

## **ADDENDUM TO AIR EMISSION SOURCE CONSTRUCTION PERMIT**

**Source ID No.:** 0550023

**Effective Date:** Addendum to the December 16, 2010 Construction Permit

**Source Name:** Holcomb Station

**SIC Code:** 4911, Electric Services

**NAICS Code:** 221112, Fossil Fuel Power Generation

**Source Location:** Section 32, Township 24 South, Range 33 West  
Holcomb, Kansas

**Site Owner/Operator Name:** Owners (as described below):  
Holcomb 2, LLC (f/k/a/ Sand Sage Power, LLC)  
Operator:  
Sunflower Electric Power Corporation (Sunflower)

**Site Owners/Operators:** Sunflower Electric Power Corporation

**Mailing Address:** 301 West 13th Street  
P.O. Box 980  
Hays, Kansas 67601-0980

**Contact Person:** Mr. Wayne Penrod  
Executive Manager, Environmental Policy  
Telephone: (785) 623-3313

**This permit is issued pursuant to K.S.A. 65-3008 as amended.**

### **Description of Activity Subject to Air Pollution Control Regulations**

The operator, Sunflower Electric Power Corporation (Sunflower), on behalf of the owners, was granted authorization on December 16, 2010, to construct and operate one new 895 megawatt (895 MW) coal fired generating unit and associated equipment, including one steam generator (H2), one companion cooling tower, one auxiliary boiler, one emergency diesel power generator, one replacement diesel fire pump (DFP) to replace an existing emergency diesel fire pump at Holcomb 1, one emergency DFP booster pump and coal, lime, powdered activated carbon (PAC), and waste powder handling equipment, collectively known as the Holcomb Expansion Project (Project) or Holcomb 2, to be located at the site

of the existing Holcomb 1 generating unit and associated equipment at Sunflower's Holcomb Generating Station.

The Kansas Supreme Court reviewed the decision of KDHE to issue the permit upon litigation filed by Sierra Club. On October 4, 2013 the Kansas Supreme Court issued an opinion and remanded the permit back to KDHE for 1) setting limits for 1-hour average emission rates for NO<sub>x</sub> and SO<sub>2</sub> to assure compliance with the federal regulations establishing 1-hour NO<sub>2</sub> and SO<sub>2</sub> National Ambient Air Quality Standards; and 2) requiring KDHE to apply new HAPs emission limits to the H2 steam generator. It is upon this decision that the KDHE is issuing this Permit Addendum which supplements the permit of December 16, 2010, to construct and operate one new 895 megawatt (895 MW) coal fired generating unit H2 and associated equipment, collectively known as the Holcomb Expansion Project (Project) or Holcomb 2, to be located at the site of the existing Holcomb 1 generating unit and associated equipment at Sunflower's Holcomb Generating Station. Except as specified in this Addendum, all provisions of the permit issued December 16, 2010 remain in effect.

### **Additional Significant Applicable Air Pollution Control Regulations**

An affected facility subject to a New Source Performance Standard (NSPS)(40 CFR Part 60) listed in the December 16, 2010 permit shall be subject to the regulation in effect when construction commences.

An affected source subject to a National Emission Standards for Hazardous Air Pollutants (40 CFR Part 63) listed in the December 16, 2010 permit shall be subject to the regulation in effect upon startup of the affected source.

40 CFR part 63, Subpart UUUUU – “National Emission Standards for Hazardous Air Pollutants for Coal and Oil-Fired Electric Utility Steam Generating Units”

### **Air Emission Limitations**

#### **2. H2 steam generator**

On and after the required performance tests referenced in 40 CFR Part 60 and K.A.R. 28-19-212, the emission of each pollutant expressed as lbs/hour, lbs/mmBtu or as lbs/MWh shall not exceed the limit referenced hereunder. Test requirements and compliance with this standard is described in the section entitled Compliance and other Performance Testing.

#### **2a. (last paragraph)**

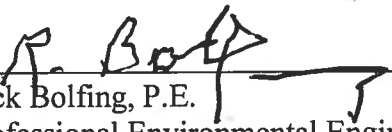
The owner or operator shall not emit or cause to be emitted NO<sub>x</sub> emissions exceeding 1740 lbs/hour on a one hour block average basis, including during startup and shutdown.

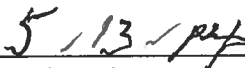
#### **2b. (last paragraph)**

The owner or operator shall not emit or cause to be emitted SO<sub>2</sub> emissions exceeding 4089 lbs/hour on a one hour block average basis, including during startup and shutdown.

- 2j. The owner or operator shall comply with all applicable provisions of 40 CFR Part 63 Subpart UUUUU for an EGU as defined per 40 CFR 63.9985. Applicable portions of Emission and Operating Limits, Work Practice Standards, Performance Testing, Continuous Compliance, and Reporting sections from the 40 CFR Part 63 Subpart UUUUU in effect upon startup of H2 shall apply.

**Permit Engineer**

  
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Rick Bolfig, P.E.  
Professional Environmental Engineer  
Bureau of Air

  
\_\_\_\_\_  
Date Signed

**Issued By**

\_\_\_\_\_  
Robert Moser, M.D.  
Secretary  
Kansas Department of Health and Environment

\_\_\_\_\_  
Date Signed

RJB:sw  
c: SWDO  
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