

**UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF TENNESSEE
AT KNOXVILLE**

STATE OF ALABAMA AND THE)
ALABAMA DEPARTMENT OF)
ENVIRONMENTAL MANAGEMENT,)
COMMONWEALTH OF KENTUCKY,)
STATE OF NORTH CAROLINA *ex rel.*)
ATTORNEY GENERAL ROY COOPER,)
and STATE OF TENNESSEE,)

Plaintiffs,)

v.)

TENNESSEE VALLEY AUTHORITY)

Defendant)

JUDGE _____

Civil Action No. _____

NATIONAL PARKS CONSERVATION)
ASSOCIATION, INC., SIERRA CLUB, and)
OUR CHILDREN'S EARTH FOUNDATION,)

Plaintiffs,)

v.)

TENNESSEE VALLEY AUTHORITY)

Defendant)

JUDGE _____

Civil Action No. _____

CONSENT DECREE

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WHEREAS, the States of Alabama, North Carolina, and Tennessee and the Commonwealth of Kentucky (collectively the “States”), have jointly filed a complaint for injunctive relief and civil penalties pursuant to Ala. Code § 22-22A-5(18), (19), Ky. Rev. Stat. §§ 224.99-010 to -020, Tenn. Code Ann. §§ 68-201-111, -115(b)(5), -117, and Section 304 of the Clean Air Act (the “Act”), 42 U.S.C. § 7604, alleging that Defendant Tennessee Valley Authority (“TVA”) made major modifications to major emitting facilities, and failed to obtain the necessary permits and install the controls necessary under the Prevention of Significant Deterioration (“PSD”) and Nonattainment New Source Review (“Nonattainment NSR”) provisions of the Act and the federally approved and enforceable State Implementation Plans (“SIPs”) for Alabama, Kentucky, and Tennessee, to reduce emissions of oxides of nitrogen (NO_x), sulfur dioxide (SO₂), and/or particulate matter (“PM”); further alleging related claims under the New Source Performance Standards, minor new source review (“minor NSR”), and Title V programs; and further alleging that such emissions damage human health and the environment;

WHEREAS, National Parks Conservation Association, Sierra Club, and Our Children’s Earth Foundation (collectively the “Citizen Plaintiffs”) have jointly filed a complaint for injunctive and declaratory relief and civil penalties pursuant to the federal Clean Air Act, 42 U.S.C. §§ 7401 through 7671q, alleging that TVA made major modifications to major emitting facilities and failed to obtain the necessary permits and install the controls necessary under the PSD and Nonattainment NSR provisions of the Act and the EPA-approved SIPs for the States of Alabama and Tennessee, and the Commonwealth of Kentucky to reduce emissions of NO_x, SO₂,

and/or PM and further alleging related claims under the New Source Performance Standards and minor NSR;

WHEREAS, on November 10, 2004, the State of North Carolina gave notice to TVA and other required parties, pursuant to Section 304 of the Act, 42 U.S.C. § 7604, of its intent to sue TVA regarding the same alleged violations that EPA had alleged in an administrative compliance order that EPA had issued to TVA first on November 3, 1999, and which was subsequently amended several times, including on April 10, 2000,

WHEREAS, on October 30, 2000, December 13, 2000, July 21, 2003, and September 30, 2008, to the extent it was necessary, the Citizen Plaintiffs gave notice to TVA and other required parties pursuant to Section 304 of the Act, 42 U.S.C. § 7604, of their intent to sue TVA regarding the claims alleged in their complaint;

WHEREAS, the States' complaint alleges, inter alia, claims upon which relief can be granted against TVA pursuant to Ala. Code § 22-22A-5(18), (19), Ky. Rev. Stat. §§ 224.99-010 to -020, Tenn. Code Ann. §§ 68-201-111, -115(b)(5), -117, Section 304 of the Act, 42 U.S.C. § 304, and 28 U.S.C. § 1355;

WHEREAS, the Citizen Plaintiffs' complaint alleges claims upon which relief can be granted against TVA pursuant to the Clean Air Act's PSD program, 42 U.S.C. §§ 7470-7492, Nonattainment NSR program, 42 U.S.C. §§ 7501-7515, New Source Performance Standards, 42 U.S.C. § 7411, NSPS Subparts A and Da, 40 C.F.R. § 60.1 et seq., 40 C.F.R. § 60.40a et seq., minor NSR, the EPA-approved SIPs for the States of Tennessee and Alabama, and the Commonwealth of Kentucky, and 28 U.S.C. § 1355;

WHEREAS, EPA issued an administrative compliance order to TVA pursuant to Sections 113 and 167 of the Act, 42 U.S.C. §§ 7413, 7477, alleging that TVA violated, inter alia, the PSD and Nonattainment NSR programs of the Act, its implementing regulations, and the relevant SIPs at several of the coal-fired electric generating units that TVA owns and operates when it made certain physical changes without obtaining the necessary permits and installing the controls necessary to reduce emissions of NO_x, SO₂, and PM;

WHEREAS, in the administrative compliance order, EPA directed TVA to come into compliance with the Act;

WHEREAS, the United States Environmental Appeals Board (“EAB”) issued a Final Order on Reconsideration in In re Tennessee Valley Auth., 9 E.A.D 357 (EAB 2000), in which it found that TVA had violated the PSD and Nonattainment NSR programs of the Act, its implementing regulations, and the relevant SIPs, and directed TVA to come into compliance with the Act;

WHEREAS, TVA petitioned for review of the administrative compliance order and the EAB’s Final Order on Reconsideration in the United States Court of Appeals for the Eleventh Circuit, which concluded that EPA’s administrative proceedings, and the Act provisions under which the order was issued, violated due process, Tennessee Valley Auth. v. Whitman, 336 F.3d 1236, 1244, 1260 (11th Cir. 2003), cert. denied, 541 U.S. 1030 (2004); Brief for Respondent in Opposition to a Writ of Certiorari (“Brief for Respondent”) at 4, National Parks Conservation Ass’n et al. v. Tennessee Valley Auth., 554 U.S. 917 (2008) (No. 07-867), and which then held that the unconstitutionality of the Clean Air Act provision meant that EPA’s order was not a

“final agency action” and that the court of appeals therefore lacked jurisdiction to review it, see Brief for Respondent at 4 (citing Whitman, 336 F.3d at 1248, 1260);

WHEREAS, through a Clean Air Act Federal Facilities Compliance Agreement (“Compliance Agreement”), In re Tennessee Valley Auth., Docket No. CAA-04-2010-1760 (Exhibit 1 to this Consent Decree), and a Consent Agreement and Final Order, In re Tennessee Valley Auth., Docket No. CAA-04-2010-1528(b) (Exhibit 2 to this Consent Decree), EPA and TVA are resolving the violations alleged in the amended administrative compliance order and the Final Order on Reconsideration;

WHEREAS, when entered, this Consent Decree will secure by way of injunction the same relief as the Compliance Agreement and that, therefore, TVA’s operations will be governed by both the Compliance Agreement and this Consent Decree;

WHEREAS, the States, Citizen Plaintiffs, and TVA (the “Parties”) anticipate that this Consent Decree (and EPA and TVA anticipate that the Compliance Agreement), including the installation and operation of pollution control technology and other measures adopted pursuant to this Consent Decree and the Compliance Agreement, will achieve significant reductions of emissions from the TVA System and thereby significantly improve air quality;

WHEREAS, TVA is now undertaking a process to transform itself into a cleaner power system by reducing emissions from its coal-fired power plants, by retiring some coal-fired units, and by relying more on lower-emitting or non-emitting generation like natural gas and nuclear units and energy-efficiency and demand response programs;

WHEREAS, TVA disagreed with, and continues to disagree with, the allegations of the administrative compliance order and the findings of fact and conclusions of law of the Final Order on Reconsideration by the EAB, and denies that it violated the Act as so alleged and found (see Whitman, 336 F.3d at 1244-45);

WHEREAS, TVA wishes to resolve, without the uncertainty and expense associated with further litigation, the claims of EPA and other parties that it has violated any provisions of the Act's PSD, Nonattainment NSR, New Source Performance Standards ("NSPS"), minor NSR, or (to the extent related to such PSD, Nonattainment NSR, NSPS, and minor NSR claims) Title V Operating Permit programs by way of the activities identified in the administrative compliance order and/or the complaints or other similar activities TVA has conducted at its coal-fired electricity generating plants;

WHEREAS, as specified in Paragraph 158 of this Consent Decree, TVA has agreed to an expedited schedule to obtain the appropriate Clean Water Act National Pollutant Discharge Elimination System permits for the wastewater discharges from its flue gas desulfurization ("FGD") systems should EPA promulgate a final rule containing revisions to the Effluent Limitations Guidelines;

WHEREAS, TVA plans to seek public review and comment during the environmental reviews conducted pursuant to the National Environmental Policy Act for the construction and operation of any combustion turbine and combined cycle electric generating plants it proposes to add to its system; and

WHEREAS, the Parties have agreed, and the Court, by entering this Consent Decree finds, that this Consent Decree has been negotiated in good faith and at arm's length; that this settlement is fair, reasonable, and in the public interest, and consistent with the goals of the Act, and that entry of this Consent Decree without further litigation is the most appropriate means of resolving this matter;

NOW, THEREFORE, without any admission by TVA, and without adjudication of the violations alleged in the complaints, it is hereby ORDERED, ADJUDGED, AND DECREED as follows:

I. JURISDICTION AND VENUE

1. This Court has jurisdiction over this action, the subject matter herein, and the Parties consenting hereto, pursuant to 28 U.S.C. §§ 1331, 1355, and 1367, and Section 304 of the Clean Air Act (the "Act"), 42 U.S.C. § 7604. Solely for purposes of this Consent Decree, venue is proper under 28 U.S.C. §§ 1391(b) and (c) and 1395. Solely for purposes of this Consent Decree and the underlying complaints, and for no other purpose, TVA waives all objections and defenses that it may have to the Court's jurisdiction over this action, to the Court's jurisdiction over TVA, and to venue in this District. TVA shall not challenge the terms of this Consent Decree or this Court's jurisdiction to enter and enforce this Consent Decree. Solely for purposes of the complaints filed by the Plaintiffs in this matter and resolved by this Consent Decree, for the purposes of entry and enforcement of this Consent Decree, and for no other purpose, TVA waives any defense or objection based on standing. Except as expressly provided herein, this

Consent Decree shall not create any rights in or obligations of any party other than the Plaintiffs and TVA.

II. PARTIES BOUND

2. Upon entry, the provisions of this Consent Decree shall apply to and be binding upon the Parties and their successors and assigns, and TVA's officers, employees and agents, solely in their capacities as such.

III. COMPLIANCE PROGRAM

3. TVA shall be responsible for providing a copy of this Consent Decree to all vendors, suppliers, consultants, contractors, agents, and any other company or other organization retained to perform any of the work required by this Consent Decree. Notwithstanding any retention of contractors, subcontractors, or agents to perform any work required under this Consent Decree, TVA shall be responsible for ensuring that all work is performed in accordance with the requirements of this Consent Decree. For this reason, in any action to enforce this Consent Decree, TVA shall not assert as a defense the failure of its officers, directors, employees, servants, agents, or contractors to take actions necessary to comply with this Consent Decree, unless TVA establishes that such failure resulted from a Force Majeure Event, as defined in Paragraph 166 of this Consent Decree.

A. DEFINITIONS

4. Every term expressly defined by this Consent Decree shall have the meaning given to that term by this Consent Decree and, except as otherwise provided in this Consent Decree, every other term used in this Consent Decree that is also a term under the Act or the

regulations implementing the Act shall mean in this Consent Decree what such term means under the Act or those implementing regulations.

5. “Alabama” means the State of Alabama, Alabama Department of Environmental Management.

6. “Baghouse” means a full stream (fabric filter) particulate emissions control device.

7. “Boiler Island” means a Unit’s (a) fuel combustion system (including bunker, coal pulverizers, crusher, stoker, and fuel burners); (b) combustion air system; (c) steam generating system (firebox, boiler tubes, and walls); and (d) draft system (excluding the stack), all as further described in “Interpretation of Reconstruction,” by John B. Rasnic U.S. EPA (Nov. 25, 1986) and attachments thereto.

8. “Capital Expenditure” means all capital expenditures, as defined by Generally Accepted Accounting Principles as those principles exist as of the Date of Lodging of this Consent Decree, excluding the cost of installing or upgrading pollution control devices.

9. “Citizen Plaintiffs” means, collectively, National Parks Conservation Association, Sierra Club, and Our Children’s Earth Foundation.

10. “CEMS” means, for obligations involving NO_x and SO₂ under this Consent Decree, the devices defined in 40 C.F.R. § 72.2 and installed and maintained as required by 40 C.F.R. Part 75, and for obligations involving PM, the continuous emission monitors installed and maintained as described in 40 C.F.R. § 60.49Da(v).

11. “Clean Air Act” or “Act” means the federal Clean Air Act, 42 U.S.C. §§ 7401-7671q, and its implementing regulations.

12. “Compliance Agreement” or “Federal Facilities Compliance Agreement” means the Clean Air Act agreement entered into between EPA and TVA, Docket No. CAA-04-2010-1760, and which is Exhibit 1 to this Consent Decree.

13. “Consent Decree” or “Decree” means this Consent Decree and the appendices attached hereto, which are incorporated into this Consent Decree.

14. “Consent Decree Obligation Date” means the Effective Date of the Compliance Agreement, as the term “Effective Date” is defined in the Compliance Agreement, which date is _____, 2011.

15. “Continuously Operate” or “Continuous Operation” means that when a pollution control technology or combustion control is used at a Unit (including, but not limited to, SCR, FGD, PM Control Device, SNCR, Low NO_x Burner (“LNB”), Overfire Air (“OFA”) or Separated Overfire Air (“SOFA”)), it shall be operated at all times such Unit is in operation (except during a Malfunction that is determined to be a Force Majeure Event), so as to minimize emissions to the greatest extent technically practicable consistent with the technological limitations, manufacturers’ specifications, fire prevention codes, and good engineering and maintenance practices for such pollution control technology or combustion control and the Unit.

16. “Date of Entry” means the date this Consent Decree is approved or signed by the United States District Court Judge.

17. “Date of Lodging” means the date that this Consent Decree was filed for lodging with the Clerk of the Court for the United States District Court for the Eastern District of Tennessee, Knoxville Division.

18. “Day” means calendar day unless otherwise specified in this Consent Decree.

19. “Emission Rate” means the number of pounds of pollutant emitted per million British thermal units of heat input (“lb/mmBTU”), measured in accordance with this Consent Decree.

20. “ESP” means electrostatic precipitator, a pollution control device for the reduction of PM.

21. “EPA” means the United States Environmental Protection Agency.

22. “Flue Gas Desulfurization System” or “FGD” means a pollution control device with one or more absorber vessels that employs flue gas desulfurization technology for the control of SO₂ emissions. Unless Paragraph 85 expressly requires the installation and Continuous Operation of a Wet FGD, TVA may install either a Wet FGD or a Dry FGD.

23. “Greenhouse Gases” means the air pollutant defined at 40 C.F.R § 86.1818-12(a) as of the Date of Lodging of this Consent Decree as the aggregate group of six greenhouse gases: carbon dioxide, nitrous oxide, methane, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. This definition continues to apply even if 40 C.F.R § 86.1818-12(a) is subsequently revised, stayed, vacated or otherwise modified.

24. “Improved Unit” for NO_x means a TVA System Unit equipped with an SCR or scheduled under this Consent Decree to be equipped with an SCR (or equivalent control

technology approved pursuant to Paragraph 199) or Repowered to Renewable Biomass (as defined herein). A Unit may be an Improved Unit for one pollutant without being an Improved Unit for another. Any Other Unit in the TVA System can become an Improved Unit for NO_x if it is equipped with an SCR (or equivalent control technology approved pursuant to Paragraph 199) and the requirement to Continuously Operate the SCR or equivalent control technology is incorporated into a federally-enforceable non-Title V permit, or if it is Repowered to Renewable Biomass (as defined herein).

25. “Improved Unit” for SO₂ means a TVA System Unit equipped with an FGD or scheduled under this Consent Decree to be equipped with an FGD (or equivalent control technology approved pursuant to Paragraph 199) or Repowered to Renewable Biomass (as defined herein). A Unit may be an Improved Unit for one pollutant without being an Improved Unit for another. Any Other Unit in the TVA System can become an Improved Unit for SO₂ if it is equipped with an FGD (or equivalent control technology approved pursuant to Paragraph 199) and the requirement to Continuously Operate the FGD or equivalent control technology is incorporated into a federally-enforceable non-Title V permit, or it is Repowered to Renewable Biomass (as defined herein).

26. “Kentucky” means the Commonwealth of Kentucky, Energy and Environment Cabinet.

27. “lb/mmBTU” means one pound per million British thermal units.

28. “Malfunction” means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal

or usual manner. Failures that are caused in part by poor maintenance or careless operation are not Malfunctions.

29. “MW” means a megawatt or one million Watts.

30. “National Ambient Air Quality Standards” or “NAAQS” means national ambient air quality standards that are promulgated pursuant to Section 109 of the Act, 42 U.S.C. § 7409.

31. “New CC/CT Unit” shall have the meaning indicated in Paragraph 117, below.

32. “NSPS” means New Source Performance Standards within the meaning of Part A of Subchapter I of the Act, 42 U.S.C. § 7411, and 40 C.F.R. Part 60.

33. “Nonattainment NSR” means the nonattainment area new source review program within the meaning of Part D of Subchapter I of the Act, 42 U.S.C. §§ 7501-7515, 40 C.F.R. Part 51, and the federally-approved Nonattainment NSR provisions of the Alabama, Kentucky, and Tennessee State Implementation Plans (“SIPs”), including Ala. Admin. Code r. 335-3-14-.05, 401 Ky. Admin. Regs. 51:052, Tenn. Comp. R. & Regs. 1200-3-9-.01(5), and the Memphis/Shelby County local program.

34. “NO_x” means oxides of nitrogen, measured in accordance with the provisions of this Consent Decree.

35. “NO_x Allowance” means an authorization or credit to emit a specified amount of NO_x that is allocated or issued under an emissions trading or marketable permit program of any kind that has been established under the Act and/or the Alabama, Kentucky, or Tennessee SIPs.

36. “North Carolina” means the State of North Carolina.

37. “Other Unit” means any Unit at the Shawnee Plant that is not an Improved Unit for the pollutant in question.

38. “Operational or Ownership Interest” means part or all of TVA’s legal or equitable operational or ownership interest in any Unit in the TVA System or any New CC/CT Unit(s).

39. “Parallel Provision” means a requirement or prohibition of this Consent Decree that is also a requirement or prohibition of the Compliance Agreement.

40. “Parties” means the Plaintiffs and TVA. “Party” means one of the Parties.

41. “PM” means particulate matter, as measured in accordance with the requirements of this Consent Decree.

42. “PM Control Device” means any device, including an ESP or a Baghouse, which reduces emissions of PM. If a Wet FGD is the only device controlling PM on a particular Unit, then the Wet FGD is the PM Control Device.

43. “PM Emission Rate” means the number of pounds of filterable PM emitted per million British thermal units of heat input (“lb/mmBTU”), as measured in accordance with this Consent Decree.

44. “Plaintiffs” means collectively the States and the Citizen Plaintiffs.

45. “PSD” means Prevention of Significant Deterioration within the meaning of Part C of Subchapter I of the Act, 42 U.S.C. §§ 7470 - 7492 and 40 C.F.R. Part 52, and the federally-approved PSD provisions of the Alabama, Kentucky, and Tennessee SIPs, including Ala. Admin. Code r. 335-3-14-.04, 401 Ky. Admin. Reg. 51:017, Tenn. Comp. R. & Regs. 1200-3-9-.01(4), and the Memphis/Shelby County local program.

46. “Region 4 Air Director” means the EPA Region 4 Director of Air, Pesticides and Toxics Management Division.

47. “Remove from Service” means:

a. with regard to the John Sevier plant, that two (2) of the four (4) Units shall cease to operate and emit any pollutants whatsoever by the dates specified in Paragraphs 69 and 85 for the 2 Units to be Removed from Service unless and until an SCR and FGD are installed and commence Continuous Operation for each such Unit, or the Unit(s) is Repowered to Renewable Biomass or Retired, which shall occur by no later than the second date specified in Paragraphs 69 and 85 for the 2 Units that are Removed from Service provided that TVA may select which 2 Units at the John Sevier plant it will Remove from Service and that the remaining 2 Units shall be Retired as set forth in Paragraphs 69 and 85, and

b. with regard to Colbert Units 1-5, that such Units shall cease to operate and emit any pollutants whatsoever by the dates specified in Paragraphs 69 and 85 unless and until, by no later than three (3) years thereafter, an SCR and FGD are installed and commence Continuous Operation for each such Unit(s) or the Unit(s) is Repowered to Renewable Biomass or Retired, as specified therein.

48. “Renewable Biomass” means, solely for purposes of this Consent Decree, any organic matter that is available on a renewable basis from non-Federal land or from federal land that TVA manages, including renewable plant material; waste material, including crop residue; other vegetative waste material, including wood waste and wood residues; animal waste and byproducts; construction, food and yard waste; and residues and byproducts from wood pulp or

paper products facilities. Biomass is renewable if it originates from forests that remain forests, or from croplands and/or grasslands that remain cropland and/or grassland or revert to forest.

Biomass residues and byproducts from wood pulp or paper products facilities includes by-products, residues, and waste streams from agriculture, forestry, and related industries, but does not include used oil or expired pesticides. “Renewable Biomass” does not include any treated wood, including but not limited to, railroad ties, painted woods, or wood that has been treated with pentachlorophenol, copper-based and borate-based compounds, or creosote.

49. “Repower” or “Repowered” means Repower to Renewable Biomass or Repowered to Renewable Biomass.

50. “Repower to Renewable Biomass” or “Repowered to Renewable Biomass” for purposes of this Consent Decree means a TVA System Unit that is repowered to combust a fuel other than coal. Such a Repowered Unit shall only combust Renewable Biomass; provided, however, that such Repowered Unit may co-fire a fuel other than Renewable Biomass (but not used oil, expired pesticides, or any treated wood, including but not limited to, railroad ties, painted wood, or wood that has been treated with pentachlorophenol, copper-based and borate-based compounds, or creosote) up to six percent (6%) of heat input each calendar year for the Unit. Notwithstanding Section III.H (Resolution of Claims Against TVA) and Paragraph 116, for Shawnee Unit 10 and any other TVA System Unit that TVA Repowers to Renewable Biomass pursuant to Paragraphs 69 or 85, TVA shall apply for all required permits. A new source review permit under the PSD and/or Nonattainment NSR programs is a required permit within the meaning of this Paragraph; such a Repowered Unit is a “new emissions unit” as that

term is defined in 40 C.F.R. §§ 52.21(b)(7)(i), 51.165(a)(1)(vii)(A), and 51.166(b)(7)(i), and the relevant SIP; and such Unit shall be subject to the test described in 40 C.F.R. §§ 52.21(a)(2)(iv)(d), 51.165(a)(2)(ii)(D), and 51.166(a)(7)(d), and the relevant SIP. In such permitting action, TVA shall apply to include the limitation on co-firing a fuel other than Renewable Biomass as specified above. Any TVA System Unit that has the option to Repower to Renewable Biomass in Paragraphs 69 and 85 that TVA elects to Repower to Renewable Biomass as the Control Requirement under this Consent Decree, shall be subject to the prohibitions in Section III.E (Prohibition on Netting or Offsets From Required Controls). If Shawnee Unit 10 is Repowered to Renewable Biomass, it shall be subject to the prohibitions in Section III.E (Prohibition on Netting or Offsets From Required Controls) regarding netting credits.

51. “Retire” means that TVA shall permanently cease to operate the Unit such that the Unit cannot legally burn any fuel nor produce any steam for electricity production and TVA shall comply with applicable state and/or federal requirements for permanently retiring a coal-fired electric generating unit, including removing the Unit from the relevant state’s air emissions inventory, and amending all applicable permits so as to reflect the permanent shutdown status of such Unit. Nothing herein shall prevent TVA from seeking to re-start the Retired Unit provided that TVA applies for, and obtains, all required permits. A new source review permit under the PSD and/or Nonattainment NSR programs is a required permit within the meaning of this Paragraph; such Retired Unit shall be a “new emissions unit” as that term is defined in 40 C.F.R. §§ 52.21(b)(7)(i), 51.165(a)(1)(vii)(A), and 51.166(b)(7)(i), and the relevant SIP; and such

Retired Unit shall be subject to the test described in 40 C.F.R. §§ 52.21(a)(2)(iv)(d), 51.165(a)(2)(ii)(D), and 51.166(a)(7)(d), and the relevant SIP.

52. “Selective Catalytic Reduction” or “SCR” means a pollution control device that employs selective catalytic reduction technology for the reduction of NO_x emissions.

53. “Selective Non-Catalytic Reduction” or “SNCR” means a pollution control device for the reduction of NO_x emissions that utilizes ammonia or urea injection into the boiler.

54. “Startup” and “Shutdown” mean, as to each of those terms, the definition of those respective terms in 40 C.F.R. § 60.2.

55. “States” or “the States” refers collectively to Alabama, Kentucky, North Carolina, and Tennessee.

56. “SO₂” means sulfur dioxide, as measured in accordance with the provisions of this Consent Decree.

57. “SO₂ Allowance” means an authorization or credit to emit a specified amount of SO₂ that is allocated or issued under an emissions trading or marketable permit program of any kind that has been established under the Act or the Alabama, Kentucky, or Tennessee SIPs.

58. “Surrender” or “surrender of allowances” means, for purposes of SO₂ or NO_x allowances, permanently surrendering allowances as required by this Consent Decree from the accounts administered by EPA and Alabama, Kentucky, and Tennessee for all Units in the TVA System, so that such allowances can never be used thereafter by any entity to meet any compliance requirement under the Act, a SIP, or this Consent Decree.

59. “System-Wide Annual Tonnage Limitation” means the number of tons of the pollutant in question that may be emitted collectively from the TVA System and any New CC/CT Units during the relevant calendar year (i.e., January 1 through December 31), and shall include all emissions of the pollutant emitted during all periods of operation, including Startup, Shutdown, and Malfunction.

60. “Tennessee” means the State of Tennessee, Tennessee Department of Environment and Conservation (“TDEC”).

61. “Tennessee State Implementation Plan” and “Tennessee Title V program” shall include, when applicable, the new source review provisions of the Memphis/Shelby County local program, and its implementing regulations, and its Title V permit program.

62. “TVA” means Tennessee Valley Authority, a federal agency and instrumentality of the United States.

63. “TVA System” means solely for purposes of this Consent Decree, the following coal-fired, electric steam generating Units (with nameplate MW capacity of each Unit, for identification purposes only) or such coal-fired Unit that is Repowered to Renewable Biomass, located at the following plants:

- a. Allen Unit 1 (330 MW), Allen Unit 2 (330 MW), and Allen Unit 3 (330 MW) located at the Allen Fossil Plant near Memphis, Tennessee;
- b. Bull Run Unit 1 (950 MW) located at the Bull Run Fossil Plant near Oak Ridge, Tennessee;

- c. Colbert Unit 1 (200 MW), Colbert Unit 2 (200 MW), Colbert Unit 3 (200 MW), Colbert Unit 4 (200 MW), and Colbert Unit 5 (550 MW) located at the Colbert Fossil Plant in Tuscumbia, Alabama;
- d. Cumberland Unit 1 (1300 MW) and Cumberland Unit 2 (1300 MW) located at the Cumberland Fossil Plant in Cumberland City, Tennessee;
- e. Gallatin Unit 1 (300 MW), Gallatin Unit 2 (300 MW), Gallatin Unit 3 (327.6 MW), and Gallatin Unit 4 (327.6 MW) located at the Gallatin Fossil Plant in Gallatin, Tennessee;
- f. John Sevier Unit 1 (200 MW), John Sevier Unit 2 (200 MW), John Sevier Unit 3 (200 MW), and John Sevier Unit 4 (200 MW) located at the John Sevier Fossil Plant near Rogersville, Tennessee;
- g. Johnsonville Unit 1 (125 MW), Johnsonville Unit 2 (125 MW), Johnsonville Unit 3 (125 MW), Johnsonville Unit 4 (125 MW), Johnsonville Unit 5 (147 MW), Johnsonville Unit 6 (147 MW), Johnsonville Unit 7 (172.8 MW), Johnsonville Unit 8 (172.8 MW), Johnsonville Unit 9 (172.8 MW), and Johnsonville Unit 10 (172.8 MW) located at the Johnsonville Fossil Plant near Waverly, Tennessee;
- h. Kingston Unit 1 (175 MW), Kingston Unit 2 (175 MW), Kingston Unit 3 (175 MW), Kingston Unit 4 (175 MW), Kingston Unit 5 (200 MW), Kingston Unit 6 (200 MW), Kingston Unit 7 (200 MW), Kingston Unit 8

(200 MW), and Kingston Unit 9 (200 MW) located at the Kingston Fossil Plant near Kingston, Tennessee;

- i. Paradise Unit 1 (704 MW), Paradise Unit 2 (704 MW), and Paradise Unit 3 (1150.2 MW) located at the Paradise Fossil Plant in Drakesboro, Kentucky;
- j. Shawnee Unit 1 (175 MW), Shawnee Unit 2 (175 MW), Shawnee Unit 3 (175 MW), Shawnee Unit 4 (175 MW), Shawnee Unit 5 (175 MW), Shawnee Unit 6 (175 MW), Shawnee Unit 7 (175 MW), Shawnee Unit 8 (175 MW), Shawnee Unit 9 (175 MW), and Shawnee Unit 10 (175 MW) located at the Shawnee Fossil Plant near Paducah, Kentucky; and
- k. Widows Creek Unit 1 (140.6 MW), Widows Creek Unit 2 (140.6 MW), Widows Creek Unit 3 (140.6 MW), Widows Creek Unit 4 (140.6 MW), Widows Creek Unit 5 (140.6 MW), Widows Creek Unit 6 (140.6 MW), Widows Creek Unit 7 (575 MW), and Widows Creek Unit 8 (550 MW) located at the Widows Creek Fossil Plant near Stevenson, Alabama.

64. “Title V Permit” means the permit required of TVA’s major sources under Subchapter V of the Act, 42 U.S.C. §§ 7661-7661e; Ala. Code §§ 22-22A-1 to -16, §§ 22-28-1 to -23 (2006 Rplc. Vol.), and Ala. Admin. Code r. 335-3-16; Ky. Rev. Stat. Ann. §§ 224.20-100 to -120, and 401 Ky. Admin. Reg. 52:020; and Tenn. Comp. R. & Regs. R. 1200-3-9-.02.

65. “Unit” means collectively, the coal pulverizer, stationary equipment that feeds coal to the boiler, the boiler that produces steam for the steam turbine, the steam turbine, the

generator, the equipment necessary to operate the generator, steam turbine and boiler, and all ancillary equipment, including pollution control equipment. An electric steam generating station may comprise one or more Units. “Unit” shall also include any coal-fired TVA System Unit identified in Paragraph 63 that is Repowered to Renewable Biomass pursuant to this Consent Decree.

66. “VOC” means volatile organic compounds as defined in 40 C.F.R. § 51.100.

B. NO_x EMISSION REDUCTIONS AND CONTROLS

1. NO_x Emission Limitations.

67. System-Wide Annual Tonnage Limitations for NO_x. During each calendar year specified in the table below, all Units in the TVA System and any New CC/CT Units constructed pursuant to Paragraph 117, collectively, shall not emit NO_x in excess of the following System-Wide Annual Tonnage Limitations:

Calendar Year	System-Wide Tonnage Limitation for NO_x
2011	100,600
2012	100,600
2013	90,791
2014	86,842
2015	83,042
2016	70,667
2017	64,951
2018, and each year thereafter	52,000

68. If TVA elects to Remove from Service any or all of Colbert Units 1-5 either pursuant to Paragraph 69 or Paragraph 85, then the System-Wide Annual Tonnage Limitations

for NO_x in each calendar year for which such Unit(s) is Removed from Service shall be adjusted as follows:

Unit	Tons by Which System-Wide Annual Tonnage Limitation for NO_x Shall be Reduced If Unit is Removed From Service in a Calendar Year
Colbert Unit 1	700 tons
Colbert Unit 2	500 tons
Colbert Unit 3	500 tons
Colbert Unit 4	500 tons
Colbert Unit 5	1,200 tons

2. NO_x Control Requirements.

69. No later than the dates set forth in the table below, and continuing thereafter, TVA shall install and commence Continuous Operation of the pollution control technology identified therein or, if indicated in the table, Retire or Repower each Unit identified therein, or, solely for Colbert Units 1-4 and two (2) Units at the John Sevier plant, Remove from Service as defined herein:

Plant	Unit	Control Requirement	Date
Allen	Unit 1	SCR	Consent Decree Obligation Date
Allen	Unit 2	SCR	Consent Decree Obligation Date
Allen	Unit 3	SCR	Consent Decree Obligation Date
Bull Run	Unit 1	SCR	Consent Decree Obligation Date
Colbert	Unit 1	Remove from Service, SCR, Repower to Renewable Biomass, or Retire	June 30, 2016

Plant	Unit	Control Requirement	Date
Colbert	Unit 2	Remove from Service, SCR, Repower to Renewable Biomass, or Retire	June 30, 2016
Colbert	Unit 3	Remove from Service, SCR, Repower to Renewable Biomass, or Retire	June 30, 2016
Colbert	Unit 4	Remove from Service, SCR, Repower to Renewable Biomass, or Retire	June 30, 2016
Colbert	Unit 5	SCR	Consent Decree Obligation Date
Cumberland	Unit 1	SCR	Consent Decree Obligation Date
Cumberland	Unit 2	SCR	Consent Decree Obligation Date
Gallatin	Unit 1	SCR, Repower to Renewable Biomass, or Retire	December 31, 2017
Gallatin	Unit 2	SCR, Repower to Renewable Biomass, or Retire	December 31, 2017
Gallatin	Unit 3	SCR, Repower to Renewable Biomass, or Retire	December 31, 2017
Gallatin	Unit 4	SCR, Repower to Renewable Biomass, or Retire	December 31, 2017
John Sevier	2 Units	Retire	December 31, 2012
John Sevier	2 other Units	Remove from Service	December 31, 2012
		SCR, Repower to Renewable Biomass, or Retire	December 31, 2015
Johnsonville	Units 1 - 10	Retire	6 Units by December 31, 2015
			4 additional Units by December 31, 2017
Kingston	Unit 1	SCR	Consent Decree Obligation Date

Plant	Unit	Control Requirement	Date
Kingston	Unit 2	SCR	Consent Decree Obligation Date
Kingston	Unit 3	SCR	Consent Decree Obligation Date
Kingston	Unit 4	SCR	Consent Decree Obligation Date
Kingston	Unit 5	SCR	Consent Decree Obligation Date
Kingston	Unit 6	SCR	Consent Decree Obligation Date
Kingston	Unit 7	SCR	Consent Decree Obligation Date
Kingston	Unit 8	SCR	Consent Decree Obligation Date
Kingston	Unit 9	SCR	Consent Decree Obligation Date
Paradise	Unit 1	SCR	Consent Decree Obligation Date
Paradise	Unit 2	SCR	Consent Decree Obligation Date
Paradise	Unit 3	SCR	Consent Decree Obligation Date
Shawnee	Unit 1	SCR, Repower to Renewable Biomass, or Retire	December 31, 2017
Shawnee	Unit 4	SCR, Repower to Renewable Biomass, or Retire	December 31, 2017
Widows Creek	Units 1-6	Retire	2 Units by July 31, 2013
			2 additional Units by July 31, 2014
			2 additional Units by July 31, 2015
Widows Creek	Unit 7	SCR	Consent Decree Obligation Date
Widows Creek	Unit 8	SCR	Consent Decree Obligation Date

70. Notwithstanding Paragraph 69, TVA's failure to (a) complete installation and commence Continuous Operation of a pollution control technology by the date specified in the table in Paragraph 69 or (b) Repower to Renewable Biomass by the date specified in the table in Paragraph 69, shall not be a violation of this Consent Decree if such Unit:

(i) ceases to operate and emit any pollutants whatsoever at least sixty (60) days before the date specified in the table in Paragraph 69, and

(ii) the installation is completed and the Unit commences Continuous Operation of the pollution control technology specified in the table in Paragraph 69 or as a Repowered Unit no later than ninety (90) days after the date specified in the table in Paragraph 69. If TVA fails to commence Continuous Operation of the pollution control technology or the Repowered Unit ninety (90) days after such date, then TVA shall be subject to stipulated penalties for the entire period commencing on the date specified in the Table in Paragraph 69.

71. Beginning upon the Consent Decree Obligation Date and continuing thereafter, TVA shall (a) Continuously Operate existing LNB, OFA, and SOFA combustion controls at all Units in the TVA System and (b) Continuously Operate existing SNCR technology at all Units in the TVA System equipped with such technology as of the Date of Lodging of this Consent Decree (i.e., John Sevier Units 1-4 and Johnsonville Units 1-4) unless and until such Unit is equipped with an SCR and TVA Continuously Operates such SCR pursuant to this Consent Decree, or such Unit is Retired or Repowered pursuant to this Consent Decree.

72. For TVA System Units with two or more methods specified in the Control Requirement column in the table in Paragraph 69, above, TVA shall provide notice to EPA, the

States, and the Citizen Plaintiffs pursuant to Section VIII (Notices) of this Consent Decree of its election as to which of the Control Requirement methods it will employ at such Unit by no later than three (3) years prior to the date specified in the table for that Unit. For the Units at the John Sevier plant, TVA shall provide notice to EPA, the States, and the Citizen Plaintiffs pursuant to Section VIII (Notices) of this Consent Decree of its election as to which two (2) Units it will Retire and which two (2) Units it will at least initially Remove from Service, by no later than June 30, 2012. For any TVA System Unit that TVA timely elects to control with SCR or Repower to Renewable Biomass, TVA may change its election to Retire at any time prior to the date specified in the table in Paragraph 69. TVA shall provide notice to EPA, the States, and the Citizen Plaintiffs pursuant to Section VIII (Notices) of its decision to Retire the Unit, with an explanation for its decision to change the election, by no later than ten (10) business days following its decision to change its election from SCR or Repower to Renewable Biomass to Retire.

73. Solely for the Units at the Colbert plant, if TVA elects the Remove from Service option, it shall provide notice to EPA, the States, and the Citizen Plaintiffs pursuant to Section VIII (Notices) at the time such Units are required to be Removed from Service as to which method specified in the Control Requirement column in the table in Paragraph 69 it will employ at such Unit.

3. Use and Surrender of NO_x Allowances.

74. TVA shall not use NO_x Allowances to comply with any requirement of this Consent Decree, including by claiming compliance with any emission limitation required by this

Consent Decree by using, tendering, or otherwise applying NO_x Allowances to offset any excess emissions.

75. Beginning with calendar year 2011, and continuing each calendar year thereafter, TVA shall surrender all NO_x Allowances allocated to the TVA System for that calendar year that TVA does not need in order to meet its own federal and/or state Clean Air Act regulatory requirements for the TVA System for that calendar year. However, NO_x Allowances allocated to the TVA System may be used by TVA to meet its own federal and/or state Clean Air Act regulatory requirements for the Units included in the TVA System.

76. Nothing in this Consent Decree shall prevent TVA from purchasing or otherwise obtaining NO_x Allowances from another source for purposes of complying with federal and/or state Clean Air Act regulatory requirements (i.e., emissions trading or marketable permit programs) to the extent otherwise allowed by law.

77. The requirements of this Consent Decree pertaining to TVA's use and surrender of NO_x Allowances are permanent injunctions not subject to any termination provision of this Consent Decree.

4. Super-Compliance Allowances.

78. Notwithstanding Paragraph 75, in each calendar year beginning in 2011, and continuing thereafter, TVA may sell, bank, use, trade, or transfer any NO_x Allowances made available in that calendar year as a result of maintaining actual NO_x emissions from the combined total of (a) the TVA System and (b) any New CC/CT Unit(s) constructed pursuant to Paragraph 117 below the System-Wide Annual Tonnage Limitations for NO_x for such calendar year (“Super-Compliance Allowances”); provided, however, that reductions in NO_x emissions that

TVA utilizes as provided in Paragraph 117 to support the permitting of a New CC/CT Unit(s) shall not be available to generate Super-Compliance Allowances within the meaning of this Paragraph in the calendar year in which TVA utilizes such emission reductions and all calendar years thereafter. TVA shall timely report the generation of all Super-Compliance NO_x Allowances in accordance with Section III.I (Periodic Reporting) of this Consent Decree, and shall specifically identify any Super-Compliance NO_x Allowances that TVA generates from Retiring a TVA System Unit and that TVA did not utilize for purposes of Paragraph 117.

5. Method for Surrender of NO_x Allowances.

79. TVA shall surrender all NO_x Allowances required to be surrendered pursuant to Paragraph 75 by April 30 of the immediately following calendar year.

80. For all NO_x Allowances required to be surrendered, TVA shall first submit a NO_x Allowance transfer request form to EPA's Office of Air and Radiation's Clean Air Markets Division directing the transfer of such NO_x Allowances to the EPA Enforcement Surrender Account or to any other EPA account that EPA may direct in writing. As part of submitting these transfer requests, TVA shall irrevocably authorize the transfer of these NO_x Allowances and identify -- by name of account and any applicable serial or other identification numbers or station names -- the source and location of the NO_x Allowances being surrendered.

6. NO_x Monitoring Provisions.

81. TVA shall use CEMS in accordance with 40 C.F.R. Part 75 to monitor its emissions of NO_x from the TVA System Units and any New CC/CT Unit(s) for purposes of demonstrating compliance with the applicable System-Wide Annual Tonnage Limitations specified in Paragraph 67 of this Consent Decree.

C. SO₂ EMISSION REDUCTIONS AND CONTROLS

1. SO₂ Emission Limitations.

82. System-Wide Annual Tonnage Limitations for SO₂. During each calendar year specified in the table below, all Units in the TVA System and any New CC/CT Unit(s) constructed pursuant to Paragraph 117, collectively, shall not emit SO₂ in excess of the following System-Wide Annual Tonnage Limitations:

Calendar Year	System-Wide Tonnage Limitation for SO₂
2011	285,000
2012	285,000
2013	235,518
2014	228,107
2015	220,631
2016	175,626
2017	164,257
2018	121,699
2019, and each year thereafter	110,000

83. If TVA elects to Remove from Service any or all of Colbert Units 1-5 either pursuant to Paragraph 69 or Paragraph 85, then the System-Wide Annual Tonnage Limitations for SO₂ in each calendar year for which such Unit(s) is Removed from Service shall be adjusted as follows:

Calendar Year	Tons by Which System-Wide Annual Tonnage Limitation for SO₂ Shall be Reduced If Unit is Removed From Service in a Calendar Year
Colbert Unit 1	700 tons
Colbert Unit 2	1,100 tons
Colbert Unit 3	1,000 tons
Colbert Unit 4	1,100 tons
Colbert Unit 5	2,600 tons

84. If TVA must shut down one or more of its nuclear units for more than one hundred and twenty (120) consecutive days within calendar year 2011 or within calendar year 2012 because of a forced outage or in response to a safety concern as required by the Nuclear Regulatory Commission, then the System-Wide Annual Tonnage Limitation for SO₂ for that calendar year shall be 295,000 tons rather than 285,000 tons as specified in the table in Paragraph 82.

If TVA must shut down one or more of its nuclear units for more than one hundred and twenty (120) consecutive days within calendar year 2013 or within calendar year 2014 because of a forced outage or in response to a safety concern as required by the Nuclear Regulatory Commission, then the System-Wide Annual Tonnage Limitation for SO₂ for calendar year 2013 shall be 241,700 tons rather than 235,518 tons as specified in the table in Paragraph 82 and the System-Wide Annual Tonnage Limitation for SO₂ for calendar year 2014 shall be 234,000 tons rather than 228,107 tons as specified in the table in Paragraph 82. In order to put EPA, the States, and the Citizen Plaintiffs on notice of this potential event, TVA shall provide notice to EPA, the States, and the Citizen Plaintiffs pursuant to Section VIII (Notices), and include a summary of the circumstances causing the shut down and TVA's efforts to bring the unit back on line, commencing no later than thirty (30) days following the shutdown of a nuclear unit, and continuing every thirty (30) days thereafter until either (a) the unit comes back online or (b) the unit remains shut down for one hundred twenty (120) consecutive days, whichever is earlier. In this circumstance, TVA shall, to the extent practicable, increase utilization of any Units in the TVA System that are controlled with FGDs and/or SCRs and/or any New CC/CT Unit(s)

constructed pursuant to Paragraph 117 to replace the lost power generation from the nuclear unit before increasing utilization of uncontrolled TVA System Units.

2. SO₂ Control Requirements.

85. No later than the dates set forth in the table below, and continuing thereafter, TVA shall install and commence Continuous Operation of the pollution control technology at each Unit identified therein or, if indicated in the table, Retire or Repower each Unit identified therein, or, solely for Colbert Units 1-5 and two (2) Units at the John Sevier plant, Remove from Service as defined herein:

Plant	Unit	Control Requirement	Date
Allen	Unit 1	FGD or Retire	December 31, 2018
Allen	Unit 2	FGD or Retire	December 31, 2018
Allen	Unit 3	FGD or Retire	December 31, 2018
Bull Run	Unit 1	Wet FGD	Consent Decree Obligation Date
Colbert	Unit 1	Remove from Service, FGD, Repower to Renewable Biomass, or Retire	June 30, 2016
Colbert	Unit 2	Remove from Service, FGD, Repower to Renewable Biomass, or Retire	June 30, 2016
Colbert	Unit 3	Remove from Service, FGD, Repower to Renewable Biomass, or Retire	June 30, 2016
Colbert	Unit 4	Remove from Service, FGD, Repower to Renewable Biomass, or Retire	June 30, 2016
Colbert	Unit 5	Remove from Service, FGD or Retire	December 31, 2015
Cumberland	Unit 1	Wet FGD	Consent Decree Obligation Date

Plant	Unit	Control Requirement	Date
Cumberland	Unit 2	Wet FGD	Consent Decree Obligation Date
Gallatin	Unit 1	FGD, Repower to Renewable Biomass, or Retire	December 31, 2017
Gallatin	Unit 2	FGD, Repower to Renewable Biomass, or Retire	December 31, 2017
Gallatin	Unit 3	FGD, Repower to Renewable Biomass, or Retire	December 31, 2017
Gallatin	Unit 4	FGD, Repower to Renewable Biomass, or Retire	December 31, 2017
John Sevier	2 Units	Retire	December 31, 2012
John Sevier	2 other Units	Remove from Service	December 31, 2012
		FGD, Repower to Renewable Biomass, or Retire	December 31, 2015
Johnsonville	Units 1 - 10	Retire	6 Units by December 31, 2015
			4 additional Units by December 31, 2017
Kingston	Unit 1	Wet FGD	Consent Decree Obligation Date
Kingston	Unit 2	Wet FGD	Consent Decree Obligation Date
Kingston	Unit 3	Wet FGD	Consent Decree Obligation Date
Kingston	Unit 4	Wet FGD	Consent Decree Obligation Date
Kingston	Unit 5	Wet FGD	Consent Decree Obligation Date
Kingston	Unit 6	Wet FGD	Consent Decree Obligation Date
Kingston	Unit 7	Wet FGD	Consent Decree Obligation Date
Kingston	Unit 8	Wet FGD	Consent Decree Obligation Date
Kingston	Unit 9	Wet FGD	Consent Decree Obligation Date
Paradise	Unit 1	FGD Upgrade to 93% Removal Efficiency	December 31, 2012

Plant	Unit	Control Requirement	Date
Paradise	Unit 2	FGD Upgrade to 93% Removal Efficiency	December 31, 2012
Paradise	Unit 3	Wet FGD	Consent Decree Obligation Date
Shawnee	Unit 1	FGD, Repower to Renewable Biomass, or Retire	December 31, 2017
Shawnee	Unit 4	FGD, Repower to Renewable Biomass, or Retire	December 31, 2017
Widows Creek	Units 1-6	Retire	2 Units by July 31, 2013
			2 additional Units by July 31, 2014
			2 additional Units by July 31, 2015
Widows Creek	Unit 7	Wet FGD	Consent Decree Obligation Date
Widows Creek	Unit 8	Wet FGD	Consent Decree Obligation Date

Notwithstanding any requirement specified in the preceding table to Continuously Operate a Wet FGD at Kingston Units 1-9, TVA shall not be required to Continuously Operate such Wet FGD(s) until either: (a) TDEC authorizes disposal of gypsum in the Class II landfill (IDL 73-0211) which, as of the Date of Lodging of this Consent Decree, is prohibited pursuant to TDEC's Order dated December 17, 2010 in Case No. SWM10-0010 or (b) September 20, 2011, whichever occurs sooner. During the period when this exemption is in effect, TVA shall (a) burn coal at Kingston that achieves a 30-day rolling average emission rate for SO₂ of no greater than 1.1 lb/mmBTU and (b) operate Kingston only after Bull Run is dispatched first. This exemption shall not relieve TVA of its obligation to comply with the 2011 SO₂ System-Wide Annual Tonnage Limitation and shall not relieve TVA of any other control requirements relating to Kingston, except as provided in Paragraph 100.

86. Notwithstanding Paragraph 85, TVA's failure to (a) complete installation and commence Continuous Operation of a pollution control technology by the date specified in the table in Paragraph 85 or (b) Repower to Renewable Biomass by the date specified in the table in Paragraph 85, shall not be a violation of this Consent Decree if such Unit:

(i) ceases to operate and emit any pollutants whatsoever at least sixty (60) days before the date specified in the table in Paragraph 85, and

(ii) the installation is completed and the Unit commences Continuous Operation of the pollution control technology specified in the table in Paragraph 85 or as a Repowered Unit no later than ninety (90) days after the date specified in the table in Paragraph 85. If TVA fails to commence Continuous Operation of the pollution control technology or the Repowered Unit ninety (90) days after such date, then TVA shall be subject to stipulated penalties for the entire period commencing on the date specified in the Table in Paragraph 85.

87. Upon the Consent Decree Obligation Date, and continuing thereafter, emissions of SO₂ from Shawnee Units 1-10 shall not exceed 1.2 lb/mmBTU. Compliance with this limitation shall be demonstrated using the procedures specified in the Clean Air Act operating permit for the Shawnee facility.

88. For TVA System Units with two or more methods specified in the Control Requirement column in the table in Paragraph 85, above, TVA shall provide notice to EPA, the States, and the Citizen Plaintiffs pursuant to Section VIII (Notices) of its election as to which of the Control Requirement methods it will employ at such Unit by no later than three (3) years prior to the date specified in the Table for that Unit. For the Units at the John Sevier plant, TVA shall provide notice to EPA, the States, and the Citizen Plaintiffs pursuant to Section VIII

(Notices) of this Consent Decree of its election as to which two (2) Units it will Retire and which two (2) Units it will at least initially Remove from Service, by no later than June 30, 2012. For any TVA System Unit that TVA timely elects to control with FGD or Repower to Renewable Biomass, TVA may change its election to Retire at any time prior to the date specified in the table in Paragraph 85. TVA shall provide notice to EPA, the States, and the Citizen Plaintiffs pursuant to Section VIII (Notices) of its decision to Retire the Unit, with an explanation for its decision to change the election, by no later than ten (10) business days following its decision to change its election from FGD or Repower to Renewable Biomass to Retire.

89. Solely for the Units at the Colbert plant, if TVA elects the Remove from Service option, it shall provide notice to EPA, the States, and the Citizen Plaintiffs pursuant to Section VIII (Notices) at the time such Units are required to be Removed from Service as to which method specified in the Control Requirement column in the table in Paragraph 85 it will employ at such Unit.

3. Use and Surrender of SO₂ Allowances.

90. TVA shall not use SO₂ Allowances to comply with any requirement of this Consent Decree, including by claiming compliance with any emission limitation required by this Consent Decree by using, tendering, or otherwise applying SO₂ Allowances to offset any excess emissions.

91. Beginning with calendar year 2011, and continuing each calendar year thereafter, TVA shall surrender all SO₂ Allowances allocated to the TVA System for that calendar year that TVA does not need in order to meet its own federal and/or state Clean Air Act regulatory requirements for the TVA System Units for that calendar year. However, SO₂ Allowances

allocated to the TVA System may be used by TVA to meet its own federal and/or state Clean Air Act regulatory requirements for the TVA System Units.

92. Nothing in this Consent Decree shall prevent TVA from purchasing or otherwise obtaining SO₂ Allowances from another source for purposes of complying with federal and/or state Clean Air Act regulatory requirements (i.e., emissions trading or marketable permit programs) to the extent otherwise allowed by law.

93. The requirements in this Consent Decree pertaining to TVA's use and surrender of SO₂ Allowances are permanent injunctions not subject to any termination provision of this Consent Decree.

4. Super-Compliance Allowances.

94. Notwithstanding Paragraph 91, in each calendar year beginning in 2011, and continuing thereafter, TVA may sell, bank, use, trade, or transfer any SO₂ Allowances made available in that calendar year as a result of maintaining actual SO₂ emissions from the combined total of (a) the TVA System and (b) any New CC/CT Unit(s) constructed pursuant to Paragraph 117 below the System-Wide Annual Tonnage Limitations for SO₂ for such calendar year ("Super-Compliance Allowances"); provided, however, that reductions in SO₂ emissions that TVA utilizes as provided in Paragraph 117 to support the permitting of a New CC/CT Unit(s) shall not be available to generate Super-Compliance Allowances within the meaning of this Paragraph in the calendar year in which TVA utilizes such emission reductions and all calendar years thereafter. TVA shall timely report the generation of all Super-Compliance SO₂ Allowances in accordance with Section III.I (Periodic Reporting) of this Consent Decree, and

shall specifically identify any Super-Compliance SO₂ Allowances that TVA generates from Retiring a TVA System Unit and that TVA did not utilize for purposes of Paragraph 117.

5. Method for Surrender of SO₂ Allowances.

95. TVA shall surrender all SO₂ Allowances required to be surrendered pursuant to Paragraph 91 by April 30 of the immediately following year.

96. For all SO₂ Allowances required to be surrendered, TVA shall first submit an SO₂ Allowance transfer request form to EPA's Office of Air and Radiation's Clean Air Markets Division directing the transfer of such SO₂ Allowances to the EPA Enforcement Surrender Account or to any other EPA account that EPA may direct in writing. As part of submitting these transfer requests, TVA shall irrevocably authorize the transfer of these SO₂ Allowances and identify -- by name of account and any applicable serial or other identification numbers or station names -- the source and location of the SO₂ Allowances being surrendered.

6. SO₂ Monitoring Provisions.

97. TVA shall use CEMS in accordance with 40 C.F.R. Part 75 to monitor its emissions of SO₂ from the TVA System Units and any New CC/CT Unit(s) for purposes of demonstrating compliance with the applicable System-Wide Annual Tonnage Limitations specified in Paragraph 82 of this Consent Decree.

D. PM EMISSION REDUCTIONS AND CONTROLS

1. Optimization of Existing PM Control Devices.

98. Beginning sixty (60) days after the Consent Decree Obligation Date, and continuing thereafter, TVA shall Continuously Operate each PM Control Device on each Unit in the TVA System. TVA shall, at a minimum, to the extent reasonably practicable and consistent

with manufacturers' specifications, the operational design of the Unit, and good engineering practices (a) fully energize each section of the ESP for each Unit, and where applicable, operate each compartment of the Baghouse (except for a Baghouse compartment that, as part of the original design of the Baghouse when it was first constructed, is a spare compartment); (b) operate automatic control systems on each ESP to maximize PM collection efficiency; and (c) maintain power levels delivered to the ESPs, and where applicable, replace bags as needed on each Baghouse as needed to maximize collection efficiency.

99. TVA shall complete and submit to EPA for review and approval in accordance with Section III.J (Review and Approval of Submittals) of the Compliance Agreement, with copies of such submittal to the States and the Citizen Plaintiffs pursuant to Section VIII (Notices) of this Consent Decree, a PM emission control optimization study for each TVA System Unit except for (a) Colbert Unit 5, Paradise Units 1 and 2, and Widows Creek Unit 8, (b) those Units that TVA is required to Retire pursuant to Paragraphs 69 and 85, (c) those Units that TVA elects to Retire pursuant to Paragraphs 69 and 85, and (d) those Units at which TVA has installed and commenced Continuous Operation of a new PM Control Device. The PM emission control optimization study shall, for the range of fuels used by the Unit, recommend the best available maintenance, repair, and operating practices to optimize the PM Control Device availability and performance in accordance with manufacturers' specifications, the operational design of the Unit, and good engineering practices. TVA shall retain a qualified contractor to assist in the performance and completion of each study. TVA shall perform each study and implement the EPA-approved recommendations in accordance with the following schedule:

Date	Studies Completed, New PM Control Devices Identified To Be Installed, Or Units Elected To Be Retired Pursuant To Paragraphs 69 And 85		Recommendations Implemented, New PM Control Devices Installed, Or Units Retired Pursuant To Election As Required By Paragraphs 69 And 85	
	Individual Year	Cumulative	Individual Year	Cumulative
12/31/2011	6	6	0	0
12/31/2012	8	14	1	1
12/31/2013	6	20	4	5
12/31/2014	6	26	10	15
12/31/2015	3	29	10	25
12/31/2016	4	33	8	33
12/31/2017	4	37	4	37
12/31/2018	0	37	0	37
12/31/2019	0	37	0	37

TVA shall submit each such PM emission control optimization study to EPA for review and approval (in consultation with the States and Citizen Plaintiffs) pursuant to Section III.J (Review and Approval of Submittals) at least nine (9) months before the date specified in the table in this Paragraph for TVA to implement the recommendations. TVA shall maintain each PM Control Device in accordance with the approved PM emission control optimization study or other alternative actions as approved by EPA (in consultation with the States and the Citizen Plaintiffs).

2. PM Emission Rates.

100. No later than the dates set forth in the table below, and continuing thereafter, TVA shall Continuously Operate the PM Control Devices at each Unit identified therein so that each Unit or Units served by a common stack achieve and maintain a PM Emission Rate of no greater than 0.030 lb/mmBTU as determined by stack testing:

Plant	Unit	Date
Allen	Units 1-3	December 31, 2018
Bull Run	Unit 1	Consent Decree Obligation Date
Colbert	Unit 5	December 31, 2015
Gallatin	Units 1-4	December 31, 2017
Kingston	Units 1-9	Consent Decree Obligation Date, subject to the exemption provided in Paragraph 85 for the Continuous Operation of the Wet FGDs

3. PM Emissions Monitoring.

a. PM Stack Tests.

101. Beginning in calendar year 2011, and continuing in each calendar year thereafter, TVA shall conduct a PM stack test for filterable PM at each TVA System Unit or Units served by a common stack that combust fossil fuels at any time in that calendar year.

102. Beginning in calendar year 2011, and continuing for three (3) consecutive calendar years thereafter, TVA shall conduct a PM stack test for condensable PM at each TVA System Unit or Units served by a common stack that combust fossil fuels at any time in that calendar year.

103. The annual stack test requirement imposed on each TVA System Unit by this Section may be satisfied by stack tests conducted by TVA as required by its permits from Alabama, Kentucky, and Tennessee for any year that such stack tests are required under the permits, provided that reference methods and procedures for performing such stack tests are consistent with the requirements specified in this Consent Decree.

104. Filterable PM. The reference methods and procedures for performing PM stack tests for filterable PM and for determining compliance with the PM Emission Rate shall be the applicable reference methods and procedures specified in the relevant Clean Air Act permit for the plant. TVA shall calculate the PM Emission Rate from the stack test results in accordance with 40 C.F.R. § 60.8(f). The results of each PM stack test shall be submitted to EPA, the States, and the Citizen Plaintiffs pursuant to Section VIII (Notices) of this Consent Decree within forty-five (45) days of completion of each test.

105. Condensable PM. The reference methods and procedures for performing PM stack tests to monitor condensable PM shall be those specified in 40 C.F.R. Part 51, Appendix M, Method 202. TVA shall calculate the Emission Rate for condensable PM from the stack test results in accordance with 40 C.F.R. § 60.8(f). The results of each PM stack test shall be submitted to EPA, the States, and the Citizen Plaintiffs pursuant to Section VIII (Notices) of this Consent Decree within forty-five (45) days of completion of each test.

106. Although stack testing shall be used to determine compliance with the PM Emission Rate established by this Consent Decree, data from PM CEMS shall be used, at a minimum, to monitor progress in reducing PM emissions.

b. PM CEMS.

107. TVA shall install, correlate, maintain, and operate PM CEMS as specified below. Each PM CEMS shall comprise a continuous particle mass monitor measuring PM concentration, directly or indirectly, on an hourly average basis and a diluent monitor used to convert the concentration to units of lb/mmBTU. The PM CEMS installed at each stack, or, at Kingston, installed at each flue within the stack, must be appropriate for the anticipated stack

conditions. TVA shall maintain, in an electronic database, the hourly average emission values produced by each PM CEMS in lb/mmBTU. Except for periods of monitor malfunction, maintenance, or repair, TVA shall continuously operate the PM CEMS at all times when at least one Unit it serves is operating.

108. No later than twelve (12) months after the Consent Decree Obligation Date, TVA shall submit to EPA for review and approval pursuant to Section III.J (Review and Approval of Submittals) of the Compliance Agreement, with copies of such submittal to the States and the Citizen Plaintiffs pursuant to Section VIII (Notices) of this Consent Decree, a plan for the installation and correlation of each PM CEMS and a proposed Quality Assurance/Quality Control (“QA/QC”) protocol that shall be followed in correlating such PM CEMS. At TVA’s option, and to the extent practicable, TVA may submit one plan and one QA/QC protocol that shall take into account Unit-specific measures, as needed, for the PM CEMS required by Paragraphs 107 and 109. In developing both the plan for installation and correlation of the PM CEMS and the QA/QC protocol, TVA shall use the criteria set forth in 40 C.F.R. Part 60, Appendix B, Performance Specification 11, and Appendix F, Procedure 2. Following approval by EPA (in consultation with the States and the Citizen Plaintiffs) of the plan(s) and protocol(s), TVA shall thereafter operate each PM CEMS in accordance with the approved plan(s) and QA/QC protocol(s).

109. No later than twelve (12) months after the date that EPA approves the plan for installation and correlation of the PM CEMS and the QA/QC protocol, TVA shall install, correlate, maintain and operate six (6) PM CEMS on stacks at the following Units: Paradise Unit

3, Bull Run Unit 1, Colbert Unit 5, Kingston Units 1-9 (one (1) PM CEMS on each flue), and Shawnee Units 1-5.

110. In the event that TVA elects to Retire a Unit scheduled to receive a PM CEMS or, with respect to Colbert Unit 5, elects the Remove from Service option, TVA shall locate a PM CEMS (either the same PM CEMS or a new PM CEMS) at an alternate Unit in the TVA System. TVA shall provide notice to EPA, the States, and the Citizen Plaintiffs pursuant to Section VIII (Notices) of the alternate Unit by no later than three (3) years prior to the date that the Unit specified in Paragraph 109 is Retired or Removed from Service. TVA shall comply with all the requirements of this Section for such PM CEMS. The deadline identified in Paragraph 108 shall be adjusted to twelve (12) months after TVA's notice pursuant to this Paragraph.

111. No later than ninety (90) days after TVA begins operation of the PM CEMS, TVA shall conduct tests of each PM CEMS to demonstrate compliance with the PM CEMS installation and correlation plan(s) and QA/QC protocol(s). Within forty-five (45) days of each such test, TVA shall submit the results to EPA, the States, and the Citizen Plaintiffs pursuant to Section VIII (Notices) of this Consent Decree.

112. When TVA submits the applications for amendments to its Title V Permits pursuant to Paragraph 154, those applications shall include a Compliance Assurance Monitoring ("CAM") plan, under 40 C.F.R. Part 64, for the PM Emission Rate specified in Paragraph 100. The PM CEMS required by Paragraphs 107 and 109 may be used in that CAM plan for Bull Run Unit 1, Colbert Unit 5, and Kingston Units 1-9.

c. PM Reporting.

113. Within one hundred eighty (180) days after the date established by this Consent Decree for TVA to achieve and maintain a PM Emission Rate at any TVA System Unit, TVA shall conduct a stack performance test for PM that demonstrates compliance with the Emission Rate required by this Consent Decree. Within forty-five (45) days of the performance test, TVA shall submit the results of the performance test to EPA, the States, and the Citizen Plaintiffs pursuant to Section VIII (Notices) of this Consent Decree. TVA may use the annual stack test requirement established in Paragraph 101, above, to satisfy its obligation to conduct a performance test as required by this Paragraph.

114. Following the installation of each PM CEMS, TVA shall begin and continue to report, pursuant to Section III.I (Periodic Reporting), the data recorded by the PM CEMS, expressed in lb/mmBTU on a three-hour (3-hour) rolling average basis and a twenty-four-hour (24-hour) rolling average basis in electronic format to EPA, the States, and the Citizen Plaintiffs including identification of each 3-hour average and 24-hour average above the applicable PM Emission Rate for Bull Run Unit 1, Colbert Unit 5, and Kingston Units 1-9, as required by Paragraph 100.

E. PROHIBITION ON NETTING OR OFFSETS FROM REQUIRED CONTROLS

115. Emission reductions that result from actions to be taken by TVA after the Consent Decree Obligation Date to comply with the requirements of this Consent Decree shall not be considered as creditable contemporaneous emission decreases for the purpose of netting or offset under the Act's PSD and Nonattainment NSR programs (including any applicable SIP provisions).

116. The limitations on the generation and use of netting credits and offsets set forth in the previous Paragraph do not apply to emission reductions achieved at a particular TVA System Unit that are greater than those required under this Consent Decree for that particular TVA System Unit. For purposes of this Paragraph, and except as otherwise provided in Paragraph 50, emission reductions achieved at a particular TVA System Unit are greater than those required under this Consent Decree only if they result from the actions described in Subparagraphs 116.a and/or 116.b, below:

a. controlling Shawnee Units 2, 3, 5, 6, 7, 8 and/or 9 to reduce emissions of NO_x and/or SO₂ beyond the requirements of Paragraphs 71 and 87 of this Consent Decree through a federally-enforceable emission limitation, provided that TVA is not otherwise required by the Act or the applicable SIP to control such Units to reduce emissions of NO_x and/or SO₂, or

b. for emission reductions of NO_x, except for Shawnee Unit 10, Retiring a TVA System Unit that does not have the Retire option in the Control Requirement column in the Table in Paragraph 69 except to the extent that TVA Retires such Unit as Additional MW pursuant to Paragraph 119.b, and provided that TVA is not otherwise required by the Act or the applicable SIP to Retire such Unit; and for emission reductions of SO₂, except for Shawnee Unit 10, Retiring a TVA System Unit that does not have the Retire option in the Control Requirement column in the Table in Paragraph 85 except to the extent that TVA Retires such Unit as Additional MW pursuant to Paragraph 119.b, and provided that TVA is not otherwise required by the Act or the applicable SIP to Retire such Unit.

117. Notwithstanding Paragraph 115, TVA may utilize emission reductions of NO_x, SO₂, VOCs, and PM resulting solely from Retiring up to two thousand seven hundred (2,700)

MW from the TVA System, as creditable contemporaneous emission decreases for the purpose of obtaining netting credits for these four pollutants to construct and operate no more than a total of four thousand (4,000) MW of new combined cycle (“CC”) combustion turbine electric generating units (“New CC Units”) and simple cycle (“CT”) turbine electric generating units (“New CT Units”) (collectively referred to herein as “New CC/CT Units”) to be located at the stationary source where a TVA System Unit is Retired, subject to the limitations described in this Paragraph and Subparagraphs. Of the total 4,000 MW specified herein, TVA shall not construct more than a total of two thousand (2,000) MW of CT capacity.

a. The emission reductions of NO_x, SO₂, VOC, and PM resulting from Retiring a TVA System Unit that TVA intends to utilize for netting purposes to avoid major NSR for such New CC/CT Unit must be contemporaneous and otherwise creditable within the meaning of the Act and the applicable SIP, and TVA must comply with, and is subject to, all requirements and criteria for creating contemporaneous creditable decreases as set forth in 40 C.F.R. § 52.21(b) and the applicable SIP, subject to the limitations of this Paragraph 117.

b. TVA must apply for, and obtain, minor NSR permits for the construction and operation of such New CC/CT Unit(s) from the relevant permitting authority. Such minor NSR permit must include federally-enforceable emission limitations that reflect either Best Available Control Technology (“BACT”) or Lowest Achievable Emission Rate (“LAER”), as appropriate, depending upon the attainment classification for the relevant regulated pollutants for which TVA is utilizing emission reductions as provided in this Paragraph to net out of major new source review and that will be emitted from such New CC/CT Unit(s) (including NO_x, SO₂, and PM regulated as primary criteria pollutants and NO_x, SO₂, and VOCs regulated as precursor

pollutants to the formation of the criteria pollutants PM_{2.5} and Ozone) in the area where such New CC/CT Units will be located. The relevant permitting authority where the New CC/CT Units will be constructed shall determine emission limitations for NO_x, SO₂, VOCs, PM, PM₁₀ and PM_{2.5} that reflect BACT or LAER, as appropriate, consistent with Sections 165(a)(4), 169(3), 171(3), and 173(a)(2) of the Act, 42 U.S.C. §§ 7475(a)(4), 7479(3), 7501(3), and 7503(a)(3); 40 C.F.R. §§ 52.21(b)(12) and 51.165(a)(1)(xiii); the applicable SIP; and relevant EPA guidance and/or interpretations pertaining to determining BACT and LAER, including EPA's "New Source Review Workshop Manual – Prevention of Significant Deterioration and Nonattainment Area Permitting" (Draft Oct. 1990). In no event shall the emission limitations determined by the relevant permitting authority for NO_x, SO₂, VOC, and PM_{2.5} (filterable) be any less stringent than the emission limitations set forth in Appendix B to this Consent Decree. The emission limitations set forth in Appendix B serve solely as the minimum stringency for emission limitations that will be determined by the relevant permitting authority for such New CC/CT Units and shall not be presumed to be BACT or LAER. Although the permitting authority as part of the permitting action described in this Paragraph shall not determine BACT or LAER to be less stringent than the emission limitations set forth in Appendix B, nothing in this Consent Decree (including Appendix B) shall prevent the permitting authority from establishing more stringent emission limitations than those set forth in Appendix B. For purposes of the permitting action described in this Paragraph, TVA shall not assert that this Consent Decree (including Appendix B) supports imposing a BACT or LAER emission limitation that is no more stringent than the emission limitations set forth in Appendix B.

c. For the minor NSR permitting action specified in Subparagraph 117.b, above, the relevant permitting authority shall comply with the public participation requirements in its SIP for major NSR permitting actions, including: Ala. Admin. Code r. 335-3-14-.01(7) for permitting actions in Alabama, 401 Ky. Admin. Regs. 52:100 for permitting actions in Kentucky, and Tenn. Comp. R. & Regs.1200-3-9-.01(4)(1) for permitting actions in Tennessee. TVA shall provide notice and a copy of its permit application to EPA, the States, and the Citizen Plaintiffs pursuant to Section VIII (Notices) concurrent with its permit application submission to the relevant permitting authority.

d. All emissions of NO_x and SO₂ from any New CC/CT Unit(s) where TVA has utilized netting credits in order to construct such New CC/CT Unit as provided in this Paragraph, shall be treated as emissions from a TVA System Unit solely for purposes of the System-Wide Annual Tonnage Limitations for NO_x and SO₂ and such emissions of NO_x and SO₂ from the New CC/CT Unit(s) are therefore subject to, and shall be included under, the System-Wide Annual Tonnage Limitations for NO_x and SO₂ for the relevant calendar year(s) as specified in the tables in Paragraphs 67 and 82.

e. Nothing in this Paragraph affects the Unit-specific schedule specified in the tables in Paragraphs 69 and 85 for each TVA System Unit.

118. For every emission reduction of NO_x and SO₂ that TVA utilizes as provided in Paragraph 117 to construct a New CC/CT Unit(s), such reduction shall not be available to generate Super-Compliance Allowances within the meaning of Paragraphs 78 and 94 in the calendar year in which TVA utilizes such emission reductions and all calendar years thereafter. In the next periodic progress report required pursuant to Section III.I (Periodic Reporting), TVA

shall report the amount of emission reductions of NO_x and the amount of emission reductions of SO₂ resulting from Retiring a TVA System Unit that TVA utilized as netting credits as provided in Paragraph 117 to construct a New CC/CT Unit(s).

119. Notwithstanding Paragraphs 115, TVA may utilize emission reductions of Greenhouse Gases resulting solely from Retiring a TVA System Unit as creditable contemporaneous emission decreases for the purpose of obtaining netting credits for Greenhouse Gases to construct and operate no more than a total of four thousand (4,000) MW of New CC Units to be located at the stationary source where a TVA System Unit is Retired, subject to the limitations described in this Paragraph and Subparagraphs 119.a through 119.c, below.

a. The emission reductions of Greenhouse Gases resulting from Retiring a TVA System Unit that TVA intends to utilize for netting purposes to avoid major NSR for such New CC Unit must be contemporaneous and otherwise creditable within the meaning of the Clean Air Act and the applicable SIP, and TVA must comply with, and is subject to, all requirements and criteria for creating contemporaneous creditable decreases as set forth in 40 C.F.R. § 52.21(b) and the applicable SIP, subject to the limitations of this Paragraph.

b. For every one (1) MW of New CC Unit capacity that TVA proposes to construct and operate by utilizing Greenhouse Gas emission reductions to avoid major NSR for such New CC Unit, TVA shall Retire at least one (1) MW from the TVA System that is above and beyond the 2,728.8 MW that TVA is required to Retire pursuant to Paragraphs 69 and 85 (referred to herein as “Additional MW”). TVA shall Retire such Additional MW from the TVA System either within one (1) year from the date the New CC Unit commences operation or by no later than the date set forth in the table in Paragraphs 69 and 85 for the TVA System Unit that TVA is

Retiring pursuant to this Paragraph, whichever is sooner. Emission reductions resulting from Retiring such Additional MW are subject to Paragraph 115.

c. Greenhouse Gas emission reductions resulting from Retiring a TVA System Unit may only be available to TVA for netting purposes to avoid major NSR permitting requirements for Greenhouse Gases for the construction and operation of a New CC Unit if TVA satisfies the following requirements: (i) TVA must apply for a minor NSR permit described in Paragraph 117 for the construction and operation of such New CC Unit by no later than June 30, 2012, (ii) TVA must commence construction of the New CC Unit that is the subject of such minor NSR permit application by no later than January 1, 2015, and (iii) by no later than thirty (30) days after the date TVA commences construction of such New CC Unit, TVA must provide notice pursuant to Paragraphs 72 and 88 as to which TVA System Unit(s) TVA will Retire in order for TVA to Retire the requisite Additional MW.

120. Nothing in this Consent Decree shall prevent anyone, including EPA, the States, and the Citizen Plaintiffs from submitting comments during the public comment period specified in Subparagraph 117.c regarding the emission limitations developed by the permitting authority as required by Subparagraph 117.b, including comments regarding the stringency of the emission limitations prescribed in Appendix B, or taking any other lawfully permissible action to challenge any permitting authority's determination pursuant to Subparagraph 117.b or the minor NSR permitting action for such New CC/CT Units.

121. Nothing in this Consent Decree is intended to preclude the emission reductions generated under this Consent Decree from being considered by EPA or Alabama, Kentucky, or Tennessee for the purpose of attainment demonstrations submitted pursuant to § 110 of the Act,

42 U.S.C. § 7410, or in determining impacts on NAAQS, PSD increment, or air quality related values, including visibility, in a Class I area.

F. ENVIRONMENTAL MITIGATION PROJECTS

122. TVA shall fund the Environmental Mitigation Projects (“Projects”) described in this Section. These Projects will result in a further reduction of NO_x, SO₂, and PM emissions, and additionally will have the collateral benefit of reducing Greenhouse Gases. TVA shall make payments to the States as further described below in an amount that is no less than \$60 million to fund Projects described below. As specified in Section V.F of the Compliance Agreement (Environmental Mitigation Projects), TVA shall spend no less than \$290 million to implement the projects described in Appendix C to the Compliance Agreement.

123. As set forth below, the States, by and through their respective Attorneys General or General Counsel, may each submit to TVA Projects within the categories identified for funding. The funds for these Projects will be allocated amongst the States as follows: Tennessee \$26.4 million, Kentucky \$11.2 million, North Carolina \$11.2 million and Alabama \$11.2 million. These amounts are referred to below as each State’s “allocation.”

124. Beginning in 2011, TVA shall disburse to each State the amounts requested by each State, provided that, in any year, TVA shall disburse no more than one-fifth (1/5) of the State’s allocation plus any amount by which the State received less than one-fifth (1/5) of its allocation in any prior years until all timely requests have been paid in full by TVA. If by January 31, 2017 any funds remain for which a State has not made a request, TVA shall promptly, but no later than February 29, 2017, notify the States of the remaining amount and the States shall have until March 31, 2017 to jointly provide TVA an agreed-upon method for

equitably reallocating the remaining funds to be spent on Projects identified in this Section by no later than December 31, 2017. In the event the States are unable to agree on a reallocation method, the remaining funds shall be reallocated using the same allocation percentages identified in the preceding Paragraph. TVA shall be obligated to disburse only those funds that are requested by December 31, 2017 in accordance with this Subsection. For funding requests by States commensurate with this Subsection, TVA shall pay funds as requested within thirty (30) days after being notified in writing by the State of its request.

125. The States shall use their best efforts to identify Projects that are located in TVA's power service area or the Tennessee River watershed and shall give a preference to such Projects over Projects outside these areas. However, any Project funding requested by a State that is within the categories identified in Paragraph 128, shall be funded by TVA in accordance with this Paragraph regardless of where in the State the funds will be utilized. TVA shall not have approval rights over the Projects.

126. As an alternative to the method set forth in Paragraph 124, in any year any two or more States may agree together that any State may request any amount individually up to the remainder of its allocation, provided that the total funding requested by the agreeing States for that year does not exceed the maximum TVA would otherwise be required to disburse under Paragraph 124 to the agreeing States for that year.

127. If TVA wishes to use signage, written materials, publications or events to recognize its funding of these Projects, TVA shall clearly state and identify that the funding is being provided pursuant to this Consent Decree.

128. Categories of Projects. The States agree to use money funded by TVA to implement Projects either from the following categories or for the Projects identified in Appendix C to the Compliance Agreement:

- a. Purchase and installation of photo-voltaic cells and/or solar thermal systems on buildings;
- b. Implementation of projects that reduce idling time from motor vehicles;
- c. Projects to conserve energy in new and existing buildings, mobile homes, and modular buildings, including efficient lighting, appliance efficiency improvement projects, weatherization projects, and projects that meet the ENERGY STAR and Home Performance with ENERGY STAR Building qualifications, the Leadership in Energy and Environmental Design (“LEED”) Green Building Rating System or an equivalent energy efficiency program approved by the State, or other innovative building efficiency projects approved by the State and/or appropriate review committee;
- d. Construction of wind or solar renewable energy production facilities;
- e. Installation of cogeneration units (wherein a single fuel source simultaneously produces electricity and useful heat) at industrial manufacturing plants or institutions such as universities, hospitals, prisons, and military bases;
- f. Projects that assist smart regional planning to reduce vehicle miles traveled and improve regional air quality;
- g. Installation of geothermal equipment;
- h. Funding of agricultural and forestry sector use and production of renewable energy and carbon sequestration including but not limited to:

- anaerobic digestion of poultry, swine, and dairy manure to produce methane as a fuel source to displace conventional fuel use,
- installation of wind and solar power projects at farms to power irrigation and provide heat and/or hot water for farm operations,
- production of biodiesel from high oil producing crops grown and converted on-farm for on-farm use,
- funding the procurement of land and necessary equipment to establish urban farms and support the education and institution of urban farming practices in these communities,
- purchasing land buffering national or state forests, parks, and refuges that link important ecological systems in the region to support carbon sequestration efforts,
- use of agricultural or forestry waste products in support of biofuel production,
- development of co-products and by-products of biofuel production from agricultural or forestry resources, and
- other innovative agricultural or forestry projects, including education and training, that meet environmental improvement standards and are approved by the State and/or review committee;

i. Creation of a sustainable revolving loan program or other financing mechanism for homeowners to purchase and install energy efficiency and/or conservation measures with a two (2) to ten (10) year payback period where the repayment occurs over the

defined payback period;

j. Promotion of the use of landfill gas to convert methane to electricity and/or useful heat;

k. Establishment and/or promotion of a tourist shuttle service for key tourist routes in and around the Great Smoky Mountain National Park where the shuttles are powered by electricity, fuel cell, or natural gas and/or funding of the purchase of vehicles and/or operation and maintenance of the equipment;

l. Sponsoring a wood and/or coal burning appliance changeout and retrofit campaign that replaces, retrofits, and/or upgrades inefficient, higher polluting wood/coal burning appliances (e.g., non-EPA certified wood stoves, old technology outdoor wood-fired hydronic heaters) with Energy Star qualified heat pumps, EPA Phase II qualified hydronic-heaters, EPA certified wood stoves and/or cleaner, more energy-efficient wood pellet burning appliances;

m. Implementation of projects to improve energy efficiency or renewable energy projects at water treatment and waste water treatment plants; and

n. Development, manufacture, and commercialization of innovative energy efficiency and renewable energy equipment and biofuel production.

G. CIVIL PENALTY

129. TVA shall pay a total of \$10,000,000 in civil penalties as further described in this Section.

130. Pursuant to, and as specified in, Paragraph 91 of the Consent Agreement and Final Order in In re Tennessee Valley Auth., Docket No. CAA-04-2010-1528(b), TVA shall pay the sum of \$8,000,000 in civil penalties to EPA.

131. Within thirty (30) days after the Date of Entry of this Consent Decree, TVA shall pay a total of \$2,000,000 in civil penalties to Alabama, Kentucky, and Tennessee. TVA shall pay a civil penalty to Alabama in the amount of \$500,000. Payment shall be made by check made out to the Alabama Department of Environmental Management and shall be mailed to: Office of General Counsel, Alabama Department of Environmental Management, PO Box 301463, Montgomery, Alabama, 36130-1463. TVA shall pay a civil penalty to Kentucky in the amount of \$500,000. Payment shall be made by check made out to the Kentucky State Treasurer and shall be mailed to: Jeff Cummins, Acting Director, Division of Enforcement, 300 Fair Oaks Lane, Frankfort, Kentucky, 40601. TVA shall pay a civil penalty to Tennessee in the amount of \$1,000,000. Payment shall be made by check made out to Treasurer, State of Tennessee and shall be mailed to: Tennessee Department of Environment & Conservation, Division of Fiscal Services – Consolidated Fees Section, 14th Floor L&C Tower, 401 Church Street, Nashville, Tennessee 37243 and shall reference this Consent Decree. At the time of payment, TVA shall also provide notice of its payment to EPA, the States, and Citizen Plaintiffs pursuant to Section VIII (Notices) of this Consent Decree, referencing the civil action case name and case number.

H. RESOLUTION OF CLAIMS AGAINST TVA

132. Except as expressly provided in Paragraphs 134-135 below, the States and the Citizen Plaintiffs agree that this Consent Decree resolves all civil claims arising from any modifications commenced at any TVA System Unit that could have been alleged against TVA prior to the Date of Lodging of this Consent Decree for violations of (a) Sections 165 and 173 of Parts C and D of Subchapter I of the Act, 42 U.S.C. §§ 7475 and 7503, and the implementing PSD and Nonattainment NSR provisions of the relevant SIPs, (b) Section 111 of the Act, 42

U.S.C. §§ 7411, and 40 C.F.R. §§ 60.14 and 60.15, (c) Sections 502(a) and 504(a) of the Act, 42 U.S.C. §§ 7661a(a) and 7661c(a), but only to the extent that such claims are based on TVA's failure to obtain an operating permit that reflects applicable requirements imposed under the PSD and Nonattainment NSR provisions of Subchapter I or Section 111 of the Act, and (d) the federally approved and enforceable minor NSR programs of Alabama, Kentucky, and Tennessee.

133. The States and Citizen Plaintiffs expressly do not join in giving TVA the covenant provided by EPA through Paragraph 139 of the Compliance Agreement, and reserve their rights to bring any actions against TVA for any claims arising after the Date of Lodging of this Consent Decree.

134. Notwithstanding Paragraph 133, the States and the Citizen Plaintiffs release TVA from any civil claim that may arise under the PSD and/or Nonattainment NSR provisions of the Act as described in Paragraph 132 (i.e., 42 U.S.C. §§ 7475 and 7503) and the implementing provisions of the relevant SIP, for TVA's performance of activities that this Consent Decree expressly directs TVA to undertake pursuant to Paragraphs 69 and 85 (within Alabama, which meet the criteria of Ala. Admin. Code r. 335-3-14-.04(8)(m)), except to the extent that (a) such activities would cause a significant increase in the emission of a regulated NSR pollutant other than NO_x, SO₂, and PM, in which event this release will not extend to any claim relating to such regulated NSR pollutant for which there is a significant increase or (b) a Unit is Repowered to Renewable Biomass.

135. Solely with regard to claims of the Citizen Plaintiffs, the claims of the Citizen Plaintiffs resolved by Paragraph 132 above do not include any claims based upon the regulated pollutant sulfuric acid mist ("SAM" or "H₂SO₄").

I. PERIODIC REPORTING

136. Beginning six (6) months after the Consent Decree Obligation Date, and continuing annually on April 30 each year thereafter until conditional termination of enforcement through this Consent Decree as provided in Paragraph 214, and in addition to any other express reporting requirement in this Consent Decree, TVA shall submit to EPA, the States, and the Citizen Plaintiffs a progress report in compliance with Appendix A.

137. In any periodic progress report submitted pursuant to this Section, TVA may incorporate by reference information previously submitted under its Title IV and/or Title V permitting requirements, provided that TVA attaches the Title IV and/or Title V permit report, or the relevant portion thereof, and provides a specific reference to the provisions of the Title IV and/or Title V permit report that are responsive to the information required in the periodic progress report.

138. Other express reporting requirements. In addition to the annual progress reports required pursuant to Paragraph 136 and Appendix A, TVA shall submit to EPA, the States, and the Citizen Plaintiffs the information otherwise required by this Consent Decree in the manner and by the dates set forth herein, including but not limited to, the information required by Paragraphs 72, 73, 84, 88, 89, 104, 105, 110, 111, 113, 131, 139, 148, 157, and 191 and Subparagraph 117.c.

139. In addition to the progress reports required pursuant to this Section, TVA shall provide a written report to EPA, the States, and the Citizen Plaintiffs of any violation of the requirements of this Consent Decree within fifteen (15) days of when TVA knew or should have known of any such violation. In this report, TVA shall explain the cause or causes of the

violation and all measures taken or to be taken by TVA to prevent such violations in the future and measures taken or to be taken to mitigate the environmental effects of such violation, if any.

140. Each report shall be signed by TVA's Vice President of Environmental Permitting and Compliance or his or her equivalent or designee of at least the rank of Vice President, and shall contain the following certification:

This information was prepared either by me or under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my evaluation, or the direction and my inquiry of the person(s) who manage the system, or the person(s) directly responsible for gathering the information, I hereby certify under penalty of law that, to the best of my knowledge and belief, this information is true, accurate, and complete. I understand that there are significant penalties for submitting false, inaccurate, or incomplete information to EPA.

J. REVIEW AND APPROVAL OF SUBMITTALS

141. Whenever a plan, report, or other submission required by this Consent Decree is required to be submitted to EPA for review or approval, EPA (in consultation with the States and the Citizen Plaintiffs) may approve the submittal or decline to approve it and provide written comments explaining the basis for declining such approval. Within sixty (60) days of receiving written comments from EPA, TVA shall either (a) revise the submittal consistent with the written comments and provide the revised submittal to EPA with copies to the States and the Citizen Plaintiffs pursuant to Section VIII (Notices) of this Consent Decree; or (b) submit the matter for dispute resolution pursuant to Section VIII (Dispute Resolution) of the Compliance Agreement.

142. Upon receipt of EPA's final approval of the submittal, or upon completion of dispute resolution under the Compliance Agreement and, if applicable, dispute resolution under Section VI (Dispute Resolution) of this Consent Decree as provided by Section IV (Coordination

of Oversight and Enforcement) of this Consent Decree, TVA shall implement the approved submittal in accordance with the schedule specified therein or, if subject to dispute resolution pursuant to Section VI (Dispute Resolution) of this Consent Decree as provided by Section IV (Coordination of Oversight and Enforcement) of this Consent Decree, a schedule established by the Court.

K. STIPULATED PENALTIES

143. For any failure by TVA to comply with the terms of this Consent Decree, and subject to the provisions of Sections IV (Coordination of Oversight and Enforcement), V (Force Majeure), and VI (Dispute Resolution), TVA shall pay, within thirty (30) days after receipt of written demand to TVA by a State or the Citizen Plaintiffs, the following stipulated penalties:

<u>Consent Decree Violation</u>	<u>Stipulated Penalty</u>
a. Failure to pay the civil penalty as specified in Section III.G (Civil Penalty) of this Consent Decree	\$10,000 per day
b. Failure to comply with any applicable PM Emission Rate where the violation is less than five percent (5%) in excess of the limits set forth in this Consent Decree	\$2,500 per day per violation
c. Failure to comply with any applicable PM Emission Rate where the violation is equal to or greater than five percent (5%) but less than ten percent (10%) in excess of the limits set forth in this Consent Decree	\$5,000 per day per violation
d. Failure to comply with any applicable PM Emission Rate where the violation is equal to or greater than ten percent (10%) in excess of the limits set forth in this Consent Decree	\$10,000 per day per violation

<u>Consent Decree Violation</u>	<u>Stipulated Penalty</u>
e. Failure to comply with an applicable System-Wide Annual Tonnage Limitation for SO ₂ set forth in this Consent Decree	\$5,000 per ton for the first 1,000 tons, and \$10,000 per ton for each additional ton above 1,000 tons, plus the surrender of SO ₂ Allowances in an amount equal to two (2) times the number of tons by which the limitation was exceeded.
f. Failure to Remove from Service as required by Paragraphs 69 and 85 of this Consent Decree any one or more of the following Units: the two (2) Units at the John Sevier plant that TVA indicated pursuant to Paragraphs 72 and 88 that it will Remove from Service and Colbert Units 1-5	\$10,000 per day per violation during the first thirty (30) days, \$37,500 per day per violation thereafter
g. Failure to comply with an applicable System-Wide Annual Tonnage Limitation for NO _x set forth in this Consent Decree	\$5,000 per ton for the first 1,000 tons, and \$10,000 per ton for each additional ton above 1,000 tons, plus the surrender of annual NO _x Allowances in an amount equal to two (2) times the number of tons by which the limitation was exceeded.
h. Failure to comply with the requirements for NO _x or SO ₂ in Paragraphs 71 or 87 of this Consent Decree	\$2,500 per day per violation
i. Failure to provide notice as required by Paragraphs 72, 73, 84, 88, and/or 89 of this Consent Decree	\$1,000 per day for the first fifteen (15) days, \$15,000 per day for each day thereafter
j. Failure to install, commence operation of, and/or Continuously Operate a pollution control technology as required by Paragraphs 69, 85, and/or 98 of this Consent Decree	\$10,000 per day per violation during the first thirty (30) days, \$37,500 per day per violation thereafter
k. Failure to Retire or Repower a Unit as required by Paragraphs 69 and 85 of this Consent Decree	\$10,000 per day per violation during the first thirty (30) days, \$37,500 per day per violation thereafter

<u>Consent Decree Violation</u>	<u>Stipulated Penalty</u>
l. Failure to comply with the PM optimization requirements of Paragraph 99 of this Consent Decree	\$2,500 per day per violation during the first thirty (30) days, \$7,500 per day per violation thereafter
m. Failure to install and/or operate CEMS as required under this Consent Decree	\$1,000 per day per violation
n. Failure to conduct stack tests for PM as required under this Consent Decree	\$1,000 per day per violation
o. Failure to apply for any permit required under this Consent Decree	\$1,000 per day per violation
p. Failure to timely submit, modify, and/or implement, as approved, the reports, plans, studies, analyses, protocols, and/or other submittals required by this Consent Decree	\$750 per day per violation during the first ten (10) days, \$1,000 per day per violation thereafter
q. Using, selling, banking, trading, or transferring SO ₂ Allowances except as permitted under this Consent Decree	The surrender of SO ₂ Allowances in an amount equal to four (4) times the number of SO ₂ Allowances used, sold, banked, traded, or transferred in violation of this Consent Decree
r. Failure to surrender SO ₂ Allowances as required under this Consent Decree	(a) \$37,500 per day plus (b) \$1,000 per allowance not surrendered
s. Using, selling, banking, trading, or transferring NO _x Allowances except as permitted under this Consent Decree	The surrender of NO _x Allowances in an amount equal to four (4) times the number of NO _x Allowances used, sold, banked, traded, or transferred in violation of this Consent Decree
t. Failure to surrender NO _x Allowances as required under this Consent Decree	(a) \$37,500 per day plus (b) \$1,000 per allowance not surrendered
u. Using emission reductions from Retiring a TVA System	\$2,500 per day per violation during the first 30 days, \$10,000

<u>Consent Decree Violation</u>	<u>Stipulated Penalty</u>
Unit except as provided in Paragraphs 116 and 117 of this Consent Decree	per day per violation thereafter
v. Failing to comply with the requirements of Paragraph 117 of this Consent Decree if TVA uses emission reductions from Retiring a TVA System Unit to construct a New CC/CT Unit	\$2,500 per day per violation during the first thirty (30) days, \$10,000 per day per violation thereafter
w. Failing to comply with the requirements of Paragraph 119 of this Consent Decree if TVA uses emission reductions in Greenhouse Gases to construct a New CC Unit	\$2,500 per day per violation during the first thirty (30) days, \$10,000 per day per violation thereafter
x. Failure to fund the Environmental Mitigation Projects in compliance with Section III.F (Environmental Mitigation Projects) of this Consent Decree	\$5,000 per day for the first thirty (30) days, \$10,000 per day for each day thereafter
y. Any other violation of this Consent Decree	\$1,000 per day per violation

144. All stipulated penalties shall begin to accrue on the day after the performance is due or on the day a violation occurs, whichever is applicable, and shall continue to accrue until performance is satisfactorily completed or until the violation ceases, whichever is applicable. Nothing in this Consent Decree shall prevent the simultaneous accrual of separate stipulated penalties for separate violations of this Consent Decree.

145. TVA shall pay all stipulated penalties within thirty (30) days of receipt of written demand to TVA from any or all Plaintiffs (referred to herein as the “demanding Party”), and shall continue to make such payments every thirty (30) days thereafter until the violation(s) no longer continues, unless TVA elects within fifteen (15) business days of receipt of written demand to TVA from the demanding Party to dispute the accrual of stipulated penalties in accordance with the provisions in Section VI (Dispute Resolution) of this Consent Decree, subject to Section IV (Coordination of Oversight and Enforcement) of this Consent Decree.

146. Stipulated penalties shall continue to accrue as provided in accordance with Paragraph 144 during any dispute, with interest on accrued stipulated penalties payable and calculated at the rate established by the Secretary of the Treasury, pursuant to 28 U.S.C. § 1961, but need not be paid until the following:

a. If the dispute is resolved by agreement, or by a written summary of the demanding Party that is not challenged within the time permitted pursuant to Section VI (Dispute Resolution) of this Consent Decree and that is not submitted to the Court for resolution, accrued stipulated penalties agreed or determined to be owing, together with accrued interest, shall be paid within thirty (30) days of the effective date of the agreement;

b. If the dispute is submitted to the Court and the demanding Party prevails in whole or in part, TVA shall pay, within sixty (60) days of receipt of the Court's decision or order, all accrued stipulated penalties determined to be owing, together with interest accrued on such penalties determined by the Court to be owing, except as provided in Subparagraph c, below;

c. If the Court's decision is appealed by either TVA or the demanding Party, TVA shall, within fifteen (15) days of receipt of the final appellate court decision, pay all accrued stipulated penalties determined to be owing, together with interest accrued on such stipulated penalties determined to be owing by the appellate court.

147. Notwithstanding any other provision of this Consent Decree, the accrued stipulated penalties agreed to by the demanding Party and TVA, or determined through dispute resolution, to be owing may be less than the stipulated penalty amounts set forth in Paragraph 143.

148. Monetary stipulated penalties due and owing to Alabama, Kentucky, or Tennessee shall be paid in the manner specified in Paragraph 131. Monetary stipulated penalties due and owing as a result of a demand from North Carolina or the Citizen Plaintiffs shall be paid as specified in Section 304(g)(1) of the Act, 42 U.S.C. § 7604(g)(1). At the time of payment, TVA shall provide notice of payment to EPA, the States, and the Citizen Plaintiffs, referencing the relevant case names and case numbers in accordance with Section VIII (Notices) of this Consent Decree. All SO₂ and NO_x Allowance surrender stipulated penalties shall comply with the allowance surrender procedures set forth in Paragraphs 80 (for NO_x) and 96 (for SO₂).

149. The stipulated penalties provided for in this Consent Decree shall be in addition to any other rights, remedies, or sanctions available to the demanding Party by reason of TVA's failure to comply with any requirement of this Consent Decree or applicable law, except that for any violation of the Act for which this Consent Decree provides for payment of a stipulated penalty, TVA shall be allowed a credit for stipulated penalties paid against any statutory penalties also imposed for such violation.

L. PERMITS

150. Unless expressly stated otherwise in this Consent Decree, in any instance where otherwise applicable law or this Consent Decree requires TVA to secure a permit to authorize construction or operation of any device, including all construction and operating permits required under state law, TVA shall make such application in a timely manner.

151. Notwithstanding Paragraph 150, nothing in this Consent Decree shall be construed to require TVA to apply for or obtain a PSD or Nonattainment NSR permit for

physical changes in, or changes in the method of operation of, any TVA System Unit that would give rise to claims resolved by Paragraphs 132 or 134 of this Consent Decree.

152. When permits or permit applications are required pursuant to Paragraphs 50, 150, 154, 155, 156, and 158, TVA shall complete and submit applications for such permits to Alabama, Kentucky, and Tennessee, whichever is appropriate, to allow sufficient time for all legally required processing and review of the permit request, including requests for additional information by such States. Any failure by TVA to submit a timely permit application for TVA System Units shall bar any use by TVA of Section V (Force Majeure) of this Consent Decree, where a Force Majeure claim is based on permitting delays.

153. Notwithstanding the reference to Title V permits in this Consent Decree, the enforcement of such permits shall be in accordance with their own terms and the Act and its implementing regulations, including the federally approved Alabama, Kentucky, and Tennessee Title V programs. The Title V permit shall not be enforceable under this Consent Decree, although any term or limit established by or under this Consent Decree shall be enforceable under this Consent Decree regardless of whether such term has or will become part of a Title V permit, subject to the terms of Section XVI (Conditional Termination of Enforcement Under Decree) of this Consent Decree.

154. Within three (3) years from the Consent Decree Obligation Date, unless otherwise specified in this Paragraph, and in accordance with federal and/or state requirements for modifying or renewing a Title V permit, TVA shall amend any applicable Title V permit application, or apply for amendments to its Title V permits, to include a schedule for all system-wide, Unit-specific, and plant-specific performance, operational, maintenance, and control

technology requirements established by this Consent Decree including, but not limited to, emission rates, installation and/or Continuous Operation of SCRs and/or FGDs, tonnage limitations, and the requirements pertaining to the surrender of NO_x and SO₂ Allowances. For Units in Paragraphs 69 and 85 with two or more methods specified in the Control Requirement column and that do not have a Remove from Service option, TVA shall apply to modify, renew, or obtain any applicable Title V permit as required by this Paragraph within twelve (12) months of making an election as to the method TVA will employ for the Unit. For Units with the Remove from Service option in the Control Requirement column in Paragraphs 69 or 85, TVA shall apply to modify, renew, or obtain any applicable Title V permit as required by this Paragraph within twelve (12) months of electing to either install and operate FGD(s) and SCR(s), Repower to Renewable Biomass, or Retire.

155. By no later than one (1) year after the date specified in Paragraphs 69 and 85 for the Control Requirement for each Unit, TVA shall (a) apply to include the requirements and limitations enumerated in this Consent Decree into federally-enforceable permits such that the requirements and limitations of this Consent Decree become and remain “applicable requirements” as that term is defined in 40 C.F.R. § 70.2 and/or (b) request site-specific amendments to the applicable SIPs for Alabama and Tennessee (but not for Kentucky) to reflect all new requirements applicable to each Unit and at each plant in the TVA System. For purposes of this Consent Decree, the federally enforceable permit(s) issued by Kentucky must be issued by Kentucky under its authority under its SIP to issue permits and not solely under Kentucky’s authority to issue permits pursuant to its Title V program.

156. Prior to conditional termination of enforcement through this Consent Decree, TVA shall apply for and obtain enforceable provisions in its Title V permits for the TVA System that incorporate (a) any Unit-specific requirements and limitations of this Consent Decree, such as performance, operational, maintenance, and control technology requirements, (b) the requirement to Surrender NO_x and SO₂ Allowances, and (c) the System-Wide Annual Tonnage Limitations.

157. TVA shall provide EPA, the States, and the Citizen Plaintiffs with a copy of each application for any permit required pursuant to this Section, including any federally enforceable permit or Title V permit or modification, and any site-specific SIP amendment, as well as a copy of any permit or SIP amendment proposed as a result of such application, to allow for timely participation in any public comment opportunity.

158. In the event that EPA promulgates a final rule containing revisions to the Effluent Limitations Guidelines for the Steam Electric Power Generating point source category, by no later than twelve (12) months after the date EPA publishes the final rule in the Federal Register (unless additional time is required for studies or data collection mandated by the final rule), TVA shall submit applications to the relevant permitting authority to obtain National Pollutant Discharge Elimination System (“NPDES”) permit renewals (in the case of expiring permits); permit renewal modifications (in the case of already submitted permit renewal applications); or permit modification requests (in the case of existing, non-expired permits) to include legally-applicable requirements of the revised Effluent Limitations Guidelines relating to wastewaters from Flue Gas Desulfurization Systems in each of its NPDES permits for the TVA System Units that are subject to the revised Effluent Limitation Guidelines and are equipped with a Flue Gas

Desulfurization System. TVA shall include all the relevant information necessary for the permitting authority to expeditiously incorporate the Effluent Limitation Guideline requirements into each of TVA's NPDES permits, and shall promptly respond to any additional requests for information from the permitting authority.

159. If TVA proposes to sell or transfer to an entity unrelated to TVA ("Third Party") part or all of TVA's operational or ownership interest in a TVA System Unit, TVA shall comply with the requirements of Section IX (Sales or Transfers of Operational or Ownership Interests) with regard to that Unit prior to any such sale or transfer.

IV. COORDINATION OF OVERSIGHT AND ENFORCEMENT

160. Oversight and Enforcement of Parallel Provisions of the Compliance Agreement and this Consent Decree.

a. EPA and TVA in the Compliance Agreement, and TVA, the States, and the Citizen Plaintiffs in this Consent Decree, are entering into separate agreements with Parallel Provisions to resolve TVA's alleged violations of the Act. This Section of the Consent Decree establishes the manner in which enforcement and oversight (including resolution of disputes) pertaining to Parallel Provisions will occur.

b. Except where there is an unreasonable delay in resolving a dispute pursuant to Section VIII (Dispute Resolution) of the Compliance Agreement, a State or the Citizen Plaintiffs shall not invoke Section VI (Dispute Resolution) of this Consent Decree pertaining to a Parallel Provision until TVA has resolved any disputes between it and EPA pertaining to such Parallel Provision pursuant to Section VIII (Dispute Resolution) of the Compliance Agreement either through an agreement reached with EPA pursuant to Section VIII of the Compliance Agreement

or a decision issued by the Region 4 Air Director pursuant to Paragraph 183 of the Compliance Agreement. TVA shall not seek judicial review in any court of any agreement reached with EPA pursuant to Section VIII (Dispute Resolution) of the Compliance Agreement or any decision issued by the Region 4 Air Director pursuant to Paragraph 183 of the Compliance Agreement. Although neither the Compliance Agreement nor any determinations that EPA makes under it are before this Court for judicial review, and are not subject to this Court's judicial review now or in the future, this Court should accord appropriate weight to EPA's determinations made either pursuant to Section VIII (Dispute Resolution) of the Compliance Agreement or as provided in Paragraphs 162, 163, and 164, below. For example, where EPA's determination made either pursuant to Section VIII (Dispute Resolution) of the Compliance Agreement or as provided in Paragraphs 162, 163, or 164, below, relies on EPA's technical expertise, determinations, or interpretation of statutes EPA administers and/or of regulations EPA promulgated (among other circumstances), such determination should be entitled to judicial deference consistent with prevailing law regarding judicial deference to such agency technical expertise, determinations, or interpretation of statutes or regulations.

c. Nothing in this Consent Decree shall be construed to affect the authority of EPA or a State under applicable federal statutes or regulations and applicable state statutes and regulations or any other applicable provisions to seek appropriate relief to address an imminent and substantial endangerment to public health or welfare, or the environment.

161. Availability of Dispute Resolution under Section VI of this Consent Decree.

a. If there has been a resolution of a dispute pertaining to a Parallel Provision pursuant to Section VIII (Dispute Resolution) of the Compliance Agreement, a State or the

Citizen Plaintiffs may only invoke the dispute resolution procedures of Section VI (Dispute Resolution) of this Consent Decree pertaining to that resolution solely to seek a resolution that is more stringent than the resolution reached through Section VIII (Dispute Resolution) of the Compliance Agreement.

b. TVA may invoke Section VI (Dispute Resolution) of this Consent Decree regarding a Parallel Provision only (i) if a State or the Citizen Plaintiffs are acting in contravention to Section IV (Coordination of Oversight and Enforcement) of this Consent Decree or (ii) as necessary to address any conflict between this Consent Decree and the Compliance Agreement due to a change to the Compliance Agreement that is made subsequent to the Effective Date of the Compliance Agreement as that term is defined therein.

162. Disputes Involving Parallel Provisions Resolved Through Section VIII of the Compliance Agreement.

a. If a State or the Citizen Plaintiffs invoke Section VI (Dispute Resolution) of this Consent Decree to seek a resolution of a dispute under this Consent Decree pertaining to a Parallel Provision that is more stringent than the resolution reached through Section VIII (Dispute Resolution) of the Compliance Agreement, the Court should accord appropriate weight to the resolution of the dispute by EPA under Section VIII of the Compliance Agreement as described in Subparagraph 160.b, above.

b. TVA shall be bound by and hereby stipulates to be bound by any agreement reached with EPA pursuant to Section VIII (Dispute Resolution) of the Compliance Agreement, any decision issued by the Region 4 Air Director pursuant to Paragraph 183 of the Compliance Agreement, and/or any written determination pursuant to Subparagraph 163 and/or 164, below,

and it shall not seek relief from this Court that is less stringent than, or is otherwise in any way inconsistent with, any agreement reached with EPA pursuant to Section VIII (Dispute Resolution) of the Compliance Agreement, any decision issued by the Region 4 Air Director pursuant to Paragraph 183 of the Compliance Agreement, and/or any written determination pursuant to Paragraphs 163 and/or 164 below. TVA may inform the Court of the position that it presented to EPA during the Dispute Resolution process; provided that TVA shall not argue to this Court that any agreement reached with EPA pursuant to Section VIII (Dispute Resolution) of the Compliance Agreement or any decision issued by the Region 4 Air Director, or the basis for such decision, was wrong (either technically, legally, or factually) or otherwise in error.

163. Process for Requesting that the Court Exercise Jurisdiction. A Party shall provide notice as further described in this Paragraph before it can request that the Court exercise jurisdiction (including under Sections V (Force Majeure), VI (Dispute Resolution), or XI (Retention of Jurisdiction)), regarding implementation of this Consent Decree. The Party seeking to request that the Court exercise jurisdiction shall notify the other Parties to this Consent Decree and EPA of such intent pursuant to Section VIII (Notices) of this Consent Decree and shall include a description of the issue in such notice.

a. If the issue involves a Parallel Provision that has not already been the subject of dispute and resolution pursuant to Section VIII (Dispute Resolution) of the Compliance Agreement, EPA may provide the Parties with a written determination of EPA's view regarding the issue within forty-five (45) days following the notice. No action before this Court may be taken by any Party (i) for at least fifteen (15) business days following EPA's written determination or, (ii) if EPA does not make such written determination, then for at least forty-

five (45) days following the notice described previously in this Paragraph. If TVA does not invoke Section VIII (Dispute Resolution) of the Compliance Agreement within fifteen (15) business days following receipt of EPA's written determination, then TVA shall be bound by EPA's written determination in any action before this Court regarding such issue, as described in Subparagraph 162.b, above. TVA shall furnish to the Court EPA's written determination under this Paragraph no later than the filing of its next brief, motion, or other communication with the Court regarding the issue. The Court should accord appropriate weight to EPA's written determination as described in Subparagraph 160.b, above. If TVA does invoke Section VIII (Dispute Resolution) of the Compliance Agreement within fifteen (15) business days of receipt of EPA's written determination, the Parties may not proceed in this Court until EPA and TVA have resolved such dispute pursuant to Section VIII (Dispute Resolution) of the Compliance Agreement.

b. If the issue involves a Parallel Provision that has already been the subject of dispute and resolution pursuant to Section VIII (Dispute Resolution) of the Compliance Agreement, then the Party requesting that the Court exercise jurisdiction shall provide such notice at least fifteen (15) business days before requesting that the Court exercise jurisdiction and must furnish a copy of TVA's written objection as provided in Paragraph 181 of the Compliance Agreement and the final resolution rendered pursuant to either Paragraph 182 or Paragraph 183 of Section VIII (Dispute Resolution) of the Compliance Agreement to the Court no later than the filing of its next brief, motion, or other communication with the Court regarding that issue. If EPA provides the Party with a written determination of its view regarding the issue to be presented to the Court, such Party shall furnish a copy of EPA's written determination to the

Court with its next filing. The Court should accord appropriate weight to EPA's written determination as described in Subparagraph 160.b, above.

c. If the issue involves a Parallel Provision that is the subject of a dispute pursuant to Section VIII (Dispute Resolution) of the Compliance Agreement but there is an unreasonable delay in resolving the dispute under Section VIII (Dispute Resolution) of the Compliance Agreement, then the Parties may proceed in this Court prior to a resolution by EPA and TVA of such dispute. The Party requesting that the Court exercise jurisdiction shall provide such notice at least fifteen (15) business days before requesting that the Court exercise jurisdiction. No action before this Court may be taken by any Party during this 15 business day period. If the Region 4 Air Director issues a decision pursuant to Paragraph 183 of the Compliance Agreement during this 15 business day period, then TVA shall be bound by such decision in any action before this Court regarding such issue, as described in Subparagraph 162.b, above, and the Party requesting that the Court exercise jurisdiction may only seek a more stringent resolution, as described in Paragraph 161.a. Such Party must furnish a copy of the Region 4 Air Director's decision, if any, to the Court no later than the filing of its next brief, motion, or other communication with the Court regarding the issue. The Court should accord appropriate weight to the Region 4 Air Director's decision as described in Subparagraph 160.b, above.

164. Assessment and Collection of Stipulated Penalties.

a. TVA shall not be required to pay additional stipulated penalties under the Consent Decree for a violation of the same Parallel Provision of the Compliance Agreement if TVA has paid stipulated penalties pursuant to a demand made by EPA (in consultation with the States and the Citizen Plaintiffs). Notwithstanding the preceding sentence, TVA may be required to pay

additional stipulated penalties under this Consent Decree for a violation of the same Parallel Provision of the Compliance Agreement if the stipulated penalty that EPA demanded (and that TVA paid) is inappropriate in light of the circumstances, taking into account the appropriate weight to be accorded to EPA's written determination as described in Subparagraph 160.b, above. Nothing in this Paragraph shall prevent EPA and the States of Alabama, Kentucky, and Tennessee from sharing the payment of a stipulated penalty provided that the violation giving rise to payment of a stipulated penalty is a violation of a Parallel Provision of this Consent Decree. Where a violation of a Parallel Provision is facility specific, EPA has agreed to split the collected stipulated penalty evenly with the State where such facility is located. Where a violation of a Parallel Provision is not facility specific, EPA has agreed to split the collected stipulated penalty with the States of Alabama, Kentucky, and Tennessee as follows: 50% to EPA and 50% allocated equally among the States of Alabama, Kentucky, and Tennessee.

b. If a State or the Citizen Plaintiffs believes there has been a violation of a Parallel Provision under this Consent Decree but EPA has not taken action under the Compliance Agreement to assess stipulated penalties for such a violation through the Compliance Agreement, a State or the Citizen Plaintiffs may demand the payment of stipulated penalties pursuant to Section III.K (Stipulated Penalties) of this Consent Decree only after it has first consulted with EPA regarding the alleged violation as further described in this subparagraph. The State or the Citizen Plaintiffs shall provide EPA with a sixty (60) day period to evaluate the alleged violation and to provide a written determination as to whether it believes there is a violation of the Parallel Provision of the Compliance Agreement. The Court should accord appropriate weight to EPA's written determination as described in Subparagraph 160.b, above.

165. Enforcement of Parallel Provisions under this Consent Decree. Any or all Plaintiffs may demand the payment of stipulated penalties or seek other appropriate relief as allowed by Section XI (Retention of Jurisdiction) or any other provision of this Consent Decree for TVA's failure to comply with the terms of a Parallel Provision of this Consent Decree if (i) after consulting with EPA as required in Paragraph 164.b, EPA does not take action under the Compliance Agreement to assess stipulated penalties for such alleged violation, or, as described in Paragraph 164.a., EPA assesses a stipulated penalty that is inappropriate in light of the circumstances, (ii) TVA has failed to comply with any agreement reached with EPA pursuant to Section VIII (Dispute Resolution) of the Compliance Agreement or any decision issued by the Region 4 Air Director pursuant to Paragraph 183 of the Compliance Agreement, or (iii) TVA remains in non-compliance despite assessment of stipulated penalties.

V. FORCE MAJEURE

166. For purposes of this Consent Decree, a "Force Majeure Event" shall mean an event that has been or will be caused by circumstances beyond the control of TVA, its contractors, or any entity controlled by TVA that delays compliance with any provision of this Consent Decree or otherwise causes a violation of any provision of this Consent Decree despite TVA's best efforts to fulfill the obligation. "Best efforts to fulfill the obligation" include using the best efforts to anticipate any potential Force Majeure Event and to address the effects of any such event (a) as it is occurring and (b) after it has occurred, such that the delay and any adverse environmental effect of the violation is minimized to the greatest extent possible.

167. Notice of Force Majeure Events. If any event occurs or has occurred that may delay compliance with or otherwise cause a violation of any obligation under this Consent

Decree, as to which TVA intends to assert a claim of Force Majeure, TVA shall notify EPA, the States, and the Citizen Plaintiffs in writing as soon as practicable, but in no event later than twenty-one (21) business days following the date TVA first knew, or by the exercise of due diligence should have known, that the event caused or may cause such delay or violation. In this notice, TVA shall reference this Paragraph of this Consent Decree and describe the anticipated length of time that the delay or violation may persist, the cause or causes of the delay or violation, all measures taken or to be taken by TVA to prevent or minimize the delay and any adverse environmental effect of the violation, the schedule by which TVA proposes to implement those measures, and TVA's rationale for attributing a delay or violation to a Force Majeure Event. TVA shall adopt all reasonable measures to avoid or minimize such delays or violations. TVA shall be deemed to know of any circumstance which TVA, its contractors, or any entity controlled by TVA knew or should have known.

168. Failure to Give Notice. If TVA fails to comply with the notice requirements of this Section for any Parallel Provision, EPA (in consultation with the States and the Citizen Plaintiffs) may void TVA's claim for Force Majeure as to the specific event for which TVA has failed to comply with such notice requirement. If TVA fails to comply with the notice requirements of this Section for any provision that is not a Parallel Provision of this Consent Decree ("Non-Parallel Provision") the States and the Citizen Plaintiffs may void TVA's claim for Force Majeure as to the specific event for which TVA has failed to comply with such notice requirement.

169. Response. EPA (for any Parallel Provision, and as required by the Compliance Agreement) and the States and the Citizen Plaintiffs (for any Non-Parallel Provision) shall notify

TVA in writing regarding TVA's claim of Force Majeure as soon as reasonably practicable. For any Parallel Provisions, if EPA, after consultation with the States and the Citizen Plaintiffs, agrees that a delay in performance has been or will be caused by a Force Majeure Event, the Plaintiffs and TVA under this Consent Decree (and EPA and TVA under the Compliance Agreement), shall stipulate to an extension of deadline(s) for performance of the affected compliance requirement(s) by a period equal to the delay actually caused by the event. In such circumstances, an appropriate modification shall be made pursuant to Section XII (Modification) of this Consent Decree. For any Non-Parallel Provision, if the States and the Citizen Plaintiffs agree that a delay in performance has been or will be caused by a Force Majeure Event, the Plaintiffs and TVA shall stipulate to an extension of deadline(s) for performance of the affected compliance requirement(s) by a period equal to the delay actually caused by the event. In such circumstances, an appropriate modification shall be made pursuant to Section XII (Modification) of this Consent Decree.

170. Disagreement. For any Parallel Provision, if EPA, after consultation with the States and the Citizen Plaintiffs, does not accept TVA's claim of Force Majeure, or if EPA and TVA cannot agree on the length of the delay actually caused by the Force Majeure Event, the matter shall be resolved in accordance with Section VIII (Dispute Resolution) of the Compliance Agreement and as provided in Section IV (Coordination of Oversight and Enforcement) of this Consent Decree. For any Parallel Provision, a Plaintiff may seek a resolution that is more stringent than the resolution reached through Section VIII (Dispute Resolution) of the Compliance Agreement as provided in Paragraph 161.a or if there is an unreasonable delay in resolving a dispute pursuant to Section VIII (Dispute Resolution) of the Compliance Agreement,

the Plaintiffs may pursue dispute resolution or other available remedies, subject to the limitations in Section IV (Coordination of Oversight and Enforcement) of this Consent Decree. For any Non-Parallel Provision, if the States and the Citizen Plaintiffs do not accept TVA's claim of Force Majeure, or if the Parties cannot agree on the length of the delay actually caused by the Force Majeure Event, the matter shall be resolved in accordance with Section VI (Dispute Resolution) of this Consent Decree.

171. Burden of Proof. In any dispute regarding Force Majeure, TVA shall bear the burden of proving that any delay in performance or any other violation of any requirement of this Consent Decree was caused by or will be caused by a Force Majeure Event. TVA shall also bear the burden of proving that TVA gave the notice required by this Section and the burden of proving the anticipated duration and extent of any delay(s) attributable to a Force Majeure Event. An extension of one compliance date based on a particular event may, but will not necessarily, result in an extension of a subsequent compliance date.

172. Events Excluded. Unanticipated or increased costs or expenses associated with the performance of TVA's obligations under this Consent Decree shall not constitute a Force Majeure Event.

173. Potential Force Majeure Events. Depending upon the circumstances related to an event and TVA's response to such circumstances, the kinds of events listed below are among those that could qualify as Force Majeure Events within the meaning of this Section: construction, labor, or equipment delays; Malfunction of a Unit or emission control device; unanticipated coal supply or pollution control reagent delivery interruptions; acts of God; acts of war or terrorism; and, other than by TVA, orders by a government official, government agency,

other regulatory authority, or a regional transmission organization, acting under and authorized by applicable law, that directs TVA to supply electricity in response to a system-wide (state-wide or regional) emergency. Depending upon the circumstances and TVA's response to such circumstances, failure of a permitting authority to issue a necessary permit in a timely fashion may constitute a Force Majeure Event where the failure of the permitting authority to act is beyond the control of TVA and TVA has taken all steps available to it to obtain the necessary permit, including, but not limited to submitting a complete permit application; responding to requests for additional information by the permitting authority in a timely fashion; and accepting lawful permit terms and conditions after expeditiously exhausting any legal rights to appeal terms and conditions imposed by the permitting authority.

174. As part of the resolution of any matter submitted to this Court under Section VI (Dispute Resolution) of this Consent Decree, subject to Section IV (Coordination of Oversight and Enforcement) of this Consent Decree, regarding a claim of Force Majeure, the Plaintiffs and TVA by agreement, or this Court by order, may in appropriate circumstances extend or modify the schedule for completion of work under this Consent Decree to account for the delay in the work that occurred as a result of any delay agreed to by the Plaintiffs or as approved by the Court. TVA shall be liable for stipulated penalties if applicable for its failure thereafter to complete the work in accordance with the extended or modified schedule (provided that TVA shall not be precluded from making a further claim of Force Majeure with regard to meeting any such extended or modified schedule).

VI. DISPUTE RESOLUTION

175. Subject to, and only as allowed by, Section IV (Coordination of Oversight and Enforcement), the dispute resolution procedures provided by this Section shall be available to resolve all disputes arising under this Consent Decree. The procedures provided in Paragraphs 176-183 are limited by the provisions set forth in Section IV (Coordination of Oversight and Enforcement) of this Consent Decree.

176. The dispute resolution procedure provided herein may be invoked only by one Party giving written notice to the other Parties (and EPA) advising of a dispute pursuant to this Section. The notice shall describe the nature of the dispute and shall state the noticing Party's position with regard to such dispute. The Parties receiving such a notice shall acknowledge receipt of the notice, and the Parties in dispute (and EPA) shall expeditiously schedule a meeting to discuss the dispute informally not later than fourteen (14) days following receipt of such notice.

177. Disputes submitted to dispute resolution under this Section shall, in the first instance, be the subject of informal negotiations among the disputing Parties (and EPA). Such period of informal negotiations shall not extend beyond thirty (30) days from the date of the first meeting among the disputing Parties' representatives unless they agree in writing to shorten or extend this period. During the informal negotiations period, the disputing Parties may also submit their dispute to a mutually agreed upon alternative dispute resolution ("ADR") forum if

the Parties agree that the ADR activities can be completed within the 30-day informal negotiations period (or such longer period as the Parties may agree to in writing).

178. If the disputing Parties are unable to reach agreement during the informal negotiation period, the relevant disputing Plaintiff (e.g., the Plaintiff that initiated dispute resolution pursuant to this Section through the notice described in Paragraph 176) shall provide TVA (and EPA) with a written summary of its position regarding the dispute. The written position provided by the disputing Plaintiff shall be considered binding unless, within forty-five (45) days thereafter, TVA seeks judicial resolution of the dispute by filing a petition with this Court. The disputing Plaintiff, or any other Party, may respond to the petition within forty-five (45) days of filing. The Parties shall provide to EPA copies of all filings with the Court.

179. In addition to any other methods set forth in this Section for altering time periods, the time periods set out in this Section may be shortened or extended upon motion to the Court of one of the Parties to the dispute, explaining the Party's basis for seeking such a scheduling modification.

180. As part of the resolution of any dispute under this Section, in appropriate circumstances the disputing Parties may agree, or this Court may order, an extension or modification of the schedule for the completion of the activities required under this Consent Decree to account for the delay that occurred as a result of dispute resolution. TVA shall be liable for stipulated penalties for its failure thereafter to complete the work in accordance with the extended or modified schedule, provided that TVA shall not be precluded from asserting that a Force Majeure Event has caused or may cause a delay in complying with the extended or modified schedule.

181. Subject only to the exceptions set forth in Paragraph 182, the dispute resolution process set forth in this Section is mandatory once a notice is served under Paragraph 176. If notice is served under Paragraph 176, no Party may seek resolution of a dispute by the Court without first completing dispute resolution pursuant to Paragraphs 176-178. The dispute resolution process pursuant to Paragraphs 176-178 may be conducted concurrently with the process specified in Paragraph 163.

182. Notwithstanding Paragraph 181, if the matter has already been subject to dispute and resolution pursuant to Section VIII (Dispute Resolution) of the Compliance Agreement then no Party shall be required to engage in dispute resolution pursuant to Paragraphs 176-178 and a Party may seek resolution of a dispute by the Court without first engaging in dispute resolution pursuant to Paragraphs 176-178.

183. The Court shall decide all disputes pursuant to applicable principles of law for resolving such dispute. In their initial filings with the Court under Paragraph 178, the disputing Parties shall state their respective positions as to the applicable standard of law for resolving the particular dispute.

VII. INFORMATION COLLECTION AND RETENTION

184. Any authorized representative of Alabama, Kentucky, or Tennessee, including their attorneys, contractors, and consultants, upon presentation of credentials, shall have a right of entry upon the premises of any facility in the TVA System at any reasonable time for the purpose of:

- a. monitoring the progress of activities required under this Consent Decree;

- b. verifying any data or information submitted in accordance with the terms of this Consent Decree;
- c. obtaining samples and, upon request, splits of any samples taken by TVA or its representatives, contractors, or consultants; and
- d. assessing TVA's compliance with this Consent Decree.

185. TVA shall retain, and instruct its contractors and agents to preserve, all non-identical copies of all records and documents (including records and documents in electronic form) in its or its contractors' or agents' possession and/or control, and that directly relate to TVA's performance of its obligations under this Consent Decree until six (6) years following completion of performance of such obligations. This record retention requirement shall apply regardless of any TVA document retention policy to the contrary.

186. All information and documents submitted by TVA pursuant to this Consent Decree shall be subject to any requests under applicable law providing public disclosure of documents unless (a) the information and documents are subject to legal privileges or protection or (b) TVA claims and substantiates in accordance with relevant federal or state law that the information and documents contain confidential business information. The Citizen Plaintiffs shall appropriately protect all information that is either subject to legal privileges or protection or that TVA substantiates as confidential business information.

187. Nothing in this Consent Decree shall limit the authority of EPA or Alabama, Kentucky, and Tennessee to conduct tests and inspections at TVA's facilities under Section 114 of the Act, 42 U.S.C. § 7414, or any other applicable federal or state laws, regulations or permits.

VIII. NOTICES

188. Unless otherwise provided herein, whenever notifications, submissions, and/or communications are required by this Consent Decree, they shall be made in writing and addressed as follows:

As to EPA:

(If by first class mail)
Director, Air Enforcement Division
Office of Enforcement and Compliance Assurance
U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, NW
Mail Code 2242A
Washington, DC 20460

or

(If by commercial delivery service)
Director, Air Enforcement Division
Office of Enforcement and Compliance Assurance
U.S. Environmental Protection Agency
Ariel Rios South Building, Room 1119
1200 Pennsylvania Avenue, NW
Washington, DC 20004

and

Director
Air, Pesticides and Toxics Management Division
U.S. EPA- Region 4
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, GA 30303-8960

As to Alabama:

Chief, Air Division
Alabama Department of Environmental Management
1400 Coliseum Boulevard
Montgomery, AL 36110-2059

As to Kentucky:

Director
Division for Air Quality
Energy and Environment Cabinet
200 Fair Oaks Lane
Frankfort, KY 40601

As to North Carolina:

Director
NCDENR, Division of Air Quality
1641 Mail Service Center
Raleigh, NC 27699-1641

Senior Deputy Attorney General
Environmental Division
North Carolina Department of Justice
P.O. Box 629 (114 W. Edenton Street, Room 306A)
Raleigh, NC 27602-0629

As to Tennessee:

Division Director/Technical Secretary
Tennessee Department of Environment & Conservation
Air Pollution Control Division
401 Church Street
L&C Annex, 9th Floor
Nashville, TN 37243-1548

As to the Citizen Plaintiffs:

George E. Hays
Attorney at Law
236 West Portal Avenue #110
San Francisco, CA 94127
Office: 415/566-5414 Fax: 415/731-1609
e-mail: georgehays@mindspring.com

William J. Moore, III
1648 Osceola Street
Jacksonville, FL 32204

(904) 685-2172 (phone)
(904) 685-2175 (fax)
wmoore@wjmlaw.net

As to TVA:

Vice President, Environmental Permitting and Compliance
Tennessee Valley Authority
1101 Market Street
Chattanooga, TN 37402

and

Assistant General Counsel, Environment
Tennessee Valley Authority
400 West Summit Hill Drive
Knoxville, TN 37902

189. All notifications, communications or submissions made pursuant to this Section shall be sent either by (a) overnight mail or overnight delivery service, or (b) certified or registered mail, return receipt requested. In addition to the foregoing, notification may also be made through electronic mail. All notifications, communications, and transmissions that are properly addressed and prepaid and are (a) sent by overnight, certified or registered mail shall be deemed submitted on the date they are postmarked, or (b) sent by overnight delivery service shall be deemed submitted on the date they are delivered to the delivery service.

190. Any Party (and EPA) may change either the notice recipient or the address for providing notices to it by serving all other Parties (and EPA) with a notice setting forth such new notice recipient or address.

IX. SALES OR TRANSFERS OF OPERATIONAL OR OWNERSHIP INTERESTS

191. If TVA proposes to sell or transfer an Operational or Ownership Interest to an entity unrelated to TVA (“Third Party”), TVA shall advise the Third Party in writing of the

existence of this Consent Decree prior to such sale or transfer, and shall send a copy of such written notification to EPA, the States, and the Citizen Plaintiffs pursuant to Section VIII (Notices) of this Consent Decree at least sixty (60) days before such proposed sale or transfer.

192. No sale or transfer of an Operational or Ownership Interest shall take place before the Third Party and the Plaintiffs (in consultation with EPA) have executed a modification pursuant to Section XII (Modification) of this Consent Decree making the Third Party a party to this Consent Decree and jointly and severally liable with TVA for all the requirements of this Consent Decree that may be applicable to the transferred or purchased Operational or Ownership Interests.

193. This Consent Decree shall not be construed to impede the transfer of any Operational or Ownership Interests between TVA and any Third Party so long as the requirements of this Consent Decree are met. This Consent Decree shall not be construed to prohibit a contractual allocation between TVA and any Third Party of the burdens of compliance with this Consent Decree, provided that TVA shall remain liable to the Plaintiffs for the obligations of the Consent Decree applicable to the transferred or purchased Operational or Ownership Interests.

194. If the Plaintiffs (in consultation with EPA) agree, the Plaintiffs, TVA, and the Third Party that has become a party to this Consent Decree pursuant to Paragraph 192, may execute a modification that relieves TVA of its liability under this Consent Decree for, and makes the Third Party liable for, all obligations and liabilities applicable to the purchased or transferred Operational or Ownership Interests. Notwithstanding the foregoing, however, no obligation under this Consent Decree may be assigned, transferred or released in connection with

any sale or transfer of any Ownership Interest that is not specific to the purchased or transferred Operational or Ownership Interests, including the obligations set forth in Sections III.F (Environmental Mitigation Projects) and III.G (Civil Penalty), and Paragraphs 67 and 82. TVA may propose and the Plaintiffs may agree to restrict the scope of the joint and several liability of any purchaser or transferee for any obligations of this Consent Decree that are not specific to the transferred or purchased Operational or Ownership Interests, to the extent such obligations may be adequately separated in an enforceable manner using the methods provided by or approved under Section III.L (Permits).

195. Paragraphs 191-194 of this Consent Decree do not apply if an Operational or Ownership Interest is sold or transferred solely as collateral security in order to consummate a financing arrangement (not including a sale-leaseback), so long as TVA (a) remains the operator (as that term is used and interpreted under the Act) of the subject TVA System Unit(s); (b) remains subject to and liable for all obligations and liabilities of this Consent Decree; and (c) supplies EPA with the following certification within thirty (30) days of the sale or transfer:

Certification of Change in Ownership Interest Solely for Purpose of Consummating Financing. We, the Chief Executive Officer(s) and General Counsel(s) of the Tennessee Valley Authority (“TVA”), hereby jointly certify under Title 18 U.S.C. Section 1001, on our own behalf and on behalf of TVA, that any change in TVA’s Ownership Interest in any Unit that is caused by the sale or transfer as collateral security of such Ownership Interest in such Unit(s) pursuant to the financing agreement consummated on [insert applicable date] between TVA and [insert applicable entity] (a) is made solely for the purpose of providing collateral security in order to consummate a financing arrangement; (b) does not impair TVA’s ability, legally or otherwise, to comply timely with all terms and provisions of the Consent Decree entered in Alabama et al. v. Tennessee Valley Auth., [insert case number] (E.D. Tenn. filed April 2011); (c) does not affect TVA’s operational control of any Unit covered by that Consent Decree in a manner that is inconsistent with TVA’s performance of its obligations under the Consent Decree; and (d) in no way affects the status of TVA’s obligations or liabilities under that Consent Decree.

X. EFFECTIVE DATE

196. The effective date of this Consent Decree shall be the Date of Entry.

XI. RETENTION OF JURISDICTION

197. The Court shall retain jurisdiction of this case after the Date of Entry of this Consent Decree to enforce compliance with the terms and conditions of this Consent Decree and to take any action necessary or appropriate for the interpretation, construction, execution, or modification of the Consent Decree, or for adjudication of disputes. During the term of this Consent Decree, any Party to this Consent Decree may apply to the Court for any relief necessary to construe or effectuate this Consent Decree.

XII. MODIFICATION

198. Except for a Party's request to modify this Consent Decree to conform to any modification to the Compliance Agreement, the terms of this Consent Decree may be modified only by a subsequent written agreement signed by the Parties. A Party shall provide notice to all other Parties (and to EPA) at least ten (10) business days before moving this Court to modify this Consent Decree to conform it to any modification of the Compliance Agreement. Except as otherwise specified herein, where the modification constitutes a material change to any term of this Consent Decree, it shall be effective only upon approval by the Court.

XIII. GENERAL PROVISIONS

199. At any time prior to conditional and/or partial termination of enforcement through this Consent Decree, TVA may request approval from EPA to implement a pollution control technology or pollution reduction activity for SO₂ or NO_x other than what is required by this Consent Decree. In seeking such approval, TVA must demonstrate that such alternative control

technology or activity is capable of achieving and maintaining pollution reductions equivalent to an FGD (for SO₂) or SCR (for NO_x) at the Units in the TVA System at which TVA seeks approval to implement such other control technology or activity for SO₂ or NO_x. Approval of such a request is solely at the discretion of EPA (in consultation with the States and the Citizen Plaintiffs) provided that TVA shall not implement (and the Compliance Agreement prohibits EPA from approving) an alternative control technology or activity if TVA fails to demonstrate that such alternative control technology or activity is capable of achieving and maintaining pollution reductions equivalent to an FGD (for SO₂) or SCR (for NO_x) at the Units in the TVA System. If EPA approves TVA's request, nothing in this Paragraph shall relieve TVA from complying with any other requirement of this Consent Decree applicable to such Unit (e.g., the requirement to obtain a federally enforceable non-Title V permit that includes the Unit-specific performance, operational, maintenance, and control technology requirements for such Unit in addition to the system-wide requirements and any plant-wide requirements also applicable to such Unit).

200. This Consent Decree is not a permit. Compliance with the terms of this Consent Decree does not guarantee compliance with any applicable federal, state, and/or local laws and/or regulations. The emission limitations set forth herein do not relieve TVA from any obligation to comply with other state and federal requirements under the Act, including TVA's obligation to satisfy any modeling requirements set forth in the Act.

201. This Consent Decree does not apply to any claim(s) of alleged criminal liability.

202. In any subsequent action initiated by EPA, the States, or the Citizen Plaintiffs relating to the facilities covered by this Consent Decree, TVA shall not assert any defense or

claim based upon principles of waiver, res judicata, collateral estoppel, issue preclusion, claim preclusion, or claim splitting, or any other defense based upon the contention that the claims raised by EPA and/or any of the States or the Citizen Plaintiffs in the subsequent proceeding were brought, or should have been brought, in the instant case; provided, however, that nothing in this Paragraph is intended to affect the validity of Section III.H (Resolution of Claims Against TVA).

203. Except as specifically provided by this Consent Decree, nothing in this Consent Decree shall relieve TVA of its obligation to comply with all applicable federal, state, and/or local laws and/or regulations, including, but not limited to, TVA's obligation to apply for a Clean Water Act NPDES permit(s) or permit renewal for the discharge of wastewater from the operation of the FGDs at any TVA System Unit, and in connection with any such application or application for permit renewal, to provide the NPDES permitting authority with all information necessary to appropriately characterize effluent from its operations and develop, if applicable, appropriate effluent limitations; provided, however, that no claimed violation of this provision regarding NPDES permitting shall be enforceable as a violation of this Consent Decree, by way of stipulated penalty or otherwise. Subject to the provisions in Section III.H (Resolution of Claims Against TVA), nothing contained in this Consent Decree shall be construed to prevent or limit the rights of EPA, the States, or the Citizen Plaintiffs to obtain penalties or injunctive relief under the Act or other federal, state, or local statutes, regulations, or permits.

204. Nothing in this Consent Decree is intended to, or shall, alter or waive any applicable law (including but not limited to any defenses, entitlements, challenges, or

clarifications related to the Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997)) concerning the use of data for any purpose under the Act.

205. Each limit and/or other requirement established by or under this Consent Decree is a separate, independent requirement.

206. Performance standards, emissions limits, and other quantitative standards set by or under this Consent Decree must be met to the number of significant digits in which the standard or limit is expressed. For example, an Emission Rate of 0.100 is not met if the actual Emission Rate is 0.101. TVA shall round the fourth significant digit to the nearest third significant digit, or the third significant digit to the nearest second significant digit, depending upon whether the limit is expressed to three or two significant digits. For example, if an actual Emission Rate is 0.1004, that shall be reported as 0.100, and shall be in compliance with an Emission Rate of 0.100, and if an actual Emission Rate is 0.1005, that shall be reported as 0.101, and shall not be in compliance with an Emission Rate of 0.100. TVA shall report data to the number of significant digits in which the standard or limit is expressed.

207. Except as otherwise provided by law, this Consent Decree does not limit, enlarge or affect the rights of any Party to this Consent Decree as against any third parties.

208. This Consent Decree constitutes the final, complete and exclusive agreement and understanding among the Parties with respect to the settlement embodied in this Consent Decree, and supersedes all prior agreements and understandings among the Parties related to the subject matter herein. No document, representation, inducement, agreement, understanding, or promise constitutes any part of this Consent Decree or the settlement it represents, nor shall they be used in construing the terms of this Consent Decree.

XIV. SIGNATORIES AND SERVICE

209. Each undersigned representative of the Parties certifies that he or she is fully authorized to enter into the terms and conditions of this Consent Decree and to execute and legally bind to this document the Party he or she represents.

210. This Consent Decree may be signed in counterparts, and such counterpart signature pages shall be given full force and effect.

211. Each Party hereby agrees to accept service of process by mail with respect to all matters arising under or relating to this Consent Decree and to waive the formal service requirements set forth in Rule 4 of the Federal Rules of Civil Procedure and any applicable Local Rules of this Court, including but not limited to, service of a summons.

XV. PUBLIC COMMENT

212. The Parties agree and acknowledge that entry of this Consent Decree shall occur only after EPA has completed the public notice and comment process that is specified in Paragraph 211 of the Compliance Agreement. The Parties shall not oppose entry of this Consent Decree by this Court or challenge any provision of this Consent Decree unless EPA has notified TVA, the States, and the Citizen Plaintiffs in writing that due to the substance of comments received during the notice and comment period specified in Paragraph 211 of the Compliance Agreement, EPA no longer consents to the Compliance Agreement as originally executed by EPA and TVA. The Parties reserve the right to seek, prior to entry, modifications to this Consent Decree consistent with any modifications that EPA and TVA make to the Compliance Agreement pursuant to Paragraph 211 of the Compliance Agreement.

XVI. CONDITIONAL TERMINATION OF ENFORCEMENT UNDER DECREE

213. Termination as to Completed Tasks at a Unit. As soon as TVA completes a requirement of this Consent Decree pertaining to a particular Unit that is not ongoing or recurring, TVA may, by written letter to the States and the Citizen Plaintiffs, seek termination of the provision or provisions of this Consent Decree that imposed the requirement.

214. Conditional Termination of Enforcement Through the Consent Decree. After TVA:

a. has successfully completed construction of all pollution control technology or such other Control Requirement described in Paragraphs 69 and 85, and has maintained Continuous Operation of all pollution control technology or such other Control Requirement at the TVA System Units as required by this Consent Decree for at least two (2) years; and

b. has obtained final permits and/or site-specific SIP amendments (i) as required by Section III.L (Permits) of this Consent Decree, (ii) that cover all Units in this Consent Decree, and (iii) that include as enforceable permit terms all of the Unit-specific and TVA System performance, operational, maintenance, and control technology requirements specified in this Consent Decree;

then TVA may so certify these facts to the States and the Citizen Plaintiffs. If the States and the Citizen Plaintiffs (in consultation with EPA) do not object in writing with specific reasons within forty-five (45) days of receipt of TVA's certification, then, for any Consent Decree violations that occur after the certification is submitted, the States and the Citizen Plaintiffs shall pursue enforcement through the applicable permit(s) required pursuant to Paragraphs 50, 150, 154, 155, 156, and 158 and/or other enforcement authority, and not through this Consent Decree.

215. Resort to Enforcement under this Consent Decree. Notwithstanding Paragraph 214, if enforcement of a provision in this Consent Decree cannot be pursued by the States and the Citizen Plaintiffs under the applicable permits required by this Consent Decree or other enforcement authority, or if a Consent Decree requirement was intended to be part of a permit and did not become or remain part of such permit, then such requirement may be enforced under the terms of this Consent Decree at any time.

XVI. FINAL JUDGMENT

216. Upon approval and entry of this Consent Decree by the Court, this Consent Decree shall constitute a final judgment among the Parties.

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Signature Page for Consent Decree in:

Alabama et al.

v.

Tennessee Valley Auth.

FOR THE STATE OF ALABAMA AND THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT:

LANCE R. LEFLEUR, Director
Alabama Department of
Environmental Management
1400 Coliseum Boulevard
Montgomery, AL 36130-1463

LUTHER STRANGE, Attorney General

By: _____
S. SHAWN SIBLEY (ASB-2802-Y49S)
Assistant Attorney General and
Associate General Counsel
Alabama Department of
Environmental Management
1400 Coliseum Boulevard
Montgomery, AL 36130-1463

Signature Page for Consent Decree in:

Alabama et al.

v.

Tennessee Valley Auth.

FOR THE COMMONWEALTH OF KENTUCKY:

DR. LEONARD K. PETERS, Secretary
Energy and Environment Cabinet
500 Mero Street
12th Floor, Capital Plaza Tower
Frankfort, Kentucky 40601

C. MICHAEL HAINES, General Counsel
Energy and Environment Cabinet
Office of General Counsel
2 Hudson Hollow Road
Frankfort, Kentucky 40601

Signature Page for Consent Decree in:

Alabama et al.

v.

Tennessee Valley Auth.

FOR THE STATE OF NORTH CAROLINA:

ROY COOPER
Attorney General
North Carolina Department of Justice
P.O. Box 629
114 West Edenton Street
Raleigh, NC 27602
(919) 716-6400
Fax: (919) 716-0803

Signature Page for Consent Decree in:

Alabama et al.

v.

Tennessee Valley Auth.

FOR THE STATE OF TENNESSEE:

ROBERT E. COOPER, JR.
Attorney General & Reporter

By: _____

PHILLIP R. HILLIARD
Senior Counsel
Office of the Tennessee Attorney
General & Reporter
Environmental Division
P.O. Box 20207
425 Fifth Avenue North
Nashville, TN 37202
(615) 741-4612
Fax: (615) 741-8724
Phillip.Hilliard@ag.tn.gov
Tenn. BPR No. 21524

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Tennessee Valley Auth.

FOR NATIONAL PARKS CONSERVATION ASSOCIATION:

ELIZABETH FAYAD
General Counsel

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Alabama et al.

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Tennessee Valley Auth.

FOR SIERRA CLUB:

BRUCE E. NILLES
Deputy Conservation Director

Signature Page for Consent Decree in:

Alabama et al.

v.

Tennessee Valley Auth.

FOR OUR CHILDREN'S EARTH FOUNDATION:

TIFFANY SCHAUER
Executive Director

Signature Page for Consent Decree in:

Alabama et al.

v.

Tennessee Valley Auth.

FOR THE TENNESSEE VALLEY AUTHORITY:

TOM KILGORE
President and Chief Executive Officer
Tennessee Valley Authority

APPENDIX A

REPORTING REQUIREMENTS

I. Annual Reporting Requirements

Beginning six (6) months after the Consent Decree Obligation Date, and continuing annually on April 30 each year thereafter, TVA shall submit annual reports to EPA, the States, and the Citizen Plaintiffs electronically as required by Section III.I (Periodic Reporting). EPA, the States, and the Citizen Plaintiffs reserve the right to request such information in hard copy. In such annual reports, TVA shall include the following information:

A. System-Wide Annual Tonnage Limitations for NO_x and SO₂

TVA shall report the following information: (1) the total actual annual tons of the pollutant emitted from each Unit or, for Units sharing a common stack, the total actual annual tons of the pollutant emitted from each combined stack, within the TVA System and any New CC/CT Units during the prior calendar year; (2) the total actual annual tons of the pollutant emitted from the TVA System and any New CC/CT Units during the prior calendar year; (3) the difference, if any, between the System-Wide Annual Tonnage Limitation for the pollutant in that calendar year and the amount reported in subparagraph (2); and (4) for each pollutant, (a) the annual average emission rate, expressed as lb/mmBTU, for each Unit within the TVA System and any New CC/CT Units in the prior calendar year and (b) the annual average emission rate, expressed as lb/mmBTU, for the entire TVA System and any New CC/CT Units during the prior calendar year. Data submitted pursuant to this subsection shall be based upon CEMS pursuant to Paragraphs 81 and 97.

If TVA was subject to an adjusted System-Wide Annual Tonnage Limitation specified in Paragraphs 68 and 83 in the calendar year covered by the annual report, it shall report the following: (1) the Units at which the adjusted System-Wide Annual Tonnage Limitations in Paragraphs 68 and 83 apply and (2) the adjusted aggregate System-Wide Annual Tonnage Limitation.

B. Continuous Operation of Pollution Control Technology or Combustion Controls

TVA shall report the date that it commenced Continuous Operation of each SCR, FGD, PM Control Device, SNCR, LNB, OFA, and SOFA that TVA is required to Continuously Operate pursuant to this Consent Decree in the calendar year covered by the annual report.

TVA shall report, for any SCR, FGD, PM Control Device, SNCR, LNB, OFA, and SOFA that TVA is required to Continuously Operate during the calendar year covered by the annual report, the duration of any period during which that pollution

control technology or combustion control did not Continuously Operate, including the specific dates and times that such pollution control technology or combustion control did not operate, the reason why TVA did not Continuously Operate such pollution control technology or combustion control, and the measures taken to reduce emissions of the pollutant controlled by such pollution control technology or combustion control.

TVA shall include a statement in each annual report describing the actions it took to optimize the PM Control Devices as required by Paragraph 98 in the relevant calendar year.

C. Installation of NO_x, SO₂, and PM Control Devices

TVA shall report on the progress of construction (including upgrades) of SCRs and FGDs (and new PM Control Devices, if any) required by this Consent Decree including: (1) if construction is not underway, any available information concerning the construction schedule, including the dates of any major contracts executed during the prior calendar year, and any major components delivered during the prior calendar year; (2) if construction is underway, the estimated percent of installation as of the end of the prior calendar year, the current estimated construction completion date, and a brief description of completion of significant milestones during the prior calendar year, including a narrative description of the current construction status (e.g. foundations completed, absorber installation proceeding, all material on-site, new stack erection completed, etc.); (3) a list of all permits needed to construct and operate the device, the date TVA applied for such permits, and the status of the permit applications; and (4) once construction is complete, the dates the equipment was placed in service and any performance/emissions testing that was performed during the prior calendar year. For purposes of the FGD upgrade at Paradise Units 1 and 2, TVA shall demonstrate, with supporting documentation, that the construction activities performed to upgrade the FGDs at Paradise Units 1 and 2 were designed to upgrade the FGDs to a 93% removal efficiency.

D. Unit Retirements

Beginning on April 30 of the year following TVA's obligation pursuant to this Consent Decree to Retire a TVA System Unit, and continuing annually thereafter until all TVA System Units required to be Retired have been Retired, TVA shall report the date it Retired such Unit and a description of the actions TVA took to Retire such Unit within the meaning of Paragraph 51.

E. Repower to Renewable Biomass

If TVA elects the Repower to Renewable Biomass option for a TVA System Unit, in the next annual report following such election, and continuing annually thereafter, TVA shall report on the progress of its efforts to Repower such TVA System Unit including: (1) if construction is not underway, any available information concerning the construction schedule, including the dates of any major contracts executed during the

prior calendar year, and any major components delivered during the prior calendar year; (2) if construction is underway, the estimated percent of installation as of the end of the prior calendar year, the current estimated construction completion date, and a brief description of completion of significant milestones during the prior calendar year, including a narrative description of the current construction status; (3) a list of all permits needed to construct and operate the Repowered Unit, the date TVA applies for such permits, and the status of the permit applications; and (4) once construction is complete, the dates the Repowered Unit was placed in service and any performance/emissions testing that was performed during the prior calendar year.

F. PM Emission Control Optimization Study

Beginning on April 30 of the year following TVA's obligation to implement the EPA-approved recommendations required by Paragraph 99, TVA shall include a statement describing how it maintained each PM Control Device in accordance with the EPA-approved PM emission control optimization study.

G. Reporting Requirements for NO_x and SO₂ Allowances

1. Reporting Requirements for NO_x and SO₂ Surrendered Allowances

TVA shall report the number of NO_x and SO₂ Allowances that were allocated to it under any programs and the number of NO_x and SO₂ Allowances surrendered pursuant to Paragraphs 75 and 91 for the prior calendar year. TVA shall include the mathematical basis supporting its calculation of NO_x and SO₂ Allowances surrendered.

2. Reporting Requirements for NO_x and SO₂ Super-Compliance Allowances

TVA shall report any Super-Compliance NO_x or SO₂ Allowances that it generated as provided in Paragraphs 78 and 94 for the prior calendar year. TVA shall include the mathematical basis supporting its calculation of Super-Compliance NO_x or SO₂ Allowances. TVA shall also specifically identify the amount, if any, of Super-Compliance NO_x and SO₂ Allowances that TVA generated from Retiring a TVA System Unit that TVA did not utilize for purposes of Paragraph 117 (New CC/CT Units).

H. New CC/CT Units

TVA shall report all information necessary to determine compliance with Paragraphs 117-119. In particular, TVA shall report whether it has applied for a minor NSR permit as described in Subparagraph 117.b and 119.c to construct a New CC/CT Unit, and shall confirm that it timely provided a copy of the permit application to EPA, the States, and the Citizen Plaintiffs as required by Subparagraph 117.c and Paragraph 155. TVA shall report the amount of emission reductions of NO_x and the amount of emission reductions of SO₂ resulting from Retiring a TVA System Unit that TVA utilized as netting credits as provided in Paragraph 117. TVA shall report the amount of emission

reductions of Greenhouse Gases resulting from Retiring a TVA System Unit that TVA utilized as netting credits as provided in Paragraph 119. TVA shall describe how the emissions decreases on which it is relying in order to construct a New CC/CT Unit as provided in Paragraph 117 and 119 are both contemporaneous and otherwise creditable within the meaning of the Clean Air Act and the applicable SIP. In making these demonstrations, TVA shall provide unit-by-unit explanations and calculations. TVA shall include a description of the emission limitations determined by the relevant permitting authority as described in Subparagraph 117.b, and how such emission limitations are consistent with this Consent Decree and Appendix B. TVA shall provide all relevant information, including an appropriate mathematical calculation, to demonstrate that any emission decrease upon which it relied for purposes of Paragraph 117 was not used to generate a Super-Compliance NO_x or SO₂ Allowance in the calendar year in which TVA relies upon such emission reduction and all calendar years thereafter. TVA shall provide all information necessary to determine compliance with the conditions established in Paragraphs 119.b-119.c.

I. NO_x, SO₂, and PM CEMS Malfunction, Repair, or Maintenance

TVA shall report all periods when a CEMS required by this Consent Decree was not operating, including periods of monitor malfunction, repair, or maintenance in the prior calendar year.

J. PM CEMS Data

In an electronic, spreadsheet format, TVA shall submit the data recorded by the PM CEMS, expressed in lb/mmBTU, on a three-hour (3-hour) rolling average basis and a twenty-four-hour (24-hour) rolling average basis, and shall include identification of each 3-hour average and 24-hour average above the 0.030 lb/mmBTU PM Emission Rate for Bull Run Unit 1, Colbert Unit 5, and Kingston Units 1-9, for the prior calendar year. If TVA locates a PM CEMS at another Unit in the TVA System pursuant to Paragraph 110, and such Unit is also subject to a PM Emission Rate pursuant to Paragraph 100, TVA shall also include identification of each 3-hour average exceedance for such Unit.

K. SO₂ Emission Rate at Shawnee

TVA shall submit all data necessary to determine whether emissions of SO₂ from Shawnee Units 1-10 exceeded 1.2 lb/mmBTU in the prior calendar year.

L. PM Stack Tests & PM Emission Rates

TVA shall submit the complete report for the stack tests performed pursuant to Paragraphs 101 and 102 in the prior calendar year. TVA shall describe at which TVA System Units, if any, TVA did not perform a stack test in the relevant calendar year. TVA shall separately identify the stack test reports for the TVA System Units subject to a PM Emission Rate under this Consent Decree.

M. Environmental Mitigation Projects

TVA shall report funds disbursed to the States pursuant to Paragraphs 122-124 and 126 of the Consent Decree in the prior calendar year.

N. Other Unit at Shawnee Becomes Improved Unit

If TVA decides to make an Other Unit at the Shawnee Plant an Improved Unit, TVA shall so state in the next annual report it submits after making such decision, and shall comply with the reporting requirements specified in Section I.C of this Appendix and any other reporting or notice requirements in accordance with the Consent Decree.

O. Emission Reductions Greater than those Required Under this Consent Decree

TVA shall report whether, in the relevant calendar year, it claimed to have achieved emission reductions at a particular TVA System Unit that are greater than those emission reductions required under this Consent Decree for the particular TVA System Unit as provided in Paragraph 116. If TVA did not claim to have achieved emission reductions at a particular TVA System Unit that are greater than those emission reductions required under this Consent Decree, it shall so state. If TVA did, for any purpose, claim to achieve emission reductions at a particular TVA System Unit that are greater than those required under this Consent Decree for that particular TVA System Unit, TVA shall include a description of how it achieved such emission reductions, including a mathematical calculation in support of the claimed emission reductions, an explanation of how such emission reductions are greater than those required under this Consent Decree, and the manner in which such emission reductions were either relied upon or used for purposes of permitting actions, non-permitting actions, or otherwise.

II. Deviation Reports

TVA shall report all deviations from the requirements of the Consent Decree that occur during the calendar year covered by the annual report, identifying the date and time that the deviation occurred, the date and time the deviation was corrected, the cause of any corrective actions taken for each deviation, if necessary, and the date that the deviation was initially reported under Paragraph 156.

III. Submission Pending Review

In each annual report, TVA shall include a list of all plans or submissions made pursuant to this Consent Decree during the calendar year covered by the annual report and all prior calendar years since the Consent Decree Obligation Date, the date(s) such plans or submissions were submitted to EPA for review or approval, and shall identify which, if any, are still pending review and approval by EPA upon the date of the submission of the annual report.

IV. Other Information Necessary to Determine Compliance

To the extent that information not expressly identified herein is necessary to determine TVA's compliance with the requirements of this Consent Decree for the calendar year covered by the annual report, and such information has not otherwise been submitted, TVA shall provide such information as part of the annual report required pursuant to Section III.I (Periodic Reporting) of the Consent Decree and TVA shall provide such other information that is deemed necessary by EPA in consultation with the States.

V. Information Previously Submitted under Title V Permitting Requirements

In any periodic progress report submitted pursuant to Section III.I (Periodic Reporting) of the Consent Decree and this Appendix, TVA may incorporate by reference information previously submitted under its Title IV or Title V permitting requirements, provided that TVA attaches the Title IV and/or Title V permit report, or the relevant portion thereof, and provides a specific reference to the provisions of the Title IV and/or Title V permit report that are responsive to the information required in the periodic progress report.

APPENDIX B

EMISSION LIMITATIONS FOR NEW CC/CT UNITS

This Appendix B sets forth emission limitations for certain regulated NSR pollutants for the purpose of constructing New CC/CT Units pursuant to Paragraph 117 of the Consent Decree. The emission limitations set forth in this Appendix serve solely as the minimum stringency for emission limitations to be determined by the relevant permitting authority for such New CC/CT Units as described in Paragraph 117, and shall not be presumed to be BACT or LAER. Although the permitting authority as part of the permitting action described in Paragraph 117 of the Consent Decree shall not determine BACT or LAER to be less stringent than the emission limitations set forth herein, nothing in the Consent Decree or this Appendix shall prevent the permitting authority from establishing more stringent emission limitations than those set forth in this Appendix. For purposes of the permitting action described in Paragraph 117 of the Consent Decree, TVA shall not assert that the Consent Decree (including this Appendix) supports imposing a BACT or LAER emission limitation that is no more stringent than the emission limitations set forth herein.

The permitting authority will determine BACT and LAER, as appropriate, for NO_x, SO₂, VOC, PM, PM₁₀, and PM_{2.5} for all periods of operation, including startup, shutdown, combustion tuning, and fuel switching as part of the minor NSR permitting action described in Paragraph 117. The emission limitations only for NO_x and VOC described in this Appendix do not apply during startup, shutdown, combustion tuning, and fuel switching. For purposes of startup and shutdown, the permitting authority will consider appropriate technologies, methodologies, and other practices to reduce or minimize emissions during such events (such as the use of an auxiliary boiler to preheat the catalyst, the use of Rapid Start Process, and by limiting the number and duration of startups and shutdowns, among other things) as part of the BACT/LAER analysis. In addition to any other limitations determined by the permitting authority, combustion tuning shall be limited to no more than four (4) hours per event and the total event hours in a calendar year shall not exceed twenty (20) hours. The permitting authority shall require TVA to include advance notice of the details of such combustion tuning event and the proposed tuning schedule. An event, for purposes of the 4-hour event limit, shall begin to run when TVA first commences the combustion tuning process at a unit and shall conclude once TVA has completed all tuning-related activities and returns the unit to normal operation. For purposes of this Appendix, and in addition to any other limitations determined by the permitting authority, the type of fuel switching for which the NO_x and VOC emission limitations described in this Appendix do not apply shall be for oil-to-gas switching not to exceed thirty (30) minutes per each oil-to-gas fuel switch and gas-to-oil switching not to exceed fifteen (15) minutes per each gas-to-oil fuel switch.

The New CC/CT Units constructed pursuant to Paragraph 117 of the Consent Decree shall combust Natural Gas as the primary fuel, which shall contain no more than one (1) grain sulfur per one hundred (100) standard cubic feet (“Gr S/100 SCF”). Ultra-Low Sulfur Diesel (“ULSD”) Fuel Oil containing no more than 0.0015% sulfur by weight may be used as an alternate fuel, provided that the use of such fuel is limited to no more than five hundred (500)

hours during any calendar year or one hundred (100) hours during any calendar year, as specified in the Tables below. Units subject to an ULSD Fuel Oil operational limitation of 100 hours during any calendar year shall only combust ULSD Fuel Oil for either Testing or during periods of Natural Gas Curtailment. For purposes of this Appendix, the term “Testing” shall mean the infrequent start-up of a unit not for purposes of generating electricity but to ensure that the unit is physically capable of operating. For purposes of this Appendix, the term “Natural Gas Curtailment” shall mean a restriction or limitation imposed by a third-party beyond TVA’s control on TVA’s ability to obtain or use Natural Gas. If TVA Retires one or more of the Units at the Allen Fossil Plant identified in Paragraph 63 of the Consent Decree and seeks to construct a New CC/CT Unit co-located at the Allen Fossil Plant pursuant to Paragraph 117 of the Consent Decree, then, in addition to Natural Gas and ULSD Fuel Oil, TVA may also request that the permitting authority authorize it to co-fire biogas from the Memphis Public Works waste treatment plant at such New CC/CT Units, which is the same biogas that TVA co-fires at the Allen Fossil Plant as of the Consent Decree Obligation Date of this Consent Decree.

The Tables in this Appendix do not contain emission limitations for filterable or condensable PM₁₀ or condensable PM_{2.5}. The permitting authority will determine BACT and LAER, as appropriate, for all fractions of PM that are regulated NSR pollutants as of the time of the permitting action, including filterable and condensable PM₁₀ and filterable and condensable PM_{2.5}, as part of the permitting process required pursuant to Paragraph 117 of the Consent Decree.

The NO_x emission limitations in Sections B, C, and D do not require the installation of selective catalytic reduction (SCR) technology. However, the Parties recognize that SCR is technically feasible for CT units.

Tables A.1 and A.2 set forth the minimum stringency emission limitations for New CC Units. Tables B.1, B.2, C.1, C.2, D.1, and D.2 set forth the minimum stringency emission limitations for New CT Units. As set forth in Tables B.1 and C.1, New CT Units located in an attainment area shall either be subject to an overall hours of operation limitation of no more than thirteen hundred (1,300) hours in a rolling twelve-month (12-month) period or have no overall hours of operation limitation. As set forth in Tables A.2, B.2, C.2, and D.2, all New CC/CT Units (whether in attainment or nonattainment areas) will have a limitation on the use of ULSD.

A. Emission Limitations for New CC Units

As part of the minor NSR permitting action described in Paragraph 117 of the Consent Decree, the permitting authority shall establish emission limitations that are no less stringent than those set forth in Table A.1 for New CC Units firing Natural Gas and Table A.2 for New CC Units firing ULSD Fuel Oil. Additionally, as part of the minor NSR permitting action described in Paragraph 117 of the Consent Decree, the permitting authority shall impose a condition that limits the New CC Units to firing no more than 500 hours of ULSD Fuel Oil in a calendar year.

Table A.1 – Emission Limitations for Natural Gas-fired operation

Pollutant	Emission Rate	Averaging Period	Periods of Operation Subject to an Alternate BACT/LAER Emission Limitation to Be Established by the Permitting Authority as Part of the Permitting Process
NO _x	2.0 parts per million (ppm) at 15% O ₂	8-hour rolling average	Startup, shutdown, combustion tuning, fuel switching
SO ₂	1 Gr S/100 SCF	12-month rolling average	All periods of operation are subject to the emission limitation set forth in this Table (hereinafter referred to as “NA”)
Filterable PM _{2.5}	0.005 lb/mmBTU	Average of three 1-hour runs from stack test in accordance with reference method	NA
VOC	1.5 ppm at 15% O ₂ without duct firing 2.0 ppm at 15% O ₂ with duct firing	Average of three 1-hour runs from stack test in accordance with reference method	Startup, shutdown, combustion tuning, fuel switching

Table A.2 – Emission Limitations for ULSD Fuel Oil-fired operation (not to exceed 500 hours during any calendar year)

Pollutant	Emission Rate	Averaging Period	Periods of Operation Subject to an Alternate BACT/LAER Emission Limitation to Be Established by the Permitting Authority as Part of the Permitting Process
NO _x	8.0 ppm at 15% O ₂	8-hour rolling average	Startup, shutdown, combustion tuning, fuel switching
SO ₂	15 ppm S	NA	NA
Filterable PM _{2.5}	0.015 lb/mmBTU	Average of three 1-hour runs from stack test in accordance with reference method	NA
VOC	4.0 ppm at 15% O ₂	Average of three 1-hour runs from stack test in accordance with reference method	Startup, shutdown, combustion tuning, fuel switching

B. Emission Limitations for New CT Units Located in Attainment Areas Subject to an Operational Limitation of 1,300 Hours in a 12-Month Period

As part of the minor NSR permitting action described in Paragraph 117 of the Consent Decree, the permitting authority shall establish emission limitations that are no less stringent than those set forth in: (i) Table B.1 for New CT Units firing Natural Gas if they are located in an attainment area and are subject to an overall hours of operation limitation of no more than 1,300 hours in a rolling 12-month period and (ii) Table B.2 for New CT Units firing ULSD Fuel Oil if they are located in an attainment area and are subject to an overall hours of operation limitation of no more than 1,300 hours in a rolling 12-month period, and which must be subject to an operational limitation for ULSD Fuel Oil that limits the New CT Units to firing no more than 500 hours of ULSD Fuel Oil in a calendar year.

Table B.1 – Emission Limitations for Natural Gas-fired Operation

Pollutant	Emission Rate	Averaging Period	Periods of Operation Subject to an Alternate BACT/LAER Emission Limitation to Be Established by the Permitting Authority as Part of the Permitting Process
NO _x	9.0 ppm at 15% O ₂	8-hour rolling average	Startup, shutdown, combustion tuning, fuel switching
SO ₂	1 Gr S/100 SCF	12-month rolling average	NA
Filterable PM _{2.5}	0.005 lb/mmBTU	Average of three 1-hour runs from stack test in accordance with reference method	NA
VOC	3.0 ppm at 15% O ₂	Average of three 1-hour runs from stack test in accordance with reference method	Startup, shutdown, combustion tuning, fuel switching

Table B.2 – Emission Limitations for ULSD Fuel Oil-fired Operation (not to exceed 500 hours during any calendar year)

Pollutant	Emission Rate	Averaging Period	Periods of Operation Subject to an Alternate BACT/LAER Emission Limitation to Be Established by the Permitting Authority as Part of the Permitting Process
NO _x	42 ppm at 15% O ₂	8-hour rolling average	Startup, shutdown, combustion tuning, fuel switching
SO ₂	15 ppm S	NA	NA
Filterable	0.015 lb/mmBTU	Average of three 1-	NA

Pollutant	Emission Rate	Averaging Period	Periods of Operation Subject to an Alternate BACT/LAER Emission Limitation to Be Established by the Permitting Authority as Part of the Permitting Process
PM _{2.5}		hour runs from stack test in accordance with reference method	
VOC	5.0 ppm at 15% O ₂	Average of three 1-hour runs from stack test in accordance with reference method	Startup, shutdown, combustion tuning, fuel switching

C. Emission Limitations for New CT Units Located in Attainment Areas with No Hours of Operation Limit

As part of the minor NSR permitting action described in Paragraph 117 of the Consent Decree, the permitting authority shall establish emission limitations that are no less stringent than those set forth in: (i) Table C.1 for New CT Units firing Natural Gas if they are located in an attainment area and are not subject to an overall hours of operation limitation of no more than 1,300 hours in a rolling 12-month period and (ii) Table C.2 for New CT Units firing ULSD Fuel Oil if they are located in an attainment area and are not subject to an overall hours of operation limitation of no more than 1,300 hours in a rolling 12-month period, and which must be subject to an operational limitation for ULSD Fuel Oil that limits the New CT Units to firing no more than 100 hours of ULSD Fuel Oil in a calendar year, and further limiting the use of ULSD Fuel Oil at such New CT Units for purposes of Testing or during periods of Natural Gas Curtailment only. If the permitting authority, as part of the minor NSR permitting action for a New CT Unit firing ULSD Fuel Oil to be located in an attainment area with no overall hours of operation limitation, requires TVA to install and operate an SCR and achieve a NO_x emission rate of no greater than 6.0 ppm at 15% O₂ over an eight-hour (8-hour) rolling average rather than 42 ppm at 15% O₂ over an 8-hour rolling average as specified in Table C.2 below, then the 500 hour calendar year operational limitation described in Section B shall apply instead of the 100 hour calendar year operational limitation specified in this Section C.

Table C.1 – Emission Limitations for Natural Gas-fired Operation

Pollutant	Emission Rate	Averaging Period	Periods of Operation Subject to an Alternate BACT/LAER Emission Limitation to Be Established by the Permitting Authority as Part of the Permitting Process
NO _x	5.0 ppm at 15% O ₂	8-hour rolling average	Startup, shutdown, combustion tuning, fuel switching
SO ₂	1 Gr S/100 SCF	12-month rolling average	NA

Pollutant	Emission Rate	Averaging Period	Periods of Operation Subject to an Alternate BACT/LAER Emission Limitation to Be Established by the Permitting Authority as Part of the Permitting Process
Filterable PM _{2.5}	0.005 lb/mmBTU	Average of three 1-hour runs from stack test in accordance with reference method	NA
VOC	1.5 ppm at 15% O ₂	Average of three 1-hour runs from stack test in accordance with reference method	Startup, shutdown, combustion tuning, fuel switching

Table C.2 – Emission Limitations for ULSD Fuel Oil-fired Operation (not to exceed 100 hours during any calendar year, and only for either Testing or Natural Gas Curtailment)

Pollutant	Emission Rate	Averaging Period	Periods of Operation Subject to an Alternate BACT/LAER Emission Limitation to Be Established by the Permitting Authority as Part of the Permitting Process
NO _x	42 ppm at 15% O ₂	8-hour rolling average	Startup, shutdown, combustion tuning, fuel switching
SO ₂	15 ppm S	NA	NA
Filterable PM _{2.5}	0.015 lb/mmBTU	Average of three 1-hour runs from stack test in accordance with reference method	NA
VOC	4.0 ppm at 15% O ₂	Average of three 1-hour runs from stack test in accordance with reference method	Startup, shutdown, combustion tuning, fuel switching

D. Emission Limitations for New CT Units Located In Nonattainment Areas With or Without an Hours of Operation Limit

As part of the minor NSR permitting action described in Paragraph 117 of the Consent Decree, the permitting authority shall establish emission limitations that are no less stringent than those set forth in: (i) Table D.1 for New CT Units firing Natural Gas if they are located in a nonattainment area and (ii) Table D.2 for New CT Units firing ULSD Fuel Oil if they are located in a nonattainment area and which must be subject to an operational limitation for ULSD Fuel Oil that limits the New CT Units to firing no more than 100 hours of ULSD Fuel Oil in a calendar year, and further limiting the use of ULSD Fuel Oil at such New CT Units for purposes of Testing or during periods of Natural Gas Curtailment only. If the permitting authority, as part

of the minor NSR permitting action for a New CT Unit firing ULSD Fuel Oil to be located in a nonattainment area, requires TVA to install and operate an SCR and achieve a NO_x emission rate of no greater than 6.0 ppm at 15% O₂ over an 8-hour rolling average rather than 42 ppm at 15% O₂ over an 8-hour rolling average as specified in Table D.2 below, then the 500 hour calendar year operational limitation described in Section B shall apply instead of the 100 hour calendar year operational limitation specified in this Section D.

Table D.1 – Emission Limitations for Natural Gas-fired Operation

Pollutant	Emission Rate	Averaging Period	Periods of Operation Subject to an Alternate BACT/LAER Emission Limitation to Be Established by the Permitting Authority as Part of the Permitting Process
NO _x	5.0 ppm at 15% O ₂	8-hour rolling average	Startup, shutdown, combustion tuning, fuel switching
SO ₂	1 Gr S/100 SCF	12-month rolling average	NA
Filterable PM _{2.5}	0.005 lb/mmBTU	Average of three 1-hour runs from stack test in accordance with reference method	NA
VOC	1.5 ppm at 15% O ₂	Average of three 1-hour runs from stack test in accordance with reference method	Startup, shutdown, combustion tuning, fuel switching

Table D.2 – Emission Limitations for ULSD Fuel Oil-fired Operation (not to exceed 100 hours during any calendar year, and only for either Testing or Natural Gas Curtailment)

Pollutant	Emission Rate	Averaging Period	Periods of Operation Subject to an Alternate BACT/LAER Emission Limitation to Be Established by the Permitting Authority as Part of the Permitting Process
NO _x	42 ppm at 15% O ₂	8-hour rolling average	Startup, shutdown, combustion tuning, fuel switching
SO ₂	15 ppm S	NA	NA
Filterable PM _{2.5}	0.015 lb/mmBTU	Average of three 1-hour runs from stack test in accordance with reference method	NA

Pollutant	Emission Rate	Averaging Period	Periods of Operation Subject to an Alternate BACT/LAER Emission Limitation to Be Established by the Permitting Authority as Part of the Permitting Process
VOC	4.0 ppm at 15% O ₂	Average of three 1-hour runs from stack test in accordance with reference method	Startup, shutdown, combustion tuning, fuel switching