



**Information to Support GIS Financing for Inclusion in
Construction Work Plans or CWP Amendments
Electric Programs - RDUP
March 9, 2007**

- 1) Describe the planning process that was utilized in determining to proceed with a GIS implementation, including use of any pilot program, investigation of process used by other utilities, studies issued by CRN or others, use of consultants, etc.
- 2) List of GIS applications intended to be implemented, broken into the following general categories: traditional mapping, engineering, operations, planning and environmental, business and marketing, management, and shared services. This list will assist in understanding system priorities, by identifying when the individual applications will be implemented (i.e. immediate, near-term, or long-term).
- 3) Describe the data design standards and metadata that will ensure interoperability of GIS data with other borrower systems and systems of other parties (power supplier, transmission provider, government entities or PUC) with which the borrower may be required to share data.
- 4) List of both tangible and intangible benefits expected to be generated through GIS implementation.
- 5) Details concerning the following GIS component elements requested for financing:
 - a) Hardware: desk top or hand held computers, GPS units, etc, including the number of units to be procured which will be devoted to GIS use.
 - b) Software: automated mapping/facilities management (AM/FM) software, geographic information system software (GIS), data viewer software, computer aided drafting software, business geographic software, including the specific software packages being utilized, if possible, as well as the number of software licenses being procured.
 - c) Field Inventory: list of specific information that will be gathered and resources used to do so.
- 6) Budgeted costs for each GIS component. Due to the importance of this information, provide specific elements of cost within the categories of hardware, software, field inventory, conversion of existing data, training, etc. Indicate whether a GIS consultant

was utilized in developing this information.

- 7) Time-lines for GIS implementation including the extent to which GIS costs have been included in the current year's budget as well as costs to be incurred in coming years. If a portion of the GIS implementation has been completed in prior years, list what activities and their associated costs have already been performed and over what time period.
- 8) Staff and outside resources to be utilized in establishing the GIS system as well as for on-going maintenance of data collection and entry. Indicate the number and position of new employees required, whether existing employees will be utilized on a part-time basis, as well as any consulting assistance or contractors to be utilized in the process.
- 9) Training that will be provided to ensure a successful deployment, including specifics of training being provided and by what parties, number of employees to be trained, and over what time period this training will be offered.
- 10) Describe the processes to be used for collecting field data as well as the conversion of existing mapping data, to ensure a successful integration into the overall GIS system. What external GIS data sets are planned to be used.
- 11) Extent to which the mapping system will be integrated with other computerized applications, including engineering analysis, customer information system, work order tracking and outage analysis.
- 12) Board action to authorize the overall plan for implementing the GIS system including recognition of the time-lines, costs, and overall resources to be utilized. Include the board resolution as well as the information that was provided to them for their review.

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