**Melting Glass For Fiber Drawing**

**Objective**
To heat a metal susceptor vessel to 2200°F within 25 minutes for a fiberglass melting application.

**Material**
Metal susceptor vessel

**Temperature**
2200°F

**Frequency**
300 kHz

**Equipment**
Ameritherm Nova Star 20 kW RF power supply, remote heat station and a specially-designed induction coil.

**Process**
A specially-designed induction coil, shaped to conform to the metal vessel, was used to deliver uniform heat to the vessel. Initial tests were conducted to establish a heating pattern and time-to-temperature. RF power was applied for 22 minutes and the vessel reached a temperature of 2,200°F. An additional 3kW power supply was suggested for use when the glass in the vessel is emptied through the drain tube.

**Results**
Uniform and repeatable results were achieved with the Ameritherm power supply and coil. The vessel can be maintained at 2200°F so that glass can be melted for fiber drawing.