

# **Engineering Studies for New Load Applicants**

## **For Large Industrial Loads**

### **Southern Illinois Power Cooperative (SIPC)**

The following process will be used for evaluating all new loads that are proposed to connect directly to the SIPC transmission system. The Applicant shall first request a Feasibility Study to determine the magnitude of problems that may occur due to the new load being added to the transmission system. This study will be performed by SIPC or consultant. All costs provided in this study will be planning level estimates, and the study will be valid for 60 business days. The Applicant will be required to pay actual costs for the required improvements listed in the study.

If requested by the Applicant, the preparation of a detailed Facility Study will determine a more accurate cost estimate and schedule for the required improvements. A minimum fee of \$10,000 will be required by the Applicant to initiate the detailed facilities study, which will include SIPC and consultant efforts. However, the Applicant will be responsible for actual study costs, which could be different than the initial fee.

All new load applicants shall file an application to SIPC, by way of the distribution cooperative. An example of the information typically requested by the distribution cooperative is shown below. The distribution cooperative will communicate directly with SIPC regarding the new load application. Receipt of the application by SIPC will determine the order in which SIPC responds to the application. An attempt will be made to complete a draft study report within 45 business days of receipt of application.

New loads are evaluated on a first come, first serve basis. Cancellations should be reported to SIPC, by way of the distribution cooperative, as soon as possible as they could potentially impact other studies.

Applications must include sufficient information for SIPC to conduct the necessary evaluations, studies and approvals, and for discussions and changes as necessary.

Sufficient lead-time, considering project scope (complexity, size, location, etc.) is required prior to starting construction to assure a thorough and orderly review process and construction schedule.

#### **The Application will include, at a minimum:**

- Applicant name & address
- Contact person, with phone, fax, and e-mail
- Project and connection site description
- Schedules of intended load levels that will affect SIPC's system (peak demand, energy, power factor)
- Schedule for the design and construction of Applicant's project and connection
- Electrical schematics, which will include but not be limited to:
  - One-line diagram showing the connections between the Applicant's project and the SIPC System, including station details.
  - Three-line diagrams showing current and potential circuits for protective relays, if any.
  - Relay tripping and control schematic diagram, if any.
  - SIPC reserves the right to approve the proposed settings for relays. If requested by Applicant, SIPC will provide system data needed to determine the relay settings.
  - Transformer nameplate information.
  - Transformer protection information.

- Communication and control schemes
- Load specifications
  - Voltage at point of interconnection, MW and MVAR, and other characteristic of the load

Applicant will also provide to SIPC any other information or documents related to the new load that are necessary for the purpose of ensuring the safety, reliability, security, and protection of the SIPC System and the interconnected electric system.

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