



## Advance Contract Award Notice

### 1.0 Introduction

The Canadian Nuclear Safety Commission (CNSC) has a requirement for a technical specialist with knowledge of the technical and regulatory aspects of the CNSC's activities specifically with regards to CNSC's Regulatory Framework. The purpose of this Advance Contract Award Notice (ACAN) is to signal the CNSC's intention to award a contract for these services to:

Mr. Vinh Tang  
Verify Reactor Safety  
6408 Loire Drive  
Ottawa, Ontario  
K1C 3C8

Before awarding a contract, however, the CNSC would like to provide other suppliers with the opportunity to demonstrate that they are capable of satisfying the requirements set out in this ACAN, by submitting a statement of capabilities within the posting period for this ACAN, which is 15 calendar days.

If, during the posting period, other potential suppliers submit a statement of capabilities that meets the requirements set out in this ACAN, the CNSC will proceed to a full tendering process via the Government Electronic Tendering Service or by inviting bids directly from suppliers.

If no other supplier submits, on or before the closing date, a statement of capabilities meeting the requirements set out in the ACAN, a contract will be awarded to the above-noted supplier.

### 2.0 Background

Throughout their career, technical specialists at the CNSC obtain a wealth of knowledge regarding a nuclear power plant's design, operation, and behaviour during an accident as well as the various regulatory standards and requirements (both Canadian and international) that the design and operational procedures must meet. This knowledge allows technical specialists to effectively provide a basis for licensing nuclear power plants and ensure their safe operation, activities that are critical to the CNSC's mandate.

When these experts retire or leave the CNSC, the knowledge they possess regarding Canadian nuclear installations leaves with them. Therefore, it is proposed that this important understanding of the workings and regulation of nuclear power plants be documented in a clear and concise format so that future regulatory personnel can access it and make use of it to perform their duties. This way, knowledge gained by staff members who have left or have retired from the CNSC will be transferred to current CNSC staff.

The CNSC has a requirement for a technical specialist with knowledge of the technical and regulatory aspects of the CNSC's activities specifically with regards to CNSC's Regulatory Framework. The work will involve the following:

#### 2.1 Objective

The CNSC wants to hire a recently retired CNSC expert with significant regulatory experience and extensive knowledge of the technical and regulatory aspects of CNSC activities. Such an expert would document several topics in which he/she possesses unique personal experience and knowledge, with the objective of making the essence of it available to other CNSC staff.



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### 2.2 Scope of Work

The scope of work includes documentation, following a defined structure, the insights and experience gained from the personal involvement in the following activities or decisions:

1. Molten Fuel – Moderator Interactions
2. LOCA-LOMA (loss of coolant and loss of moderator accident)
3. Performance of CANDU ECCS Strainers
4. Moderator system as heat sink (including moderator circulation and subcooling assessments)
5. Event reclassification for feeder break event
6. CANDU fuel channel refilling
7. Adjuster rod cooling
8. High temperature fuel and channel behaviour

Additional subjects may be identified.

### 2.3 Tasks to be Performed

For each of the subjects listed above, the tasks to be performed include:

1. Survey of the CNSC records on the subject
2. Presentation of the subject matter in a concise, approachable form of the essence of the issue, and its resolution
3. Soliciting peer review and addressing comments from other CNSC staff
4. Posting the final documents on the CNSC pages within the government of Canada GCpedia

The proposed contract is for a period of one year.

The estimated value of the contract is **\$35,000.00**. Applicable taxes are extra.

### 3.0 Minimum Mandatory Requirements

Any interested supplier must demonstrate by way of a statement of capabilities that it meets the following requirements:

- Experience: 25 years experience in the field of nuclear power (either with industry or as part of the regulator), at least half of which must have been working with CANDU reactors
- Extensive knowledge and understanding of the Canadian regulatory process for nuclear power reactors, the operation of CANDU reactors as well as accident phenomena in CANDU reactors
- Academic qualifications: Graduate degree from a recognized university in the field of science or engineering



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### 4.0 Justification for the Pre-selected Supplier

The suggested vendor has expert knowledge of the workings and accident phenomena of CANDU reactors gain from over 30 years experience in working with Canadian power reactors. Furthermore, the suggested vendor has extensive expertise in performing analyses of regulatory documents as well as the expertise needed to effectively evaluate the programs and designs of Canadian nuclear power plants to regulatory criteria detailed in said documents. The purpose of this contract is to ensure that CNSC retains the knowledge of the workings and regulation of Canadian nuclear power plants and the suggested vendor has a wealth of information to offer.

### 5.0 Intellectual Property

Canada intends to retain ownership of any foreground intellectual property arising out of the proposed contract on the basis that the main purpose of the contract is to generate knowledge and information for public dissemination.

### 6.0 Statement of Capabilities

Suppliers who consider themselves fully qualified and available to meet the specified requirements may submit a statement of capabilities in writing to the contracting authority 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.

The closing date and time for accepting statements of capabilities is April 1, 2014 at 2:00 p.m. EST).

### 7.0 Contact Information

Inquiries and statements of capabilities are to be directed to:

Joanne Gariepy  
Contracting Officer  
Canadian Nuclear Safety Commission  
280 Slater Street  
P.O. Box 1046, Station B  
Ottawa, Ontario  
K1P 5S9  
Canada

Telephone: 613-995-9939  
Fax: 613-995-5086  
Email: [Joanne.Gariepy@cnsccsn.gc.ca](mailto:Joanne.Gariepy@cnsccsn.gc.ca)

### 8.0 Policy Information

Government Contracts Regulations: section 6(d): "only one person is capable of performing the contract.