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| | St. Lucie to Turnpike 230 kV Transmission Line Project |
| Awards/Recognition | 2017 ISTT No-Dig Project of the Year Award 2016 NASTT Trenchless Technology Project of the Year Award |
| Location | Port St. Lucie, FL |
| Date Completed | June 2016 |
| Project Type | Electric |
| Equipment | Mears' 140,000 lb. rig and 1.1 Million lb. rig |
| Owner/Client | Florida Power & Light (FP&L) |
| Length, Pipe Diameter, Pipe Material | Two (2) HDD River Crossings: 30-inch FPVCP Casings installed at 7,020-feet with four 10 inch and two 3 inch high density polyethylene (HDPE) conduits surrounded by NoSet™ (a specially formulated thermal grout/slurry). |
| Type of Crossing | River |
| Project Summary | <p>Record Breaking 30 inch Fusible PVC® Casing Installation/Successful Research & Development of XLPE Cable Installation of Lengths over 7,000 feet</p> <p>Two 30 inch Fusible PVC® casing pipes (FPVCP) were installed in two parallel HDD bores 60 feet below the Indian River. 7,020 foot of FPVCP casing was inserted through each of the bores representing the longest lengths that any FPVCP pipe has been installed in an uncased HDD application of any diameter. Each casing ultimately housed four 10 inch and two 3 inch high density polyethylene (HDPE) conduits in a specially formulated thermal grout/slurry.</p> <p>The project required complex HDD equipment site set-ups to accommodate the necessary rigs and support equipment. Mears' 1.3M lb. drilling rig was set-up at the entry side, with a Mears' 140,000 lb. drilling rig at the exit side on Hutchinson Island near the nuclear power plant. Support equipment included three mud recycling systems and pumping equipment that were staged approximately 2,000 feet from the drill exit site. Due to the distance between all equipment and activity, special remote controllers and constant communication between the team members were necessary to keep the operation running smoothly.</p> |

