipment used for physical or chemical analysis not including lab fume hoods or vents.
35. Routine calibration and maintenance of laboratory equipment or other analytical instruments.

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36. Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.
37. Hydraulic and hydrostatic testing equipment.
38. Environmental chambers not using hazardous air pollutant gases.
39. Shock chambers, humidity chambers, and solar simulators.
40. Fugitive emissions related to movement of passenger vehicles, provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent is submitted.
41. Process water filtration systems and demineralizers.
42. Demineralized water tanks and demineralizer vents.
43. Boiler water treatment operations, not including cooling towers.
44. Emissions from storage or use of water treatment chemicals, except for hazardous air pollutants or pollutants listed under regulations promulgated pursuant to Section 112(r) of the Act, for use in cooling towers, drinking water systems, and boiler water/feed systems.
45. Oxygen scavenging (de-aeration) of water.
46. Ozone generators.
47. Fire suppression systems.
48. Emergency road flares.
49. Steam vents and safety relief valves.
50. Steam leaks.
51. Steam cleaning operations.
52. Steam and microwave sterilizers.

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53. Site assessment work to characterize waste disposal or remediation sites.
54. Miscellaneous additions or upgrades of instrumentation.
55. Emissions from combustion controllers or combustion shutoff devices but not combustion units itself.
56. Use of products for the purpose of maintaining motor vehicles operated by the facility, not including air cleaning units of such vehicles (i.e. antifreeze, fuel additives).
57. Stacks or vents to prevent escape of sanitary sewer gases through the plumbing traps.
58. Emissions from equipment lubricating systems (i.e. oil mist), not including storage tanks, unless otherwise exempt.
59. Residential wood heaters, cookstoves, or fireplaces.
60. Barbecue equipment or outdoor fireplaces used in connection with any residence or recreation.
61. Log wetting areas and log flumes.
62. Periodic use of pressurized air for cleanup.
63. Solid waste dumpsters.
64. Emissions of wet lime from lime mud tanks, lime mud washers, lime mud piles, lime mud filter and filtrate tanks, and lime mud slurry tanks.
65. Natural gas odoring activities unless the Department determines that emissions constitute air pollution.
66. Emissions from engine crankcase vents.
67. Storage tanks used for the temporary containment of materials resulting from an emergency reporting of an unanticipated release.
68. Equipment used exclusively to mill or grind coatings in roll grinding rebuilding, and molding compounds where all materials charged are in paste form.

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69. Mixers, blenders, roll mills, or calenders for rubber or plastic for which no materials in powder form are added and in which no organic solvents, diluents, or thinners are used.
70. The storage , handling, and handling equipment for bark and wood residues not subject to fugitive dispersion offsite (this applies to the equipment only).
71. Maintenance dredging of pulp and paper mill surface impoundments and ditches containing cellulosic and cellulosic derived biosolids and inorganic materials such as lime, ash, or sand.
72. Tall oil soap storage, skimming, and loading.
73. Water heaters used strictly for domestic (non-process) purposes.
74. Facility roads and parking areas, unless necessary to control offsite fugitive emissions.
75. Agricultural operations, including onsite grain storage, not including IC engines or grain elevators.
76. The following natural gas and oil exploration production site equipment: separators, dehydration units, natural gas fired compressors, and pumping units. This does not include compressors located on natural gas transmission pipelines.

SECTION VIII: GENERAL PROVISIONS

1. Pursuant to 40 CFR 70.6(b)(2), any terms or conditions included in this permit which specify and reference Arkansas Pollution Control & Ecology Commission Regulation 18 or the Arkansas Water and Air Pollution Control Act (A.C.A. §8-4-101 *et seq.*) as the sole origin of and authority for the terms or conditions are not required under the Clean Air Act or any of its applicable requirements, and are not federally enforceable under the Clean Air Act. Arkansas Pollution Control & Ecology Commission Regulation 18 was adopted pursuant to the Arkansas Water and Air Pollution Control Act (A.C.A. §8-4-101 *et seq.*). Any terms or conditions included in this permit which specify and reference Arkansas Pollution Control & Ecology Commission Regulation 18 or the Arkansas Water and Air Pollution Control Act (A.C.A. §8-4-101 *et seq.*) as the origin of and authority for the terms or conditions are enforceable under this Arkansas statute.
2. Pursuant to 40 CFR 70.6(a)(2) and §26.7 of the Regulations of the Arkansas Operating Air Permit Program (Regulation 26), this permit shall be valid for a period of five (5) years beginning on the date this permit becomes effective and ending five (5) years later.
3. Pursuant to §26.4 of Regulation #26, it is the duty of the permittee to submit a complete application for permit renewal at least six (6) months prior to the date of permit expiration. Permit expiration terminates the permittee's right to operate unless a complete renewal application was submitted at least six (6) months prior to permit expiration, in which case the existing permit shall remain in effect until the Department takes final action on the renewal application. The Department will not necessarily notify the permittee when the permit renewal application is due.
4. Pursuant to 40 CFR 70.6(a)(1)(ii) and §26.7 of Regulation #26, where an applicable requirement of the Clean Air Act, as amended, 42 U.S.C. 7401, *et seq* (Act) is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions are incorporated into the permit and shall be enforceable by the Director or Administrator.
5. Pursuant to 40 CFR 70.6(a)(3)(ii)(A) and §26.7 of Regulation #26, records of monitoring information required by this permit shall include the following:
 1. The date, place as defined in this permit, and time of sampling or measurements;
 2. The date(s) analyses were performed;
 3. The company or entity that performed the analyses;

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4. The analytical techniques or methods used;
 5. The results of such analyses; and
 6. The operating conditions existing at the time of sampling or measurement.
6. Pursuant to 40 CFR 70.6(a)(3)(ii)(B) and §26.7 of Regulation #26, records of all required 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 this permit.
7. Pursuant to 40 CFR 70.6(a)(3)(iii)(A) and §26.7 of Regulation #26, the permittee shall submit reports of all required monitoring every 6 months. If no other reporting period has been established, the reporting period shall end on the last day of the anniversary month of this permit. The report shall be due within 30 days of the end of the reporting period. Even though the reports are due every six months, each report shall contain a full year of data. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official as defined in §26.2 of Regulation #26 and must be sent to the address below.

Arkansas Department of Environmental Quality
Air Division
ATTN.: Air Enforcement
Post Office Box 8913
Little Rock, AR 72219

8. Pursuant to 40 CFR 70.6(a)(3)(iii)(B), §26.7 of Regulation #26, and §19.601 and 19.602 of Regulation #19, all deviations from permit requirements, including those attributable to upset conditions as defined in the permit shall be reported to the Department. An initial report shall be made to the Department by the next business day after the occurrence. The initial report may be made by telephone and shall include:
1. The facility name and location,
 2. The process unit or emission source which is deviating from the permit limit,
 3. The permit limit, including the identification of pollutants, from which deviation occurs,
 4. The date and time the deviation started,
 5. The duration of the deviation,

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6. The average emissions during the deviation,
7. The probable cause of such deviations,
8. Any corrective actions or preventive measures taken or being taken to prevent such deviations in the future, and
9. The name of the person submitting the report.

A full report shall be made in writing to the Department within five (5) business days of discovery of the occurrence and shall include in addition to the information required by initial report a schedule of actions to be taken to eliminate future occurrences and/or to minimize the amount by which the permits limits are exceeded and to reduce the length of time for which said limits are exceeded. If the permittee wishes, they may submit a full report in writing (by facsimile, overnight courier, or other means) by the next business day after discovery of the occurrence and such report will serve as both the initial report and full report.

9. Pursuant to 40 CFR 70.6(a)(5) and §26.7 of Regulation #26, and A.C.A. §8-4-203, as referenced by §8-4-304 and §8-4-311, if any provision of the permit or the application thereof to any person or circumstance is held invalid, such invalidity shall not affect other provisions or applications hereof which can be given effect without the invalid provision or application, and to this end, provisions of this Regulation are declared to be separable and severable.
10. Pursuant to 40 CFR 70.6(a)(6)(i) and §26.7 of Regulation #26, the permittee must comply with all conditions of this Part 70 permit. Any permit noncompliance with applicable requirements as defined in Regulation #26 constitutes a violation of the Clean Air Act, as amended, 42 U.S.C. 7401, *et seq.* and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. Any permit noncompliance with a state requirement constitutes a violation of the Arkansas Water and Air Pollution Control Act (A.C.A. §8-4-101 *et seq.*) and is also grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
11. Pursuant to 40 CFR 70.6(a)(6)(ii) and §26.7 of Regulation #26, it shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
12. Pursuant to 40 CFR 70.6(a)(6)(iii) and §26.7 of Regulation #26, this permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a

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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 stay any permit condition.

13. Pursuant to 40 CFR 70.6(a)(6)(iv) and §26.7 of Regulation #26, this permit does not convey any property rights of any sort, or any exclusive privilege.
14. Pursuant to 40 CFR 70.6(a)(6)(v) and §26.7 of Regulation #26, the permittee shall furnish to the Director, within the time specified by the Director, any information that the Director 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. Upon request, the permittee shall also furnish to the Director copies of records required to be kept by the permit. For information claimed to be confidential, the permittee may be required to furnish such records directly to the Administrator along with a claim of confidentiality.
15. Pursuant to 40 CFR 70.6(a)(7) and §26.7 of Regulation #26, the permittee shall pay all permit fees in accordance with the procedures established in Regulation #9.
16. Pursuant to 40 CFR 70.6(a)(8) and §26.7 of Regulation #26, no permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for elsewhere in this permit.
17. Pursuant to 40 CFR 70.6(a)(9)(i) and §26.7 of Regulation #26, if the permittee is allowed to operate under different operating scenarios, the permittee shall, contemporaneously with making a change from one operating scenario to another, record in a log at the permitted facility a record of the scenario under which the facility or source is operating.
18. Pursuant to 40 CFR 70.6(b) and §26.7 of Regulation #26, all terms and conditions in this permit, including any provisions designed to limit a source's potential to emit, are enforceable by the Administrator and citizens under the Act unless the Department has specifically designated as not being federally enforceable under the Act any terms and conditions included in the permit that are not required under the Act or under any of its applicable requirements.
19. Pursuant to 40 CFR 70.6(c)(1) and §26.7 of Regulation #26, any document (including reports) required by this permit shall contain a certification by a responsible official as defined in §26.2 of Regulation #26.

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20. Pursuant to 40 CFR 70.6(c)(2) and §26.7 of Regulation #26, the permittee shall allow an authorized representative of the Department, upon presentation of credentials, to perform the following:
 1. Enter upon the permittee's premises where the permitted source is located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
 2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
 4. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with this permit or applicable requirements.

21. Pursuant to 40 CFR 70.6(c)(5) and §26.7 of Regulation #26, the permittee shall submit a compliance certification with terms and conditions contained in the permit, including emission limitations, standards, or work practices. This compliance certification shall be submitted annually and shall be submitted to the Administrator as well as to the Department. All compliance certifications required by this permit shall include the following:
 1. The identification of each term or condition of the permit that is the basis of the certification;
 2. The compliance status;
 3. Whether compliance was continuous or intermittent;
 4. The method(s) used for determining the compliance status of the source, currently and over the reporting period established by the monitoring requirements of this permit; and
 5. Such other facts as the Department may require elsewhere in this permit or by §114(a)(3) and 504(b) of the Act.

22. Pursuant to §26.7 of Regulation #26, nothing in this permit shall alter or affect the following:
 1. The provisions of Section 303 of the Act (emergency orders), including the authority of the Administrator under that section;

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2. The liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance;
 3. The applicable requirements of the acid rain program, consistent with §408(a) of the Act; or
 4. The ability of EPA to obtain information from a source pursuant to §114 of the Act.
23. Pursuant to A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, this permit authorizes only those pollutant emitting activities addressed herein.

SECTION IX: ACID RAIN

ORIS Code: 6641
 Effective Date: January 1, 2000 through December 31, 2004

Acid Rain Permit Contents

1. SO₂ allowances allocated under this permit and NO_x requirements for each affected unit.
2. Comments, notes, and justifications regarding permit decisions and charges made to the permit application forms during the review process, and any additional requirements or conditions.
3. The permit application submitted for this source, as corrected by the Arkansas Department of Environmental Quality. The owner and operators of the source must comply with the standard requirements and special provisions set forth in the application.

1) SO₂ Allowance Allocations for each affected unit:

Pursuant to §26.12 of Regulation 26 and Title IV of the Clean Air Act, the Arkansas Department of Environmental Quality issues this permit pursuant to Regulation 26. The following table identifies the SO₂ allowances allocated to Independence Steam Electric Station, Units 1 and 2.

YEAR		2000	2001	2002	2003	2004
Unit 1	SO ₂ allowances under Table 2 or 3 of 40 CFR Part 73	18011	18011	18011	18011	18011
	Repowering	N/A	N/A	N/A	N/A	N/A
	NO _x Limit	By January 1, 1999, this permit will be reopened to add NO _x requirements in accordance with the regulations implementing section 407 of the Clean Air Act.				

YEAR		2000	2001	2002	2003	2004
Unit 2	SO ₂ allowances under Table 2 or 3 of 40 CFR Part 73	18257	18257	18257	18257	18257
	Repowering	N/A	N/A	N/A	N/A	N/A
	NO _x Limit	By January 1, 1999, this permit will be reopened to add NO _x requirements in accordance with the regulations implementing section 407 of the Clean Air Act.				

*-The number of allowances held by an affected source in a unit account may differ from the number allocated by U.S. EPA under Table 2 or 3 of 40 CFR Part 73.

- 2) **Comments, Notes, and Justifications:** None
- 3) **Permit Application(s):** Attached