



Press Release

FOR IMMEDIATE RELEASE

Contact: Tom LaBarge

Email: tomlabarge@groundlinx.com

GroundLinX Technologies Sets New Electrical Grounding Standard

Total rethinking of grounding system design conquers fault dissipation in poor conductivity conditions.

[BOZEMAN, MONTANA - 27 January 2020] **GroundLinX Technologies, LLC**, based in Blue Ridge, Georgia, today announced the exceptionally successful deployment of its breakthrough electrical grounding technology, at the site of a new broadcast tower and equipment structure being constructed for KBZK-TV.

Engaged by Electronics Research, Inc, (ERI) of Chandler, Indiana, an industry-leading broadcast tower and antenna engineering firm, GroundLinX Technologies created a specialized variation of the company's patented Gradiance™ Broadband Grounding System to achieve an extremely low resistance-to-ground (RTG) in high elevation, possibly frozen, gravelly soils. Product design was complicated by the presence of solid rock strata no more than 48 inches below grade, thus prohibiting the use of standard ground rods in any vertical form. Instead, a series of 19 large-surface-area, copper and carbon fiber drums, 13 inches in diameter by 18 inches tall, augmented by two proprietary fill materials, were installed, spaced along a large-gauge conductor ring and modified radials surrounding the new broadcast tower base, as well as the transmitter building and generator pad.

Because of the massive number of current-emitting points in these drums (over 20 million in each) and the unique current-carrying characteristics of the applied fill materials, the GroundLinX Gradiance™ system delivered a staggering **98% reduction** in RTG relative to the traditional grounding system in place at the existing equipment building site – immediately adjacent to the new ERI tower base. The standard grounding system measured **296** Ohms-to-ground, while the new Gradiance™ system measured **6.4** Ohms. Achieving this result in fully frozen soil makes this feat more noteworthy. Traditional grounding generally cannot deliver suitable RTG levels in frozen soil. GroundLinX systems can.

With this highly successful installation of its unique, cutting-edge technology, GroundLinX is completely re-writing the book on electrical grounding: In frozen, poorly conductive, gravelly soil, without the use traditional ground rods yet installed at a maximum depth of less than 30 inches below grade, GroundLinX Gradiance™ systems are able to provide a heretofore unachievable level of RTG at a very affordable cost. It is highly probable traditional grounding methods could not deliver these results at *any* reasonable cost. But more importantly, Gradiance™ grounding systems are capable of dissipating high energy, high frequency current far more completely than standard rod-based grounding, and do so for the entire duration of a fault event. Such frequencies, especially at high energy levels often cause the failure of traditional grounding prior to the cessation of a fault, thus leading to significant “upstream” damage.

For more information on the game-changing abilities and characteristics of GroundLinX Gradiance™ products, please visit GroundLinX Technologies' website at www.groundlinx.com, or email an inquiry to info@groundlinx.com.

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