

**RETURN BIDS TO:  
RETOURNER LES SOUMISSIONS À:**

**Bid Receiving - PWGSC / Réception des  
soumissions - TPSGC**

**11 Laurier St. / 11, rue Laurier  
Place du Portage, Phase III  
Core 0A1 / Noyau 0A1  
Gatineau, Québec K1A 0S5  
Bid Fax: (819) 997-9776**

**REQUEST FOR PROPOSAL  
DEMANDE DE PROPOSITION**

**Proposal To: Public Works and Government  
Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services  
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

**Comments - Commentaires**

<b>Title - Sujet</b> Pre-purchase Cooling Towers	
<b>Solicitation No. - N° de l'invitation</b> EP119-132112/A	<b>Date</b> 2012-11-01
<b>Client Reference No. - N° de référence du client</b> 20132112	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$HP-912-61480	
<b>File No. - N° de dossier</b> hp912.EP119-132112	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2012-11-23</b>	<b>Time Zone Fuseau horaire</b> Eastern Standard Time EST
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Pearson, Neil	<b>Buyer Id - Id de l'acheteur</b> hp912
<b>Telephone No. - N° de téléphone</b> (819) 956-3976 ( )	<b>FAX No. - N° de FAX</b> (819) 953-2953
<b>Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:</b>  Specified Herein Précisé dans les présentes	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

**Vendor/Firm Name and Address**

**Raison sociale et adresse du  
fournisseur/de l'entrepreneur**

**Issuing Office - Bureau de distribution**

**Vehicles & Industrial Products Division  
11 Laurier St./11, rue Laurier  
7A2, Place du Portage, Phase III  
Gatineau, Québec K1A 0S5**

<b>Delivery Required - Livraison exigée</b> See Herein	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

## **TABLE OF CONTENTS**

### **PART 1 - GENERAL INFORMATION**

1. Security Requirement
2. Requirement
3. Debriefings
4. Interpretation

### **PART 2 - BIDDER INSTRUCTIONS**

1. Standard Instructions, Clauses and Conditions
2. Submission of Bids
3. Enquiries - Bid Solicitation
4. Applicable Laws
5. Improvement of Requirement During Solicitation Period

### **PART 3 - BID PREPARATION INSTRUCTIONS**

1. Bid Preparation Instructions
2. Section I: Technical Bid
3. Section II: Financial Bid
4. Section III: Certifications and Additional Information

### **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

1. Evaluation Procedures
2. Technical Evaluation
3. Financial Evaluation
4. Basis of Selection

### **PART 5 - CERTIFICATIONS**

1. Code of Conduct Certifications - Certifications Required Precedent to Contract Award
2. Certifications Precedent to Contract Award

## **PART 6 - RESULTING CONTRACT CLAUSES**

1. Security Requirement
2. Requirement
3. Standard Clauses and Conditions
4. Term of Contract
5. Authorities
6. Payment
7. Invoicing Instructions
8. Certifications
9. Applicable Laws
10. Priority of Documents
11. SACC Manual Clauses
12. Inspection and Acceptance
13. Preparation for Delivery
14. Shipping Instructions - DDP Destination
15. Post-Contract Award Meeting/Pre-Production Meeting
16. Condition of Material
17. Packaging

## **Attachments**

Annex "A" - Pricing

Annex "B" - Purchase Description - "Cooling Towers"

Appendix 1- Technical Information Questionnaire - "Cooling Towers"

## **PART 1 - GENERAL INFORMATION**

### **1. Security Requirement**

There is no security requirement associated with this requirement.

### **2. Requirement**

Canada is seeking proposals to procure:

- 2.1 Quantity Four (4) Cooling Towers and related items as described in Annex "A" - Pricing and in accordance with Annex "B" - Purchase Description Cooling Towers.
- 2.2 Irrevocable options identified in Annex "A" - Pricing.
  - 2.2.1 The options may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.
  - 2.2.2 The options may be exercised in whole or in part and on more than one occasion at the sole discretion of Canada, up to the maximum quantity identified in Annex "A" - Pricing.
  - 2.2.3 The options may be exercised within twelve (12) months after contract award.

### **3. Debriefings**

After contract award, bidders may request a debriefing on the results of the bid solicitation. Bidders should make the request to the Contracting Authority within 15 working days of receipt of notification that their bid was unsuccessful. The debriefing may be provided in writing, by telephone or in person.

### **4. Interpretation**

The mandatory requirements stated in this Request for Proposal use the words "must" or "mandatory". Proposals not meeting all of the mandatory requirements will be given no further consideration.

## **PART 2 - BIDDER INSTRUCTIONS**

### **1. Standard Instructions, Clauses and Conditions**

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the Standard Acquisition Clauses and Conditions (<http://ccua-sacc.tpsgc-pwgsc.gc.ca/pub/acho-eng.jsp>) Manual issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 **(2012-07-11)** Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 4 of Section 01 - Code of Conduct and Certifications of 2003 (2012-07-11) Standard Instructions is amended as follows:

Bidders should provide, with their bid or promptly thereafter, a complete list of names of all individuals who are currently directors of the Bidder. If such a list has not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to provide such a list within the required time frame will render the bid non-responsive. Bidders must always submit the list of directors before contract award.

Canada may, at any time, request that a Bidder provide properly completed and Signed Consent Forms (Consent to a Criminal Record Verification form - PWGSC-TPSGC 229) for any or all individuals named in the aforementioned list within a specified delay. Failure to provide such Consent Forms within the delay will result in the bid being declared non-responsive.

The text under Subsection 5 of Section 01 - Code of Conduct and Certifications of 2003 referenced above is replaced by:

The Bidder must diligently maintain the list up-to-date by informing Canada in writing of any change occurring during the validity period of the bid, and must also provide Canada, when requested, with the corresponding Consent Forms. The Bidder will also be required to diligently maintain the list and when requested, provide Consent Forms during the period of any contract arising from this bid solicitation.

Subsection **5.4 of 2003**, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

**Delete:** sixty (60) days

**Insert:** ninety (90) days

## **2. Submission of Bids**

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

## **3. Enquiries - Bid Solicitation**

All enquiries must be submitted to the Contracting Authority no later than **seven (7) calendar days** before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a "proprietary" nature must be clearly marked "proprietary" at each relevant item. Items identified as proprietary will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

## **4. Applicable Laws**

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in *Ontario*.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the bidders.

## **5. Improvement of Requirement During Solicitation Period**

Should bidders consider that the specifications, Statement of Work or Purchase Description contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the

Solicitation No. - N° de l'invitation

EP119-132112/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

hp912

Client Ref. No. - N° de réf. du client

20132112

File No. - N° du dossier

hp912EP119-132112

CCC No./N° CCC - FMS No/ N° VME

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suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least **seven (7) days** before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

## **PART 3 - BID PREPARATION INSTRUCTIONS**

### **1. Bid Preparation Instructions**

Canada requests that bidders provide their bid in separately bound sections as follows:

Section I: Technical Bid ( 2 hard copies);

Section II: Financial Bid ( 1 hard copy);

Section III: Certifications and Additional Information (2 hard copies).

Canada requests that bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation;

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process Policy on Green Procurement

(<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, bidders are encouraged to:

- 1) use paper containing fibre certified as originating from a sustainably-managed forest and/or containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

### **2. Section I: Technical Bid**

In their technical bid, bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

Bidders must complete and submit by the bid closing date and time the following;

- 1) Appendix "1" - Technical Information Questionnaire - Cooling Towers;
- 2) Tower Performance Analysis
- 3) All Drawings in accordance with Annex "B" Purchase Description Cooling Towers



### 3. Section II: Financial Bid

Bidders must submit their prices in Annex “A”- Pricing in accordance with the Basis of Payment described in **Part 6 - RESULTING CONTRACT CLAUSES**, at **Clause 6.1 Basis of Payment**.

#### 3.1 SACC Manual Clauses

C3011T	Exchange Rate Fluctuation	2010-01-11
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### 4. Section III: Certifications and Additional Information

Bidders must submit the certifications required under **PART 5 - CERTIFICATIONS**.

#### 4.1 Additional Information

Canada requests that bidders submit the following information:

##### 4.1.1 Delivery

##### 4.1.1.1 Firm Quantity

It is mandatory that the equipment be delivered **within 84 Calander days** from Contract award. The delivery that can be offered is as follows:

Item 001 – Quantity Four (4) Cooling Towers and related items will be delivered within \_\_\_\_\_ calendar days from the effective date of the contract.

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## **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

### **1. Evaluation Procedures**

- 1.1 Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- 1.2 An evaluation team composed of representatives of Canada will evaluate the bids.

### **2. Technical Evaluation**

- 2.1 The purpose of the technical evaluation is to determine if the goods and/or services offered meet all mandatory technical requirements outlined in the documents enumerated hereafter and as required in **Section I - Technical Bid of Part 3 -BID PREPARATION INSTRUCTIONS:**

- Appendix 1 - Technical Information Questionnaire Cooling Towers; and
- Annex “B” - Purchase Description Cooling Towers.

### **3. Financial Evaluation**

- 3.1 The purpose of the financial evaluation is to determine the aggregate price, based on the information submitted in Annex “A” - Pricing.
- 3.2 Aggregate Price Calculation

Bids will be evaluated on an aggregate price basis for the firm quantity and the options.

### **4. Basis of Selection**

- 4.1 A bid must comply with the requirements of the bid solicitation and meet all mandatory requirements including delivery period to be declared responsive. The responsive bid with the lowest evaluated aggregate price, meeting the mandatory delivery period, will be recommended for award of a contract.

## **PART 5 - CERTIFICATIONS**

Bidders must provide the required certifications to be awarded a contract. Canada will declare a bid non-responsive if the required certifications are not completed and submitted as requested.

Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The Contracting Authority will have the right to ask for additional information to verify bidders' compliance with the certifications before award of a contract. The bid will be declared non-responsive if any certification made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

### **1. Code of Conduct Certifications - Certifications Required Precedent to Contract Award**

- 1.1 Bidders should provide, with their bids or promptly thereafter, a complete list of names of all individuals who are currently directors of the Bidder. If such a list has not been received by the time the evaluation of bids is completed, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Bidders must submit the list of directors before contract award, failure to provide such a list within the required time frame will render the bid non-responsive.

The Contracting Authority may, at any time, request that a Bidder provide properly completed and Signed Consent Forms (Consent to a Criminal Record Verification form - PWGSC-TPSGC 229) for any or all individuals named in the aforementioned list within a specified delay. Failure to provide such Consent Forms within the delay will result in the bid being declared non-responsive.

### **2. Certifications Precedent to Contract Award**

The certifications listed below should be submitted with the bid, but may be completed and submitted afterwards. If any of these required certifications is not completed or submitted as requested, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

## 2.1 Federal Contractors Program - \$200,000 or more

1. The Federal Contractors Program (FCP) requires that some suppliers, including a supplier who is a member of a joint venture, bidding for federal government contracts, valued at \$200,000 or more (including all applicable taxes), make a formal commitment to implement employment equity. This is a condition precedent to contract award. If the Bidder, or, if the Bidder is a joint venture and if any member of the joint venture, is subject to the FCP, evidence of its commitment must be provided before the award of the Contract.

Suppliers who have been declared ineligible contractors by Human Resources and Skills Development Canada (HRSDC) are no longer eligible to receive government contracts over the threshold for solicitation of bids as set out in the Government Contracts Regulations. Suppliers may be declared ineligible contractors either as a result of a finding of non-compliance by HRSDC, or following their voluntary withdrawal from the FCP for a reason other than the reduction of their workforce to less than 100 employees. Any bids from ineligible contractors, including a bid from a joint venture that has a member who is an ineligible contractor, will be declared non-responsive.

2. If the Bidder does not fall within the exceptions enumerated in 3.(a) or (b) below, or does not have a valid certificate number confirming its adherence to the FCP, the Bidder must fax (819-953-8768) a copy of the signed form LAB 1168, Certificate of Commitment to Implement Employment Equity, to the Labour Branch of HRSDC.
3. The Bidder, or, if the Bidder is a joint venture the member of the joint venture, certifies its status with the FCP, as follows:

The Bidder or the member of the joint venture

- (a) ( ) is not subject to the FCP, having a workforce of less than 100 full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada;
- (b) ( ) is not subject to the FCP, being a regulated employer under the Employment Equity Act, S.C. 1995, c. 44;
- (c) ( ) is subject to the requirements of the FCP, having a workforce of 100 or more full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC (having not bid on

requirements of \$200,000 or more), in which case a duly signed certificate of commitment is attached;

- (d) ( ) is subject to the FCP, and has a valid certificate number as follows:  
\_\_\_\_\_ (e.g. has not been declared an ineligible contractor by HRSDC.)

Further information on the FCP is available on the HRSDC Web site.

[Http://www.hrsdc.gc.ca/eng/labour/equality/fcp/index.shtml](http://www.hrsdc.gc.ca/eng/labour/equality/fcp/index.shtml)

## **PART 6 - RESULTING CONTRACT CLAUSES**

### **1. Security Requirement**

There is no security requirement associated with this requirement.

### **2. Requirement**

- 2.1 The Contractor must deliver quantity four (4) Cooling Towers and related items as described in Annex "A" - Pricing and in accordance with Annex "B" - Purchase Description Cooling Towers.
- 2.2 The Contractor grants to Canada irrevocable options identified in Annex "A" - Pricing.
  - 2.2.1 The options may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.
  - 2.2.2 The options may be exercised in whole or in part and on more than one occasion at the sole discretion of Canada, up to the maximum quantity identified in Annex "A" - Pricing.
  - 2.2.3 The options may be exercised within twelve (12) months after contract award.

### **3. Standard Clauses and Conditions**

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (<http://sacc.pwgsc.gc.ca/sacc/index-e.jsp>) issued by Public Works and Government Services Canada.

#### **3.1 General Conditions**

**2010A (2012-07-16) General Conditions - Goods (Medium Complexity)**, apply to and form part of the contract.

Subsection 4 of Section 29 - Code of Conduct and Certifications of 2010A (2012-07-16) General Conditions - Goods is amended as follows:

During the entire period of the Contract, the Contractor must diligently update, by written notice to the Contracting Authority, the list of names of all individuals who are directors of the Contractor whenever there is a change. As well, whenever

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requested by Canada, the Contractor must provide the corresponding Consent Forms.

3.1.1 **Section 09** of general conditions **2010A** is amended as follows;

DELETE: period of twelve (12) months;

INSERT: period in accordance with Annex "B" - Purchase Description  
Cooling Towers, section 1.4 - Warranty

All other provisions of the warranty section remain in effect.

#### 4. Term of Contract

##### 4.1 Delivery of Cooling Towers

###### 4.1.1 Firm Quantity

Delivery date of the Cooling Towers must be made as follows:

Item 001 - **Cooling Towers** and related items must be delivered on or before  
\_\_\_\_\_ (Date to be inserted by PWGSC the Contracting Authority at time of  
contract award.)

#### 5. Authorities

##### 5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Neil Pearson

Title: Supply Specialist

Organization: Public Works and Government Services Canada - Acquisitions Branch  
LEFT Directorate, HP Division,  
7A2, Place du Portage, Phase 3, 11 Laurier Street, Gatineau Quebec,  
K1A 0S5

Telephone: 819 956-3976

Facsimile: 819 953-2953

E-mail: neil.pearson@pwgsc-tpsgc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the

Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

## 5.2 Procurement Authority

The Procurement Authority for the Contract is:

Name: \_\_\_\_\_ (To be inserted by PWGSC at time of contract award.)

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

Organization: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Telephone: \_\_\_\_ - \_\_\_\_ - \_\_\_\_

Facsimile: \_\_\_\_ - \_\_\_\_ - \_\_\_\_

E-mail: \_\_\_\_\_

The Procurement Authority is the representative of the department or agency for whom the Work is being carried out under the Contract. The Procurement Authority is responsible for the implementation of tools and processes required for the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract with the Procurement Authority however the Procurement Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of Work can only be made through a contract amendment issued by the Contracting Authority.

## 5.3 Technical Authority:

The Technical Authority for the Contract is:

Name: \_\_\_\_\_ (To be inserted by PWGSC at time of contract award.)

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

Organization: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Telephone: \_\_\_\_ - \_\_\_\_ - \_\_\_\_

Facsimile: \_\_\_\_ - \_\_\_\_ - \_\_\_\_

E-mail: \_\_\_\_\_

The Technical Authority named above is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract.



Technical matters may be discussed with the Technical Authority, however the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

#### 5.4 Contractor's Representative

Name and telephone number of the person responsible for :

##### General enquiries

Name: \_\_\_\_\_ (To be inserted by PWGSC at time of contract award.)

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

Telephone: \_\_\_\_-\_\_\_\_-\_\_\_\_

Facsimile: \_\_\_\_-\_\_\_\_-\_\_\_\_

E-mail: \_\_\_\_\_

##### Delivery follow-up

Name: \_\_\_\_\_ (To be inserted by PWGSC at time of contract award.)

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

Telephone: \_\_\_\_-\_\_\_\_-\_\_\_\_

Facsimile: \_\_\_\_-\_\_\_\_-\_\_\_\_

E-mail: \_\_\_\_\_

### 6. Payment

#### 6.1 Basis of Payment - Firm Unit Price(s)

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid the firm unit price(s) specified in Annex "A" - Pricing, and as follows:

Basis of Payment (BOP) Type 1:	Firm unit prices in Canadian dollars, Delivered Duty Paid at destination, Incoterms 2000, including Canadian Custom Duties and Excise Taxes included where applicable, Goods and Services tax/Harmonized Sales Tax extra.
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#### 6.2 SACC Manual Clauses

H1001C	Multiple Payments	2008-05-12
C2000C	Taxes - Foreign-based Contractor	2007-11-30

## **7. Invoicing Instructions**

The Contractor must submit invoices in accordance with the section entitled "Invoice submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

### **7.1. Invoices must be distributed as follows:**

- (a) The original must be forwarded to the following address for certification and payment:

PWGSC  
Real Property Team  
Lease Purchase and Sale Leaseback  
NCA Operations  
427 Avenue, Laurier West  
3rd Floor  
Ottawa, Ontario  
K1A 0S5

Attention:

- (b) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

Note 1: Invoices of Delivered Duty Paid, Incoterms 2000 contract will not be submitted prior to shipment of materiel.

## **8. Certifications**

Compliance with the certifications provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification or it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

## **9. Applicable Laws**

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

## **10. Priority of Documents**

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) 2010A (2012-07-16) General Conditions - Goods (Medium Complexity);
- (c) Annex "A" - Pricing;
- (d) Annex "B" - Purchase Description - "Cooling Towers"
- (e) Appendix 1- Technical Information Questionnaire - "Cooling Towers"
- (f) the Contractor's bid dated \_\_\_\_\_

## 11. SACC Manual Clauses

A1009C	Work Site Access	2008-05-12
C2800C	Priority Rating	2011-05-16
C2801C	Priority Rating - Canadian-based Contractors	2011-05-16
D3010C	Dangerous Goods/Hazardous Products	2012-07-16
D9002C	Incomplete Assemblies	2007-11-30

## 12. Inspection and Acceptance

The Technical Authority is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of the Statement of Work and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

## 13. Preparation for Delivery

The equipment must be serviced, adjusted and delivered in condition for immediate use. The interior and exterior must be cleaned before leaving the factory and being released to the client department personnel at the final delivery location. Prior to preparing material for storage prepare inventory list and digital record of offloaded equipment.

All equipment delivered to the consignee are to be delivered between the hours of 8:00 am and 4:00 pm Monday through Friday, except Federal holidays. Any attempt by the carrier to deliver the equipment before or after these hours may be refused unless arrangements have been made for authorized, qualified personnel to be available to perform inspections and to accept the delivery. When the carrier is required to return due to its failure to make an appointment for delivery, Canada will not be liable to pay for additional costs.

#### **14. Shipping Instructions - Delivery at Destination (For Firm quantities)**

- 14.1 The Contractor must ship the goods prepaid DDP - Delivered Duty Paid (as detailed at Annex "A"- Pricing). Unless otherwise directed, delivery must be made by the most economical means. The Contractor is responsible for all delivery charges, administration, costs and risks of transport and customs clearance, including the payment of customs duties and taxes.
- 14.2 The Contractor must deliver the goods by appointment only. The Contractor or its carrier must arrange delivery appointments by contacting the contacts specified in Annex "A"- Pricing. The consignee may refuse shipments when prior arrangements have not been made.
- 14.3 The Cooling Tower module (s) must arrive as single, fully assembled and wired components, on a flatbed trailer. The Sub-Structure legs, sump, and sump hardware shall be shipped on a separate pallet on the same trailer. When provided, Motor Control Panel and/or Basin Heater Panel shall also ship on separate pallet on same trailer.
- 14.4 Upon arrival of Cooling Tower module(s) (prior to any lifting operation), the tower must be inspected on the truck by the Department Representative for general acceptance. Any items of concern related to damage or lifting operations shall be documented and reported (in writing) to the manufacturer's representative.
- 14.5 Prior to lifting and off loading Cooling Tower(s) , all excess water must be removed from basin.
- 14.6 Cooling Tower(s) will be temporarily placed and stored on the ground prior to its final installation. The Cooling Tower(s) shall be stored on sound and level surface. Care shall be taken at all times not to distort or rack the tower modules envelope. Provide temporary weather protection for all material shipped.
- 14.7 Upon delivery to the designated site provide suitable pressure treated wood sleepers for equipment placing and storage on the flat surface.

#### **15. Post-Contract Award Meeting/Pre-Production Meeting**

Within ten (10) working days of the receipt of the Contract, the Contractor must contact the Technical Authority to determine the details of a pre-production meeting. The meeting will be held at the Contractor's plant \_\_\_\_\_ (specify location). Cost of holding such pre-production meeting must be included in the price of the bid. Please note that the travel and living expenses for Government Personnel will be arranged and paid for by the Canada.

**16. Condition of Material**

The Contractor must provide material that is new production of current manufacture supplied by the principal manufacturer or its accredited agent. The material must conform to the latest issue of the applicable drawing, specification and part number, as applicable, that was in effect on the bid closing date.

**17. Packaging**

The methods used for preservation and packaging must be in conformity with the Contractor's normal standard for domestic shipment or, if necessary, with standards for overseas shipment as below deck cargo. Provide heavy duty "winterized" shrink wrap for all shipped components

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## ANNEX "A" - PRICING

### Item 001 "Cooling Towers" (Firm Quantity)

The Contractor must deliver the equipment including all deliverables in accordance with the attached Annex "B" - Purchase Description - Cooling Towers.

The "Cooling Towers" and related items must be delivered to:

Macoun Center  
1770 Pink road.  
Gatineau, Québec

Delivery contact: \_\_\_\_\_ (Name to be inserted by PWGSC at time of contract award.)

Date of delivery: \_\_\_\_\_ (Date to be inserted by PWGSC at time of contract award.)

Firm unit price of \$ \_\_\_\_\_ per Cooling Tower, including all related items, in accordance with Basis of Payment Type 1 (as detailed at Clause 6.1 Basis of Payment).

Quantity: Four (4)

### Item 002 Installation Start up Service (Options)

If this option is exercised, the Contractor must carry out Installation Start up service in accordance with the attached Annex "B" - Purchase Description - Cooling Towers

Firm unit price of \$ \_\_\_\_\_ per Installation Start up Service in accordance with Basis of Payment Type 1 (as detailed at Clause 6.1 Basis of Payment).

Quantity: Up to Two(2)

### Item 003 Maintenance and Operation Training (Options)

If this option is exercised, the Contractor must carry out maintenance and Operation training service in accordance with the attached Annex "B" - Purchase Description - Cooling Towers

Firm unit price of \$ \_\_\_\_\_ per Maintenance and Operation training service in accordance with Basis of Payment Type 1 (as detailed at Clause 6.1 Basis of Payment).

Solicitation No. - N° de l'invitation

EP119-132112/A

Amd. No. - N° de la modif.

File No. - N° du dossier

hp912EP119-132112

Buyer ID - Id de l'acheteur

hp912

Client Ref. No. - N° de réf. du client

20132112

CCC No./N° CCC - FMS No/ N° VME

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Quantity: Up to Two(2)

## **ANNEX B**

### **PURCHASE DESCRIPTION**

#### **Condensers, Coolers and Cooling Towers**

##### 1.1 References

- .1 American Society of Mechanical Engineers (ASME).
  - .1 ASME B16.1-2010, Cast Iron Pipe Flanges and Flanged Fittings.
- .2 American National Standards Institute (ANSI)/ American Water Works Association (AWWA).
  - .1 ANSI/AWWA C111/A21.11-2007, Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings
- .3 Cooling Technology Institute (CTI)
  - .1 CTI 105-ATC (00) Tower Standard Specifications for Acceptance Test Code for Water Cooling Towers.
  - .2 CTI STD-201 (11) Standard for Thermal Performance Certification of Evaporative Heat Rejection Equipment.
  - .3 CTI ESG-152 (10) Structural Design of FRP Components.
  - .4 CTI STD-203 (05) Industrial Cooling Tower Standard
- .4 Within text of each specifications section, reference may be made to reference standards. Conform to these reference standards, in whole or in part as specifically requested in specifications.
- .5 If requested furnish documents proofing that equipment conforms to applicable standards. If there is question as to whether products or systems are in conformance with applicable standards, Departmental Representative reserves right to have such products or systems tested to prove or disprove conformance.

##### 1.2 Deliverables

- .1 Deliverables must be submitted in duplicates and be job specific and include the following:
  - .1 Tower Performance Analysis showing Flow L/S, Tower Inlet/Outlet Temperatures (°C), Wet Bulb Temperature (°C), required Motor Horsepower, and Kw/Ton at the two design flow rates (320 l/s 4 towers) and 112 l/s 2 towers)
  - .2 All Data to be job specific.
  - .3 Delete information not applicable to project.
  - .4 Drawings showing plan and elevation views with all critical dimensions, tower weight (dry & operating), design operating conditions, and motor data.
  - .5 Drawings, diagrams, illustrations, schedules, performance charts, brochures and other data which are to be provided to illustrate details of equipment and accessories.
    - .1 Indicate materials, methods of construction and attachment or anchorage, erection diagrams, connections, explanatory notes and other information necessary for completion of Work. Where articles or equipment attach or connect to other articles or equipment, indicate that such items have been coordinated.



## **ANNEX B**

### **PURCHASE DESCRIPTION**

- .6 Dimensioned fabrication drawings of tower support structure accompanied by all manufacturers engineering load calculations confirming design.
- .7 Drawing of tower "Lift Rigging" recommendations showing proper sizing of spreader bar, locations of pre-installed lifting brackets, and final leveling instructions.
- .8 Submissions include:
  - .1 Date and revision dates.
  - .2 Project title and number.
  - .3 Name and address of:
    - .1 Supplier.
    - .2 Manufacturer.
  - .4 Identification of submission by specific element of Work.
  - .5 Stamp or signature by authorized representative certifying compliance with Documents.
  - .6 Details of appropriate portions of Work as applicable:
    - .1 Fabrication.
    - .2 Layout, showing dimensions, including identified field dimensions, and clearances.
    - .3 Setting or erection details.
    - .4 Capacities.
    - .5 Performance characteristics.
    - .6 Standards.
    - .7 Operating weight.
    - .8 All necessary wiring diagrams showing internal tower wiring and all required field connections by others.
      - .1 Wiring diagrams and Installation drawings shall also be provided for all optional equipment (Tower Control Panel, Basin Heaters, Ultra Sonic Level Control, VFD) when applicable.
    - .9 Single line and schematic diagrams.
    - .10 Relationship to adjacent work.
    - .11 Copy of manufacturers' written warranty regarding materials and labour, along with the conditions under which warranty is subject.
- .9 Operation and Maintenance Manual.
- .10 Maintain blank area 75 mm x 75 mm for review stamp and comments.
- .11 Ensure submissions are capable of being copied or faxed without loss of legibility or detail
- .12 Present shop drawings, product data in SI Metric units.
- .13 Where items or information is not produced in SI Metric units converted values are acceptable.

#### **1.3 Delivery assembled and Storage and Handling**

- .1 Cooling Tower modules must arrive as single, fully wired components, on a flatbed trailer. The Sub-Structure legs, aux. trim, sump hardware, VFD motor control panel and basin heater with control panel must be shipped on a separate pallet on the same trailer.
- .2 Upon arrival of Cooling Tower module(s) (prior to any lifting operation), the tower must be inspected on the truck for general acceptance. Any items of concern related to damage or lifting operations must be documented and reported (in writing) to the manufacturer's

## **ANNEX B**

### **PURCHASE DESCRIPTION**

representative.

- .3 Prior to lifting and off-loading Cooling Tower(s) , all excess water must be removed from basin.

#### **1.4 Warranty**

- .1 Cooling Tower manufacturer must provide material and labour warranty, in accordance with conditions specified within written warranty, as follows:
  - .1 Cold water basin and tower casing must be covered by a Fifteen (15) years parts and labour warranty from date of shipment from factory. Excludes cosmetic or superficial damage/wear.
  - .2 Internal Components:(Fill and drift eliminators, Water distribution system,Water collection system)must be covered by a Five (5) year warranty from date of shipment from factory.
  - .3 Mechanical and Electrical Components (Fans,VFD and Motors) must be covered by a Five (5) year warranty from date of shipment from factory
  - .4 Labour - Two (2) year from date of shipment from factory.

#### **1.5 General Requirements**

- .1 Furnish 4 only factory-assembled, forced draft, counter-flow, modular cooling Towers. Towers will be located in two mechanical wells (South and North) as shown on supplementary drawings SK-1and 2. Each Tower overall dimensions must not exceed 5.8m long by 3.6m wide by 5.2m overall height. The Tower must be capable of operating independently or in combination with the others Towers. The Tower's principal construction must be as follows:
  - .1 Pultruded Fiberglass Reinforced Polyester (FRP) and must have a flame spread rating less than 25 or a flammability coefficient of 94-V0, or
  - .2 Full metal construction of 304 Stainless Steel.

#### **1.6 Thermal Performance**

- .1 Any Submitted proposal must meet all construction and all Thermal Performance details listed within this specification.
- .2 Cooling Tower must be capable of handling variable flow rates maintaining 3 to 1 turndown and flow handling assembly being self cleaning, and made of PVC or other non corrosive material. The manufacturer must guarantee the tower(s) supplied will meet the specified performance conditions when the tower(s) is (are) installed according to plan and per the guidelines established in the tower manufacturers current Installation, Operation and Maintenance Manual.
  - .1 The Cooling Towers must perform as follows:
    - .1 Ambient air conditions: 21.7C WB and 60% RH
    - .2 Condenser water delta T: 11.2C
    - .3 Condenser water temp out: 29.4C
    - .4 Condenser water temp in: 40.6C

## **ANNEX B**

### **PURCHASE DESCRIPTION**

- .5 Condenser water flow total: 454 l/s (4 towers)
  - .6 Minimum Summer condenser water flow total: 151 l/s (4 towers)
  - .7 Minimum Winter condenser water flow total: 302 l/s (4 towers).
  - .8 Using the following conditions: HWT = 40.6C CWT = 29.4C WB = 21.7C the Cooling towers must use no more than 70.8BHP at 320 l/s (Four towers, full design flow) and 9.6BHHP at 112 l/s (Two Towers, Minimum Design flow)
  - .9 Cooling Towers must be design to operate and deliver the specified performance when located as per drawings (SK-1 and 2) with 2 Towers in each of the North and South roof well locations.
- .3 Cooling tower must be Cooling Technology Institute (CTI) Certified as set forth in the CTI Certification Standard STD-201(02). Towers claiming to be CTI "listed" or "designed" to CTI specifications will not be acceptable.
  - .4 Tower(s) intended in location in North well must be furnished with heater and all accessories ready for future winter operation.

#### **1.7 Design Loading**

- .1 Tower shell and substructure (support legs) must be designed to withstand a wind load equivalent to 241 km/h and be able to resist seismic forces classified under Zones 1-4.
  - .1 Tower design must not require vibration insulators for tower operation.

#### **1.8 Construction**

- .1 The cold water basin and the tower casing must be constructed of pultruded Fiberglass Reinforced Polyester (FRP) with UV inhibitors. FRP must have a minimum thickness of 6mm and a minimum density of 1.9 G/cm<sup>3</sup> Specially placed reinforcement and a UV veil layer will ensure the structural strength and longevity or 304 Stainless Steel.
- .2 PERIMETER BASIN
  - .1 Tower shell or casing must have an integral perimeter basin. Its elevated location must reduce operational pump head requirements. Its high velocity (5-7 feet per second) water flow during operation must minimize accumulation of sediment. Perimeter basin must be equipped with one inspection port, at each corner support member, on the front and rear surfaces. Basin must be equipped with a pair of 2" NPT Stainless Steel "Winter Drain" connections located on opposite sides of the tower perimeter basin base, and "Mid-Basin" inspection ports located in base of the tower perimeter basin, between each pair of fans.
  - .2 Towers with conventional basin designs must provide an all 304 stainless steel, heavy gauge basin with depressed center section, adequate drain (removable standpipe) for flushing, and a "Sweeper" piping system to prevent sediment buildup and/or stagnant water areas that permit algae and other biological growth. Sweeper piping system must include all necessary "Eductor" nozzles, piping, pump, sediment separator, and electronic controllers for a completely automatic system.
- .3 SUMP

## **ANNEX B**

### **PURCHASE DESCRIPTION**

- .1 Tower must be equipped with a terminally mounted (end wall) outlet flanged discharge connection for simplified piping.
- .2 A manufacturer supplied, field installed Ultra-Sonic Level Sensor Probe and a NEMA 4X, Non-Metallic Enclosure containing a Water Level Controller capable of operating a water make-up valve (Supplied and Installed by others). The sensor must be located in the Overflow connection on the cooling tower return line piping. The water make-up valve must be located on the cooling tower condenser water return line prior to roof penetration (Indoors). The enclosure must have a Low Level Audible Alarm and Indicating Light as well as a make-up valve "Activate" pilot light mounted on the door. The Water Level Controller must have a 4-20mA Signal Meter for customer verification of the Level Sensor Probe signal.
- .4 **FILL AND DRIFT ELIMINATORS**
  - .1 Fill must be Polyvinyl Chloride (PVC) of cross-fluted design, 10 mil (after forming), impervious to decay, fungus and biological attack. Fill sheets must be self-spacing, supported on maximum spans of 300mm. Each fill sheet must have a microstructure to improve heat transfer. Fill sheets must be bonded together to give a cross-corrugated pattern by application of glue only to dedicated glue joints. Fill packs made from random application of glue must not be acceptable. Fill packs or blocks must be placed in the tower so as to provide the tightest fit possible without damage to the fill.
  - .2 Drift eliminators must be minimum three-pass Polyvinyl Chloride (PVC) material of cellular design impervious to decay, fungus and biological attack. Drift losses must not exceed 0.005% of the design circulating flow rate.
- .5 **WATER DISTRIBUTION SYSTEM**
  - .1 Water must enter the tower through a low pressure, non-corrosive Polyvinyl Chloride (PVC) Schedule 40 piping system. Water must be evenly sprayed over the fill media by evenly spaced and sized nozzles. Water delivery must be capable of a variable flow of 6.3 l/s to 19 l/s per nozzle while maintaining full fill media coverage without overlap.
  - .2 Towers with a gravity distribution basin or fixed orifice nozzles must include a ladder equipped with safety cage and a fan deck handrail system to provide access to the gravity distribution basin for routine maintenance.
- .6 **WATER COLLECTION SYSTEM**
  - .1 The tower must utilize a water collection system positioned beneath the fill media and above the air inlet. The water collection system must collect cold water as it falls from the fill media and channel the cooled water into the tower's elevated perimeter basin permitting the mechanical equipment to be mounted in the cool dry entering air stream beneath the tower. The water collectors must be made of extruded flame retardant Acrylonitrile Butadiene Styrene copolymer (ABS) or 304 Stainless Steel material and must contain an integral damper system that opens mechanically with airflow. The damper system will prevent entry of airborne debris when the fan below it is off.
- .7 **MOTORS**
  - .1 The tower must contain Totally Enclosed Air Over (TEAO) motors with a service factor of 1.15 and must be suitable for 575 Volt, 3-phase, 60-Hz service. Motors must operate at 860-900 RPM synchronous speed and be rated for inverter duty.

## **ANNEX B**

### **PURCHASE DESCRIPTION**

All motors must be factory pre-wired to individual rotary disconnects using Double Shielded Cable, oil resistant, VFD compatible, allowing service to be performed while remaining fans continue to operate. Each cell must be operated by a VFD connected to all fans. Fans must be modulated equally.

#### **.8 FANS**

- .1 Fans must be of an axial, airfoil design positioned within an aerodynamic streamlined fiberglass shroud and installed with a minimum of tip clearance for maximum efficiency. Fan blades must be manufactured of Fiberglass-Reinforced Polypropylene and be pitch-adjustable. Fan hubs must be manufactured of high strength, low weight aluminum alloy to minimize stress and wear on motor bearings. The tower must have 1 direct drive fans per cell. The fan assembly and motor must both be located outside the hot moist exiting air stream.

#### **.9 CONTROL PANEL**

- .1 All control for Cooling Tower must be design for stand alone operation and third party BAS interface.  
Compatible with BACnet IP
- .2 Furnish a NEMA 1 rated motor control panel completely wired with a fused control power transformer, cover mounted lockable main disconnect, individual HAND-OFF-AUTO switches, green fan "On" and red fan "Trip" indicating lights for each fan motor. Panel will be shipped loose, for field installation by others.
- .3 Each internally mounted combination motor starter/adjustable overload protector must have an integral lockable circuit breaker to enable individual motor isolation.
- .4 Terminal blocks must be provided for main power feed, individual fan motor connections, and any externally mounted control input and outputs. All final wiring from Tower mounted disconnects to terminal strips located in motor control panel, and the main power feed to motor control panel, must be completed in the field by others.
- .5 Panel must include a pre-programmed, door mounted, PID Loop controller capable of cold water temperature monitoring, and cooling tower fan motor control. If the VFD Fails or enters bypass mode, the control panel will begin staging (energizing) fan motors (at full 870 RPM speed), beginning from the front of the tower, until the correct numbers of fans are operational to maintain the desired cold water setpoint temperature. For 6-fan towers, this is done in pairs of two. Subsequently, fan motors must be de-staged, beginning from the back of the tower, in similar fashion as described for staging.
- .6 A separate (0-100 ohm) temperature RTD probe must be supplied loose, for field install in the cooling tower return piping.
- .7 A Variable Frequency Drive (VFD) must be used in conjunction with tower fan motors. The PID Loop Controller must be equipped with a (0-10 VDC, 0-100% Range) fan motor "Speed" output. This feature must modify fan motor speeds to maintain desired cold water temperature and maximize energy savings. All fans in each tower cell must be wired to a single VFD, operating all fans in unison, providing airflow across entire tower fill media. When the VFD Bypass is engaged, or drive failure occurs, the PID Loop Controller must de-energize all fan motors starters, and begin a "Fan Staging" sequence of operation with fan motors operating a full speed (870 RPM).
- .8 All Variable Frequency Drives (VFD's) must be sized according to Total Connected Amps (including all applicable service factors required by governing

## **ANNEX B**

### **PURCHASE DESCRIPTION**

Electrical Codes), not total connected horsepower. All VFD's must be equipped with the following options as a minimum:

- .1 Input fused disconnect with through door handle
- .2 3% Line Impedance Reactor
- .3 Automatic Bypass Contactors
- .4 Drive run, Bypass run, Motor overload, Power "on", and Enable lights
- .5 Local control and programming keypad
- .9 Motor control panel must have a Variable Frequency Drive (VFD) factory mounted and wired within enclosure.

#### **1.9 Installation Options**

- .1 Provide representative of manufacturer for installation supervision and start up. Allow for 4(four)@ 8hr visit
- .2 Provide representative of manufacturer for Owner training. Train Owner's maintenance personnel to operate and maintain cooling tower(s) and controls including:
  - .1 Starting and Stopping of Fan Motors
  - .2 Sequence of Operation
  - .3 Troubleshooting & Servicing
  - .4 Routine Maintenance
  - .5 Schedule training with Owner, allow for 2(two)@ 4hr visit

END

**APPENDIX 1**  
**TECHNICAL INFORMATION QUESTIONNAIRE**  
**COOLING TOWERS**

This Questionnaire covers technical information, which MUST be provided for the evaluation of the equipment offered.

**Company Name** - \_\_\_\_\_

**Name of Representative** - \_\_\_\_\_ - **Signature** - \_\_\_\_\_

**Manufacturer's Name** - \_\_\_\_\_

**Compliance**

Equipment provided complies with all specified requirements? Yes ☐ No ☐

**SPECIFICATION PARAGRAPHS**

1.1 **References** - Mandatory Requirement - Complies? Yes ☐ No ☐

1.2 **Deliverables** - Mandatory Requirement - Complies? Yes ☐ No ☐

Deliverables to be submitted with Proposal:

Tower Performance Analysis.	Attached Yes <input type="checkbox"/> No <input type="checkbox"/>
All Shop drawings, diagrams illustrations.	Attached Yes <input type="checkbox"/> No <input type="checkbox"/>
Schedules, performance charts, and brochures.	Attached Yes <input type="checkbox"/> No <input type="checkbox"/>

1.3 **Delivery** - Mandatory Requirement - Complies? Yes ☐ No ☐

1.4 **Warranty** - Mandatory Requirement - Complies? Yes ☐ No ☐

1.5 **General Requirements** - Mandatory Requirement - Complies? Yes ☐ No ☐

Please identify make/model/year (where applicable) for the Equipment being proposed:

	Equipment
Make	
Model	
Year	

Are components used within their published capacities? Yes ☐ No ☐

**Overall dimensions** - Mandatory Requirement - Complies? Yes ☐ No ☐

Please attach a product brochure. Attached Yes ☐ No ☐  
☐

1.6 **Thermal Performance** - Mandatory Requirement - Complies? Yes ☐ No ☐

1.7 **Design Loading** - Mandatory Requirement - Complies? Yes ☐ No ☐

1.8 **Construction** - Mandatory Requirement - Complies? Yes ☐ No ☐

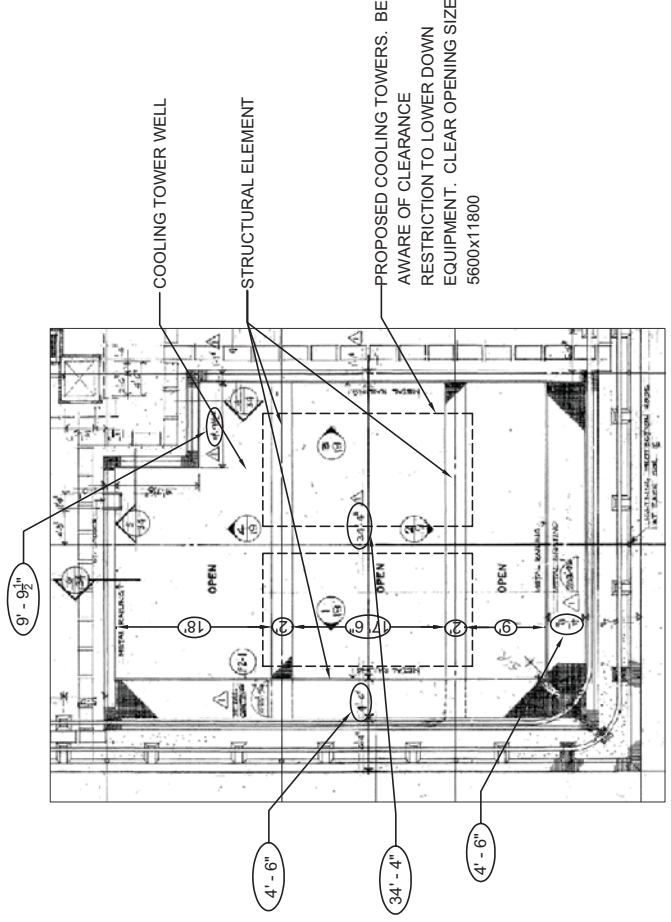
1.9 **Installation Start up Service**  
- Mandatory Requirement - Complies? Yes ☐ No ☐

**Maintenance and Operation Training**

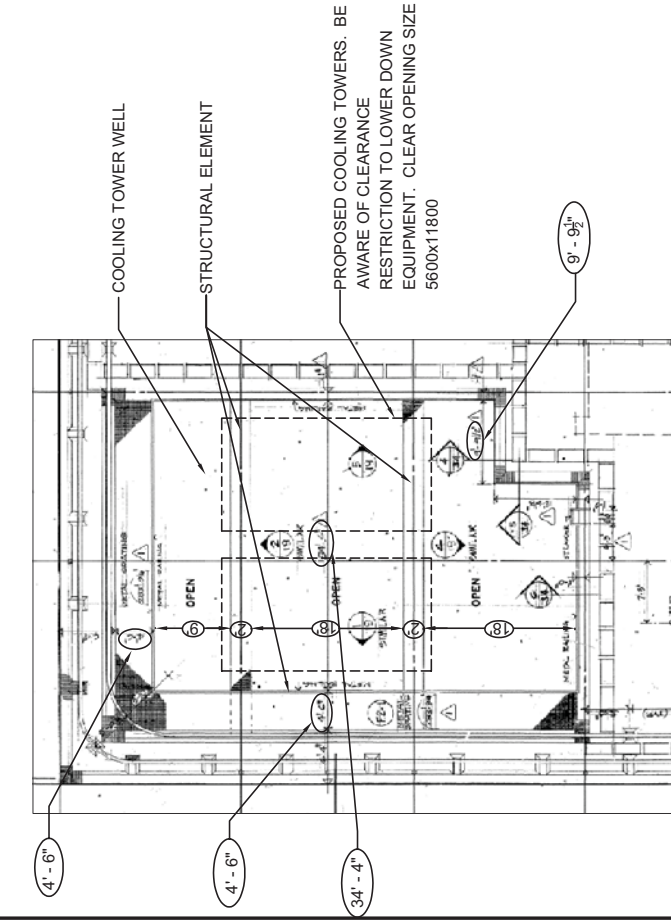
- Mandatory Requirement - Complies?

Yes ☐ No ☐





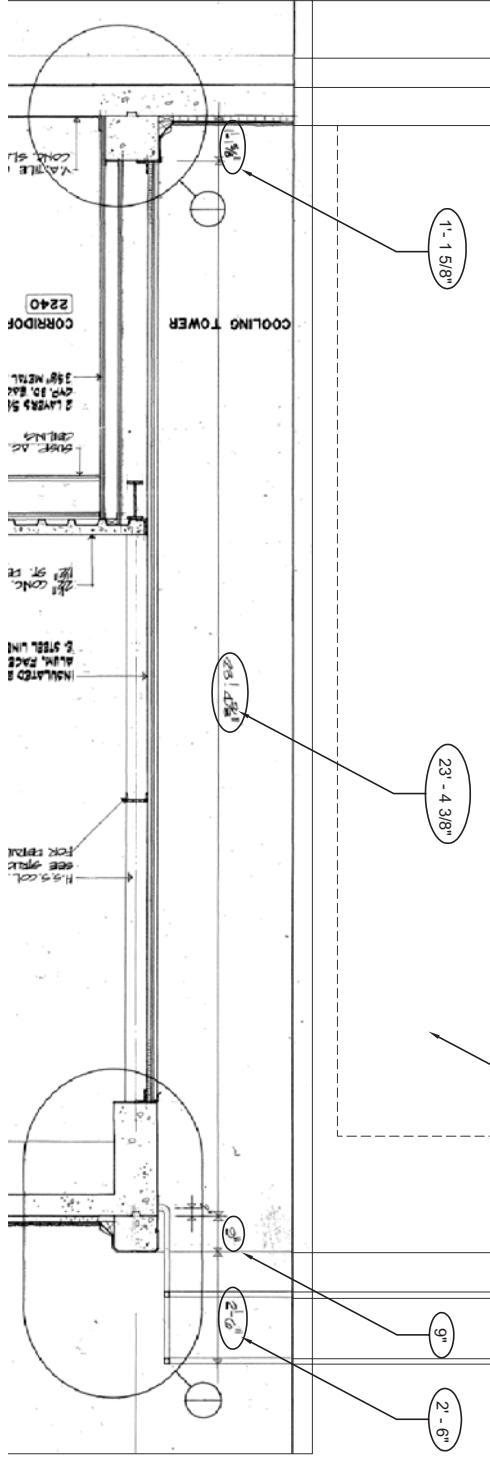
**2 SOUTH TOWER**  
**SK1** SCALE N.T.S.



**1 NORTH TOWER**  
**SK1** SCALE N.T.S.

PROJECT	L'ESPLANADE LAURIER COOLING TOWER PRE PURCHASING			
	NORTH & SOUTH TOWERS			
TITLE	Date	Drawn	File No.	
	SEPT /12	P.B.		
	Project No.	Checked	Drawing No.	
	A000135	C.M.	SK-1	

PROJECT		L'ESPLANADE LAURIER COOLING TOWER PRE PURCHASING	
TITLE		SECTION	
Date	OCT /12	Drawn	P.B.
Project No.	A000135	Checked	C.M.
		Drawing No.	
		SK-2	



1 SECTION  
SCALE N.T.S. SK2

PROPOSED COOLING TOWER WITH  
STRUCTURAL SUPPORT. BE AWARE  
OF HEIGHT RESTRICTION.