

RADIATION, INC.
Melbourne, Florida

FOR IMMEDIATE RELEASE

Despite the fact that "state-of-the-art" advancements were involved, Radiation, Inc., successfully conducted a "crash" program for the design and fabrication of two complete multi-frequency, multi-polarized antenna feed systems to support communications with Explorer VI. Delivered in less than three months from contract award date were systems for use with Radiation's 60-foot parabolic antenna located at South Point, Hawaii, and a huge 250-foot radio telescope at Jodrell Bank, Manchester, England.

Briefly, specification requirements called for simultaneous operation in four frequency bands ranging from 100 to 1000 MC. Two of the frequency ranges required both linear and circular polarization coverage with remote switching, while the remaining two required circular polarization only. A high-power transmitting capability was required at two frequencies and a filter system was developed to provide adequate isolation on one receiving channel.

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