

combustion for power generation include: (1) Novel active and passive treatment technologies to address acid mine drainage; (2) innovative solutions to restoring abandoned mine lands to enhance watersheds; (3) improved intake and outflow structures for cooling water; (4) novel uses for waste heat from power plant cooling; (5) advanced water-related sensors and controls at power plants to minimize adverse impacts to water quality; (6) novel treatment techniques for scrubber wastewater; and (7) novel techniques for reducing coal-washing waste and ash pond runoff.

#### Focus Area 6.0: Simulation of CO<sub>2</sub>-Brine-Mineral Interactions

One strategy under evaluation to mitigate increasing atmospheric concentrations of CO<sub>2</sub> is to inject it into geological formations such as deep saline aquifers. When CO<sub>2</sub> is injected into brine formations it can be trapped by several mechanisms. The CO<sub>2</sub> can react with the host rock and/or brine to form mineral carbonates (mineral trapping) or it can become dissolved in and react with the slow moving basal brine (hydrodynamic trapping) to form carbonic acid and its dissociation products. Mineral trapping is the preferred storage mechanism. In order to begin to evaluate the feasibility of geological sequestration in deep saline aquifers the thermodynamic and kinetic properties of the H<sub>2</sub>O-CO<sub>2</sub>-NaCl system must be known in order to simulate chemical reactions in these complex systems. These properties are not only critical for the interpretation of laboratory experiments, but also to field scale tests, and reservoir scale simulation. Most simulations of these systems use an equation of state (EOS) to describe the properties of the H<sub>2</sub>O-CO<sub>2</sub>-NaCl system. The thermodynamic properties for gas-liquid-salt systems can be described by EOS, which describes the quantitative relationships between intensive parameters of a system (e.g., T, P) and extensive parameters (e.g., volume, mass). Consequently, research directed toward evaluation of the ability of existing EOS to accurately estimate the properties of this system is of interest to the U.S. DOE.

Grant applications directed toward critical evaluation of the ability of existing equations of state (EOS) to predict the properties of the H<sub>2</sub>O-CO<sub>2</sub>-NaCl system at temperatures up to 200 C and pressures up to 500 atmospheres are sought. A comparison of the ability of existing EOS to describe the properties of the system under these conditions is needed. An estimation of

the deviation between properties predicted using various EOS found in the literature with measured values under a wide range of temperature and pressure must be included. Based upon the results of this evaluation of existing EOS, the researchers may decide to develop a new EOS as part of the application.

#### Focus Area 7.0: CO<sub>2</sub> Separation From Coal Gasification Process

Separation of CO<sub>2</sub> from coal derived synthesis gas for capture and sequestration is a key technology in the reduction of greenhouse gases emissions to the environment. If required today, existing technologies, such as Rectisol and Selexol, can be applied to capture CO<sub>2</sub>; however, such applications require expensive solvent and operate at less than 40°C, imparting a severe energy penalty on the system. The following CO<sub>2</sub> separation technologies are being investigated in existing projects: production of carbon dioxide hydrates, dry scrubbing processes with regenerable sorbents, and membrane separation (dense ceramic and polymer). Applications are invited that incorporate "outside-the-box" approaches to the separation of CO<sub>2</sub> from the coal gasification process. As this would be the first step toward a completely novel approach, applications comprising literature studies, theoretical approaches and/or modeling analysis, etc. would be expected. The goal of this work would be to find an approach that:

1. Does not require expensive/proprietary solvents or cool temperatures.
2. Is not already being considered by existing projects.
3. Minimizes the cost of CO<sub>2</sub> separation.

Technologies that produce both high-pressure hydrogen and CO<sub>2</sub> (in separate streams) are preferred.

#### UCR IC Phase II Program

The goal of the Phase II Program, the principal R&D effort of the IC Program, is to solicit research that augments research previously funded through the Phase I Program. Only recipients receiving a Phase I grant awarded in fiscal year 2001 will be eligible to submit an application for continuation of their Phase I projects. The maximum DOE funding for each Phase II award under the IC Program is \$200,000 and will require a 36-month performance period. Its anticipated that institutions submitting an application with approaches that appear sufficiently promising from the Phase I efforts could receive a Phase II award in 2003.

Applications will be accepted in the following focus areas:

Focus Area 1.0 Advanced Sensors for Vision 21 Systems

Focus Area 2.0 Carbon Sequestration

Focus Area 3.0 Mercury and Other Emissions in Advanced Power Systems

Focus Area 4.0 Thermodynamics Measurement for Mixture of Asymmetric Hydrocarbons

Issued in Pittsburgh, PA on October 16, 2002.

**Dale A. Siciliano,**

*Acting Director, Acquisition and Assistance Division.*

[FR Doc. 02-27208 Filed 10-24-02; 8:45 am]

**BILLING CODE 6450-01-P**

## DEPARTMENT OF ENERGY

### Federal Energy Regulatory Commission

[Docket No. RP02-495-001]

#### Algonquin LNG, Inc.; Notice of Compliance Filing

October 18, 2002.

Take notice that on October 11, 2002, Algonquin LNG, Inc. (ALNG) tendered for filing as part of its FERC Gas Tariff, First Revised Volume No. 1, Sub Seventh Revised Sheet No. 83, to be effective October 1, 2002.

ALNG states that it is making this filing pursuant to a letter order issued by the Commission in the captioned docket on September 26, 2002. The September 26 order conditionally accepted tariff sheets filed with ALNG's initial compliance filing for implementation of Order No. 587-O, subject to ALNG filing certain explanations. This filing includes the requested explanations and a revised tariff sheet that reflects modifications in accordance with the September 26 order.

ALNG states that copies of its filing have been mailed to all affected customers, state commissions and parties on the Commission's official service list in this proceeding.

Any person desiring to protest said filing should file a protest with the Federal Energy Regulatory Commission, 888 First Street, NE., Washington, DC 20426, in accordance with section 385.211 of the Commission's Rules and Regulations. All such protests must be filed in accordance with Section 154.210 of the Commission's Regulations. Protests will be considered by the Commission in determining the appropriate action to be taken, but will

not serve to make protestants parties to the proceedings. This filing is available for review at the Commission in the Public Reference Room or may be viewed on the Commission's Web site at <http://www.ferc.gov> using the "FERRIS" link. Enter the docket number excluding the last three digits in the docket number field to access the document. For Assistance, call (202)502-8222 or for TTY, (202) 502-8659. The Commission strongly encourages electronic filings. See, 18 CFR 385.2001(a)(1)(iii) and the instructions on the Commission's Web site under the "e-Filing" link.

**Linwood A. Watson, Jr.,**  
*Deputy Secretary.*

[FR Doc. 02-27289 Filed 10-24-02; 8:45 am]  
BILLING CODE 6717-01-P

## DEPARTMENT OF ENERGY

### Federal Energy Regulatory Commission

[Docket No. RP03-24-000]

#### Algonquin LNG, Inc.; Notice of Proposed Changes in FERC Gas Tariff

October 18, 2002.

Take notice that on October 15, 2002, Algonquin LNG, Inc. (ALNG) tendered for filing as part of its FERC Gas Tariff, First Revised Volume No. 1 and Original Volume No. 2 the following tariff sheets to become effective on October 15, 2002:

#### First Revised Volume No. 1

Second Revised Sheet No. 1  
First Revised Sheet No. 74C  
First Revised Sheet No. 75

#### Original Volume No. 2

First Revised Sheet No. 1

ALNG proposes to cancel its FERC Gas Tariff Original Volume No. 2 in its entirety and to update its FERC Gas Tariff, Volume No. 1 by making minor non-substantive tariff revisions.

ALNG states that copies of this filing were served on all affected customers of Maritimes and interested state commissions.

Any person desiring to be heard or to protest said filing should file a motion to intervene or a protest with the Federal Energy Regulatory Commission, 888 First Street, NE., Washington, DC 20426, in accordance with Sections 385.214 or 385.211 of the Commission's Rules and Regulations. All such motions or protests must be filed in accordance with section 154.210 of the Commission's Regulations. Protests will be considered by the Commission in determining the appropriate action to be

taken, but will not serve to make protestants parties to the proceedings. Any person wishing to become a party must file a motion to intervene. This filing is available for review at the Commission in the Public Reference Room or may be viewed on the Commission's Web site at <http://www.ferc.gov> using the "FERRIS" link. Enter the docket number excluding the last three digits in the docket number field to access the document. For Assistance, call (202)502-8222 or for TTY, (202) 502-8659. Comments, protests and interventions may be filed electronically via the Internet in lieu of paper. The Commission strongly encourages electronic filings. See, 18 CFR 385.2001(a)(1)(iii) and the instructions on the Commission's Web site under the "e-Filing" link.

**Linwood A. Watson, Jr.,**  
*Deputy Secretary.*

[FR Doc. 02-27291 Filed 10-24-02; 8:45 am]  
BILLING CODE 6717-01-P

## DEPARTMENT OF ENERGY

### Federal Energy Regulatory Commission

[Docket No. RP02-430-001]

#### ANR Pipeline Company; Notice of Compliance Filing

October 17, 2002.

Take notice that on October 11, 2002, ANR Pipeline Company (ANR), tendered for filing as part of its FERC Gas Tariff, Second Revised Volume No. 1, the tariff sheets listed in Appendix A attached to the filing, with an effective date of October 1, 2002.

ANR states that these tariff sheets are being filed in compliance with the Commission's Letter Order dated September 27, 2002.

Any person desiring to protest said filing should file a protest with the Federal Energy Regulatory Commission, 888 First Street, NE., Washington, DC 20426, in accordance with section 385.211 of the Commission's Rules and Regulations. All such protests must be filed in accordance with Section 154.210 of the Commission's Regulations. Protests will be considered by the Commission in determining the appropriate action to be taken, but will not serve to make protestants parties to the proceedings. This filing is available for review at the Commission in the Public Reference Room or may be viewed on the Commission's Web site at <http://www.ferc.gov> using the "FERRIS" link. Enter the docket number excluding the last three digits in the docket

number field to access the document. For Assistance, call (202) 502-8222 or for TTY, (202) 502-8659. The Commission strongly encourages electronic filings. See, 18 CFR 385.2001(a)(1)(iii) and the instructions on the Commission's Web site under the "e-Filing" link.

**Linwood A. Watson, Jr.,**  
*Deputy Secretary.*

[FR Doc. 02-27057 Filed 10-24-02; 8:45 am]  
BILLING CODE 6717-01-P

## DEPARTMENT OF ENERGY

### Federal Energy Regulatory Commission

[Docket No. RP02-424-001]

#### ANR Storage Company; Notice of Compliance Filing

October 18, 2002.

Take notice that on October 11, 2002, ANR Storage Company (ANR Storage), tendered for filing as part of its FERC Gas Tariff, Original Volume No. 1, the tariff sheets listed in appendix A to the filing, with an effective date of October 1, 2002.

ANR Storage states that these tariff sheets are being filed in compliance with the Commission's Letter Order dated September 27, 2002.

Any person desiring to protest said filing should file a protest with the Federal Energy Regulatory Commission, 888 First Street, NE., Washington, DC 20426, in accordance with section 385.211 of the Commission's Rules and Regulations. All such protests must be filed in accordance with section 154.210 of the Commission's Regulations. Protests will be considered by the Commission in determining the appropriate action to be taken, but will not serve to make protestants parties to the proceedings. This filing is available for review at the Commission in the Public Reference Room or may be viewed on the Commission's Web site at <http://www.ferc.gov> using the "FERRIS" link. Enter the docket number excluding the last three digits in the docket number field to access the document. For Assistance, call (202)502-8222 or for TTY, (202) 502-8659. The Commission strongly encourages electronic filings. See 18 CFR 385.2001(a)(1)(iii) and the instructions on the Commission's Web site under the "e-Filing" link.

**Linwood A. Watson, Jr.,**  
*Deputy Secretary.*

[FR Doc. 02-27280 Filed 10-24-02; 8:45 am]  
BILLING CODE 6717-01-P