

structural and thermodynamic properties of glass (including the metastable and energetics of stable and metastable phases), systematic irradiation studies that will simulate long-term self-irradiation doses and spectra (including archived glasses containing Pu or Cm, and over the widest range of dose, dose rate and temperature) and predictive theory and modeling based on computer simulations (including ab initio, Monte Carlo, and other methods).

Some examples of specific science research challenges include but are not limited to: fundamental chemical studies needed to determine species concentrations above molten glass solutions containing heavy metals, cesium, strontium, lanthanides, actinides, with and without a cold cap composed of unmelted material; materials science studies of molten materials that simulate conditions anticipated during vitrification and storage in vitrified form of HLW needed to develop improved processes and formulations; fundamental physical chemistry studies of sodium nitrate/nitrite mixtures needed for HLW stabilization.

References for Background Information

Note: World Wide Web locations of these documents are provided where possible. For those without access to the World Wide Web, hard copies of these references may be obtained by writing Mark A. Gilbertson at the address listed in the **FOR FURTHER INFORMATION CONTACT** section.

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"Radiation Effects in Glasses Used for Immobilization of High-Level Waste and Plutonium Disposition", W. J. Weber, R. C. Ewing, C. A. Angell, G. W. Arnold, A. N. Cormack, J. M. Delaye, D. L. Griscom, L. W. Hobbs, A. Navrotsky, D. L. Price, A. M. Stoneham, and M. C. Weinberg, *J. Mater. Res.*, Vol. 12, No. 8, August 1997, pp. 1946-1978.

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The Catalog of Federal Domestic Assistance Number for this program is 81.049, and the solicitation control number is ERFAP 10 CFR Part 605.

Issued in Washington, DC, December 24, 1997.

Ralph H. DeLorenzo,

Acting Associate Director for Resource Management, Office of Energy Research.
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DEPARTMENT OF ENERGY

Federal Energy Regulatory Commission

[Docket No. RP97-63-007]

Colorado Interstate Gas Company; Notice of Tariff Compliance Filing

December 29, 1997.

Take notice that on December 22, 1997, Colorado Interstate Gas Company (CIG), tendered for filing to become part of its FERC Gas Tariff, First Revised Volume No. 1, Substitute Third Revised Sheet No. 230A to be effective November 1, 1997.

CIG states that the purpose of this compliance filing is to comply with the order issued October 31, 1997 in Docket No. RP97-63-006, to reflect the language in GISB Standard 1.3.30 regarding zones.

Any person desiring to protest this filing should file protest with the Federal Energy Regulatory Commission, 888 First Street, N.E., Washington, D.C. 20426, in accordance with Section 385.211 of the Commission's Regulations. All such protests must be filed as provided in 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 proceeding. Copies of this filing are on file with the Commission and are available for public inspection in the Public Reference Room.

Lois D. Cashell,

Secretary.

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