



## **ENCANA CORPORATION Expression of Interest (EOI)**

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| <b>PROVISION OF:</b>  | <b>3rd Party Measurement System Audit Services</b> |
| <b>BIDS Category:</b> | 8100<br>8121<br>9100<br>9115                       |
| <b>Reference:</b>     | EOI EN08   |
| <b>Issue Date:</b>    | August 13, 2008                                    |
| <b>Closing Date:</b>  | August 22, 2008                                    |

### **DEEP PANUKE PROJECT SUMMARY**

EnCana Corporation is developing the Deep Panuke natural gas project in Nova Scotia's offshore. The project involves the installation of the facilities required to produce natural gas from the Deep Panuke field, located approximately 175 kilometres offshore Nova Scotia. 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. First gas from the project is expected in 2010.

### **PROJECT QUICK FACTS**

- The project was approved for development by EnCana's Board of Directors in October 2007.
- EnCana has entered into an agreement with Single Buoy Moorings Inc. (SBM) for the provision and operation of the Deep Panuke production field centre.
- The design capacity of the project is 300 MMcf/d of sales-quality gas.
- Regulatory applications for Deep Panuke were filed in 2006, with approvals granted in 2007.

### **BUSINESS OPPORTUNITIES**

EnCana is committed to providing opportunities for Nova Scotian and Canadian companies through employment, procurement and contracting on an internationally competitive basis, with full and fair opportunity for Nova Scotians and Canadians, and first consideration to Nova Scotians where competitive on a best value basis. Companies who have been invited to tender 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.

Interested firms are requested to demonstrate their capabilities and experience via a formal response to this EOI.

### **EXPRESSION OF INTEREST**

EnCana is seeking interested firms for the provision of 3rd Party Measurement System Audit Services.

## **SCOPE OF WORK**

### **Definitions**

C-NSOPB – Canada–Nova Scotia Offshore Petroleum Board

ICSS –Integrated Control and Safeguarding System

PFC – Production Field Centre

### **Scope Outline**

In order to ensure the integrity, accuracy and compliance of the Deep Panuke Metering System a third party audit will be undertaken. The audit work scope will be divided into three phases.

1. An audit of the flow system design prior to initiating construction.
2. An audit of physical meter installation, flow calculation verification, ICSS flow allocation system verification, and uncertainty calculations verification.
3. The third phase will be completed after start-up and will ensure implementation of the Flow System Application and that uncertainties as outlined in Phase 1 are being achieved.

The purpose of the audit is solely to determine whether or not the design of the Deep Panuke PFC metering systems are in line with the *Measurement Guidelines under the Newfoundland and Labrador and Nova Scotia Offshore Areas – Petroleum Production and Conservation Regulations - October 2003* (Joint Measurement Guidelines) and Part VI of the *Nova Scotia Offshore Area Petroleum Production and Conservation Regulations SOR/95-190, April 11, 1995*.

The auditor should be aware that although best endeavours will be made to have all metering systems commissioned prior to the audit, this may not be achievable due to Project constraints. The auditor will still be expected to comment on the suitability of the proposed metering technology and installation.

The auditor will be required to complete the following:

- Verify the physical installation of meters, individual meter uncertainty, flow rate calculations, maintenance, inspection and calibration procedures.
- Review and comment on the Flow System Application document which details the Flow System, Flow Calculation and Allocation Procedures.
- Review contingency plans for instrument / sensor failures.
- Review well flow calculation system inputs, and the overall readiness of the allocation system.
- Review measurement and allocation uncertainty estimates.
- Review and comment on proposed spares inventory.

### **INFORMATION REQUIREMENTS**

Responses should contain the following information:

- Demonstrate previous experience with a scope similar to that outlined above.
- Demonstrate previous experience with the technologies to be used on Deep Panuke.
- Detail past experience, if applicable, with the Nova Scotia Offshore Area Petroleum Production and Conservation Regulations and the CNSOPB Measurement Guidelines.
- Detail familiarity, if applicable, with well flow calculation production estimation software.
- Identify the personnel that will be performing the work and include detailed resumes. Any change in personnel must be approved by EnCana. If more than one person will be performing the audit and writing the report, clearly state the role of each individual.

### **INFORMATION REQUESTED WITH EOI RESPONSE**

Respondents must submit a brief Company profile, contact details, key personnel and a summary of related experience including local Nova Scotia capabilities and all data pertinent to the scope of supply.

EnCana will select qualified bidders using the responses to this EOI as a guide. Any eventual list of Bidders will be posted on BIDS Nova Scotia's website. EnCana reserves the right to select more than one Contractor to execute the above Scope of Work.

EnCana is under no obligation to proceed with a Request for Proposal as a result of this call for Expressions of Interest. Respondents that qualify will be invited to participate in the event Proposals are solicited.

Expressions of Interest must be received on or before 22 August, 2008. 1:00 PM Atlantic time.

All inquires and Expression of Interest must be clearly marked with the EOI reference number and should be directed to:

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