

Memorandum of Information #1

Clarification questions on Tender "Closed-Cycle refrigerator Cryostat system, Ref. 2024 FPL/INK 043, date 02-05-2024"

No.	Section nr. / subject	Question	Answer
1	8.1.5 - Subject matter 'DC interface' - 34	This is not typically a spec we use on the DC lines we supply. This seems like an odd spec to use on a DC line. Could you clarify a little bit more information about this spec so we can ensure we provide the right material? Would I be right in thinking that copper AWG 36 would be okay for this?	Although the DC lines are referencing to DC voltages, they will be used for controlling piezo stages. These piezo stages will require changing voltages over time, hence some non-DC behavior is required. Requirement R-1220-030 addresses this behavior. The bandwidth we refer to is the -3dB bandwidth. Any DC line for which the output power is within 3 dBs of the maximum output power, in the frequency range between 0 and 100 kHz, fulfills requirement R-1220-030.
2	8.1.3 - Subject-matter 'Free-Space Optics Interface' - 32	In Documents "AnnexA04 Compliance with requirements and preferences_answers to questions" . In in requirements R-1100-020 to R-1100-60 it is mentioned the window specifications can be found in the Requirements R-3000-010 and R3000-015. But there only software requirements are listed. What are the specifications of the optical window?	The references to requirements R-3000-010 and R3000-015 are wrong. Instead, this should reference to requirements R-1100-010 and R-1100-015.
3	8.1.1 - Subject-matter 'Cryostat System Requirements' - 30	Requirement R-0000-025, The cryostat pumping system shall be able to keep a pressure below 10-5 mbar at the sample space when the cryostat's temperature is at 1 Kelvin. 10-5 mbar, shouldn't that be 10 ⁻⁵ mbar?	It is indeed a typo. Where it is written 10-5 mbar, it should be 10 ⁻⁵ indeed.
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