

Questions for Nov 17th meeting

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Fission chamber:

What do we lose with an unguarded fission chamber?

- What features/outputs are unavailable or diminished when an unguarded fission chamber is used.
- How does the guarding of a fission chamber enable features?
- What is the current path used in each?

Fault I/O specifics:

I'm trying to find if all the drawer faults (and if not all, which) put the drawer in a non op state. I know the drawer does internal error monitoring, but I haven't found the source that says which faults produce an error output.

Display and I/O Latency:

I'd be curious about the tau/time constant in the drawer and if it can be adjusted?

- Operators, when coming in to Delayed Critical, could actually drive off the linear signal due to the time delay, otherwise they could end up chasing their tail.
- Can we wire the analog counting circuit directly?
- Can we wire the analog Campbell current directly?
 - Think you call this AC, which is another (translation) issue for us.
 - What additional modules would be needed/purchased to wire each?
 - What are the I/O interface options?
 - 0-10 VDC?
 - 4-20 mA?
 - 0-20mA?
 - TTL?
 - RS-232?
 - Other?

Linear range:

Can linear ranging be done without creating the spikes at each range change?

- Is the range spike issue a result of our asking for two linear ranges?
- If we back off the request for the two linear ranges, accept your standard default linear range, do we get rid of the spiking?
- How would a guarded fission chamber fit into or affect this scenario?

Annual tests (Section 5.2 of DWK 250 manual)

What data does Mirion have to help the end user decide which annual check to perform? What does each step do?

- what channel is affected?
- can the parameter change?
- What is the consequence of a change in each?

Would like to go over each check with the vendor (1 through 9) of:

DWK 250 Edition :4/ 07.11.2014 Doc. 23630 A41E page 20 through 22.

For instance, interested in any power supply failure/reliability data you have collected, such as:

1. Power supply RMAs (Return material authorization),

2. Power supply orders,
3. Warranty requests,
4. Requests for re-builds,
5. Requests for failure analysis and results

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