

NATIONAL RADIO ASTRONOMY OBSERVATORY  
Charlottesville, Virginia

September 16, 1987

To: VLBA Electronics Division

From: A. R. Thompson

Subject: Nomenclature Changes

The designation of the four VLBA IF channels as A, B, C and D is defined in the system block diagram (drawing number D58001K001), sheet 1, lower right corner. The assignment of the letters will now be changed, so that IF channels associated with the type-N connectors on the lower connector bracket of Rack B (IF/LO Rack) are as follows: N30 is channel A, N31 is channel B, N32 is channel C, N33 is channel D. With this assignment, channels A and B will carry signals of right circular polarization, and channels C and D those of left circular polarization, when the IF transfer switches in the converter modules are in the normal position. The polarization convention will then be the same as for the VLA, in which IF channels A and B are right circular, and C and D are left circular, when transfer switches are in the normal position.

In the block representing T102 (610 MHz Filter) in the system block diagram, four single-pole, double throw switches are shown, which are presently unnumbered. These will now be numbered as follows: top left, S102C; top right, S102D; bottom left, S102A; bottom right, S102B. Thus switches S102A/B will control the filter for the right circular channel, and S102C/D will control the filter for the left circular channel.

The above changes are incorporated in the latest version of the system block diagram (revision H, 9/15/87). Durga Bagri has undertaken to see that the four type N connectors (nos. 30-33) on the three B racks (serial nos. 1-3) are correctly labeled, and to check the connection of the four IF cables on the Pie Town antenna. Gene Spaulding should make any necessary changes in the Rack-B documentation. Ron Heald will take care of any software changes.