

## MASSACHUSETTS H-FRAME INSTALLATION: FIRST-EVER USE OF DURATEL POLES FOR NEW ENGLAND TRANSMISSION

**The Project:** A Massachusetts-based investor-owned utility needed to replace a 65-foot wooden utility H-frame on a 115-kV transmission line that was deteriorated beyond repair and replace it with a structure that provided greater strength and durability.

**The Challenge:** Supply a durable, lightweight, maintenance-free solution to replace an aging, damaged wood utility H-frame structure.

**The Solution:** Engineers selected a 65-foot Duratel fiber-reinforced non-conductive composite H-frame equipped with composite crossarms, braces and galvanized steel support brackets.



This product will stand up to the elements, is easy to transport and install and will require little maintenance. Duratel met all the same structural and loading requirements as existing wood utility H-frames, with the added benefit of weighing significantly less. 65' wood H-frame

structures can weigh 10,000 lbs and contain potentially toxic chemicals such as creosote and arsenic. Duratel composite H-frames weigh just 2300 lbs., are non-conductive, resistant to birds, bugs, pests and corrosion, and are engineered with an extremely high strength-to-weight ratio. Duratel structures also contain a fire retardant and multiple UV inhibitors and stabilization elements to prolong lifespan and prevent damage from exposure to sunlight.



*Duratel, LLC is a leading innovator in the manufacture of pultruded, fiber reinforced composite utility poles for use by electric utilities, renewable energy companies, marine contractors, and green builders. For more information about our company, visit: [duratelgreen.com](http://duratelgreen.com).*