



Important milestone

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TÜV SÜD publishes safety guidelines for Hyperloop applications

Munich. TÜV SÜD has published the first ever complete guidelines for Hyperloop applications. “Hyperloop” is an umbrella term for innovative high-speed transportation systems. The guideline developed by TÜV SÜD defines the safety-related requirements relevant to this type of technology. US company Hyperloop Transportation Technologies (HyperloopTT) has already incorporated these requirements in the development of its Hyperloop application. Last year TÜV SÜD and HyperloopTT presented the preliminary version of the guideline to the European Commission.



Publication of the TÜV SÜD guideline is an important milestone in global standardization of Hyperloop transportation systems. Safety is one of the core factors for acceptance of innovative technologies by the public and the market.

US company Hyperloop Transportation Technologies (HyperloopTT), based in Los Angeles, California, is working on the development of a high-speed system which can transport passengers and freight over long distances. Transport capsules powered by electricity travel through a system of vacuum tubes at speeds of up to 1,100 kilometers per hour.

TÜV SÜD reviewed the Hazard Analysis and Risk Assessment (HARA) of the HyperloopTT system and used it as the basis for developing a guideline that defines the key safety requirements for the design, construction, and operation of these systems. The TÜV SÜD guideline has also considered existing regulations and experience in fields such as rail, metro systems, cable cars, amusement rides, aviation, and the process industry, and aligned them to the specific requirements of Hyperloop technology.

Taking a holistic approach, the TÜV SÜD guideline defines a host of aspects including the core safety requirements for the transport capsules, the drive system, the environmental control and life support system (ECLSS), the tubes, and the evacuation procedure in case of emergency.

“Our generic guideline is our significant contribution to making an innovative technology like Hyperloop safe and reliable,” says Ferdinand Neuwieser, CEO TÜV SÜD Industrie Service GmbH. Neuwieser explains that the guideline also offers a robust basis for the standardization of Hyperloop systems and development of harmonized regulations for national approval procedures as well as for certification of individual components and complete systems.

Last year TÜV SÜD and HTT presented the guideline to the European Union’s Directorate General for Mobility and Transport.

“Hyperloop technology will revolutionize the future of transport systems,” predicts Andres de Leon, Chief Executive Officer Hyperloop Transportation Technologies (HyperloopTT). De Leon affirms that the extremely fast, energy-efficient, and zero-emission transportation system can be smoothly integrated into existing infrastructures. “In TÜV SÜD we have found an internationally renowned partner which will contribute its expertise and experience to support us in the advancement of our system and project realization throughout the world.”

- The guideline can be downloaded in PDF format from the TÜV SÜD website for a fee of EUR 1,000 (excl. VAT): <https://www.tuvsud.com/HyperloopGuideline>.
- Further information about HTT’s hyperloop system can be found at www.hyperloop.global.

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