TWG System status

Software:
- Defining command sequences (IEEE-488, RS232 interfaces) to be used during system testing.

Hardware:
- Received most of the components:
  - Agilent 33250A Function/Arbitrary Waveform generator
  - Agilent 3499A Switch/Control System, 5 slot mainframe
  - Agilent 44478A, Dual 1x4 Multiplexer

- Waiting for:
  - Agilent N2272A, 1x9 RF Multiplexer Module
  Expected delivery is November 7, 2004.

Work in progress:
- System components testing and system assembly.
- Custom adapter components purchase.
- Cable/transformers testing.

TWG Documentation (including this report):
http://www-ese.fnal.gov/D0Cal_TWG/
Computer with Linux operating system. Software is required to control the Arbitrary waveform generator and the switch/control system.

**Control**
IEEE488 (GPIB, HPIB), RS232

Agilent 33250A
Function/Arbitrary Waveform Generator

1 channel, single ended
BNC terminated coax cable, Z0: 50 Ohm

Agilent 3499A Switch/Control System
Modules:
1 Agilent 2272A 1x9 Multiplexer Module
4 Agilent 44472A 1x4 Multiplexer Module

32 channels, single ended
BNC/SMA adapters
SMA terminated coax cables, Z0: 50 Ohm

Adapt the impedance from 50 Ohm to 79 Ohm and convert the signals from single ended to differential.

**Transition Module**

32 SMA connectors
RP2 connector
32 channels differential
Z0: 79 Ohm

**ADF Card**

Unit Under Test
Analog to Digital converter and Filter board.