

**NATIONAL RADIO ASTRONOMY OBSERVATORY
Charlottesville, Virginia**

January 17, 1984

TO: H. Hvatum

FROM: B. Peery

SUBJECT: Site Requirements

The following values are estimated requirements for remote VLBA sites. These values or figures might vary from site to site and will not be firm until final design of all equipment is complete.

Land: Approximately 1 1/2 acres-fenced.
Control Building: Approximately 1,400 square feet
Electric heat and air conditioning
One toilet
No sleeping or cooking facilities
Remotely Operated: No personnel present most of the time,
one or two technicians will visit at
various times for 4 to 8 hours to change
tapes and routine maintenance.
Electricity: Approximately 90 kw demand-35,000 kwhr/month
Auxiliary Generator: 45 kVA-for use during commercial
power failure.
Telephone: 3 digital grade services
Water: Approximately 750 gallon/month
Sanitary Facilities: Septic tank and drain field
Telescope: 25 meter-Wheel and Track El.-Az.
Approximately 200 tons
Painted white-No radome
Track and foundation approximately 55 feet
diameter
Height: zenith position approximately 115
feet
Frequency: .325 MHz → 43 GHz
Elevation: High as possible to be above inversion layer
(low water vapor)
Horizon: Less than 5° down to 0° where possible.