

Sound Crossing – Sound Connections



The 22 structures crossing the sound blend into the picturesque backdrop.



Located on the south shore of the sound, this three-pole deadend structure awaits the final stringing to complete the project.



An IMPLO 7/16" static-wire splice is brightly tagged so that it may be easily located for inspection when pulled to its final location.



The IMPLO static sleeve, barely visible if not for the tagging, easily passed through the first block.

Along the northeast coastal region of North Carolina, numerous rivers join to make their final passage to the Atlantic. Together, they form the largest freshwater sound in North America - the Albemarle Sound. Named after one of numerous English Lord Proprietors that were granted land surrounding the sound, the region has a rich history; most notably for bountiful fishing. However, even in this rustic location, the power needs finally outpaced the delivery capacity.



Albemarle Sound, located along the northeast coast of North Carolina, is the largest fresh water sound in North America.

An existing transmission line crossing the sound to bring power to the northern region required an upgrade. Conversion from 115kV to 230kV began with a structure change out, while additional work was being done to upgrade substation tie ins and equipment. That work having finished, the sound crossing was the final piece of the puzzle to complete the project.

Normally, conventional splice technology would require installations done on location on a barge out in the sound. However, IMPLO connections were specified for both the 7/16" static wire and the 1233 ACSS/TW conductor. This process allowed all of the splices to be installed on shore and then pulled through the stringing blocks to their final location. Not only did this reduce installation time and effort, the high-quality connections will provide unmatched performance on the new ACSS line.



An IMPLO ACSS splice is ready to go. The non-electric shock tube glows brightly for an instant just before the sleeve installs. The installation process is very safe and environmentally friendly.

IMPLO deadends were used on both shorelines to complete the connections, ensuring this sound crossing will have a long history of reliable power supply.

