#### ARRAY POWER-DOWN

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On June 26, 1979, all power to the 5-element array at Heliopolis was turned off. This glint gives details about what was turned off, and some precautionary notes about turning power back on again.

### INSIDE POWER: BUTLER BUILDING

The racks are numbered 1 (Declination readout) through 8 (computer). The suffix F and B refer to the front or the back of the rack, respectively. The following equipment was turned off and/or unplugged as appropriate.

1F: Declination Control
 H.A. Drive Select (underneath operator's console)

1B: Two black plugs (supply for above)
One white plug. NOTE: this supplies power to the synchros

2F: R.A. Control

2B: Audio Amplifier turned off Fan unplugged

3F: Temperature recorder

4F: 4 power supplies, on bottom of rack 1 power supply, upper left

5F: Battery power supply (top) turned off, and unplugged in back (from clock, plug #7)

5B: Turn off clock 6F: S-Band oscillator 300 KHz ref. oscillator (labeled 3 MHz) 28 V power supply (bottom) Diode driver (top)

7B: Noise source power supply

# OUTSIDE POWER: GROUNDBOXES AND DELAY BUILDING

In each groundbox the following three items were turned off:

Horn translator
Main Powersupply (the one with the lock indicator)
"Stabiline" regulated power supply

In the delay building the master switch was turned off, as well as the auxiliary power on top and to the left of the main circuit breaker.

## RESTORING POWER TO THE ANTENNA DRIVES AND/OR FRONT-ENDS

The main power in the delay building (with the two aux. circuit breakers) must be turned on before anything in the groundboxes is turned on. The "Stabiline" power supplies in the groundboxes supply power to the front end box; the main power supply mentioned above supplies power to the mixer and gunn diode oscillator. If the array has been powered down for a long period of time (more than 6 months) it is advisable to first check out the powersupplies. (All are sealed units except the gunn diode supply.)

The time necessary for the gunn diode oscillators to stabilize, when turned on again, is estimated to be about one day; the S-band oscillator should take even less than that.

NOTE: The IF lines (in the delay building) should be kept pressurized with nitrogen. When refilling them fill to 25 psi, and don't forget to check gauges in the back of the delay lines. Check the lines at least once a month, especially during the rainy season.