

Abstract Submitted
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UV Characterization of an SF₆ Filled Laser Triggered Gas Switch¹ DARREN SWARTS, SCOTT KOVALESKI, CHRISTOPHER YECKEL, RANDY CURRY, JOHN GAHL, BRIAN HUTSEL, ANDREW BENWELL, University of Missouri-Columbia — Incident ultra-violet (UV) light is being considered as a contributor to dielectric flashover of acrylic insulators on high voltage, high current switches. At the University of Missouri-Terawatt Test Stand (MUTTS), a Rimfire laser triggered gas switch (LTGS) has been modified in order to study UV induced flashover. UV irradiation on the insulator of a single gap switch is studied. Various methods for UV characterization of the switch are being considered. Time resolved measurements and spectral analysis of the incident UV light are currently being performed.

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Darren Swarts

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