

Tower Vacuum makes progress in defining the civil interfaces

Tuesday 7 May 2024 15:00 (20 minutes)

This talk is focusing on elements of “tower vacuum” systems that are critical for interfacing with civil infrastructure, in line with the current activities of ET.

Solutions are provided for the access mode (bottom/lateral) of “towers”, for the size of extra rooms for auxiliaries and maintenance equipment, and about typical spaces requirements around main chambers. We will address the different clean areas as foreseen for different “towers compartments”, together with the needed nearby access areas, adding details on clean air supply quality and quantity, during both operation and installation phases.

Also, we list typical needs from “conventional plants” (HVAC, pressurized air distribution, electrical mains, network...), remarking that these are not actually conventional but specific to GW interferometers, which must take into account the environmental disturbances potentially transmitted to sensitive parts.

Finally, we will share tables summarizing the main characteristics “per tower”, such as access mode, diameter, total height, ...

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