

**NOTICE OF APPLICATION
FOR
TITLE V AIR QUALITY OPERATING PERMIT**

The South Dakota Department of Environment and Natural Resources (DENR) has received and reviewed the application for a renewal of the Title V air quality operating permit for the following applicant:

APPLICANT NAME: Broin Enterprises, Inc. d.b.a. Poet Research Center
FACILITY LOCATION: Scotland, South Dakota

The Title V air quality operating permit will allow the operation of the following processes and units:

- #1 Grain receiving, grain transfer, and storage bin loading operating at 100 tons of grain per hour
- #3 Germ and fiber fractionation system operating at 15 tons of grain per hour. A separate baghouse controls emissions from each system.
- #4 Fiber and germ conveyor system operating at 2.3 tons of fiber and/or germ per hour. Emissions are controlled by a baghouse.
- #5 Fluid bed germ dryer and cooler system operating at 1.3 tons of dried germ per hour and fired with natural gas. A multicyclone collects the dried germ.
- #6 Grain milling. A 2003 Roskamp Champion hammer mill operating at 15 tons of grain per hour. Emissions are controlled by a baghouse.
- #7 Grain milling. A 1998 Bliss hammer mill, model # 2636 operating at 12 tons of grain per hour. Emissions are controlled by a baghouse.
- #8 Fermentation system operating at 42 tons of corn mash, yeast, and/or water per hour. Emissions are controlled by a wet scrubber.
- #9 Pilot plant fermentation system operating at 9 tons of corn mash, yeast, and/or water per hour. Emissions are controlled by a wet scrubber.
- #10 Carbon dioxide recovery system.
- #11 Distillation process operating at 31 tons of beer (ethanol, mash, and/or water) per hour. Emissions are controlled by a wet scrubber.
- #12 A natural gas fired rotary drum dryer operating at 4.5 tons of dried distillers grain per hour and 17 million Btus per hour heat input.
- #13 Dried distillers grain cooling drum operating at 4.5 tons of dried distillers grain per hour.
- #14 Dried distillers grain shipping.
- #15 Ethanol truck and railcar loadout(s) operating at 24,000 gallons per hour
- #16 Seven industrial cooling towers
- #17 Boiler #1 – 1977 Cleaver-Brooks steam boiler, fired with natural gas and propane. 29.3 million Btus per hour heat input
- #18 Boiler #2 – 2003 Superior Boiler Works steam boiler, fired with natural gas and propane. 29.3 million Btus per hour heat input
- #25 Cellulose receiving, cellulose transfer, and storage silo loading operating at 20 tons of cellulose per hour

- #28 Cellulose pretreatment and fermentation operating at 195 pounds of cellulose/fiber solids mix per hour. Emissions are controlled by a wet scrubber
- #31 Pneumatic Conveyance System operating at 0.5 tons fiber per hour. Emissions are controlled by a baghouse.
- #32 Natural gas fired fiber dryer operating at 2.5 million Btus per hour. Emissions are controlled by a baghouse.
- #33 Surge bin operating at 0.3 tons fiber per hour. Emissions are controlled by a baghouse.
- #34 Fiber mill and packaging system operating at 0.3 tons fiber per hour. Emissions are controlled by a baghouse.

A review of this application indicates Poet Research Center can operate the ethanol production facility in compliance with South Dakota's Air Pollution Control rules and the federal Clean Air Act. DENR, therefore, recommends that the Board of Minerals and Environment issue a renewal of Poet Research Center's Title V air quality operating permit with conditions to ensure compliance with South Dakota Codified Laws (SDCL) 34A-1 and the federal Clean Air Act.

In accordance with the Administrative Rules of South Dakota (ARSD) 74:36:05:17, any person desiring to comment on DENR's draft permit conditions must submit written comments to the address below by close of business on the thirtieth day of this public notice. Comments may be directed to the following mailing address: Keith Gestring; PMB 2020; Department of Environment and Natural Resources; Division of Environmental Services; 523 East Capitol, Pierre, South Dakota 57501. DENR will consider and address all comments submitted and issue a final permit decision pursuant to ARSD 74:36:05:18. DENR will notify the applicant and each person that requested notice or submitted written comments 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 must file a petition, which complies with ARSD 74:09:01:01. This petition must be filed either by close of business on the thirtieth day of this public notice or, if that person submits comments on DENR's draft permit pursuant to the paragraph above, within thirty days of receiving notice of DENR's final permit decision. Upon receipt of a petition, DENR will schedule this matter for a contested case hearing before the Board of Minerals and Environment.

If no comments or objections are received by close of business on the thirtieth day of this public notice, the draft permit becomes the final permit decision and the proposed permit will be submitted to EPA for review. Copies of DENR's draft permit conditions and other information may be obtained from Keith Gestring, Engineer at the above address or telephone at (605) 677-6165 or from DENR's website at:

<http://denr.sd.gov/des/aq/aapubnot.aspx>



Steven M Pirner, Secretary
Department of Environment and Natural Resources

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