

# 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 tao/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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