

## Information Notice #2

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	1.3 - Purpose of the Tender – 7	I have some specific questions about the DUT. I would like to know the dimensions and approximate mass of the DUT.	We need to operate DUTs with different shapes and sizes. This will also include the use sample positioners and the framework required for mounting of the stages and the DUT. The entire structure should fit inside the 93 mm bore of the vector magnet and the total weight would not exceed 700 grams.
2	2.8.2.8 - Quality element 'Mounting of optics' – 44	While we can provide a selection of materials, It would be good to know if TNO had a material they would prefer for windows to meet the required transmission requirements.	We do not have a preference for a material, as long as it meets our requirements.
3	3.8.1.5 - Subject matter 'DC interface' – 34	The sample scanner signal lines shall have a bandwidth of 100kHz or more" 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.
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