

# 69 kV Transmission Loop Extension Project

The Peru Utilities Electric Transmission & Distribution department identified a need to further extend the existing 69kV transmission loop which would increase system reliability and add necessary redundancy to more easily manage outages and better serve our customers.

All of the electrical engineering work done on this project in advance was accomplished by Dave Woessner, Peru Utilities' Electrical Engineer. The route mapping was done by Engineering & Technical Services Supervisor, Mike Walsh, in conjunction with Electrical Engineer Woessner and T&D Superintendent Curt Bankston. According to Dave Woessner, Electrical Engineer, "The project was designed to optimize our ability to reroute electric transmission service during outages, thereby reducing electric service interruptions for our customers."

Joshua Chance, Peru Utilities Project Manager, indicated that the L.E. Meyers Company will begin work on the project in mid-January and should have it done within four to six months.

Approximately three miles of new 69 kV transmission infrastructure will be constructed and attached to the existing 69kV transmission loop. The existing distribution under build will also be updated.

The extension will begin at the intersection of Indiana 19 south and Miami County road 250 south and follow the existing path of distribution circuitry continuing along the east side of Indiana 19 heading north approximately two miles to Wallace Avenue. This line will turn and follow the existing distribution on the east side, down Wallace Avenue to Riverside where it will cross the Wabash River. Once across the river, the lines will extend and terminate on existing transmission structures on the south side of the water filtration facility.

The project encompasses the installation of new poles, new conductor, switches and hardware for transmission, and new hardware and support equipment for distribution. The existing distribution conductor will be reused. The following materials were purchased in advance in anticipation of the project and are in current inventory:

- 55,000 ft. of 556 ACSR conductor
- 18,000 ft. of 3/8 inch stinger wire
- 120 poles ranging from 55 ft. class 1 up to 90 ft. class H1
- 3 transmission switches
- Variety of transmission and distribution hardware

A map illustrating the territory this project includes follows.

