nBLM PDR1.2 - Recompilation of points to discuss

1. **General:** System specifications and additional costs
2. **General:** Location of detectors (at least number of them per region)
    - Impact on electronics, gas system, power supplies, …

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3. ☑ **Prototypes:** Section 2.4, signal pulse duration and rise time (100/30 ns).
4. **Prototypes:** Section 2, O-ring used in prototype approved for CERN, ok also at ESS?
5. **Electronics:** Section 3.1: Chose between plug-n-play card or all elements on board
6. **Electronics:** Section 3.1: 1-4 readouts independents or sum
7. **Electronics:** Section 3.1, decision on cables, one or more signal outputs per detector?
8. **Gas system:** Section 4.1, final connection to detector by polyethylene tubes?
9. **Gas system:** Section 4.2.1, use of premixed bottles?
10. **Gas system:** Section 4.2.2, decision taken about the place of the installation of gas system
11. **Gas system:** Section 4.2.3, use fast closing valve or extra tube with hand valve for detector connections
12. **Gas system:** Section 4.3, not received yet list of components from ESS
13. ☑ **Gas system:** Section 4.3, can we use Profibus for the PLC?
14. ☑ **Controls-Acquisition:** Section 5, How we do communication with MPS? Which output from FPGA? Rates or binary alarm output?
15. ☑ **Controls-Acquisition:** Section 5, Do coincidence algorithms into FPGA that controls neighbor detectors?

16. **Integration**: Section 6.1, whole modules or individual with different objective?
17. **Integration**: Section 6.1, extra power supply for SY crate? (redundancy/cost)
18. **Integration:** Section 6.1, define control system for 34 modules or 42? Implies different number of ADC cards, etc.
19. **Response to ESS scenarios**: Section 7.2, implement version in software for current mode?
20. **Response to ESS scenarios**: Section 7.2, use of fast modules or not? (necessity in order to observe loss structures)
21. **Response to ESS scenarios:** Response to ESS scenarios: Section 7.1, more studies for normal scenarios needed?
    - Scenarios studied cover only the DTL region