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Role of Matching Network Design in Excitation of Atmospheric Plasmas CAMERON MOORE, SCOTT HERES, CARL ALMGREN, GEORGE COLLINS, Colorado State University — Recent refinements in the design and operation of atmospheric pressure plamsas are presented, specifically that there are advantages possible specific to match network design and selection of components. We show that a more thorough examination of an entire atmospheric plasma system which accounts for systemic compatibility leads to improvements. We present a simple example which considers electrode specifics (sizes, spacings) during selection of match network topology and match network component types and values.

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