Proposed VLA-VHF receiver system

Staffing

Requirements at SAO Receiver Lab (Design, Construction, Testing)

Engineers and Technicians: (3) E. Tong, R. Kimberk, S. Leiker
Students: (1) doctoral (BU) with experience building the Haystack 327 MHz array;
   additional students with engineering background as required/available

Requirements at NRAO

One SAO staff member (Kimberk or Leiker, alt. Barrett) is available on a rotating basis
to support activities at the VLA site as needed during the testing phases of the program.

Single dish activities
Installation/testing unit 1

1. Checkout after delivery: 1 engineer-day
   1 SAO staff-day
2. Prep/plan installation: 1 engineer-day
   1 SAO staff-day
3. Adjs. to online system: 0.5 person-day
4. Installation: 2 FE technician-days
   2 antenna technician-days (cherry picker)
   SAO staff
5. Testing: 1.5 Carilli-weeks
   4 Perley-days
   2 Greenhill-weeks (on site as required/practical)

Single baseline activities
Installation/testing unit 2

1. Checkout after delivery: done in parallel with unit 1
2. Installation: 1 FE technician-day
   2 antenna technician-day (cherry picker)
   1 SAO staff-day
3. Correlator: 1 s/w engineer-day (contingency)
4. Testing: 1 Carilli-week
   2 Perley-days
   1 Greenhill-week (on site as required/practical)
Sub-array (4 antenna) activities
Installation/testing units 3 & 4

1. Checkout after delivery: 0.3 engineer-day
   0.3 SAO staff-day

2. Installation: 2 FE technician-days
   2 antenna technician-days (cherry picker)
   2 SAO staff-days

3. Correlator: 0.5 s/w engineer-day (contingency)

4. Testing: 2 Carilli-weeks
   4 Perley-days
   1 SAO staff-week

Full array deployment
Full installation over ~ 5 months in preparation for 2005 D-configuration.

1. Checkout after delivery: 8 engineer-days
   8 SAO staff-days

2. Installation: 14 FE technician-days
   14 antenna technician-days (cherry picker)

3. Testing: 1 Carilli-month
   1 Perley-week
   1 SAO staff-month