

## NOTICE OF

### PREVENTION OF SIGNIFICANT DETERIORATION PRE-CONSTRUCTION AIR QUALITY PERMIT APPLICATION AND DRAFT PERMIT

The South Dakota Department of Environment and Natural Resources (DENR) received and reviewed the application for a Prevention of Significant Deterioration pre-construction air quality permit for the following applicant:

APPLICANT NAME: Basin Electric Power Cooperative  
Deer Creek Station Unit #1

FACILITY LOCATION: 6 miles southeast of White, South Dakota

Basin Electric Power Cooperative (BEPC) has proposed to construct and operate the Deer Creek Station Unit #1 in Brookings County. The proposed facility will be located six miles southeast of White, South Dakota. The Deer Creek generating station will consist of a natural gas-fired combustion turbine and heat recovery steam generator capable of providing approximately 300 megawatts of electricity. The facility will also include an air inlet heater, emergency diesel generator, and fire water pump. The purpose of a Prevention of Significant Deterioration pre-construction air quality permit is to ensure that emissions from a proposed project will not degrade the air quality beyond increments allowed by state and federal air quality regulations and that the air quality will continue to fully comply with all National Ambient Air Quality Standards that have been established to protect public health and the environment.

The proposed Deer Creek Station will increase air emissions of particulate matter, nitrogen oxides (NO<sub>x</sub>), and carbon monoxide. As one component of the Prevention of Significant Deterioration air quality permit application, BEPC modeled the increased particulate matter, nitrogen oxide, and carbon monoxide emissions to ensure the National Ambient Air Quality Standards will continue to be maintained. The results of the modeling demonstrate that after the Deer Creek Station is operational, the federal National Ambient Air Quality Standards for particulate, nitrogen dioxide, and carbon monoxide will continue to be maintained. The modeled concentrations do not exceed the significant modeling impact levels or de minimis monitoring concentrations for any pollutant or averaging period. Therefore, no further modeling was required for NAAQS or PSD increment review for these pollutants.

The federal Prevention of Significant Deterioration air quality permit program also allows air emissions to increase up to allowable increments in Class I areas. There are two Class I areas in South Dakota; namely the federal Badlands National Park and Wind Cave National Park. The Deer Creek Station is more than 300 kilometers from any Class I area. Therefore, no Class I area modeling analysis was required.

DENR's review of this project indicates Basin Electric Power Cooperative can construct and operate the Deer Creek Station in compliance with the state and federal air quality requirements established to protect public health and the environment. Therefore, DENR drafted a Prevention of Significant Deterioration air quality permit with conditions to ensure compliance with the

state Air Pollution Control Act - SDCL 34A-1 and the federal Clean Air Act. Any person desiring to comment on DENR's draft permit must submit written comments to the address below. Comments must be received by DENR within 30 days of the publication date of this public notice and may be directed to the following mailing address:

Department of Environment and Natural Resources  
PMB 2020, Air Quality Program  
523 East Capitol, Joe Foss Building  
Pierre, SD 57501

Copies of DENR's draft permit, DENR's statement of basis, and BEPC's application are available at the above address or by contacting Marlys Heidt, Natural Resources Project Engineer, at the same address or by telephone at (605) 773-3151. Copies are also available on DENR's air quality website at <http://denr.sd.gov/des/aq/aapubnot.aspx>. Copies of the complete BEPC air quality permit file are available at the above address or at:

1. DENR's Basin Deer Creek Station website – <http://denr.sd.gov/BasinDeerCreek.aspx>; and
2. Department of Environment and Natural Resources (Watertown Office)  
913 5<sup>th</sup> Street SE  
Watertown, SD 57201-5134

DENR will consider and address all comments submitted and issue a final permit decision within 30 days of the end of the public comment period. DENR will notify the applicant and each person who submitted written comments or requested notice of DENR's final permit decision, including notification of any changes to the permit based on the comments.

Any person desiring to contest the issuance of this permit and have a contested case hearing in front of the Board of Minerals and Environment must file a petition which complies with ARSD 74:09:01:01. This petition must be filed either within 30 days of this public notice or, if that person submits comments on DENR's draft permit pursuant to the paragraph above, within 30 days of receiving notice of DENR's final permit decision. If a petition for a contested case hearing is received, DENR will schedule this matter for a contested case hearing before the Board of Minerals and Environment. If no comments or objections are received within the specified 30 day periods, the draft permit becomes the final permit decision and the permit will be issued.

  
Steven M. Pinner, Secretary  
Department of Environment and Natural Resources