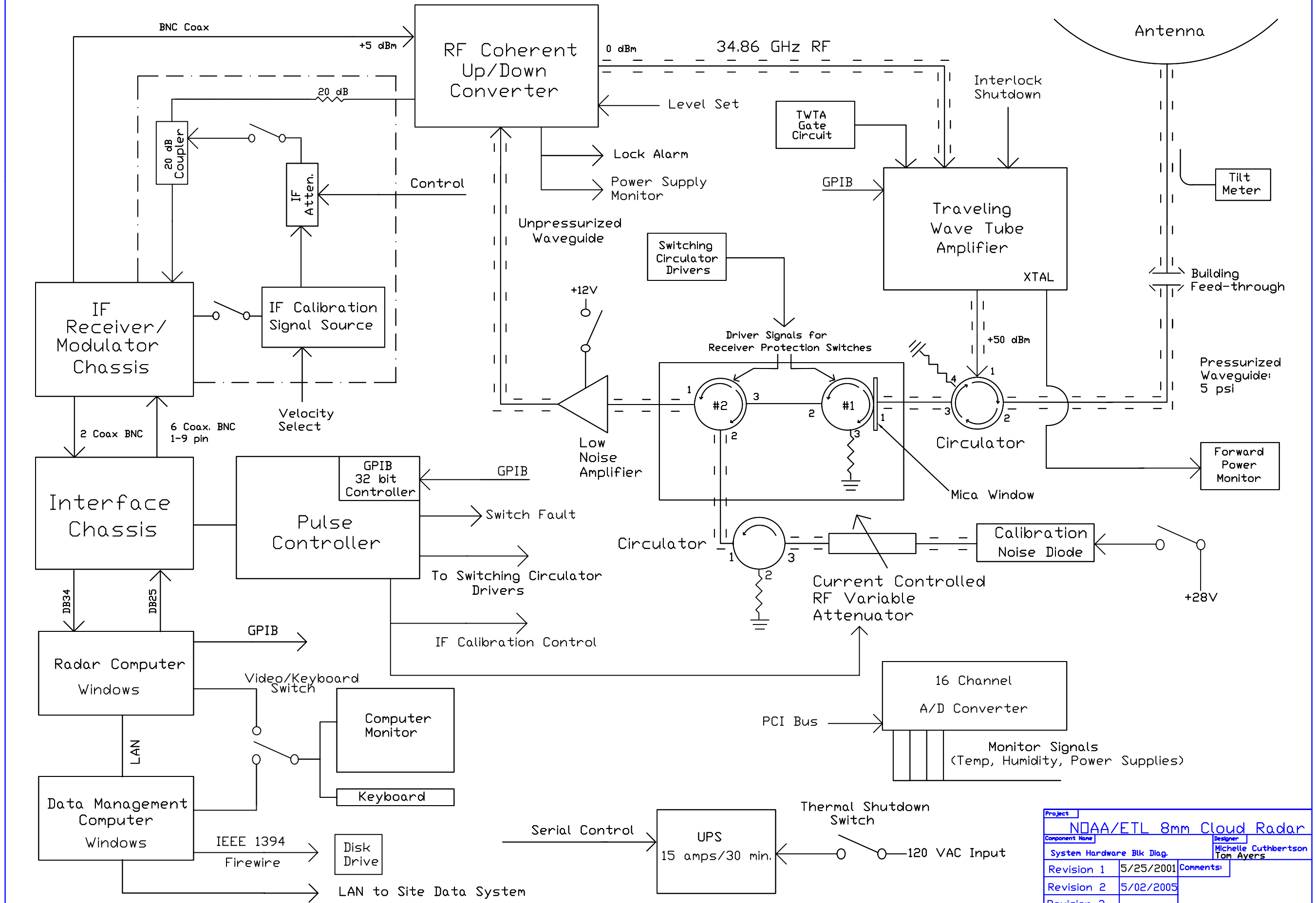
BNC Coax
+5 dBm
RF Coherent Up/Down Converter
0 dBm
34.86 GHz RF
Antenna
20 dB
Level Set
Interlock Shutdown
TWTA Gate Circuit
20 dB Coupler
IF Atten.
Control
Lock Alarm
Power Supply Monitor
GPIB
Traveling Wave Tube Amplifier
XTAL
Tilt Meter
Unpressurized Waveguide
Switching Circulator Drivers
Building Feed-through
+12V
Driver Signals for Receiver Protection Switches
+50 dBm
IF Receiver/ Modulator Chassis
IF Calibration Signal Source
Pressurized Waveguide: 5 psi
#2
#1
Velocity Select
2 Coax BNC
6 Coax, BNC 1-9 pin
Low Noise Amplifier
Circulator
Forward Power Monitor
GPIB 32 bit Controller
GPIB
Mica Window
Interface Chassis
Pulse Controller
Switch Fault
Circulator
Calibration Noise Diode
To Switching Circulator Drivers
Current Controlled RF Variable Attenuator
+28V
DB34
DB25
IF Calibration Control
GPIB
Radar Computer Windows
Video/Keyboard Switch
16 Channel A/D Converter
Computer Monitor
PCI Bus
LAN
Monitor Signals (Temp, Humidity, Power Supplies)
Keyboard
Data Management Computer Windows
Thermal Shutdown Switch
Serial Control
UPS 15 amps/30 min.
120 VAC Input
IEEE 1394 Firewire
Disk Drive
LAN to Site Data System
Project
NOAA/ETL 8mm Cloud Radar
Component Name
System Hardware Blk Diag.
Designer
Michelle Cuthbertson
Tom Ayers
Revision 1 5/25/2001
Revision 2 5/02/2005
Revision 3
Revision 4
Revision 5
Comments: