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Safety Measures Taken in High-Gradient Accelerating-Structure Test Facility at KEK

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In the X-band high-gradient test stand at KEK, Nextef, various normal-conducting high-gradient accelerating structures were high-power tested for, e.g., the CLIC prototype and SLAC distributed-coupling structures. However, April 3, 2019, significant fire occurred at Nextef, and all the high-gradient tests were terminated. It took three years to recover the test facility focused on safety. We report various safety measures in the facility taken through the experience. In larger facilities, such as linear colliders, it is more difficult to reduce the risk of significant accidents. This report might be helpful for future large accelerator facility developments.

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