Specification Number: 26 05 73.20
Product Name: Power System Consultant

SECTION 26 05 73.20
Power System Consultant

PART 1 GENERAL

1.01 Summary

A. The electrical equipment manufacturer shall provide a Power System Consultant for the duration of the project (*Specific time requirement needs on this project can be added here by owner*..). This engineer will be a technical advisor for the owner, consulting engineers, electrical contractor, and general contractor or construction manager for the power system design and installation of the electrical manufacturer's equipment. The scope and experience of this engineer is specified in the following articles.

1.02 Submittals

A. Resume of the Power System Consultant shall be submitted to the owner for approval.
B. History of previous projects where this task has been successfully completed.

PART 2 PRODUCT

2.01 Power System Consultant

A. Scope of Work

1. Engineer shall be responsible to act as single point engineering contact for manufacturer's equipment for owner and consulting engineers.
2. Engineer shall be familiar with manufacturers' power products and applications and provide information to consulting engineers during the design phase of the project.
3. Engineer shall work with owner and consulting engineers to help assist in the design of the power system. This also includes providing up front equipment information so layouts are accurate.
4. Produce thorough equipment installation specifications to be included in consulting engineers bid packages.
5. Coordinate with manufacturer's plant application engineers and consulting engineers to verify equipment submittals match owner's specifications and resolve or recommend any changes to meet requirements.
6. Attend prebid bid package meetings with owner, electrical contractors, construction manager and consulting engineers.
7. Attend equipment approval meetings with owner and consulting engineers.
8. Work with construction manager or general contractor during construction phases.
9. Work with electrical contractors to insure proper installation of equipment.
10. Ability to effectively interact and communicate with others.

C. Background Experience

The candidate must be a Electrical Engineer with 10 -15 year in industrial power system design or facilities engineering experience in the following areas:

1. Low and medium voltage power distribution systems
2. MV relay systems and applications
3. Substations, switchboards, panelboards and MCC layouts
4. MV and LV cables and cable tray layouts
5. MV bus duct and LV busway layouts
6. Onsite Power measurement or metering device layout

7. Short circuit, time current coordination, power factor and voltage drop studies
8. Power Quality and Harmonic mitigation
9. Motor starting simulations
10. UPS and emergency generator systems
11. National Electrical Code (NEC) requirements
12. Class 1, Division 1 & 2 hazardous locations
13. Lighting level calculations, specifying and system layouts
14. Building/equipment grounding requirements
15. Surge suppression systems and applications
11. Shop drawing approval and on-site inspections
12. Construction cost estimates, cost comparisons and recommendations
13. Writing scopes of work and construction specifications
14. Project and construction management
15. Specific task requirement needs on this project can be added here by owner …

PART 3 EXECUTION

NOT USED

END OF SECTION

Confidential company information - for internal use by Schneider Electric employees only
Copyright © - 2000 Square D All Rights Reserved