

- 1) Supply was brought back and some testing was done by starting with the linear & lab supplies and swapping out, one at a time, each linear/lab supply with a loaded Vicor supply. The current load was set to at least 85% of rated current for each supply.
- 2) The 3.3V power supply is turning off after startup. I am currently working with a Vicor applications engineer to resolve the problem. We have determined so far the power supply is going into over-voltage protection mode and turning off. This means the problem resides in the uRAM filter unit. I have sent the Vicor Engineer documentation so he can set up his power supply to try and re-create the failure. He has successfully re-created the failure and is working with another engineer to provide a solution.
- 3) A replacement for the broken +48v converterpac is being sent to us by Vicor. The expected ship date from Vicor is 4/5/06. After I resolve the uRAM problem I will ask why the converterpac failed. I will also re-test the new converterpac.

Once the 3.3v problem is solved, I can then start evaluating what measures can be taken to bring down the noise levels. In fact solving the 3.3v problem may help us understand the noise problem better. We are going to get the test stand in a state where we can take data at a much quicker rate to allow me to try various options, like using a different type of power cable, to bring the noise levels down.

Todd Moore  
Research Engineer  
University of Illinois  
High Energy Physics Group  
1110 W. Green St.  
MC 704  
Urbana, IL 61801-9013  
ph: 217.333.4432  
fax: 217.333.4990