

VLB ARRAY MEMO No. 514

VLBA Electronics Memo No. 57

NATIONAL RADIO ASTRONOMY OBSERVATORY  
Charlottesville, Virginia

(851209)

December 9, 1985

To: VLBA Electronics Group  
From: Dick Thompson  
Subject: VLBA Electronics Meeting, December 5, 1985  
Attendees: Balister, Bradley, D'Addario, Dill, Greenberg,  
Koski, Mauzy, Norrod, Schlecht, Srikanth,  
C. Walker, L. Walker, Weber.

The meeting this month dealt with two principal topics, the layout of the vertex room and feed cone, and the packaging of electronics.

New drawings of the feed ring layout by Larry Walker were available, and were discussed mainly in connection with the height of the feed cone floor. No definite conclusion was reached, but it was recommended that the floor should not be too high: possibly at about the level of the base of the feed cone. If support structure can be designed that will allow the height to be finalized after the feed cone/vertex room mockup has been made, it will simplify the decision. The question of whether the feed cone floor should be solid, to prevent air flow, was also brought up. Should the feed cone have a separately controlled temperature system, or should it be regarded as an extension of the vertex room? The question of the structural material of the feed cone, aluminum or steel, must also be decided.

Larry D'Addario summarized his current conclusions on connectors for electronics packaging. The OSP type are the preferred ones for all high frequency signals for which phase stability is important. Further details can be found in an updated version of Larry's file CVAX:UMA3:[LARRY]STANDARDS.TXT.

Wayne Koski requested information on numbers and types of monitor-and-control interface cards required for the first antenna.