S. Department of Commerce
Malcolm Baldrige
Secretary

National Bureau of Standards
Ernest Ambler, Director

National Bureau of Standards

Certificate of Analysis

Standard Reference Material 1621c

Sulfur in Residual Fuel Oil

Sulfur Concentration .....1.040 ± 0.015 weight percent

This Standard Reference Material (SRM) is intended for use as an analytical standard for the determination of total sulfur in fuel oils or materials of similar matrices. SRM 1621c is a commercial "No. 6" residual fuel oil as defined by the American Society for Testing and Materials (ASTM).

Sulfur concentration was certified using data from two independent methods of analysis at NBS, ion chromatography and thermal ionization mass spectrometry, as well as data obtained from four commercial laboratories. The uncertainty is ± two standard deviations of the certified value. The uncertainty includes observed variability within and between measurement methods.

Analyses for certification were performed by L.A. Holland, W.R. Kelly and W.F. Koch of the Inorganic Analytical Research Division.

The statistical analysis of the certification data was performed by R.C. Paule of the National Measurement Laboratory.

The overall direction and coordination of the technical measurements leading to certification were performed under the chairmanship of J.R. DeVoe, Chief of the Inorganic Analytical Research Division.

The technical and support aspects involved in the preparation, certification, and issuance of this Standard Reference Material were coordinated through the Office of Standard Reference Materials by T.E. Gills.

September 15, 1986
Gaithersburg, MD 20899

Stanley D. Rasberry, Chief
Office of Standard Reference Materials