



BASIC OPERATION . . .

- 1) The SSDS is capable of receiving external switching signals from another backend to which VEGAS is to be "slaved" (and synchronized) for simultaneous observations
- 2) The SSDS conditions the external switching signals (if present) and transmits them to ROACH #1 (the Switching Master ROACH)
- 3) The Switching Master Roach re-synchronizes the external switching signals (if present) and transmits them back to the SSDS
- 4) If no external switching signals are present, the Switching Master ROACH provides its own internally-generated switching signals and transmits them back to the SSDS
- 5) The Switching Master ROACH exerts either its "EXTERNAL" output or its "INTERNAL" output to illuminate a corresponding LED on the SSDS's front panel
- 6) The switching signals sent back from the Master Switching ROACH are then distributed to all other ROACHes, to the "PLANT" (i.e., receivers, LOs, etc.), along with any other backends which may be "slaved" to VEGAS

NATIONAL RADIO ASTRONOMY OBSERVATORY GREEN BANK, WV 24944			
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