



# Deep Panuke

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<b>Title</b>  <b>Design of Subsea Wellhead Protection Structures</b> <b>Prequalification Questionnaire</b> <b>EOI SS05</b>						
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Deep Panuke  
Design of Subsea Wellhead Protection Structures Prequalification Questionnaire**

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<b>REVISION LIST</b>	
<b>REVISION</b>	<b>DESCRIPTION OF CHANGES</b>
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## **1 INTRODUCTION**

### **1.1 Description**

EnCana is developing the Deep Panuke natural gas project in Nova Scotia's offshore (PROJECT). The PROJECT involves the installation of the facilities required to produce natural gas from the Deep Panuke field, located about 175 kilometres offshore Nova Scotia, approximately 47 kilometres west of Sable Island in a water depth of approximately 44 metres. Produced gas will be transported by subsea pipeline to Goldboro, N.S., where it will be transported via the Maritimes & Northeast Pipeline (M&NP) to markets in Eastern Canada and the northeastern United States. The design capacity of the project is up to 300 MMcf/d of sales-quality gas.

Regulatory applications for Deep Panuke were filed in 2006, with approvals granted in 2007. Deep Panuke was approved for development by EnCana's Board of Directors in October 2007. First gas from the project is expected in late 2010.

### **1.2 Business Opportunities**

In accordance with the commitments made by EnCana, priority will be given to companies who can demonstrate the capability to complete the scope of work in Nova Scotia on a competitive basis, meeting or exceeding EnCana's requirements for safety, quality, technical suitability, reliability, delivery and environmental standards. Pre-qualified companies will be required to complete a Canada-Nova Scotia Benefits questionnaire, and demonstrate their commitment to and compliance with EnCana's requirements regarding Canada-Nova Scotia Benefits, during the tender process.

### **1.3 Scope**

EnCana Corporation seeks qualified, experienced parties to provide engineering services for the detailed design of five (5) subsea Wellhead Protection (WHP) Structures, required to protect the Subsea Tree, Flowline Connection, and Umbilical Terminations against dropped objects and fishing gear. The WHP Structure is a steel tubular lattice frame with an estimated 10m x 10m base, 10m overall height, and approximate weight of 50 tonnes.

The scope of work is summarized as follows:

- Full structural analysis (transport, installation, and in-place conditions) including VIV/Fatigue analysis and FE analysis for dropped object loading;
- Preparation of detail design reports;
- Preparation of detail material and fabrication specifications;
- Preparation of detail structural steel CAD drawings.

Interested parties must include provision of all necessary personnel and software packages to complete the entire scope of work.

## **2 INSTRUCTIONS**

Respondents shall complete and submit this prequalification questionnaire in full. In some cases supplementary information is requested to support the answers. A "Contents List", that clearly details the documents that are included in support of the submission, shall be provided. Any answers, which

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refer to respondents' documents that are included to support the questionnaire, should specify the page(s)/section(s) containing the information. The page(s)/section(s) referenced should be marked to indicate the section to which it refers. Separate sheets, as necessary, should be used to provide additional information.

Respondents are advised that the information requested in the questionnaire are minimum requirements, sufficient for the EOI. For those companies invited to bid, additional detailed information will be requested by EnCana at the Request for Proposal stage to adequately assess bidder's capability to perform the work.

**This questionnaire completed by:**

**Type or print name:** \_\_\_\_\_ **Signature:** \_\_\_\_\_

**Title:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**3 CORPORATE & FINANCIAL CAPABILITY**

**3.1 Company Name and Offices**

Name: \_\_\_\_\_

Home Office Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Website: \_\_\_\_\_

Office Address: \_\_\_\_\_

\_\_\_\_\_

Registered Office Address: \_\_\_\_\_

(If different than above) \_\_\_\_\_

\_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

**3.2 Company's Corporate Status**

Autonomous Unit \_\_\_\_\_ Subsidiary \_\_\_\_\_

Partnership \_\_\_\_\_ Joint Venture \_\_\_\_\_

List Partnership / Joint Venture members related to this EOI

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

**3.3 Company's officers and directors**

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

**3.4 Company's ultimate parent company or controlling shareholder**

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

**3.5 Company's Financial Capability**

Respondent shall provide a copy of its audited financial statements for the most recent fiscal year ended.

## **4 TECHNICAL CAPABILITY**

### **4.1 Method Statements**

Please provide a method statement describing how your firm intends to execute the design of the Deep Panuke subsea wellhead protections structures.

### **4.2 Capability**

Please describe your firm's capability to perform the work scope, including company profile, key personnel, and structural analysis and CAD software packages.

### **4.3 Previous Experience**

List previous relevant harsh environment subsea projects, similar to the wellhead protections structures required for EnCana's Deep Panuke Project, that have been completed in the last five years. For each project listed, describe the scope of work, name of client, date of award and completion and approximate value.

### **4.4 Subcontractors**

Respondents shall identify the aspects of the wellhead protection structure design activities that will be subcontracted.

### **4.5 Availability**

Respondents shall confirm their availability to complete the engineering of the Deep Panuke wellhead protection structures during the period of April to July of 2008. A list of existing and pending commitments during the period of April to August of 2008 shall be provided.



**5. QA/QC QUESTIONNAIRE**

Please respond to the following questions. A follow-up QA/QC assessment or audit may be conducted as part of the tendering process. Please attach the relevant documentation, where specified.

No.	Question	Yes/No/NA	Documentation to be submitted
<b>Quality Management System</b>			
<b>General Requirements</b>			
1	Has bidder established, documented, implemented and maintained a quality management system in accordance with the requirements of ISO 9001?		Registration certificate for ISO 9001 for Contractor and each subcontractor involved in the work
<b>Quality Manual</b>			
2	Has a quality manual been established and maintained that includes:  a) The scope of the quality management system, including details of, and justification for any exclusions  b) Documented procedures established for the quality management system, or reference to them?  c) Description of the interaction between the processes of the quality management system?		Copy of Quality Manual for Contractor and each subcontractor involved in the work
<b>Certification and Affiliations</b>			
3	Are there recognized company certifications or affiliations Contractor may have in place?		Provide certifications and or list