The INGAA Foundation, Inc.

Request for Proposals for a study on:

Criteria for Pipelines Co-Existing with Electric Power Lines

3/4/2014

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1. Structure of this RFP

1.1. Key Sections of this RFP

1. **What is requested?**
   The INGAA Foundation Inc. is seeking a proposal from qualified consultants to research and prepare criteria for pipelines and aboveground or belowground electric transmission lines sharing rights-of-way. The study will deliver guidelines for safety and encroachment practices and rules of thumb for field testing, modeling, and mitigation for any impacts affecting pipelines from electric transmission lines including HVDC and alternating current (AC) electrical potentials as a result of capacitive couple, conductive couple, and/or inductive couple and stray currents.

2. **Who is asking?**
   The INGAA Foundation, Inc. was formed in 1990 by the Interstate Natural Gas Association of America (INGAA) to advance the use of natural gas for the benefit of the environment and the consuming public. The Foundation facilitates the safe, efficient, reliable, and environmentally responsible design, construction, operation, and maintenance of the North American natural gas transmission system.

   Lisa Beal, VP of Environment and Construction Policy, Scott Currier, Director of Operations, Safety, and Integrity at INGAA, and Rich Hoffmann will be technical contacts for this project.

   Overall Contact Person: Rich Hoffmann, Executive Director
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3. **Why is this being done?** There is a need for a document describing criteria for pipelines and power lines sharing rights-of-way, including some rules of thumb for when field testing, modeling, mitigation for potentials and stray current from AC or HVDC Transmission lines that may affect pipelines would be required, as well as guidelines for safety and encroachment practices.

4. **The terms?**
   The Consultant will perform the research, analysis, consulting or other services necessary to complete this project for a total amount not to exceed the $40,000 to $50,000 range which includes the Consultant's fee for services and all direct costs incurred in fulfillment of the contract, including, but not limited to, travel, communications and photocopying.

5. **Proposals due When?**
   Qualified Consultants who are interested in responding must submit a proposal of no more than 10 pages (excluding resumes and references) by 5 pm PDT, March 18, 2014. One electronic copy shall be submitted.

1.2. Consultant Qualifications

The technically qualified consultant will have proven expertise in the design and construction of high pressure natural gas pipelines, cathodic protection systems, and their interaction with AC and HVDC electric transmission lines and stray currents as well as the legal, regulatory and business structure of the interstate natural gas pipeline industry. The consultant must be able to deliver documents, both draft and final, that are well organized, professionally edited, and clearly written.

2. Study Information

2.1. Background Information

There are many existing and new projects where power lines encroach on existing pipeline rights-of-way and vice versa. Although there is good understanding of the requirements for mitigation for AC or DC high-voltage power lines to ensure step- and touch-potential safety, stray current corrosion and damage of pipe and coating due to fault currents, this usually requires expensive and time consuming field-work and software modeling. Basic rules-of-thumb when a new project is proposed, such as the distance from the pipeline, how long the power line parallels the pipeline, the nature of the power line (AC or DC, voltage, loading), could rule out modeling for many situations. Also, additional minimum safety and encroachment criteria should be determined.

The document could be shared by the INGAA Foundation as a report or white paper available on the INGAA Foundation website, as well as shared directly by pipeline operators and power companies to inform about the concerns with potential encroachments and safety. This document could also be part of public awareness and third-party damage prevention programs. Other industry and trade organizations (e.g. NACE International, American Public Power Association, Electric Power Generation Association, Edison Electric Institute (EEI), IEEE, American Wind Energy Association, Southern Gas Association, NAPSR, AGA, API, Common Ground Alliance, etc.), and regulatory agencies would be other audiences for education and coordination.

Having published consistent reference criteria would benefit the pipeline industry by increasing public safety and reducing cost in responding to requests from/to power companies and regulatory agencies. The criteria would also make clear when additional analyses , including modeling are necessary. Pipeline operators would not have to treat each request on a case-by-case basis and could establish blanket criteria for power lines that would not interfere with or cause safety problems with the pipelines. ,

2.2. Scope of Work

The consultant will research and develop a summary of current industry practices related to shared rights-of-way, including pipeline operator policies and procedures, standards such as NACE SP0177 Mitigation of Alternating Current and Lightning Effects on Metallic Structures and Corrosion Control Systems, and consulting engineering service providers recommended policies and procedures. The deliverable will be a document describing criteria for pipelines and power lines sharing rights-of-way, including some rules of thumb for when field testing, modeling, mitigation for AC potentials and stray current would be required, as well as guidelines for safety and encroachment practices

2.3. Deliverables

The primary deliverables will be:

An executive summary and written report of the information gathered and safety and encroachment criteria.

Other project deliverables include:

- A project schedule
- An outline of the document
- A draft version of both documents
- A draft presentation in Microsoft PowerPoint for use in outreach
- A final version of both documents, and a final PowerPoint presentation
- A recommended path and tools for communicating the recommendations to the expected audiences. (i.e. talking points, PowerPoint slides, regulatory briefings).

All documents must be conveyed to the project contact in the form of a clean, reproducible paper original, a Microsoft Office format version and a PDF version, unless specified differently in the final contact agreement.

2.4. Term of Contract

The anticipated contract start date will be 4/2/2014 with completion by September, 2014 Any revisions in project scope, definition, cost, or schedule shall be made only by written mutual agreement by the authorized representatives of the parties whose signatures appear on the final contract agreement.

2.5. Payments, Incentives, and Penalties

The consultant will perform the research, analysis, consulting or other services necessary to complete this project for a total amount not to exceed the $40,000 to $50,000 range which includes the consultant's fee for services and all direct costs incurred in fulfillment of the contract, including, but not limited to, travel, communications and photocopying. Other terms will be detailed in the final contract agreement.

3. Contractual Terms and Conditions

Contract terms and conditions will be detailed in the final contract agreement.

3.1. Requirements for Proposal Preparation

The proposal, at a minimum, should include: a detailed statement of how the consultant proposes to meet the study objectives including the technical approach/ methodology, technical capabilities, a budget that includes a breakdown of tasks schedule and deliverables, a description of the team's expertise in the subject matter.

3.2. Evaluation and Award Process

Proposals will be evaluated, at a minimum, on the following criteria:

- Extent and quality of the project description and overall approach, including the staff expertise/qualifications, staff knowledge, industry contacts, and resources or the ability to obtain them, to successfully achieve the goals of the proposed project.
- Extent and quality to which the proposal demonstrates knowledge regarding past and current construction adjacent to power lines.
- Applicant's ability to successfully complete and manage the proposed project.
- A review of the budget narratives to determine if costs are reasonable and commensurate with activities proposed.

3.3. Process Schedule

03/04/2014 - RFP distributed to potential Consultants
03/18/2014 - Proposals due to study contact
03/28/2014 - Contract award decision
04/02/2014 - Contract start date
07/01/2014 – Draft report
09/01/2014 - Date of completion

3.4. Point of contact for all correspondence

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