

**Development of Climate Change Provisions for Structural Design of Buildings and Implementation Plan in National Building Code – Solicitation Number: 17-22051**

1. Advance Contract Award Notice (ACAN)

An ACAN is a public notice indicating to the supplier community that a department or agency intends to award a contract for goods, services or construction to a pre-identified supplier, thereby allowing other suppliers to signal their interest in bidding, by submitting a statement of capabilities. If no supplier submits a statement of capabilities that meets the requirements set out in the ACAN, on or before the closing date stated in the ACAN, the contracting officer may then proceed with the award to the pre-identified supplier.

2. Definition of the requirement

a) The objectives of the proposed work are to develop proposed code changes related to the effects of climate change on wind and snow loads for the 2020 edition of the National Building Code (NBC), including: formulating a rationale for adopting a uniform risk approach, developing reliability targets, regional variations in design values, extreme events, and snow load factors. To allow time for the consensus process that applies to any changes to the NBC, the proposed changes will need to be formulated by mid-2018.

b) To prepare a guideline document that will provide designers and code committees with information on how to address climate change issues in subsequent editions of the National Building Code and other codes.

3. Criteria for assessment of the Statement of Capabilities (Minimum Essential Requirements)

- The qualified firm must have a dedicated employee with an advanced degree (Ph.D.) in engineering, with a rich academic background (20 years+) and (20+ years) practical experience in the development of design wind and snow loads
- The qualified firm must have an extensive record of publications in the area of design wind and snow loads (author of 150+ papers).
- The qualified firm must have a substantial knowledge of the Canadian Codes process, including committees, governance, code change requests, and the codes cycle.

- The qualified firm must be an active member of the Standing Committee for Structural Design of the Canadian Commission on Building and Fire Codes (CCBFC), and the Task Group on Climatic Loads.
- The qualified firm must have an extensive experience writing international standards for wind and snow loads
- The qualified firm must have a deep understanding of all aspects of potential climate change impact on structural loads on buildings, and experience applying mesoscale modeling methods to assess climatic effects on a regional basis.
- The qualified firm must have a demonstrated track record in analysing and quantifying structural failure risk – including use of the Finite Area Element method for assessing snow loads on structures, and experience in combining climatic information with aerodynamics and scale model testing to provide practical design load information for designers and code writing bodies.
- The qualified firm must have a deep understanding of the uniform risk approach, and its impact on the National Building Code, including load combination factors.
- The qualified firm must have experience in the use of statistical analysis to predict extreme events and their impacts on loads.

4. Justification for the Pre-Identified Supplier

There are no alternative sources of supply for this support. Rowan, Williams, Davies and Irwin known as RWDI is unique in the level of expertise and experience with a proven track record.

5. This ACAN contract serves for the immediate contract of \$ 1,728,900.00 and for future requirements of similar size and scope for 2 additional years.

6. Proposed Supplier: Rowan, Williams, Davies & Irwin Inc (RWDI), 600 Southgate Drive, Guelph, ON, N1G 4P6.

7. Suppliers' right to submit a statement of capabilities

Suppliers who consider themselves fully qualified and available to provide the goods, services or construction services described in the ACAN may submit a statement of capabilities in writing to the contact person identified in this notice on or before the closing date of this notice. The statement of capabilities must clearly demonstrate how the supplier meets the advertised requirements.

8. Closing date for a submission of a statement of capabilities

The closing date and time for accepting statements of capabilities is Sept 13, 2017.

9. Inquiries and submission of statements of capabilities

Directed to: Steve Cassidy

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Facsimile: 613-993-6867

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