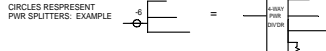


**DOWNSTAIRS IF-LO SYSTEM
FUNCTIONAL BLOCK DIAGRAM**
**PAGE 1 OF 3: POL. A SIGNAL PATHS
FIBER & HELIX INPUTS, POWER
METER 1, ALFA MONITOR**

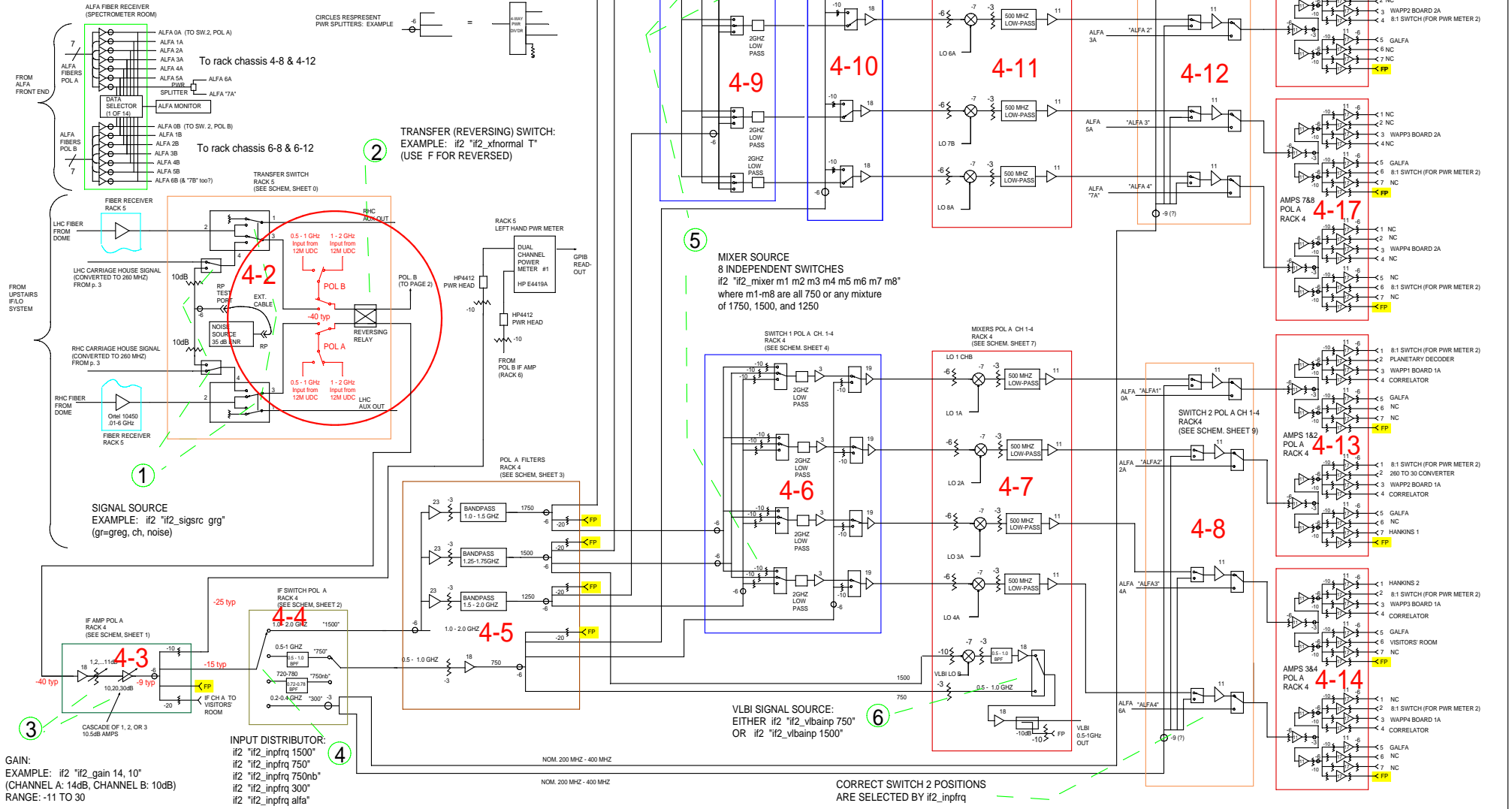
file: ifdwn1_12M.fc7
rev. APR. 7, 2005 JBH
modded 23 April 2010 DEW

NOTES

1. "FP" = FRONT PANEL
2. "RP" = REAR PANEL
3. IF AMP IS CASCADE OF 1, 2, OR 3 10dB AMPS
4. 10.5 dB AMPS: COUGAR AC2546C, 16dBb OUT @ 1dB COMP.
5. 11dB AMPS: COUGAR AC559C, 20dBm OUT @ 1dB COMP.
6. 18dB AMPS: COUGAR AC2594C, 15.5 dBm OUT @ 1 dB COMP.
7. 23 dB AMPS: MCL ZX60-2522M, 19dBm OUT @ 1 dB COMP.
8. 16 dB AMPS: MCL ZX60-2514M, 16.5dBm OUT @ 1dB COMP.
9. 13 dB AMPS: MCL ZX60-2510M, 15.5dBm OUT @ 1dB COMP.
10. 21 dB AMPS: MCL ZFL-500HLN, 17dBm OUT @ 1dB COMP.



TRANSFER (REVERSING) SWITCH:
EXAMPLE: if2 "if2_xfnormal T"
(USE F FOR REVERSED)



GAIN:
EXAMPLE: if2 "if2_gain 14, 10"
(CHANNEL A: 14dB, CHANNEL B: 10dB)
RANGE: -11 TO 30

INPUT DISTRIBUTOR:
if2 "if2_inprq 1500"
if2 "if2_inprq 750"
if2 "if2_inprq 750nb"
if2 "if2_inprq 300"
if2 "if2_inprq alfa"

MIXER SOURCE
8 INDEPENDENT SWITCHES
if2 "if2_mixer m1 m2 m3 m4 m5 m6 m7 m8"
where m1-m8 are all 750 or any mixture
of 1750, 1500, and 1250

VLBI SIGNAL SOURCE:
EITHER if2 "if2_vbainp 750"
OR if2 "if2_vbainp 1500"

CORRECT SWITCH 2 POSITIONS
ARE SELECTED BY if2_inprq