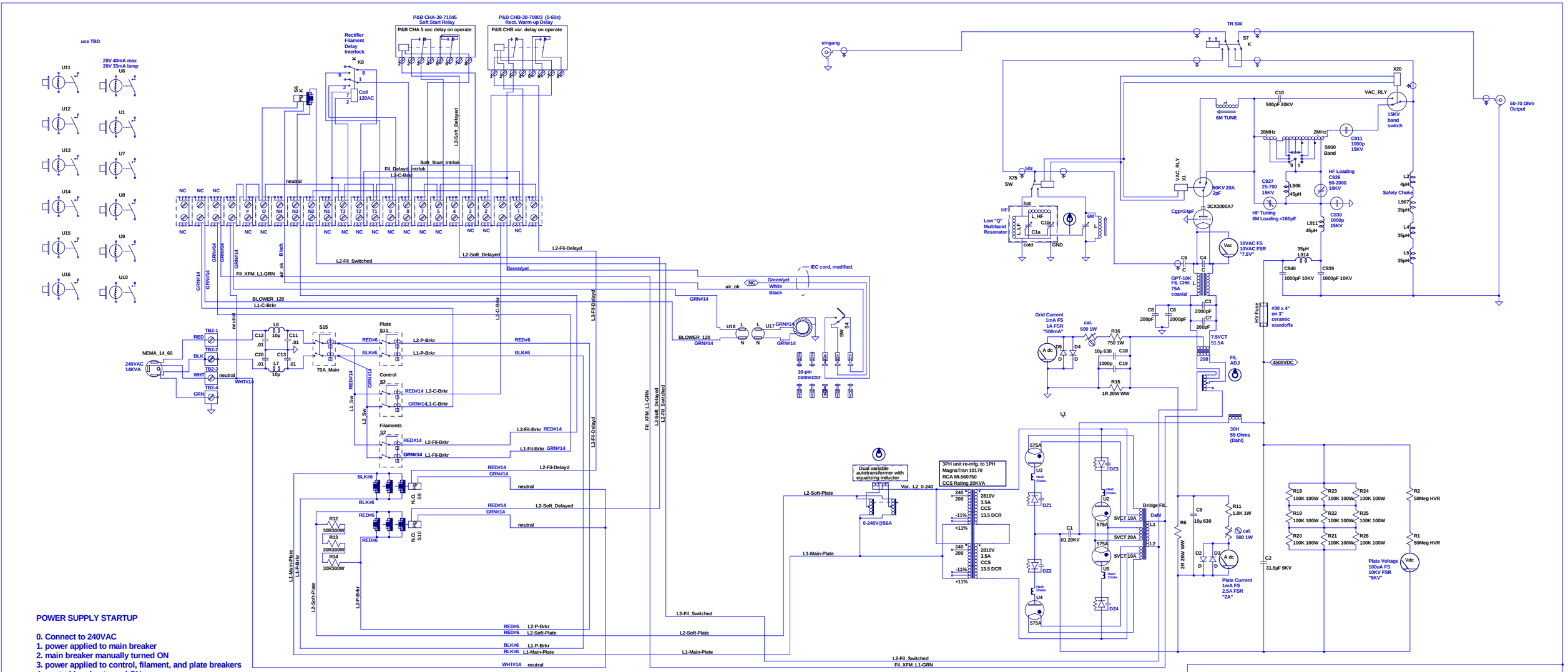

POWER SUPPLY STARTUP

0. Connect to 240VAC
1. power applied to main breaker
2. main breaker manually turned ON
3. power applied to control, filament, and plate breakers
4. control breaker turned ON
5. K8 interlock energized, blower, air switch input energized
6. Blower runs
7. Air sw closes, "air_ok" to 120VAC
8. Filament breaker manually turned ON
9. Filaments heat, filament timer starts 30 (or 60) second wait cycle to 'make'

a. 30 second delay relay ...29..30
b. Fil. timer closes contacts pins 1 and 3
c. Main plate contactor coil and soft-start timer receive 120VAC.
d. Soft-start timer begins 1-second delay to 'make' and Main plate contactor closes.
f. L2 connected to plate powerstat.
g. 1 second soft start delay finishes up ...1
h. Soft start contactor coil receives 120VAC
i. Soft-start plate contactor closes
j. soft start resistor bypassed. Full Thrust.

DZ: 40x: 400V@25A rectifier +R=470K@1W+ C=0.01uF@1KV

* RF CHOKES L906, 907, 911, 914 2.5A min. rating.
* HV GLITCH fuse = 5" #30 on 3"standoffs. ---> "HV FUSE" component.
* HASH CHOKES in MV rectifier anodes from RCA BC-5 transmitter.

3CX3000A7 Cgp = 24pF

Original pi tank from 4CX5000 @ 7500VDC 10KW HF amp.
"GPT-10K S900 PA Bandswitch" (15.23 turns total)

Switch common terminal segment shorts up to 3 sections at once as rotates.
coil segments below as n.nT (turns) and - TOTAL inductance from LF end to HF end.

2-3 MC position 1, section 1, 3.25T - 13.75 uH 2-3MHz band value
3-4 MC position 2, section 2, 3.08T - 9.75 uH
4-6 MC position 3, section 3, 2.08T - 5.85 uH
6-8 MC position 4, section 4, 2.08T - 3.75 uH
8-11 MC position 5, section 5, 1.08T - 2.25 uH
11-15 MC position 6, section 6, 1.08T - 1.5 uH
15-19 MC position 7, section 7, 1.08T - 0.95 uH
19-24 MC position 8, section 8, 1T - 0.6 uH
24-28 MC position 9, section 9, 0.5T - 0.255 uH 24-28MHz band value (the half turn)

Candelstein Radio Laboratories

NRK EMPIRE Drafting Services

Power supply----------rev20161127
Electric Brain----------rev20161127
RF Amplifier----------rev20160904
startup sequence listing:------rev20161127

2-30MHz +6 3CX3000F7 Amplifier

[] V0.020 [] 2016-11-27 []

--- C:\Users\PatrickJ\My LTSPICE Files_new-3x3K_plus6_v020.asc ---