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1- TROUBLESHOOTING SNR PROBLEMS WITH A TNF IN THE SYSTEM

1. Set up a baseline scan using SPT SNR test. Check the TNF counter, record the count level and reset the counter.

2. Perform the baseline scan, measure and record the signal Mean.

3. Move the Enable/Disable switch to Disable and scan again.

4. Is the signal level the same? If Yes, go to step 7; if No, go to step 5.

5. Move the switch back to Enable and scan again.

6. Getting High Counts? If Yes, go to step 13; if No, go to step 7.

7. Bullet out the TNF assembly and scan again.

8. Is the signal level the same? If Yes, go to step 9; if No, go to step 10.

9. Problem is not in the TNF, go to the Image Quality Troubleshooting Flowchart, and follow the SNR path.

10. Swap TNF in/out with the adjacent channel.

11. Does the problem follow the filter? If Yes, go to step 12; if No, go to step 9.

12. Replace the TNF.

13. Troubleshoot the High Counts.

2- TROUBLESHOOTING TNF HIGH COUNT PROBLEMS (>200)

This process should be completed for each TNF channel.

1. Disconnect the Data-In Window and Receiver Unblank, then reset the counter to zero with the reset switch.

2. Is it counting? If Yes, go to step 3; if No, go to step 11.

3. Put the cables back on.

4. Does it stop counting? If Yes, go to step 11; if No, go to step 5.

5. Check the center pin on both cables.

6. Center pin(s) okay? If Yes, go to step 8; if No, go to step 7.

7. Fix the cable problem and start again.

8. Disconnect the TNF input.

9. Is it counting? If Yes, go to step 18; if No, go to step 11.

10. Replace the TNF.

11. With the Data-In Window and Receiver Unblank disconnected, set up a high duty-cycle scan (i.e., FSE w/16 ETL). Start the scan and then depress Pause Scan. Reset the counter.

12. Is it counting? If Yes, go to step 13; if No, go to step 14.

13. Troubleshoot the source generating the spike noise events. (i.e., preamp, patient blower, etc.) Refer to the Image Quality Troubleshooting Flowchart Corduroy/Receive Chain.

14. Reattach the Data-In Window and Receiver Unblank. Reset the counter and press Start Scan.

15. Does the counter exhibit rapid counts (>12)? If Yes, go to step 16; if No, go to step 17.

16. Troubleshoot the source generating the spike noise events. Refer to the Image Quality Troubleshooting Flowchart Corduroy/Scan Induced Noise. (often vibration related. Zero-out gradient amplitude [CVs Xfull / Yfull / Zfull] to see which of the gradients is doing most of the shaking.)

17. Refer to the Image Quality Troubleshooting Flowchart - Corduroy, and treat as an intermittent.

18. Swap TNF in/out with the adjacent channel.

19. Does the problem follow the filter? If Yes, go to step 10; if No, go to step 11.

REVISION HISTORY

REV	DATE	AUTHOR	PRIMARY REASONS FOR CHANGE
0	June 3, 1998	J. Saperstein	Initial Conversion from Toolbook to Word.
1	Oct 13, 1999	M. Keber	Added correct proprietary heading to document.