

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
**Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada**
John Cabot Building
10 Barters Hill, P.O. Box 4600
St. John's
Newfoundland and Labrador
A1C 5T2
Bid Fax: (709) 772-4603

Request For a Standing Offer
Demande d'offre à commandes

Regional Individual Standing Offer (RISO)
Offre à commandes individuelle régionale (OCIR)

Canada, as represented by the Minister of Public Works and
Government Services Canada, hereby requests a Standing Offer
on behalf of the Identified Users herein.

Le Canada, représenté par le ministre des Travaux Publics et
Services Gouvernementaux Canada, autorise par la présente,
une offre à commandes au nom des utilisateurs identifiés
énumérés ci-après.

Comments - Commentaires

Vendor/Firm Name and Address
**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Issuing Office - Bureau de distribution
PWGSC/TPSGC-Nfld Region/Real Property
John Cabot Building
10 Barters Hill, P.O. Box 4600
St. John's
Newfoundl
A1C 5T2

Title - Sujet SO Insp. & Maint. Elect. Equip.-Var	
Solicitation No. - N° de l'invitation F6879-131009/A	Date 2013-08-12
Client Reference No. - N° de référence du client F6879-131009	GETS Ref. No. - N° de réf. de SEAG PW-\$PWD-010-5932
File No. - N° de dossier PWD-3-36037 (010)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2013-08-30	
Time Zone Fuseau horaire Newfoundland Daylight Saving Time NDT	
Delivery Required - Livraison exigée See Herein	
Address Enquiries to: - Adresser toutes questions à: Chaulk, Patricia	Buyer Id - Id de l'acheteur pwd010
Telephone No. - N° de téléphone (709)772-8357 ()	FAX No. - N° de FAX (709)772-4603
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Various Locations, St. John's, NL	
Security - Sécurité This request for a Standing Offer includes provisions for security. Cette Demande d'offre à commandes comprend des dispositions en matière de sécurité.	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone	Facsimile No. - N° de télécopieur
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)	
Signature	Date

Solicitation No. - N° de l'invitation

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

F6879-131009

Amd. No. - N° de la modif.

File No. - N° du dossier

PWD-3-36037

Buyer ID - Id de l'acheteur

pwd010

CCC No./N° CCC - FMS No/ N° VME

"THIS DOCUMENT CONTAINS A SECURITY REQUIREMENT"

REQUEST FOR STANDING OFFER (RFSO)

IMPORTANT NOTICE TO OFFERORS

THIS DOCUMENT CONTAINS A SECURITY REQUIREMENT

For further instructions please consult "Special Instruction to Offeror", SI10, "Security related requirements" and "Supplementary Conditions" SC01 "Security related requirements".

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SPECIAL INSTRUCTIONS TO OFFERER'S (SI)

SI01 INTRODUCTION

1. Public Works and Government Services Canada (PWGSC) is inviting Offerors to submit proposals for Standing Offers. The selected offerors shall provide a range of services as identified in the Statement of Work section of this document.
2. It is PWGSC's intention to authorize up to One [1] Standing Offer, each for a period of Two [2] years. Canada also reserves the irrevocable option to extend this contract for an additional Two (2) One(1)Year periods The total dollar value of all Standing Offers is estimated to be \$113,000.00 (GST or HST included). Individual call-ups will vary, up to a maximum of \$10,000.00 (GST or HST included). Offerors should note that there is no guarantee that the full or any amount of the Standing Offers will be called-up; PWGSC will issue call-ups only when the specific services to be provided under the Standing Offer are needed. Please refer to Section SOP04, CALL-UP PROCEDURE.

SI02 CODE OF CONDUCT AND CERTIFICATIONS - RELATED DOCUMENTATION

By submitting an offer, the Offeror certifies that he and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications - Offer of the General Instructions. The related documentation therein required will assist Canada in confirming that the certifications are true.

SI03 ENQUIRIES DURING THE SOLICITATION PERIOD

1. Enquiries regarding this offer must be submitted in writing to the Contracting Officer named on the Request for Standing Offer (RFSO). Enquiries should be received no later than five [5] calendar days prior to the date set for solicitation closing to allow sufficient time to provide a response. Enquiries received after that time may not result in an answer being provided.
2. To ensure consistency and quality of the information provided to Offerors, the Contracting Officer shall examine the content of the enquiry and shall decide whether or not to issue an amendment.
3. All enquiries and other communications related to this offer sent throughout the solicitation period are to be directed ONLY to the Contracting Officer named on the RFSO - Page 1. Failure to comply with this requirement may result in the offer being declared non-responsive.

SI04 CONTRACTING AUTHORITY / DEPARTMENTAL REPRESENTATIVE

1. The Contracting Authority for this Request for Standing Offer is:

Public Works and Government Services Canada

Patricia Chaulk
Contracting Officer
Public Works and Government Services Canada (PWGSC)
Acquisitions Branch

Real Property Contracting
P.O. Box 4600
10 Barter's Hill
St. John's, NL A1C 5T2
Telephone: (709) 772-8357
Facsimile: (709) 772-4603
E-mail address: Patricia.Chaulk@pwgsc-tpsgc.gc.ca

The Contracting Authority is responsible for the establishment of the Standing Offer, its administration, and any contractual issues relating to individual call-ups.

2. A Departmental Representative will be identified at time of each individual Call-Up. The Departmental Representative will be responsible for all matters concerning the technical content of the work under the Call-Up.

SI05 QUANTITY

The amount of work and estimated expenditure specified in the RFSO are only an approximation of requirements given in good faith. The making of an offer by the Offeror shall not constitute an agreement by Canada. Canada may make one or several call-ups against a standing offer.

SI06 PWGSC OBLIGATION

A RFSO does not commit PWGSC to authorize the utilization of a standing offer or to pay any cost incurred in the submission of offers, or cost incurred in making necessary studies for the preparation thereof, or to procure or contract for any services. PWGSC reserves the right to reject or authorize for utilization any offer in whole or in part, with or without further discussion or negotiation. Canada reserves the right to cancel or amend the RFSO at any time.

SI07 SITE VISIT

It is recommended that the Bidder or a representative of the Bidder visit the work site. Arrangements have been made for a tour of the work site. The site visit will be held on Wednesday, August 21, 2013, at 9:00 am and will depart from the DFO Southside Base, 280 South Side Road, St. John's, NL.

All interested parties should meet at the commissioner's desk at Southside Base for sign in and subsequent tour of the facilities. Anyone coming to the bidder's meeting would need to have a photo ID in order to sign in and also wear a Hard Hat, Safety boots and safety vest when in the SSB yard.

Bidders who do not attend or send a representative will not be given an alternative appointment but they will not be precluded from submitting a bid. Any clarifications or changes to the bid solicitation resulting from the site visit will be included as an amendment to the bid solicitation.

SI08 REVISION OF OFFER

An offer may be revised by letter or facsimile in accordance with "General Instructions to Offerors". The facsimile number for receipt of revisions is (709) 772-4603.

SI09 OFFER VALIDITY PERIOD

1. The offer cannot be withdrawn for the period of **one hundred and twenty [120] days** following the RFSO closing date.
2. Canada reserves the right to seek an extension to the offer validity period. Upon notification in writing from Canada, Offerors shall have the option to either accept or reject the proposed extension.
3. If the extension referred to in paragraph 2 of SI09 is accepted, in writing, by all those who submitted offers, then Canada shall continue immediately with the evaluation of the offers and its approvals processes.
4. If the extension referred to in paragraph 2. of SI09 is not accepted in writing by all those who submitted offers then Canada shall, at its sole discretion, either
 - a. continue to evaluate the offers of those who have accepted the proposed extension and seek the necessary approvals; or
 - b. cancel the invitation to tender.
5. The provisions expressed herein do not in any manner limit Canada's rights in law or under GI09 "General Instructions to Offerors".

SI10 SECURITY RELATED REQUIREMENTS

1. **At offer closing, the Offeror must hold a valid Security Clearance** as indicated in section SC01 of the Supplementary Conditions. Failure to comply with this requirement will render the offer non-compliant and no further consideration will be given to the offer.
2. The Successful Offeror's personnel, as well as any subcontractor and its personnel, who are required to perform any part of the work pursuant to the subsequent contract must meet the mandatory security requirement as indicated in section SC01 of the Supplementary Conditions. **Individuals who do not have the required level of security will not be allowed on site.** It is the responsibility of the successful Offeror to ensure that the security requirements are met throughout the performance of the offer. Canada will not be held liable or accountable for any delays or additional costs associated with the successful Offeror's non-compliance with the mandatory security requirement.
3. For additional information on security requirements, offeror's should consult the "Security Requirements for PWGSC Offer Solicitations - Instructions for Offeror" on the Standard Procurement Documents_Web site <http://www.tpsgc-pwgsc.gc.ca/app-acq/lc-pl/lc-pl-eng.html#a31>.

SI11 WEB SITES

The connection to some of the Web sites in the solicitation documents is established by the use of hyperlinks. The following is a list of the addresses of the Web sites:

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File No. - N° du dossier

PWD-3-36037

Buyer ID - Id de l'acheteur

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CCC No./N° CCC - FMS No/ N° VME

Contracts Canada (Buy and Sell) <https://www.achatsetventes-buyandsell.gc.ca/eng/welcome>

Canadian economic sanctions <http://www.international.gc.ca/sanctions/index.aspx?lang=eng>

Contractor Performance Evaluation Report (Form PWGSC-TPSGC 2913)

<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/2913.pdf>

Certificate of Insurance (form PWGSC-TPSGC 357)

<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/357.pdf>

Standard Acquisition Clauses and Conditions (SACC) Manual

<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>

Schedules of Wage Rates for Federal Construction Contracts

http://www.rhdcc-hrsdc.gc.ca/eng/labour/employment_standards/contracts/schedule/index.shtml

PWGSC, Industrial Security Services <Http://ssi-iss.tpsgc-pwgsc.gc.ca/index-eng.html> PWGSC, Code of Conduct and Certifications

<Http://www.tpsgc-pwgsc.gc.ca/app-acq/cndt-cndct/index-eng.html>

PWGSC Consent to a Criminal Record Verification (PWGSC-TPSGC 229)

<Http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/229.pdf>

GENERAL INSTRUCTIONS TO OFFERORS (GI)

GI01 CODE OF CONDUCT AND CERTIFICATIONS - OFFER

1. Offerors must comply with the Code of Conduct for Procurement. In addition to the Code of Conduct for, offerors must a) respond to Requests for Standing Offers (RFSO) in an honest, fair and comprehensive manner, b) accurately reflect their capacity to satisfy the requirements stipulated in the RFSOs, Standing Offers and resulting contracts, c) submit offers and enter into contracts only if they will fulfill all obligations of the Contract.

2. Offerors further understand that, to ensure fairness, openness and transparency in the procurement process, the commission of certain acts or offences will render them ineligible to be issued a Standing Offer and awarded a contract. Canada will declare non-responsive any offer in respect of which the information herein requested is missing or inaccurate, or in respect of which the information contained in the certifications specified hereinafter is found to be untrue, in any respect, by Canada. If it is determined, after issuance of a Standing Offer, that the Offeror made a false declaration, Canada will have the right to set aside the Standing Offer and to terminate for default any resulting contracts. The Offeror will be required to diligently maintain up-to-date the information herein requested. The Offeror and any of the Offeror's affiliates, will also be required to remain free and clear of any acts or convictions specified herein during the period of any Standing Offer arising from this RFSO and any call-ups made against the Standing Offer.

3. For the purpose of this section, everyone, including but not limited to organizations, bodies corporate, societies, companies, firms, partnerships, associations of persons, parent companies and subsidiaries, whether partly or wholly-owned, as well as individuals and directors, are Offeror's affiliates if:

- a. directly or indirectly either one controls or has the power to control the other, or
- b. third party has the power to control both.

Indicia of control, include, but are not limited to, interlocking management or ownership, identity of interests among family members, shared facilities and equipment, common use of employees, or a business entity created following the acts or convictions specified in this section which has the same or similar management, ownership, or principal employees, as the case may be.

4. Offerors who are incorporated, including those submitting offers as a joint venture, must provide with their offer or promptly thereafter a complete list of names of all individuals who are currently directors of the Offeror. Offerors submitting offers as sole proprietorship, including those submitting offers as a joint venture, must provide with their offer or promptly thereafter the name of the owner. Offerors submitting offers as societies, firms, or partnerships do not need to provide lists of names. If the required names have not been received by the time the evaluation of offers is completed, Canada will inform the Offeror of a time frame within which to provide the information. Failure to comply will render the offer non-responsive. Providing the required names is a mandatory requirement for a Standing Offer to be issued.

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

5. The Offeror must diligently maintain an up-to-date list of names by informing Canada in writing of any change occurring during the validity period of the offer as well as during the period of any Standing Offer arising from this RFSO and any call-ups made against the Standing Offer. The Offeror must also, when so requested, provide Canada with the corresponding Consent Forms.

6. By submitting an offer, the Offeror certifies that it is aware, and that its affiliates are aware, that Canada may request additional information, certifications, consent forms and other evidentiary elements proving identity or eligibility. Canada may also verify the information provided by the Offeror, including the information relating to the acts or convictions specified herein, through independent research, use of any government resources or by contacting third parties.

7. By submitting an offer, the Offeror certifies that neither the Offeror nor any of the Offeror's affiliates have directly or indirectly, paid or agreed to pay, and will not, directly or indirectly, pay a contingency fee to any individual for the solicitation, negotiation or obtaining of the Standing Offer and any call-ups made against the Standing Offer if the payment of the fee would require the individual to file a return under section 5 of the Lobbying Act.

8. By submitting an offer, the Offeror certifies that no one convicted under any of the provisions under a) or b) are to receive any benefit under a Standing Offer arising from this RFSO and any call-ups made against the Standing Offer. In addition, the Offeror certifies that except for those offences where a criminal pardon or a record suspension has been obtained or capacities restored by the Governor in Council, neither the Offeror nor any of the Offeror's affiliates has ever been convicted of an offence under any of the following provisions:

Paragraph

- a. 80(1)(d) (False entry, certificate or return), subsection 80(2) (Fraud against Her Majesty) or section 154.01 (Fraud against Her Majesty) of the Financial Administration Act, or
- b. section 121 (Frauds on the government and Contractor subscribing to election fund), section 124 (Selling or Purchasing Office), section 380 (Fraud) for fraud committed against Her Majesty or section 418 (Selling defective stores to Her Majesty) of the Criminal Code of Canada, or
- c. section 462.31 (Laundering proceeds of crime) or sections 467.11 to 467.13 (Participation in activities of criminal organization) of the Criminal Code of Canada, or
- d. section 45 (Conspiracies, agreements or arrangements between competitors), 46 (Foreign directives) 47 (Bid rigging), 49 (Agreements or arrangements of federal financial institutions), 52 (False or misleading representation), 53 (Deceptive notice of winning a prize) under the Competition Act, or
- e. section 239 (False or deceptive statements) of the Income Tax Act, or
- f. section 327 (False or deceptive statements) of the Excise Tax Act, or
- g. section 3 (Bribing a foreign public official) of the Corruption of Foreign Public Officials Act, or
- h. section 5 (Trafficking in substance), section 6 (Importing and exporting), or section 7 (Production of substance) of the Controlled Drugs and Substance Act.

9. In circumstances where a criminal pardon or a record suspension has been obtained, or capacities have been restored by the Governor in Council, the Offeror must provide with its offer or promptly thereafter a copy of confirming documentation from an official source. If such documentation has not been received by the time the evaluation of offers is completed, Canada will inform the Offeror of a time frame within which to provide the information. Failure to comply will render the offer non-responsive

10. Offerors understand that Canada may contract outside of the present solicitation process with a supplier who has been convicted of an offense enumerated under c) to h) of the paragraph hereinabove, or who is affiliated with someone who has been convicted of an offense enumerated under c) to h) of the paragraph hereinabove, when required to do so by law or legal proceedings, or when Canada considers it necessary to the public interest for reasons which include, but are not limited to:

Only one person is capable of performing the contract;

- Emergency;
- National security;
- Health and safety;
- Economic harm.
-

Canada reserves the right to impose additional conditions or measures to ensure the integrity of the procurement process.

GI02 COMPLETION OF OFFER

1. The offer shall be
 - a. Submitted in accordance with the instructions contained in the RFSO;
 - b. correctly completed in all respects;
 - c. signed by a duly authorized representative of the Offeror; and
 - d. accompanied by any other document or documents specified elsewhere in the RFSO where it is stipulated that said documents are to accompany the offer.
2. Any alteration to the pre-printed or pre-typed sections of the Price Proposal Form, or any condition or qualification placed upon the offer shall be cause for disqualification. Alterations, corrections, changes or erasures made to statements or figures entered on the Price Proposal Form by the Offeror shall be initialled by the person or persons signing the offer. Alterations, corrections, changes or erasures that are not initialled shall be deemed void and without effect.
3. Unless otherwise noted elsewhere in the RFSO, facsimile copies of offers are not acceptable.

GI03 IDENTITY OR LEGAL CAPACITY OF THE OFFEROR

In order to confirm the authority of the person or persons signing the offer or to establish the legal capacity under which the Offeror proposes to enter into Contract, any Offeror who carries on business in other than its own personal name shall, if requested by Canada, provide satisfactory proof of

- a. such signing authority; and
- b. the legal capacity under which it carries on business;

prior to contract award. Proof of signing authority may be in the form of a certified copy of a resolution naming the signatory(ies) that is (are) authorized to sign this offer on behalf of the corporation or partnership. Proof of legal capacity may be in the form of a copy of the articles of incorporation or the registration of the business name of a sole proprietor or partnership.

GI04 APPLICABLE TAXES

"Applicable Taxes" means the Goods and Services Tax (GST), the Harmonized Sales Tax (HST), and any provincial tax, by law, payable by Canada such as, the Quebec Sales Tax (QST) as of April 1, 2013.

GI05 CAPITAL DEVELOPMENT AND REDEVELOPMENT CHARGES

Building permits fees (if applicable) will be applied to call-ups. The Offeror shall not include any monies in the offer amount for special municipal development, redevelopment or other fees or charges which a municipal authority may seek as a prerequisite to the issuance of building permits.

GI06 LISTING OF SUBCONTRACTORS AND SUPPLIERS

Notwithstanding any list of Subcontractors that the Offeror may be required to submit as part of the offer, the Offeror shall, within forty-eight (48) hours of receipt of a notice to do so, submit all information requested in the said notice including the names of Subcontractors and Suppliers for the part or parts of the Work listed. Failure to do so shall result in the disqualification of its offer.

GI07 SUBMISSION OF OFFER

1. Canada requests that offerors follow the format instructions described below in the preparation of their offer.

- a. use 216 mm x 279 mm (8.5 x 11 inch) paper;
- b. use a numbering system that corresponds to that of the Request for Standing Offers;

2. The offer envelope shall be addressed and submitted to the office designated on the Front Page "Request for Standing Offer" for the receipt of the offers. The offer must be received on or before the date and time set for solicitation closing. Prior to submitting the offer, the Offeror shall ensure that the following information is clearly printed or typed on the face of the offer envelope:

- a. Solicitation Number;
- b. Name of Offeror;
- c. Return address; and
- d. Closing Date and Time.

The offer shall be in Canadian currency. Exchange rate fluctuation protection is not offered. Any request for exchange rate fluctuation protection shall not be considered.

3. Timely and correct delivery of offers is the sole responsibility of the Offeror.

GI08 REVISION OF OFFER

1. An offer submitted in accordance with these instructions may be revised by letter or facsimile provided the revision is received at the office designated for the receipt of offers, on or before the date and time set for the closing of the solicitation. The letter or facsimile shall on the Offeror's letterhead or bear a signature that identifies the Offeror.
2. A revision to an offer that includes unit prices must clearly identify the change(s) in the unit price(s) and the specific item(s) to which each change applies.

GI09 REJECTION OF OFFER

1. Canada may accept any offer, whether it is the lowest or not, or may reject any or all offers.
2. Without limiting the generality of paragraph 1. of GI09, Canada may reject an offer if any of the following circumstances is present:
 - a. the Offeror's bidding privileges are suspended or are in the process of being suspended;
 - b. The Offeror's bidding privileges of any employee or subcontractor included as part of the offer are suspended or are in the process of being suspended, which suspension or pending suspension would render that employee or subcontractor ineligible to make an offer on the Work, or the portion of the Work the employee or subcontractor is to perform;
 - c. the Offeror is bankrupt, or where for whatever reason, its activities are rendered inoperable for an extended period;
 - d. evidence, satisfactory to Canada, of fraud, bribery, fraudulent misrepresentation or failure to comply with any law protecting individuals against any manner of discrimination, has been received with respect to the Offeror, any of its employees or any subcontractor included as part of its offer;
 - e. evidence satisfactory to Canada that based on past conduct or behavior, the Offeror, a sub-contractor or a person who is to perform the Work is unsuitable or has conducted himself/herself improperly;
 - f. with respect to current or prior transactions with Canada
 - i. Canada has exercised, or intends to exercise, the contractual remedy of taking the work out of the contractor's hands with respect to a contract with the Offeror, any of its employees or any subcontractor included as part of its offer; or
 - ii. Canada determines that the Offeror's performance on other contracts is sufficiently poor to jeopardize the successful completion of the requirement being offered on.
3. In assessing the Offeror's performance on other contracts pursuant to subparagraph 2.f.i & ii. GI09, Canada may consider, but not be limited to, such matters as:

- a. the quality of workmanship in performing the Work;
 - b. the timeliness of completion of the Work;
 - c. the overall management of the Work and its effect on the level of effort demanded of the department and its representative; and
 - d. the completeness and effectiveness of the Contractor's safety program during the performance of the Work.
4. Without limiting the generality of paragraphs 1., 2. and 3. of GI09, Canada may reject any offer based on an unfavourable assessment of the
- a. adequacy of the offer price to permit the work to be carried out and, in the case of an offer providing prices per unit, whether each such price reasonably reflects the cost of performing the part of the work to which that price applies;
 - b. Offeror's ability to provide the necessary management structure, skilled personnel, experience and equipment to perform competently the work under the Contract; and
 - c. Offeror's performance on other contracts.
5. When Canada intends to reject an offer pursuant to a provision of paragraphs 1., 2., 3. or 4. of GI09, other than subparagraph 2.a. of GI09, the Contracting Authority will inform the Offeror and provide the Offeror ten (10) days within which to make representations, before making a final decision on the offer rejection.
6. Canada may waive informalities and minor irregularities in offers received if Canada determines that the variation of the offer from the exact requirements set out in the Offer Documents can be corrected or waived without being prejudicial to other offerors

GI10 OFFER COSTS

No payment will be made for costs incurred in the preparation and submission of an offer in response to the offer solicitation. Costs associated with preparing and submitting an offer, as well as any costs incurred by the Offeror associated with the evaluation of the offer, are the sole responsibility of the Offeror.

GI11 PROCUREMENT BUSINESS NUMBER

Offerors are required to have a Procurement Business Number (PBN) before contract award. Offerors may register for a PBN in the Supplier Registration Information system on the Contracts Canada Web site. For non-Internet registration, Offerors may contact the nearest Supplier Registration Agent.

GI12 COMPLIANCE WITH APPLICABLE LAWS

1. By submission of an offer, the Offeror certifies that the Offeror has the legal capacity to enter into a contract and is in possession of all valid licences, permits, registrations, certificates, declarations, filings, or other authorizations necessary to comply with all federal, provincial and municipal laws and regulations applicable to the submission of the offer and entry into any ensuing call-up for the performance of the work.
2. For the purpose of validating the certification in paragraph 1. of G112, a Offeror shall, if requested, provide a copy of every valid licence, permit, registration, certificate, declaration, filing or other authorization listed in the request, and shall provide such documentation within the time limit(s) set out in the request.
3. Failure to comply with the requirements of paragraph 2. of G112 shall result in disqualification of the offer.

GI13 APPROVAL OF ALTERNATIVE MATERIALS

When materials are specified by trade names or trademarks, or by manufacturers' or suppliers' names, the offer shall be based on use of the named materials. During the solicitation period, alternative materials may be considered provided full technical data is received in writing by the Contracting Officer at least ten (10) calendar days prior to the solicitation closing date. If the alternative materials are approved for the purposes of the offer, an addendum to the offer documents shall be issued.

GI14 PERFORMANCE EVALUATION

1. Offerors shall take note that the performance of the Offeror during and upon completion of the work may be evaluated by Canada. The evaluation shall be based on the quality of workmanship; timeliness of completion of the work; project management, contract management and management of health and safety. Should the Contractor's performance be considered unsatisfactory, the Contractor's bidding privileges on future work may be suspended indefinitely.
2. The form PWGSC-TPSGC 2913, SELECT - Contractor Performance Evaluation Report Form, is used to record the performance.

GI15 CONFLICT OF INTEREST - UNFAIR ADVANTAGE

1. In order to protect the integrity of the procurement process, offerors are advised that Canada may reject an offer in the following circumstances:
 - a. if the Offeror, any of its subcontractors, any of their respective employees or former employees was involved in any manner in the preparation of the offer solicitation or in any situation of conflict of interest or appearance of conflict of interest;
 - b. if the Offeror, any of its subcontractors, any of their respective employees or former employees had access to information related to the offer solicitation that was not available to other offerors and that would, in Canada's opinion, give or appear to give the Offeror an unfair advantage.
2. The experience acquired by a offeror who is providing or has provided the goods and services described in the offer solicitation (or similar goods or services) will not, in itself, be considered by

Canada as conferring an unfair advantage or creating a conflict of interest. This offeror remains however subject to the criteria established above.

3. Where Canada intends to reject an offer under this section, the Contracting Authority will inform the Offeror and provide the Offeror an opportunity to make representations before making a final decision. Offerors who are in doubt about a particular situation should contact the Contracting Authority before offer closing. By submitting an offer, the Offeror represents that it does not consider itself to be in conflict of interest nor to have an unfair advantage. The Offeror acknowledges that it is within Canada's sole discretion to determine whether a conflict of interest, unfair advantage or an appearance of conflict of interest or unfair advantage exists.

STANDING OFFER PARTICULARS

SOP01 GENERAL

1. The Offeror acknowledges that a standing offer is not a contract and that the issuance of a Standing Offer and Call-up Authority does not oblige or commit Canada to procure or contract for any services listed in the Standing Offer.
2. The Offeror offers to provide and deliver to Canada the services described in the Standing Offer, in accordance with the pricing set out in the Request for Standing Offer if, and when the Contracting Authority may request such services, in accordance with the conditions listed at subsection 3 below.
3. The Offeror understands and agrees that:
 - a. a call-up against the Standing Offer will form a contract only for those services which have been called-up, provided that such call-up is made in accordance with the provisions of the Standing Offer;
 - b. Canada's liability is limited to that which arises from call-ups against the Standing Offer made within the period specified in the Standing Offer;
 - c. Canada has the right to procure the services specified in the Standing Offer by means of any other contract, standing offer or contracting method;
 - d. the Standing Offer cannot be assigned or transferred in whole or in part;
 - e. the Standing Offer may be set aside by Canada at any time.

SOP02 PERIOD OF THE STANDING OFFER

The period for placing call-ups against the Standing Offer shall be for Two [2] years commencing from the start date identified on the Standing Offer.

Option to Extend

The Contractor grants to Canada the irrevocable option to extend the term of the Standing Offer by up to Two (2) additional One (1) year period(s) under the same conditions. The Contractor agrees that, during the extended period of the Standing Offer, it will be paid in accordance with the applicable provisions as set out in the Price Proposal Form attached as Appendix 4.

SOP03 CALL-UP LIMITATION

Each call-up against the Standing Offer will have a maximum limitation of expenditure of \$10,000.00 (Applicable Taxes included).

SOP04 CALL-UP PROCEDURE

1. Services will be called-up as follows:
 - A. For each individual call-up the Offeror will be provided the scope of work and will submit an offer to the Departmental Representative in accordance with the unit rates established under the Standing Offer. The Contractor's offer shall include all of the work as specified including; mobilizing, sub-trades, materials, labour, tools, administration fees and supervision as offered in the RFSO including building permits as per local regulations.
2. The Offeror will be authorized in writing by the Contracting Authority to proceed with the work by issuance of a Call-up against the Standing Offer using form_2829.
3. Any proposed changes to the scope of work are to be discussed with the Departmental Representative but any resulting changes can only be authorized by an amendment issued by the Contracting Authority.

SUPPLEMENTARY CONDITIONS (SC)

SC01 SECURITY ACCESS REQUIREMENTS FOR CANADIAN CONTRACTORS

1. The Contractor/Offeror must, at all times during the performance of the Contract/Standing Offer, hold a valid Designated Organization Screening (DOS), issued by the Canadian Industrial Security Directorate (CISD), Public Works and Government Services Canada (PWGSC).
2. The Contractor/Offeror personnel requiring access to sensitive work site(s) must EACH hold a valid RELIABILITY STATUS, granted or approved by CISD/PWGSC.
3. Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of CISD/PWGSC.
4. The Contractor/Offeror must comply with the provisions of the:
 - (a) Security Requirements Check List and security guide (if applicable), attached at Appendix 2;
 - (b) Industrial Security Manual (Latest Edition).

CALL-UPS CLAUSES OR RESULTING CONTRACT DOCUMENTS (CD)

1. The following are the call-up's contract documents:
 - a. The call up against the Standing Offer, including any annexes;
 - b. General Conditions and clauses

GC1	General Provisions	R2810D	(2013-04-25);
GC2	Administration of the Contract	R2820D	(2012-07-16);
GC3	Execution and Control of the Work	R2830D	(2010-01-11);
GC4	Protective Measures	R2840D	(2008-05-12);
GC5	Terms of Payment	R2550D	(2010-01-11);
GC6	Delays and Changes in the Work	R2860D	(2013-04-25);
GC7	Default, Suspension or Termination of Contract	R2870D	(2008-05-12);
GC8	Dispute Resolution	R2884D	(2008-05-12);
GC9	Insurance	R2590D	(2011-05-16);
	Fair Wages and Hours of Labour - Labour Conditions	R2940D	(2012-07-16);
	Allowable Costs for Contract Changes Under GC6.4.1	R2950D	(2007-05-25);
	Schedules of Wage Rates for Federal Construction Contracts;		
	Supplementary Conditions		
 - c. Any amendment or variation of the contract documents that is made in accordance with the General Conditions.
2. The documents identified by title, number and date above are incorporated by reference and are set out in the Standard Acquisition Clauses and Conditions (SACC) Manual, issued by Public Works and Government Services Canada (PWGSC). The SACC Manual is available on the PWGSC Web site:

<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>
3. Schedules of Wage Rates for Federal Construction Contracts is included by reference and may be accessed from the Web site:

http://www.rhdcc-hrsdc.gc.ca/eng/labour/employment_standards/contracts/schedule/index.shtml.
4. The language of the contract documents is the language of the Price Proposal Form submitted.

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File No. - N° du dossier

PWD-3-36037

Buyer ID - Id de l'acheteur

pwd010

CCC No./N° CCC - FMS No/ N° VME

APPENDIX 2- SECURITY REQUIREMENTS CHECK LIST (SRCL)

(3 pages as attached)

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APPENDIX 3- STATEMENT OF WORK

(SPECIFICATION)

(87 pages as attached)

APPENDIX 4 - PRICE PROPOSAL FORM

SO Inspections & Repair/Maintenance of Electrical Equipment -Various Locations, St. John's, NL 2 Year Term

- 1) The prices per unit shall govern in establishing the Total Extended Amount. Any arithmetical errors in this Appendix will be corrected by Canada.

UNIT PRICE TABLE

The Unit Price Table designates Work to which a Unit Price Arrangement applies.

- (a) Work included in each item is as described in the referenced specification section.
(b) The Price per Unit shall not include any amounts for Work that is not included in that unit price Item.

2 YEAR TERM

Item	Specification Reference	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity (EQ)	Price per Unit GST/HST extra (PU)	Extended amount (EQ x PU) GST/HST extra
1		Annual Inspection of the identified electrical equipment at the following facilities:				
	a	Southside Base Building	Per Year	1	\$	\$
	b	Buoy Shed / Buoy Maintenance Facility	Per Year	1	\$	\$
	c	Yard / Wharf / Jetties	Per Year	1	\$	\$
	d	Flammable Stores	Per Year	1	\$	\$
	e	Wharf Electrical Building	Per Year	1	\$	\$
	f	Storage Facility # 1	Per Year	1	\$	\$
	g	General Service Building	Per Year	1	\$	\$
	h	Storage Facility # 4	Per Year	1	\$	\$
	i	Storage Facility (Carpentry Shop)	Per Year	1	\$	\$
2		Service Calls, including travel time and all related expenses and one person hour productive labour at the job site.				
	a)	During Regular Hours: 0800-1700 Hours Monday through Friday Licensed Tradesperson	Person Hour	300	\$	\$
	b)	Outside Regular Hours: Monday through Sunday including all day Saturday, Sunday and holidays	Person Hour	100	\$	\$

Licensed Tradesperson						
3		Allowance for material, replacement parts, required permits, certificates, assessments, special equipment, and security at net cost, plus a markup of 20% applied to the net cost.	Allowance			\$40,000.00
TOTAL EXTENDED AMOUNT (TEA)						\$
Excluding GST / HST						

OPTION YEAR # 1

Item	Specification Reference	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity (EQ)	Price per Unit GST/HST extra (PU)	Extended amount (EQ x PU) GST/HST extra
1		Annual Inspection of the identified electrical equipment at the following facilities:				
	a	Southside Base Building	Per Year	1	\$	\$
	b	Buoy Shed / Buoy Maintenance Facility	Per Year	1	\$	\$
	c	Yard / Wharf / Jetties	Per Year	1	\$	\$
	d	Flammable Stores	Per Year	1	\$	\$
	e	Wharf Electrical Building	Per Year	1	\$	\$
	f	Storage Facility # 1	Per Year	1	\$	\$
	g	General Service Building	Per Year	1	\$	\$
	h	Storage Facility # 4	Per Year	1	\$	\$
	i	Storage Facility (Carpentry Shop)	Per Year	1	\$	\$
2		Service Calls, including travel time and all related expenses and one person hour productive labour at the job site.				
	a)	During Regular Hours: 0800-1700 Hours Monday through Friday Licensed Tradesperson	Person Hour	300	\$	\$
	b)	Outside Regular Hours: Monday through Sunday including all day Saturday, Sunday and holidays Licensed Tradesperson	Person Hour	100	\$	\$
3		Allowance for material, replacement parts, required permits, certificates, assessments, special equipment,	Allowance			\$40,000.00

		and security at net cost, plus a markup of 20% applied to the net cost.				
TOTAL EXTENDED AMOUNT (TEA)						\$
Excluding GST / HST						

OPTION YEAR # 2

Item	Specification Reference	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity (EQ)	Price per Unit GST/HST extra (PU)	Extended amount (EQ x PU) GST/HST extra
1		Annual Inspection of the identified electrical equipment at the following facilities:				
	a	Southside Base Building	Per Year	1	\$	\$
	b	Buoy Shed / Buoy Maintenance Facility	Per Year	1	\$	\$
	c	Yard / Wharf / Jetties	Per Year	1	\$	\$
	d	Flammable Stores	Per Year	1	\$	\$
	e	Wharf Electrical Building	Per Year	1	\$	\$
	f	Storage Facility # 1	Per Year	1	\$	\$
	g	General Service Building	Per Year	1	\$	\$
	h	Storage Facility # 4	Per Year	1	\$	\$
	i	Storage Facility (Carpentry Shop)	Per Year	1	\$	\$
2		Service Calls, including travel time and all related expenses and one person hour productive labour at the job site.				
	a)	During Regular Hours: 0800-1700 Hours Monday through Friday Licensed Tradesperson	Person Hour	300	\$	\$
	b)	Outside Regular Hours: Monday through Sunday including all day Saturday, Sunday and holidays Licensed Tradesperson	Person Hour	100	\$	\$
3		Allowance for material, replacement parts, required permits, certificates, assessments, special equipment, and security at net cost, plus a markup of 20% applied to the net cost.	Allowance			\$20,000.00
TOTAL EXTENDED AMOUNT (TEA)						\$

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pwd010

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

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Excluding GST / HST

APPENDIX 4 - EVALUATION PROCEDURES OR BASIS OF SELECTION

1. Evaluation Procedures

(a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the financial evaluation criteria.

1.1.2 Offerors will be evaluated on the basis of the lowest overall total estimated amount (HST Extra). Offerors are required to bid on all line items in the Basis of Payment, or their bid may be considered non-responsive.

1.1 Financial Evaluation

SACC Manual Clauses M0220T (**2013-04-25**), Evaluation of Price

2. Basis of Selection

2.1 SACC Manual Clauses M0069T (**2007-05-25**), Basis of Selection



Government of Canada / Gouvernement du Canada

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**SECURITY REQUIREMENTS CHECK LIST (SRCL)
LISTE DE VÉRIFICATION DES EXIGENCES RELATIVES À LA SÉCURITÉ (LVERS)**

PART A - CONTRACT INFORMATION / PARTIE A - INFORMATION CONTRACTUELLE		
1. Originating Government Department or Organization Ministère ou organisme gouvernemental d'origine Fisheries and Oceans Canada		2. Branch or Directorate / Direction générale ou Direction RPSS
3. a) Subcontract Number / Numéro du contrat de sous-traitance	3. b) Name and Address of Subcontractor / Nom et adresse du sous-traitant	
4. Brief Description of Work - Brève description du travail Contractor will complete the annual inspection and minor repairs/maintenance of Electrical Equipment and Components at various DFO bldgs in St. John's		
5. a) Will the supplier require access to Controlled Goods? Le fournisseur aura-t-il accès à des marchandises contrôlées?		<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui
5. b) Will the supplier require access to unclassified military technical data subject to the provisions of the Technical Data Control Regulations? Le fournisseur aura-t-il accès à des données techniques militaires non classifiées qui sont assujetties aux dispositions du Règlement sur le contrôle des données techniques?		<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui
6. Indicate the type of access required - Indiquer le type d'accès requis		
6. a) Will the supplier and its employees require access to PROTECTED and/or CLASSIFIED information or assets? Le fournisseur ainsi que les employés auront-ils accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS? (Specify the level of access using the chart in Question 7. c) (Préciser le niveau d'accès en utilisant le tableau qui se trouve à la question 7. c)		<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui
6. b) Will the supplier and its employees (e.g. cleaners, maintenance personnel) require access to restricted access areas? No access to PROTECTED and/or CLASSIFIED information or assets is permitted. Le fournisseur et ses employés (p.ex. nettoyeurs, personnel d'entretien) auront-ils accès à des zones d'accès restreintes? L'accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS n'est pas autorisé.		<input type="checkbox"/> No / Non <input checked="" type="checkbox"/> Yes / Oui
6. c) Is this a commercial courier or delivery requirement with no overnight storage? S'agit-il d'un contrat de messagerie ou de livraison commerciale sans entreposage de nuit?		<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui
7. a) Indicate the type of information that the supplier will be required to access / Indiquer le type d'information auquel le fournisseur devra avoir accès		
Canada <input type="checkbox"/>	NATO / OTAN <input type="checkbox"/>	Foreign / Étranger <input type="checkbox"/>
7. b) Release restrictions / Restrictions relatives à la diffusion		
No release restrictions Aucune restriction relative à la diffusion <input type="checkbox"/>	All NATO countries Tous les pays de l'OTAN <input type="checkbox"/>	No release restrictions Aucune restriction relative à la diffusion <input type="checkbox"/>
Not releasable À ne pas diffuser <input type="checkbox"/>		
Restricted to: / Limité à: <input type="checkbox"/>	Restricted to: / Limité à: <input type="checkbox"/>	Restricted to: / Limité à: <input type="checkbox"/>
Specify country(ies): / Préciser le(s) pays:	Specify country(ies): / Préciser le(s) pays:	Specify country(ies): / Préciser le(s) pays:
7. c) Level of information / Niveau d'information		
PROTECTED A PROTÉGÉ A <input type="checkbox"/>	NATO UNCLASSIFIED NATO NON CLASSIFIÉ <input type="checkbox"/>	PROTECTED A PROTÉGÉ A <input type="checkbox"/>
PROTECTED B PROTÉGÉ B <input type="checkbox"/>	NATO RESTRICTED NATO DIFFUSION RESTREINTE <input type="checkbox"/>	PROTECTED B PROTÉGÉ B <input type="checkbox"/>
PROTECTED C PROTÉGÉ C <input type="checkbox"/>	NATO CONFIDENTIAL NATO CONFIDENTIEL <input type="checkbox"/>	PROTECTED C PROTÉGÉ C <input type="checkbox"/>
CONFIDENTIAL CONFIDENTIEL <input type="checkbox"/>	NATO SECRET NATO SECRET <input type="checkbox"/>	CONFIDENTIAL CONFIDENTIEL <input type="checkbox"/>
SECRET SECRET <input type="checkbox"/>	COSMIC TOP SECRET COSMIC TRÈS SECRET <input type="checkbox"/>	SECRET SECRET <input type="checkbox"/>
TOP SECRET TRÈS SECRET <input type="checkbox"/>		TOP SECRET TRÈS SECRET <input type="checkbox"/>
TOP SECRET (SIGINT) TRÈS SECRET (SIGINT) <input type="checkbox"/>		TOP SECRET (SIGINT) TRÈS SECRET (SIGINT) <input type="checkbox"/>

Security Classification / Classification de sécurité



PART A (continued) / PARTIE A (suite)

8. Will the supplier require access to PROTECTED and/or CLASSIFIED COMSEC information or assets?
Le fournisseur aura-t-il accès à des renseignements ou à des biens COMSEC désignés PROTÉGÉS et/ou CLASSIFIÉS?
If Yes, indicate the level of sensitivity:
Dans l'affirmative, indiquer le niveau de sensibilité :

No / Non Yes / Oui

9. Will the supplier require access to extremely sensitive INFOSEC information or assets?
Le fournisseur aura-t-il accès à des renseignements ou à des biens INFOSEC de nature extrêmement délicate?
Short Title(s) of material / Titre(s) abrégé(s) du matériel :
Document Number / Numéro du document :

No / Non Yes / Oui

PART B - PERSONNEL (SUPPLIER) / PARTIE B - PERSONNEL (FOURNISSEUR)

10. a) Personnel security screening level required / Niveau de contrôle de la sécurité du personnel requis

<input checked="" type="checkbox"/> RELIABILITY STATUS COTE DE FIABILITÉ	<input type="checkbox"/> CONFIDENTIAL CONFIDENTIEL	<input type="checkbox"/> SECRET SECRET	<input type="checkbox"/> TOP SECRET TRÈS SECRET
<input type="checkbox"/> TOP SECRET - SIGINT TRÈS SECRET - SIGINT	<input type="checkbox"/> NATO CONFIDENTIAL NATO CONFIDENTIEL	<input type="checkbox"/> NATO SECRET NATO SECRET	<input type="checkbox"/> COSMIC TOP SECRET COSMIC TRÈS SECRET
<input type="checkbox"/> SITE ACCESS ACCÈS AUX EMPLACEMENTS			

Special comments: Successful contractor may occasionally have to complete the required work without an escort.
Commentaires spéciaux : _____

NOTE: If multiple levels of screening are identified, a Security Classification Guide must be provided.
REMARQUE : Si plusieurs niveaux de contrôle de sécurité sont requis, un guide de classification de la sécurité doit être fourni.

10. b) May unscreened personnel be used for portions of the work?
Du personnel sans autorisation sécuritaire peut-il se voir confier des parties du travail?
If Yes, will unscreened personnel be escorted:
Dans l'affirmative, le personnel en question sera-t-il escorté?

No / Non Yes / Oui
 No / Non Yes / Oui

PART C - SAFEGUARDS (SUPPLIER) / PARTIE C - MESURES DE PROTECTION (FOURNISSEUR)

INFORMATION / ASSETS / RENSEIGNEMENTS / BIENS

11. a) Will the supplier be required to receive and store PROTECTED and/or CLASSIFIED information or assets on its site or premises?
Le fournisseur sera-t-il tenu de recevoir et d'entreposer sur place des renseignements ou des biens PROTÉGÉS et/ou CLASSIFIÉS?
 No / Non Yes / Oui

11. b) Will the supplier be required to safeguard COMSEC information or assets?
Le fournisseur sera-t-il tenu de protéger des renseignements ou des biens COMSEC?
 No / Non Yes / Oui

PRODUCTION

11. c) Will the production (manufacture, and/or repair and/or modification) of PROTECTED and/or CLASSIFIED material or equipment occur at the supplier's site or premises?
Les installations du fournisseur serviront-elles à la production (fabrication et/ou réparation et/ou modification) de matériel PROTÉGÉ et/ou CLASSIFIÉ?
 No / Non Yes / Oui

INFORMATION TECHNOLOGY (IT) MEDIA / SUPPORT RELATIF À LA TECHNOLOGIE DE L'INFORMATION (TI)

11. d) Will the supplier be required to use its IT systems to electronically process, produce or store PROTECTED and/or CLASSIFIED information or data?
Le fournisseur sera-t-il tenu d'utiliser ses propres systèmes informatiques pour traiter, produire ou stocker électroniquement des renseignements ou des données PROTÉGÉS et/ou CLASSIFIÉS?
 No / Non Yes / Oui

11. e) Will there be an electronic link between the supplier's IT systems and the government department or agency?
Disposera-t-on d'un lien électronique entre le système informatique du fournisseur et celui du ministère ou de l'agence gouvernementale?
 No / Non Yes / Oui



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PART C (continued) / PARTIE C (suite)

For users completing the form manually use the summary chart to indicate the category(ies) and level(s) of safeguarding required at the supplier's site(s) or premises.
Les utilisateurs qui remplissent le formulaire manuellement doivent utiliser le tableau récapitulatif ci-dessous pour indiquer, pour chaque catégorie, les niveaux de sauvegarde requis aux installations du fournisseur.

For users completing the form online (via the Internet), the summary chart is automatically populated by your responses to previous questions.
Dans le cas des utilisateurs qui remplissent le formulaire en ligne (par Internet), les réponses aux questions précédentes sont automatiquement saisies dans le tableau récapitulatif.

SUMMARY CHART / TABLEAU RÉCAPITULATIF

Category / Catégorie	PROTECTED / PROTÉGÉ			CLASSIFIED / CLASSIFIÉE			NATO				COMSEC							
	A	B	C	Confidential / Confidentiel	Secret	Top Secret / Très Secret	NATO Restricted / NATO Diffusion Restreinte	NATO Confidential / NATO Confidentiel	NATO Secret	COSMIC Top Secret / COSMIC Très Secret	Protected / Protégé			Confidential / Confidentiel	Secret	Top Secret / Très Secret		
											A	B	C					
Information / Assets / Renseignements / Biens	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Production	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IT Media / Support TI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IT Link / Lien électronique	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

12. a) Is the description of the work contained within this SRCL PROTECTED and/or CLASSIFIED? No / Non Yes / Oui
La description du travail visé par la présente LVERS est-elle de nature PROTÉGÉE et/ou CLASSIFIÉE?

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification".
Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée.

12. b) Will the document attached to this SRCL be PROTECTED and/or CLASSIFIED? No / Non Yes / Oui
La documentation associée à la présente LVERS sera-t-elle PROTÉGÉE et/ou CLASSIFIÉE?

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification" and indicate with attachments (e.g. SECRET with Attachments).
Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire et indiquer qu'il y a des pièces jointes (p. ex. SECRET avec des pièces jointes).

Security Classification / Classification de sécurité
--

**DEPARTMENT OF FISHERIES AND OCEANS
REAL PROPERTY**

**SPECIFICATION
FOR A
STANDING OFFER AGREEMENT
FOR THE**

**ANNUAL INSPECTIONS
&
REPAIR / MAINTENANCE**

OF

**ELECTRICAL EQUIPMENT AND COMPONENTS
AT
FISHERIES & OCEANS BUILDINGS
SOUTHSIDE ROAD & HELICOPTER HANGER
ST. JOHN'S, NL**

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SECTION A: SITE SPECIFIC REQUIREMENTS

1.1 Scope of Work

.1 The work will consist of two (2) distinct portions of work:

.1 (a) One (1) Annual Inspection of all components of the work as outlined in Section A – Part 1.2 – “Description of Work” and Part 1.3 – “Areas of Work.”

.1 (b) The contractor shall provide all necessary labour, materials, tools and equipment to carry out the Annual Inspections on the various equipment as per the Inspection Checklist - Section F and the corresponding Electrical Inventories – Section call up requirements as outlined.

.2 Perform any necessary repairs and/or maintenance of all components as outlined in this specification on an as required basis. Call-ups for all work will be as outlined in Section B of Standing Offer Agreement (SOA).

1.2 Description of Work

.1 Work to include the inspection of items covered in the Electrical Inventory as outlined in Section G and corresponds with the Electrical Inspection Checklists in Section F for each of the facilities outlined in Section A, Part 1.3. Items highlighted in Grey in the Electrical Inventory are exempted from this SOA.

NOTE: Contractor to verify; add and/or delete inventory list during inspection of equipment at no additional cost to the Department.

NOTE: a) Electrical Inspection Check Lists attached in Section F to be used for the Annual Inspection guidelines. (Only those checklists identified require inspection).

b) Electrical Inventory attached in Section G to be used as reference guide only.

c) The Annual Inspection to be reviewed and discussed at a meeting with contractors and Department Representative/s prior to bidding on contract. Date and time of meeting to be determined by the Facilities Manager (FM).

.2 The contractor will be required to sign and Date all items as identified in Section F (Electrical Inspection Checklist)

.3 The contractor will be required to submit a report on the inspection results/findings verifying work required along with a cost estimate for the repairs.

.4 Items not included in this contract are identified in the shaded area of the Electrical Inventory attached and the identifier codes are as follows:

.1 Southside Base Buildings:

- a) 05 155 MO1; MO2; MO3; MO4; MO5; MO6 & MO7
- b) 15 155 MOI
- c) 05 155 401
- d) 05 200 MO1; MO2; MO3; MO4; MO5; MO6; MO7 & 101
- e) 10 200 101
- f) 05 200 Con1; Con2 & Con3
- g) 05 500 101
- h) 05 341 MO1; MO2 & MO3
- i) 05 470 MO1
- j) 05 471 MS1 & MS2
- k) 10 524 201

.2 Buoy Shed/ Buoy Maintenance Facility

- a) 10 060 01
- b) 10 487 01
- c) 10 250 01

.3 Yard Wharf/ Jetties

- a) 05 200 101; 102 & 103
- b) 05 370 01
- c) 05 470 101

.4 Flammable Stores

- a) 15 153 01
- b) 05 370 101 & 102

.5 Wharf Electrical Building

a) 05 380 101

.6 Warehouse,/ Storage Facility #1

a) 05 370 all 05

.7 Helicopter Hanger/ General Service Building

a) 05 341 01-06

b) 05 370 All; 01-21 & 01-04

c) 05 520 01

1.3 Areas of Work

1. Southside Base Building, 280 Southside Road
2. Buoy Shed/ Buoy Maintenance Facility, 270 Southside Road
3. Yard, Wharf/ Jetties, Southside Base Yard
4. Flammable Stores, Southside Base Yard
5. Wharf Electrical Building, Southside Base Yard
6. Storage Facility # 1, 450 Southside Road – CN Yard
7. Helicopter Hanger/General Service Building-Torbay Road
8. Storage Facility #4, 450 Southside Road – CN Yard
9. Storage Facility (Carpentry Shop), 450 Southside Road – CN Yard (no current inventory)

1.4 Time and Duration

.1 The Electrical Inspection must be conducted during regular working hours Monday - Friday (08:00 am - 16:00 pm). Unless agreed by the **Facilities Manager (FM)** to work after regular hours

1.5 Identification of Personnel

.1 The contractor shall submit to the **FM**, the names and address of all individuals who will be performing the work. The department is to be notified of any changes in the list during the life of the contract.

.2 The contractor will be required to carry valid company identification cards when working on departmental property. These cards must be visible at all times.

.3 All Contractor Personnel will be required to obtain and maintain a valid **Reliability Security Status** granted by Canada and approved by Fisheries and Oceans Canada.

1.6 Codes and Standards

.1 All work shall be performed to the latest edition of the following codes and standards

.1 Canadian Electrical Code

.2 Canada Labour Code- Part II

.3 National Building Code

.4 Newfoundland and Labrador Occupational Health and Safety Act and Regulations

.5 Canadian Environmental Protection Act

.6 NL Environmental Protection Act

.7 Work and materials must conform to or Exceed applicable standards of Canadian Government Specifications Board (CGSB), Canadian Standards Association (CSA), American Society for Testing Materials (ASTM) and any other applicable organization.

.8 In the event of conflict between any of the above codes or standards, the most stringent shall apply

1.7 Qualifications

.1 All work shall be completed by at least one (1) Journeyman Electrician

1.8 Site Verification

.1 The contractor shall visit the site prior to commencing work and verify all existing conditions. Any deviations noted from the original contract documents must be reviewed with the Departmental Representative prior to commencing the work.

.2 The contractors shall meet with the FM prior to bidding on contract. The time and place to be determined by the FM.

1.9 Scheduling of Work

.1 These buildings will be occupied during this contract. Work is to progress with minimal impact upon the operation of these buildings. Down time of

systems affected are to be kept to a minimum and coordinated with the FM in advance.

.2 All work shall be between Monday – Friday unless otherwise agreed by the FM. The times of work shall be coordinated with the FM. Any work in restricted secured areas shall be performed during normal work hours and include in the tender price. All work places shall be clean prior to start of building occupants work day. (08:00 am - 16:00 pm).

.3 All work shall be coordinated with other contractors working in the building not associated with this contract.

1.10 Worker Protection

.1 Contractor shall ensure that while working on Electrical Equipment & Components, that all Lockout and Tag procedures are followed in accordance with the latest edition of the Canadian Electrical Code.

.2 The contractor will familiarize with, and follow all Occupational Health and Safety Regulations and procedures while on site.

SECTION B: STANDING OFFER INSTRUCTIONS

ANY CALL-UPS PLACED AGAINST THIS STANDING OFFER ARE FOR COMPLETION OF MINOR MAINTENANCE SERVICES AND REPAIRS ONLY.

PART I: GENERAL INFORMATION

1.1 Procedure for Call-Ups Against the S.O.

The **Facilities Manager (FM)** may place call-ups against this S.O. either by submission of the Call-up Against Standing Offer Service Request (PWGSC 942B) Form or by telephone followed with the submission of the call up form.

PART II: SCOPE OF WORK

2.1 Requirement

To provide "if and when" requested on-site **Electrical Services** in support of minor maintenance services and /or repairs, for the nine (9) facilities identified in **Section A, Part 1.3**

2.2 Contractor's Responsibilities

2.2.1 Subcontracting

.1 Only Subcontractors that have been pre-approved in writing, by the FM are permitted to work on any part of this SOA.

.2 The Contractor shall ensure that all Contractor's personnel, subcontractors and subcontractor's personnel understand and comply with the regulations at all times, while within the confines DFO property.

.3 In any subcontract, the Contractor shall, unless the FM otherwise consents in writing, ensure that the subcontractor is bound by terms and conditions compatible with and, in the opinion of the FM, not less favorable to Canada than the terms and conditions of the Contract. Deviations in any

subcontract from the terms of the Contract, including any right of termination of the Contract, shall be entirely at the risk of the Contractor.

.4 All subcontract personnel will be required to obtain and maintain a valid Reliability Security Status, granted by Canada and approved by Fisheries and Oceans Canada.

.5 Any consent to a Subcontract shall not relieve the Contractor from its obligations under the contract or be construed as authorizing any liability on the part of Canada or the Crown to a subcontractor.

.6 Approved sub-contractor's work shall be invoiced using the Unit Price Table.

2.3 Commencement of Work

The Contractor will be required to mobilize and commence work within twenty-four (24) hours from receipt of the notification from the **FM**.

On urgent demands: Work should commence within two (2) hours.

2.4 Tools and Equipment

The Contractor and their employees shall be responsible for supplying their own tools and equipment that are basic to the requirements of each project.

2.5 Cleaning of Work

The Contractor will, upon completion of the work, clear and clean the work and its site to the satisfaction of and in accordance with any directions of the **FM**.

2.6 Rectification of Defects

The Contractor will, upon notice from the **FM** and within such time as specified in said notice, rectify at their own expense any defect or fault, due to faulty materials used and / or workmanship, which appears in the work within twelve (12) months of the date of the Final Acceptance.

2.7 Publicity

The Contractor will neither permit any public ceremony, nor erect or permit the erection of any sign or advertising, in connection with the work without the approval of the FM.

2.8 Co-operation with other Contractors

The Contractor will co-operate fully with other contractors or workmen sent onto the site of the work by the FM.

PART III: DEPARTMENTAL REPRESENTATIVE'S RIGHTS AND OBLIGATIONS

The FM shall:

a) have access to the work at all times during its execution and the Contractor will provide the FM with full information and assistance in order that they may ensure that the work is executed in accordance with any contract resulting from this standing offer.

b) decide any question as to whether everything has been done as required by any contract resulting from this standing offer or as to what the Contractor is required by the contract to do, including questions as to the acceptability of, the quality or quantity of any labour and / or materials used in the execution of the work, and the timing and scheduling of the various phases of the work.

c) have the right to order additional minor work for work already in progress, dispense with, or change the whole or any part of the work provided for, in the plans and specifications. The FM shall decide whether anything done or not done as a result of directions given under this sub-section has increased or decreased the cost of the work to the Contractor and the amount payable under the contract to the Contractor will be increased or decreased accordingly.

PART IV: TERMS AND CONDITIONS OF THE STANDING OFFER

4.1 Service Call-ups

Service shall be made within twenty-four (24) hours from receipt of a call-up document except in emergency conditions where a two (2) hour time limit is required.

4.2 Standing Offer Management

The Contractor must maintain standing offer records for all work / services provided to the Department of Fisheries and Oceans under this standing offer. The records shall consist of

individual files for all work / services provided and include:

- a copy of the Service Request Form;
- names of the trades personnel working on the project
- copy of the invoices submitted to the issuing department;
- list of materials provided;
- breakdown of the invoice indicating lump sum cost of these materials proved to this Department.

The Administrative Authority may periodically review the standing offer records. The Administrative Authority may meet with the contractor and select a number of records for audit off site.

4.3 Provision of Estimates

Where an estimate of the cost of performing specific work is required, the FM shall provide the contractor with a statement of the work required and the contractor shall provide the Identified User with an estimate of the cost of performing the specified work in accordance with the pricing provision of the Standing Offer. The contractor shall not undertake any of the specified work unless and until a call-up is issued by the Identified User. The estimated cost stated in the call-up shall not be exceeded without the specific written authorization of the FM.

4.4 Licensing

The Contractor must obtain and maintain all permits, licenses and certificates of approval required for the Work to be performed under any applicable federal, provincial or municipal legislation. The Contractor shall be responsible for any charges imposed by such legislation or regulations. Upon request, the Contractor shall provide a copy of any such permit, license, or certificate to Canada.

4.5 Site Regulations

The Contractor undertakes and agrees to comply with all standing orders or other regulations, in

force on the site where the work is to be performed, relating to the safety of persons on the site or the protection of property against loss or damage from any and all causes including fire.

4.6 Salvage

All scrap and waste material, except items specifically listed in the specifications, will become the property of the Contractor who shall remove it from the site.

4.7 Workers' Compensation

It is mandatory that all persons performing the work be covered under the applicable workers' compensation legislation provided for the benefit of injured employees.

4.8 Safety Regulations and Labour Codes

The Contractor must adhere to all safety rules, regulations and labour codes in force in all jurisdictions where the Work is to be performed.

4.9 Applicable Laws

This Standing Offer and any resultant Contract shall be interpreted and governed, and the relations between the Parties, determined by the laws in force in the Province of Newfoundland and Labrador.

4.10 Inspection

The FM shall be the Inspector and Consignee for all work and shall be the Contractor's primary contact for all technical matters, including interpretation of the specification and scheduling of the work.

4.11 Permits and By-laws

The Contractor shall comply with all laws and regulations, relating to the work, whether federal, provincial or municipal, as if the work was being constructed for a person other than Canada, and shall pay for all permits and certificates required in respect of the execution of the work. Any permit cost shall be reimbursed as outlined for the material cost.

4.12 Method of Payment

1. Payment by Her Majesty for the work shall be made in accordance with the Basis of Payment specified herein:

a) Invoices should be submitted monthly including individual copies of cost for all service request for that month

b) Within thirty (30) days following the date on which an invoice and substantiating documentation are received according to the terms of the contract.

4.13 Time Verification

Time charged and the accuracy of the Contractor's time recording system may be verified by the FM before or after payment is made to the Contractor under the terms and conditions of the Contract. If verification is done after payment, the Contractor agrees to repay any overpayment immediately upon demand by the FM.

4.14 Time and Contract Price Verification

Time charged and the Contract Price of any incidental materials used may be verified by FM before or after payment is made to the Contractor. If verification is done after payment, the Contractor agrees to repay any overpayment immediately upon demand by Her Majesty.

SECTION C: SITE SPECIFIC SAFETY PLAN

1.1 Reference

.1 Adhere to all Federal; Provincial and Municipal Health and Safety Regulations.

.2 Adhere to Canada Labour Code- Part II

.3 Adhere to the Latest Edition of the Canadian Electrical Code.

1.2 Site Specific Safety Plan

.1 Carry out all work of this Contract placing maximum emphasis on safety for workers and other authorized persons working or circulating on the site.

.2 Notwithstanding other safety requirements specified in this section or in any other section of the Specifications, the Contractor shall prepare a written Site Specific Safety Plan outlining all procedures and safe work practices which must be followed by all personnel working or circulating on the site. This safety plan shall address and conform to all applicable Provincial and Federal Safety Acts and Regulations. Develop the Plan in collaboration with the various sub-contractors, who will be carrying out work at the site at any time during the contract period. Ensure that all pertinent types of work activities are addressed in the Plan and all related safety procedures are included; which must be followed when carrying out such work. It is the Contractor's responsibility to ensure that all workers and authorized persons working under the contract become familiar with all aspects of the safety plan by means of a Communication Plan to be addressed within the Safety Plan, in a clear and specific manner.

.3 Prior to commencement of work, the Site Specific Safety Plan must be posted on the site in a common location, visible for all workers and authorized persons working or circulating on the site to see. Ensure that all employees are advised of

such Site Specific Safety Plan and of the location where it is posted.

.4 The Contractor shall use measures to ensure that all workers and any authorized persons entering onto the site are notified of and abide by the posted safety rules and procedures. The FM or their representatives reserves the right to demand the removal of any persons not complying with the Site Specific Safety Plan. Any persons removed from the site shall not be permitted re-entry.

.5 The Site Specific Safety Plan shall be developed immediately upon notification of award of contract and be completed prior to the commencement of work. Revise such Plan as required when changes to planned work procedures occur or when directed by any Safety Officer from any authority having jurisdiction. Submit the Safety Plan and any revised version to the FM or his representative for information and retention purposes only. The submission of the Site Specific Safety Plan to the FM shall not relieve the Contractor of any legal obligations as specified by the Provincial and Federal Safety Acts or Regulations.

1.3 Additional Safety Requirements

.1 The contractor will follow all health and safety policies or procedures of the site.

.2 In the event that differences or conflicts arise between legislation, regulations or safety standards that apply to this contract or work being done, the most stringent provisions will be applied and enforced. The FM shall have the authority to decide which provisions will apply under the specific circumstances.

.3 By bidding on this contract, the contractor has stipulated that the contractor and subcontractors accepts the responsibility to comply with all applicable provincial and federal legislative requirements and industry standards.

.4 The contractor will not be permitted to enter into subcontracts without prior permission from the **FM**.

.5 Prior to commencement of the work, the contractor will provide proof of Workers Compensation Board (WCB) coverage for all their personnel.

.6 If a hazard is reported, the **FM** shall

.1) make the necessary arrangements with the contractor to effect the necessary changes to ensure the health and safety of those exposed, or to protect property;

.2) where resolution of the situation is not achieved to the satisfaction of the **FM**, he shall advise the provincial or federal enforcement authority having jurisdiction and request their involvement in achieving an appropriate resolution of the issue.

.7 The **FM** has the authority to stop the work of the contractor, if in his opinion, the work is not being performed in a manner safely by the contractor, or the work is being performed in a manner that is contrary to the requirements of the applicable health and safety legislation.

1.4 Workers' Compensation (Employing Contractors)

It is **MANDATORY** that all persons performing the work be covered under the applicable workers' compensation legislation provided for the benefit of injured employees.

1.5 WHMIS Regulations

The Contractor must Label and ship goods falling within the Hazardous Products Act, R.S.C. 1985, c. H-3 and regulation(s) thereunder in accordance with the said Act and regulation(s) accompanied by the Material Safety Data Sheet(s) completed in either English or French.

SECTION D: INSPECTION CHECK LIST

- 1) Southside Building, 280 Southside Road
- 2) Buoy Maintenance Facility, 270 Southside Road
- 3) Yard, Wharf, Jetties, Southside Base Yard
- 4) Flammable Stores, Southside Base Yard
- 5) Wharf Electrical Building, Southside Base Yard
- 6) Storage Facility # 1, 440 Southside Road
- 7) Storage Facility # 4, 450 Southside Road
- 8) Helicopter Hanger/ General Services Building, Torbay Road
- 9) Storage Facility (Carpentry Shop) – No Current Checklists

INSPECTION CHECKLIST

SECTION D

1) Southside Base

6 Pages

153A - Controls, Electric/Electronic

Equip. Code: 153 **Level:** 2 **Freq./Year:** 1 **Building:** Southside Base

Checklist Instructions

1. Check for dust, dirt & dampness - (Identify in report if applicable)
2. Check installation - tighten nuts and screws. Inspect for contact pitting and heat discolouration.
3. Check wire insulation condition.
4. Check frame inside and outside.
5. Check voltages.
6. Clean internal and external.
7. Check pilot lamps, selector switches.
8. Perform operational test.

Completed by: _____

Date: _____

200A – Disconnects

Equip. Code: 200 **Level:** 2 **Freq./Year:** 1 **Building:** Southside Base

Checklist Instructions

Ensure that all equipment lock-out and safety practices are followed.

1. Test operate, check action smooth and not binding; adjust as required.
2. Open, blow out dust and dirt using vacuum cleaner.
3. Check for signs of damage, overheating and abuse; check all bolts and terminals are tight.
4. Clean fuse ends and holders (where applicable).
5. Clean cover and immediate area.

Completed By: _____

Date: _____

212A - Panelboard, Lighting & Appliance

Equip. Code: 212 **Level:** 2 **Freq./Year:** 1 **Building:** Southside Base

Checklist Instructions

Ensure that all equipment lock-out and safety practices are followed.

1. Clean interior enclosure - (Cleaning to be identified in report if necessary).
2. Check for heat damaged connections, loose wires and other defects.
3. Check to ensure solid, vibration-free mounting.
4. Check cover or door installation and locking device.
5. Check security of conduits and fittings attached to enclosure.
6. Check the grounding.
7. Inspect fuses and clean contacts and/or check cable and bus connections.
8. Operate all switches/breakers 3 times.
9. Check the voltage and amperage on the primary wires.
10. Check amperage for each phase.
11. Check terminals are tight.
12. Perform infra-red test and report all deficiencies
13. Ensure over current devices are correct sizes for both the anticipated load and short circuit potential.

Completed By: _____

Dated: _____

215A - Distribution Splitter Trough

Equip. Code: 215 **Level:** 2 **Freq./Year:** 1 **Building:** Southside Base

Checklist Instructions

Ensure that all equipment lock-out and safety practices are followed.

1. Inspect the condition of boxes and cabinets, ensure mounting is free of vibration or looseness, and clean, repair and repaint as required.
2. Check ground connections.
3. Inspect all wires for any signs of damage, overheating, looseness of connections and cable swelling. Tighten cable connections and repair as required.
4. Check security of conduits and fittings attached to enclosure, and tighten and repair as required.
5. Ensure that all covers are installed properly.

Completed By: _____

Date: _____

344A - Heater, Electric, Fan Unit

Equip. Code: 344 **Level:** 2 **Freq./Year:** 1 **Building:** Southside Base

Checklist Instructions

1. **General**
 - a) Test operate and check thermostat operation
 - b) Check for excessive noise, vibration or leaks.
 - c) Check motor rotates freely by hand.
 - d) Observe normal operation of unit.
 - e) Check for signs of overheating

Completed By: _____

Date: _____

491A - Transformer, Vented Dry

Equip. Code: 491 **Level:** 2 **Freq./Year:** 1 **Building:** Southside Base

Checklist Instructions

Ensure that all equipment lock-out and safety practices are followed.

1. Preparation
 - a) Ensure that all safety equipment and clothing (goggles, rubber mats, high voltage gloves, etc.) are available.
 - b) Ensure that signs are posted and equipment is locked.
 - c) Perform test on CATU tester and then check voltages.
 - d) Install grounding devices on all phases; signs must identify that equipment is connected to ground.
2. Ensure all louvers are clear of any obstructions.
3. Check the temperature; check for unusual noises, defective grounding and primary and secondary windings.
4. Thoroughly clean interior of transformer; use a vacuum cleaner with insulated fittings.
5. Check tightness of high and low voltage connections.
6. Check the laminations and report any abnormal discoloration.
7. Check voltage of high and low voltage connections.
8. Check coil blocking for looseness.
9. Lubricate fans, where applicable.
10. Record
 - a) Megger resistance.
 - b) Ammeter reading.

Completed By: _____

Date: _____

INSPECTION CHECKLIST

SECTION D

2) Buoy Maintenance Facility

8 Pages

120A - Moulded Case Breaker

Equip. Code: 120 **Level:** 2 **Freq./Year:** 1 **Building:** Buoy Maintenance Facility

Checklist Instructions

Ensure that all equipment lock-out and safety practices are followed.

1. Check condition of breaker case, clean or replace as required.
2. Check for excessive heat and loose connections, and tighten as required using manufacturer's recommended torque values.
3. Breakers with push-to-trip buttons should be operated at the time of manual exercising in order to move the tripping mechanisms linkages.
4. Circuit breakers with electronic trip units may have a Ground Fault Protector system integral with the circuit breaker. Any maintenance work performed on the electronic circuitry should adhere to manufacturer's instructions.
5. Check ground fault protection sensor for tight connections and cleanliness. Any repairs needed should be performed by the manufacturer.

Completed By: _____

Date: _____

153A - Controls, Electric/Electronic

Equip. Code: 153 **Level:** 2 **Freq./Year:** 1 **Building:** Buoy Maintenance

Checklist Instructions

1. Check for dust, dirt & dampness - clean as required
2. Check installation - tighten nuts and screws. Inspect for contact pitting and heat discolouration.
3. Check wire insulation condition.
4. Check frame inside and outside.
5. Check voltages.
6. Clean internal and external.
7. Check pilot lamps, selector switches.
8. Perform operational test.

Completed By: _____

Date: _____

200A - Disconnects

Equip. Code: 200 **Level:** 2 **Freq./Year:** 1 **Building:** Buoy Maintenance

Checklist Instructions

Ensure that all equipment lock-out and safety practices are followed.

1. Test operate, check action smooth and not binding; adjust as required.
2. Open, blow out dust and dirt using vacuum cleaner.
3. Check for signs of damage, overheating and abuse; check all bolts and terminals are tight.
4. Clean fuse ends and holders (where applicable).
5. Clean cover and immediate area.

Completed By: _____

Date: _____

212A - Panelboard, Lighting & Appliance

Equip. Code: 212 **Level:** 2 **Freq./Year:** 1 **Building:** Buoy Maintenance

Checklist Instructions

Ensure that all equipment lock-out and safety practices are followed.

1. Clean interior enclosure - blow out dust and dirt using a vacuum cleaner.
2. Check for heat damaged connections, loose wires and other defects.
3. Check to ensure solid, vibration-free mounting.
4. Check cover or door installation and locking device.
5. Check security of conduits and fittings attached to enclosure.
6. Check the grounding.
7. Check for proper identification and up-to-date directory on panel.
8. Inspect fuses and clean contacts and/or check cable and bus connections.
9. Operate all switches/breakers 3 times.
10. Check the voltage and amperage on the primary wires.
11. Check amperage for each phase.
12. Check terminals are tight.
13. Perform infra-red test and report all deficiencies
14. Ensure over current devices are correct sizes for both the anticipated load and short circuit potential.

Completed By: _____

Date: _____

261A - Fan, Ceiling (Circulation)

Equip. Code: 261 **Level:** 2 **Freq./Year:** 01 **Building:** Buoy Maintenance

Checklist Instructions

1. Start and stop fan with local switch to ensure proper operation.

Completed By: _____

Date: _____

386A - Motor Control Centre

Equip. Code: 386 **Level:** 2 **Freq./Year:** 01 **Building:** Buoy Maintenance

Requirements: Vacuum Cleaner, Cleaning Solvent, Safety tested rubber gloves, Rubber Matting, Safety glasses, Insulated hand tools, Double insulated portable electric tools.

Checklist Instructions

Ensure that all equipment lock-out and safety practices are followed.

1. Pull disconnect switch before working on control.
2. Clean dirt, rust or corrosion. Note if excessive.
3. Torque electrical connectors; look for discolouration of any current carrying parts.
4. Check mechanical connectors.
5. Check for spring clip pressure of fuse clips.
6. Look for frayed strands on flexible leads, flexing over entire length.
7. Check for any signs of overheating or mechanical injury to coils.
8. Push Buttons, Selector Switches or Pilot Devices: (Cleaning to be included in report if necessary), check device contacts.
9. Check contactors for flashing; if so, check for adjustment to eliminate contact bounce.
10. Check for noise, shading coils, magnetic surface, sealing, mechanical binding, loose rivets.
11. List any parts which must be replaced soon.

Completed By: _____

Date: _____

471A - Combination Starter

Equip. Code: 471 **Level:** 2 **Freq./Year:** 1 **Building:** Buoy Maintenance

Checklist Instructions

Ensure that all equipment lock-out and safety practices are followed

1. Pull disconnect switch before working on control.
2. Clean dirt, rust or corrosion. Note if excessive.
3. Torque electrical connectors; look for discolouration of any current carrying parts.
4. Check mechanical connectors.
5. Check for spring clip pressure of fuse clips.
6. Look for frayed strands on flexible leads, flexing over entire length.
7. Check for any signs of overheating or mechanical injury to coils.
8. Push Buttons, Selector Switches or Pilot Devices: Clean, check device contacts. Test continuity of pilot circuit.
9. Check contactors for flashing; if so, check for adjustment to eliminate contact bounce.
10. Check for noise, shading coils, magnetic surface, sealing, mechanical binding, loose rivets.
11. If fuse ferrules are copper, polish; check for loose ferrules and proper size fuses.
12. Replace contact tips if burned excessively. Do not file silver tips. Check, wipe and replace when less than 50% contact surface remains.
13. Check contact pressure for uniform pressure on all tips.
14. Clean magnet faces, check shading and striking coil, misalignment and binding.
15. Trip overload relays by hand to ensure mechanically free. Clean, check heater coil and tighten oil connections.
16. Check arc shields for breaks and burning of arc blowout segments. Replace if 1/3 vaporized.
17. Check continuity and voltage of rectifiers.
18. Clean relays, check for mechanical binding and striking. Check contacts.
19. Check starting sequence to ensure control functions properly.
20. Pilot Devices, Pressure Switches, Temperature Switches: Check bottom and top limits of operation. Check for fluttering of contacts (revealed by pumping of main contacts).
21. Check for proper sizing of over current and overload devices.
22. List any parts which must be replaced.
23. Perform infrared scan of unit.

Completed By: _____

Date: _____

491A - Transformer, Vented Dry

Equip. Code: 491 **Level:** 2 **Freq./Year:** 1 **Building:** Buoy Maintenance

Checklist Instructions

Ensure that all equipment lock-out and safety practices are followed.

1. Preparation
 - a) Ensure that all safety equipment and clothing (goggles, rubber mats, high voltage gloves, etc.) are available.
 - b) Ensure that signs are posted and equipment is locked.
 - c) Perform test on CATU tester and then check voltages.
 - d) Install grounding devices on all phases; signs must identify that equipment is connected to ground.
2. Ensure all louvres are clear of any obstructions.
3. Check the temperature; check for unusual noises, defective grounding and primary and secondary windings.
4. Thoroughly clean interior of transformer; use a vacuum cleaner with insulated fittings.
5. Check tightness of high and low voltage connections.
6. Check the laminations and report any abnormal discoloration.
7. Check voltage of high and low voltage connections.
8. Check coil blocking for looseness.
9. Lubricate fans, where applicable.
10. Record
 - a) Megger resistance.
 - b) Ammeter reading.

Completed By: _____

Date: _____

INSPECTION CHECKLIST

SECTION D

3) YARD WHARF/ JETTIES

1 PAGE

386A - Motor Control Centre

Equip. Code: 386 **Level:** 2 **Freq./Year:** 01 **Building:** Yard Wharf/Jetties

Requirements: Vacuum Cleaner, Cleaning Solvent, Safety tested rubber gloves, Rubber Blankets, Safety glasses, Insulated hand tools, Double insulated portable electric tools.

Checklist Instructions

Ensure that all equipment lock-out and safety practices are followed.

Recommended Spare Parts:

- a) Contact renewal set
- b) Contact spring kit
- c) Magnet coil
- d) Rectifier (DC operated control)
- e) Rectifier surge suppressor (DC operated control)

1. Pull disconnect switch before working on control.
2. Clean dirt, rust or corrosion. Note if excessive.
3. Torque electrical connectors; look for discolouration of any current carrying parts.
4. Check mechanical connectors.
5. Check for spring clip pressure of fuse clips.
6. Look for frayed strands on flexible leads, flexing over entire length.
7. Check for any signs of overheating or mechanical injury to coils.
8. Push Buttons, Selector Switches or Pilot Devices: Clean, check device contacts. Test continuity of pilot circuit.
9. Check contactors for flashing; if so, check for adjustment to eliminate contact bounce.
10. Check for noise, shading coils, magnetic surface, sealing, mechanical binding, loose rivets.
11. List any parts which must be replaced soon.

Completed By: _____

Date: _____

INSPECTION CHECKLIST

SECTION D

4) FLAMMABLE STORES

4 PAGES

200A - Disconnects

Equip. Code: 200 **Level:** 2 **Freq./Year:** 1 **Building:** Flammable Stores

Checklist Instructions

Ensure that all equipment lock-out and safety practices are followed.

1. Test operate, check action smooth and not binding; adjust as required.
2. Open, blow out dust and dirt using vacuum cleaner.
3. Check for signs of damage, overheating and abuse; check all bolts and terminals are tight.
4. Clean fuse ends and holders (where applicable).
5. Clean cover and immediate area.

Completed By: _____

Date: _____

212A - Panelboard, Lighting & Appliance

Equip. Code: 212 **Level:** 2 **Freq./Year:** 1 **Building:** Flammable Stores

Checklist Instructions

Ensure that all equipment lock-out and safety practices are followed.

1. Clean interior enclosure - blow out dust and dirt using a vacuum cleaner.
2. Check for heat damaged connections, loose wires and other defects.
3. Check to ensure solid, vibration-free mounting.
4. Check cover or door installation and locking device.
5. Check security of conduits and fittings attached to enclosure.
6. Check the grounding.
7. Inspect fuses and clean contacts and/or check cable and bus connections.
8. Operate all switches/breakers 3 times.
9. Check the voltage and amperage on the primary wires.
10. Check amperage for each phase.
11. Check terminals are tight.
12. Perform infra-red test and report all deficiencies
13. Ensure over current devices are correct sizes for both the anticipated load and short circuit potential.

Completed By: _____

Date: _____

344A - Heater, Electric, Fan Unit

Equip. Code: 344 **Level:** 2 **Freq./Year:** 01 **Building:** Flammable Stores

Checklist Instructions

1. **General**
 - a) Test operate and check thermostat operation
 - b) Check for excessive noise, vibration or leaks.
 - c) Check motor rotates freely by hand.
 - d) Lubricate motor (3 drops SAE 10 ND oil)
 - e) Observe normal operation of unit.

Completed By: _____

Date: _____

491A - Transformer, Vented Dry

Equip. Code: 491 **Level:** 2 **Freq./Year:** 1 **Building:** Flammable Stores

Checklist Instructions

Ensure that all equipment lock-out and safety practices are followed.

1. Preparation
 - a) Ensure that all safety equipment and clothing (goggles, rubber mats, high voltage gloves, etc.) are available.
 - b) Ensure that signs are posted and equipment is locked.
 - c) Perform test on CATU tester and then check voltages.
 - d) Install grounding devices on all phases; signs must identify that equipment is connected to ground.
2. Ensure all louvres are clear of any obstructions.
3. Check the temperature; check for unusual noises, defective grounding and primary and secondary windings.
4. Thoroughly clean interior of transformer; use a vacuum cleaner with insulated fittings.
5. Check tightness of high and low voltage connections.
6. Check the laminations and report any abnormal discoloration.
7. Check voltage of high and low voltage connections.
8. Check coil blocking for looseness.
9. Lubricate fans, where applicable.
10. Record
 - a) Megger resistance.
 - b) Ammeter reading.

Completed By: _____

Date: _____

INSPECTION CHECKLIST

SECTION D

4) WHARF ELECTRICAL BUILDING

7 PAGES

153A - Controls, Electric/Electronic

Equip. Code: 153 **Level:** 2 **Freq./Year:** 1 **Building:** Wharf Electrical Building

Checklist Instructions

1. Check for dust, dirt & dampness - clean as required
2. Check installation - tighten nuts and screws. Inspect for contact pitting and heat discolouration.
3. Check wire insulation condition.
4. Check frame inside and outside.
5. Check voltages.
6. Clean internal and external.
7. Check pilot lamps, selector switches.
8. Perform operational test.

Completed By: _____

Date: _____

186A - Dampers, Electric

Equip. Code: 186 **Level:** 2 **Freq./Year:** 1 **Building:** Wharf Electrical Building

Checklist Instructions

1. Clean and inspect units.
2. Operate motor over full cycle; check for proper operation.
3. Ensure dampers open and close to proper positions; adjust as required.
4. Check motor shaft and linkage, lubricate as required.

Completed By: _____

Date: _____

200A - Disconnects

Equip. Code: 200 **Level:** 2 **Freq./Year:** 1 **Building:** Wharf Electrical Building

Checklist Instructions

Ensure that all equipment lock-out and safety practices are followed.

1. Test operate, check action smooth and not binding; adjust as required.
2. Open, blow out dust and dirt using vacuum cleaner.
3. Check for signs of damage, overheating and abuse; check all bolts and terminals are tight.
4. Clean fuse ends and holders (where applicable).
5. Clean cover and immediate area.

Completed By: _____

Date: _____

212A - Panelboard, Lighting & Appliance

Equip. Code: 212 **Level:** 2 **Freq./Year:** 1 **Building:** Wharf Electrical Building

Checklist Instructions

Ensure that all equipment lock-out and safety practices are followed.

1. Clean interior enclosure - blow out dust and dirt using a vacuum cleaner.
2. Check for heat damaged connections, loose wires and other defects.
3. Check to ensure solid, vibration-free mounting.
4. Check cover or door installation and locking device.
5. Check security of conduits and fittings attached to enclosure.
6. Check the grounding.
7. Inspect fuses and clean contacts and/or check cable and bus connections.
8. Operate all switches/breakers 3 times.
9. Check the voltage and amperage on the primary wires.
10. Check amperage for each phase.
11. Check terminals are tight.
12. Perform infra-red test and report all deficiencies
13. Ensure over current devices are correct sizes for both the anticipated load and short circuit potential.

Completed By: _____

Date: _____

343A - Heater, Electric, Baseboard/Convactor

Equip. Code: 343 **Level:** 2 **Freq./Year:** 1 **Building:** Wharf Electrical Building

Checklist Instructions

1. Check operation of unit and signs of overheating.
2. Vacuum clean or blow-out interior and wipe off surfaces.
3. Check and adjust heater deflector fins.
4. Check operation of thermostat to ensure that convactor starts at designated temperature, and calibrate as required.
5. Check unit supports, controls, and tighten all screws (if applicable).
6. Check continuity of electrical element, check terminals are tight, check contacts and clean or replace as required (if applicable).
7. Check condition of cables, junction box connections and/or power cord (if applicable).

Completed By: _____

Date: _____

342A - Heater, Electric, Duct

Equip. Code: 342 **Level:** 2 **Freq./Year:** 1 **Building:** Wharf Electrical Building

Checklist Instructions

1. De-energize equipment and clean.
2. Check all element insulators are intact.
3. Check elements are not sagging and are free from ground; clean as required.
4. Check for indication of overheating on duct heater chassis (hot spots).
5. Check connections and mounting screws are tight.
6. Check the following duct heater control parts to ensure that connections and mounting screws are tight:
 - a) Disconnect
 - b) Relays
 - c) Contacts
 - d) Control Transformers
 - e) Fuses
 - f) Step Controllers
 - g) Thermostats
 - h) Indicating Lights
 - i) SCR's
 - j) Any other special feature
7. Carry out functional test. Check operating voltages and currents for acceptable levels.

Completed By: _____

Date: _____

491A - Transformer, Vented Dry

Equip. Code: 491 **Level:** 2 **Freq./Year:** 1 **Building:** Wharf Electrical Building

Checklist Instructions

Ensure that all equipment lock-out and safety practices are followed.

1. Preparation
 - a) Ensure that all safety equipment and clothing (goggles, rubber mats, high voltage gloves, etc.) are available.
 - b) Ensure that signs are posted and equipment is locked.
 - c) Perform test on CATU tester and then check voltages.
 - d) Install grounding devices on all phases; signs must identify that equipment is connected to ground.
2. Ensure all louvres are clear of any obstructions.
3. Check the temperature; check for unusual noises, defective grounding and primary and secondary windings.
4. Thoroughly clean interior of transformer; use a vacuum cleaner with insulated fittings.
5. Check tightness of high and low voltage connections.
6. Check the laminations and report any abnormal discoloration.
7. Check voltage of high and low voltage connections.
8. Check coil blocking for looseness.
9. Lubricate fans, where applicable.
10. Record
 - a) Megger resistance.
 - b) Ammeter reading.

Completed By: _____

Date: _____

INSPECTION CHECKLIST

SECTION D

6) WAREHOUSE/ STORAGE FACILITY # 1

4 PAGES

153A - Controls, Electric/Electronic

Equip. Code: 153 **Level:** 2 **Freq./Year:** 1 **Building:** Warehouse/Storage #1

Checklist Instructions

1. Check for dust, dirt & dampness - clean as required
2. Check installation - tighten nuts and screws. Inspect for contact pitting and heat discolouration.
3. Check wire insulation condition.
4. Check frame inside and outside.
5. Check voltages.
6. Clean internal and external.
7. Check pilot lamps, selector switches.
8. Perform operational test.

Completed By: _____

Date: _____

200A - Disconnects

Equip. Code: 200 **Level:** 2 **Freq./Year:** 1 **Building:** Warehouse/Storage #1

Checklist Instructions

Ensure that all equipment lock-out and safety practices are followed.

1. Test operate, check action smooth and not binding; adjust as required.
2. Open, blow out dust and dirt using vacuum cleaner.
3. Check for signs of damage, overheating and abuse; check all bolts and terminals are tight.
4. Clean fuse ends and holders (where applicable).
5. Clean cover and immediate area.

Completed By: _____

Date: _____

212A - Panelboard, Lighting & Appliance

Equip. Code: 212 **Level:** 2 **Freq./Year:** 1 **Building:** Warehouse/Storage #1

Checklist Instructions

Ensure that all equipment lock-out and safety practices are followed.

1. Clean interior enclosure - blow out dust and dirt using a vacuum cleaner.
2. Check for heat damaged connections, loose wires and other defects.
3. Check to ensure solid, vibration-free mounting.
4. Check cover or door installation and locking device.
5. Check security of conduits and fittings attached to enclosure.
6. Check the grounding.
7. Inspect fuses and clean contacts and/or check cable and bus connections.
8. Operate all switches/breakers 3 times.
9. Check the voltage and amperage on the primary wires.
10. Check amperage for each phase.
11. Check terminals are tight.
12. Perform infra-red test and report all deficiencies
13. Ensure over current devices are correct sizes for both the anticipated load and short circuit potential.

Completed By: _____

Date: _____

380A - Lighting, Exterior

Equip. Code: 380 **Level:** 2 **Freq./Year:** 1 **Building:** Warehouse/Storage #1

Checklist Instructions

1. Check for burnt out lamps and ballasts.
2. Check for damaged lighting heads, sockets, reflectors and lenses.
3. Check timers and photocells, and their operation.
4. Check for any water leakage into fixture.
5. Check for loose mounting and damaged supports.
6. Check for correct aiming of light.
7. Repair or replace components as required.

Completed By: _____

Date: _____

INSPECTION CHECKLIST

SECTION D

8) HELICOPTER HANGER- TORBAY ROAD
PAGES

5

200A - Disconnects

Equip. Code: 200 **Level:** 2 **Freq./Year:** 1 **Building:** Helicopter Hangar

Checklist Instructions

Ensure that all equipment lock-out and safety practices are followed.

1. Test operate, check action smooth and not binding; adjust as required.
2. Open, blow out dust and dirt using vacuum cleaner.
3. Check for signs of damage, overheating and abuse; check all bolts and terminals are tight.
4. Clean fuse ends and holders (where applicable).
5. Clean cover and immediate area.

Completed By: _____

Date: _____

212A - Panelboard, Lighting & Appliance

Equip. Code: 212 **Level:** 2 **Freq./Year:** 1 **Building:** Helicopter Hangar

Checklist Instructions

Ensure that all equipment lock-out and safety practices are followed.

1. Clean interior enclosure - blow out dust and dirt using a vacuum cleaner.
2. Check for heat damaged connections, loose wires and other defects.
3. Check to ensure solid, vibration-free mounting.
4. Check cover or door installation and locking device.
5. Check security of conduits and fittings attached to enclosure.
6. Check the grounding.
7. Inspect fuses and clean contacts and/or check cable and bus connections.
8. Operate all switches/breakers 3 times.
9. Check the voltage and amperage on the primary wires.
10. Check amperage for each phase.
11. Check terminals are tight.
12. Perform infra-red test and report all deficiencies
13. Ensure over current devices are correct sizes for both the anticipated load and short circuit potential.

Completed By: _____

Date: _____

261A - Fan, Ceiling (Circulation)

Equip. Code: 261 **Level:** 2 **Freq./Year:** 01 **Building:** Helicopter Hangar

Checklist Instructions

1. Start and stop fan with local switch to ensure proper operation.

Completed By: _____

Date: _____

344A - Heater, Electric, Fan Unit

Equip. Code: 344 **Level:** 2 **Freq./Year:** 1 **Building:** Helicopter Hangar

Checklist Instructions

1. **General**
 - a) Test operate and check thermostat operation
 - b) Check for excessive noise, vibration or leaks.
 - c) Check motor rotates freely by hand.
 - d) Lubricate motor (3 drops SAE 10 ND oil)
 - e) Observe normal operation of unit.

Completed By: _____

Date: _____

343A - Heater, Electric, Baseboard/Convector

Equip. Code: 343 **Level:** 2 **Freq./Year:** 1 **Building:** Helicopter Hangar

Checklist Instructions

1. Check operation of unit and signs of overheating.
2. Vacuum clean or blow-out interior and wipe off surfaces.
3. Check and adjust heater deflector fins.
4. Check operation of thermostat to ensure that convector starts at designated temperature, and calibrate as required.
5. Check unit supports, controls, and tighten all screws (if applicable).
6. Check continuity of electrical element, check terminals are tight, check contacts and clean or replace as required (if applicable).
7. Check condition of cables, junction box connections and/or power cord (if applicable).

Completed By: _____

Date: _____

SECTION E: ELECTRICAL INVENTORY

- 1) Southside Building, 280 Southside Road
- 2) Buoy Maintenance Facility, 270 Southside Road
- 3) Yard, Wharf, Jetties, Southside Base Yard
- 4) Flammable Stores, Southside Base Yard
- 5) Wharf Electrical Building, Southside Base Yard
- 6) Storage Facility # 1, 440 Southside Road
- 7) Storage Facility # 4, 450 Southside Road
- 8) Helicopter Hanger/ General Services Building, Torbay Road
- 9) Storage Facility (Carpentry Shop) – No Current Inventory

ELECTRICAL INVENTORY

SECTION E

1) SOUTHSIDE BASE

7 PAGES

Electrical Inventory CCG Base Bldg.													
ABI Code	Sys	Item	Unit	Type	Description	Qty	Function	Manufacture	Phase	Volts	Amps	Location	Located
					Controls								
3	05	155	112	4	Controls	1	Exhaust Fan	Siemens				Main	Yes
3	05	155	113	8	Controls	1	Welding Shop Lights	General Electric				Truck Bay	Yes
3	05	155	114	8	Controls	1	Exhaust Fan	Siemens				Truck Bay	Yes
3	05	155	115	8	Controls	1	Start Stop	Siemens				Machine Shop	Yes
3	05	155	116		Controls	1	Contactor					Machine Shop	Yes
3	05	155	117		Controls	1	Exhaust Fan					Diesel	No
3	05	155	118		Controls	1	Reset	Schub				Carpenter Shop	No
3	05	155	106	3	Relay Panel	1	Heating	Entela	1	24		Lan Room / 1st Floor	Yes
3	15	155	101	3	Relay	1	Boiler Alarm					Security Desk	No
3	15	155	102	3	Relay	1	Boiler Alarm					Security Desk	No
3	15	155	103	3	Relay	1	Boiler Alarm					Security Desk	No
3	15	155	104	3	Relay	1	Boiler Alarm					Security Desk	Yes
3	15	155	105	3	Relay	1	Boiler Alarm					Security Desk	Yes
3	05	155	MO1	4	Controls	1	Air Conditioning	Controls & Equipment		120	30	Mezzanine	Yes
3	05	155	MO2	4	Controls	1	Air Conditioning	Controls & Equipment		120	30	Mezzanine	Yes
3	05	155	MO3	7	Controls	1	Timer	Inter Matc		120	40	Mezzanine/ Janitors Closet	Yes
3	05	155	MO4	7	Controls	1	Timer	Paragon Elect.		120		Kitchen Closet	Yes
3	05	155	MO5	4	Controls	1	Air Conditioning # 3	Controls & Equipment		120	30	Mezzanine	Yes
3	05	155	MO6	7	Controls	1	Air Conditioning # 2	Paragon Elect.		120		Mezzanine	Yes

Electrical Inventory CCG Base Bldg.												
ABI Code	Qty	Item	Type	Description	Qty	Function	Manufacture	Phase	Volts	Amps	Location	Located
3 05	1	155	MO7	Controls	1	Air Conditioning	Paragon Elect		120	15	Mezzanine	No
3 05	1	155	107	Controls	1	Feedwater #1 Contactor	SquareD				Boiler Room	No
3 05	1	155	108	Controls	1	Feedwater #2 Contactor	SquareD				Boiler Room	No
3 05	1	155	109	Controls	1	Feedwater #3 Contactor	SquareD				Boiler Room	No
3 05	1	155	110	Controls	1	Roof Top Lights Contactor	Cuttler Hammer				Electrical Room (Main)	Yes
3 05	1	155	111	Controls	1	Canopy Lights Contactor	Cuttler Hammer				Electrical Room (Main)	Yes
3 15	1	155	M01	Control Station	1	Ventilation	Johnson Controls		120	0.5	Mezzanine	Yes
3 05	1	155	401	Timer	1	Timer	Quatic Control				Room 418	Yes
3 05	1	155	401	Stop/Start	1	Exhaust Fan	Alan Bradley				4th Floor Ladies Washroom	Yes
				Disconnects								
3 05	1	200	201	Disconnect	1	Maintenance Receptacles	ITE	1	240	30	Room 258	No
3 05	1	200	MO1	Disconnect	1	Fan Coil Unit	Siemens	3	600	30	Mezzanine	Yes
3 05	1	200	MO2	Disconnect	1	Exhaust Fan	Siemens	3	600	30	Mezzanine	Yes
3 05	1	200	MO3	Disconnect	1	Air Conditioning # 2	Cuttler Hammer		120/240	60	Mezzanine	Yes
3 05	1	200	MO4	Disconnect	1	Air Conditioning # 1	Cuttler Hammer		120/240	60	Mezzanine	Yes
3 05	1	200	MO5	Disconnect	1	Air Conditioning	Cuttler Hammer		600	30	Mezzanine	Yes
3 05	1	200	MO6	Disconnect	1	Air Conditioning/AC-3	Cuttler Hammer		120/240		Mezzanine	Yes
3 05	1	200	MO7	Disconnect	1	Air Conditioning / Stand Alone #2	Cuttler Hammer		600	30	Mezzanine	Yes
3 05	1	200	101	Disconnect	1	ADT	Siemens		120	30	Telephone Closet	Yes
3 05	1	200	102	Disconnect	1	Elevator Cab Lights	Siemens	1	120	30	Elevator Room	No

**Electrical Inventory
 CCG Base Bldg.**

ABI Code	Sys	Item	Unit	Type	Description	Qty	Function	Manufacture	Phase	Volts	Amps	Location	Located
3	05	200	103		Disconnect	1	Elevator	Siemens	3	600	60	Elevator Room	No
3	05	200	104		Disconnect	1	Feedwater Pump #1	Square D	3	600	30	Boiler Room	No
3	05	200	105		Disconnect	1	Feedwater Pump #2	Square D	3	600	30	Boiler Room	No
3	05	200	106		Disconnect	1	Feedwater Pump #3	Square D	3	600	30	Boiler Room	No
3	05	200	107		Disconnect	1	Main Disconnect	Federal Pioneer				Electrical Room (Main)	Yes
3	05	200	108		Disconnect	1	Panel DPA	Federal Pioneer				Electrical Room (Main)	Yes
3	05	200	109		Disconnect	1	Overhead Door Stores	Westinghouse		600	30	Heavy Stores	No
3	05	200	110		Disconnect	1	Overhead Door SAR	Westinghouse		600	30	Search & Rescue	No
3	05	200	111		Disconnect	1	Overhead Door SAR	Westinghouse		600	30	Search & Rescue	No
3	05	200	112		Disconnect	1	Overhead Door Welding Shop	Unavailable				Welding Shop	Yes
3	05	200	113		Disconnect	1	Overhead Door Truck Bay	Square D		575	30	Truck Bay	Yes
3	05	200	114		Disconnect	1	Exhaust Fan	ITE		600	30	Machine Shop	Yes
3	05	200	115		Disconnect	1	Exhaust Fan	ITE		600	30	Machines Shop	Yes
3	05	200	116		Disconnect	1	Exhaust Fan	ITE		600	30	Machine Shop	Yes
3	05	200	117		Disconnect	1	Exhaust Fan	ITE		600	30	Machine Shop	Yes
3	05	200	118		Disconnect	1	Air Compressor	General Electric		600	30	Machine Shop	Yes
3	05	200	119		Disconnect	1	Overhead Door	Square D		575	30	Machine Shop	Yes
3	05	200	120		Disconnect	1	Overhead Door	Square D		575	30	Carpenter Shop	Yes
3	05	200	121		Disconnect	1	Shaper Disconnect	ITE		600	30	Carpenter Shop	No
3	05	200	122		Disconnect	1	Dust Collector	ITE		600	30	Carpenter Shop	No

**Electrical Inventory
 CCG Base Bldg.**

ABI Code	Sys	Item	Unit	Type	Description	Qty	Function	Manufacture	Phase	Volts	Amps	Location	Located
3	05	200	123		Disconnect	1	Panel PPB	Siemens		240	100	Truck Bay	
3	10	200	101		Disconnect	1	Fire Alarm	Siemens		120	30	Telephone Closet	Yes
3	10	200	102		Disconnect	1	Panel LPS	FPE		600	100	Generator Room	No
3	05	200	401		Disconnect	1	Range	ITE	3	240	60	Room 407	Yes
3	05	200	402		Disconnect	1		ITE	3	240	60	Room 407	Yes
3	05	200	403		Disconnect	1	Transformer	ITE	3	600	200	Room 415	Yes
3	05	200	404		Disconnect	1	Transformer	ITE	3	600	60	Room 415	Yes
3	05	200	Con1		Disconnect	1	Condenser #1	Siemens		600	30	Building Exterior	Label Unidentifiable
3	05	200	Con2		Disconnect	1	Condenser #2	Cutler Hammer	3	600	30	Building Exterior	Label Unidentifiable
3	05	200	Con3		Disconnect	1	Condenser #3	Cutler Hammer	3	600	30	Building Exterior	Label Unidentifiable
3	05	200	Con4		Disconnect	1	Condenser #4	Cutler Hammer	3	600	30	Building Exterior	Label Unidentifiable
3	05	200	R01		Disconnect	1	Elevator	F.P.E	3	600	30	Penthouse #1 (Roof)	No
3	05	200	R02		Disconnect	1	Freight Elevator	Amalgamate		480/575	60	Freight Elevator Room (Roof)	No
3	05	200	R03		Disconnect	1	Freight Elevator Door	Siemens		600	30	Freight Elevator Room (Roof)	No
					Transformers								
3	05	490	101		Transformer	1	Increase or Decrease Power	Unavailable				Electrical Room (Main)	Yes
3	05	490	102		Transformer	1	Increase or Decrease Power	Westinghouse				Electrical Room (Main)	No
3	05	490	103		Transformer	1	Increase or Decrease Power	Marcus				Electrical Room (Main)	No
3	05	490	104		Transformer	1	Panel PPA	Thomag				Carpenter Shop	No
3	05	490	401	1	Transformer	1	Increase or Decrease Power	Square D		600		Room 415 (5KVA)	Yes

**Electrical Inventory
 CCG Base Bldg.**

ABI Code	Sys	Item	Unit	Type	Description	Qty	Function	Manufacture	Phase	Volts	Amps	Location	Located
3	05	490	402	1	Transformer	1	Increase or Decrease Power	Square D		600		Room 415 (45 KVA)	Yes
3	05	490	R01		Transformer	1	Elevator	BEX Manufacturing FPE	3	600		Penthouse #1 (15 KVA)	No
3	10	490	101		Transformer	1	Panel DPE			600		Generator Room	No
3	10	490	102		Transformer	1	Panel LPS	Poligon		600		Generator Room	No
3	05	500	101		Transformer	1	Increase or Decrease Power	Unavailable				Electrical Room (Main)	Yes
					Heaters								
3	05	341	101	7	Heater	1	Heating	Outlet				Security Room	No
3	05	341	102	7	Heater	1	Heating	Outlet				Security Room	No
3	05	341	103	7	Heater	1	Heating	Outlet				Security Room	No
3	05	341	104	7	Heater	1	Heating	Outlet				Security Room	No
3	05	341	M01	2	Duct Heater	1	Heating	Thermolec	3	600	13.44	Mezzanine	Yes
3	05	341	M02	2	Duct Heater	1	Heating	PM Wright	3	600	41.76	Mezzanine	Yes
3	05	341	M03	2	Duct Heater	1	Heating	PM Wright	3	600	20.83	Mezzanine	Yes
					Starters								
3	05	470	M01		Starter Control	1	Exhaust Fan	Siemens				Mezzanine	Yes
3	05	471	MS1		Starter Combination	1	Supply Fan	Cuttler Hammer	3	600	30	Room 418	Yes
3	05	471	MS2		Starter Combination	1	Exhaust Fan	Cuttler Hammer	3	600	30	Room 418	Yes
					Panel boards								
3	05	212	LPB		Panel board	1	Lights & Power	Federal Pacific		120/240	200	Truck Bay	Yes
3	05	212	PPB		Panel board	1	Power	Siemens		600	225	Truck Bay	Yes
3	05	212	PPBA		Panel board	1	Lights & Power	Commander		120/240	100	Truck Bay	Yes

**Electrical Inventory
 CCG Base Bldg.**

ABI Code	Qty	Item	Unit	Type	Description	Qty	Function	Manufacture	Phase	Volts	Amps	Location	Located
3 05	1	212	PPDA		Panel board	1	Power	Siemens		347/600	225	Truck Bay	Yes
3 05	1	212	DPA		Panel board	1	Distribution Power	Westinghouse	3	347/600	600	Electrical Room (Main)	Yes
3 05	1	212	DPB		Panel board	1	Power	Westinghouse	1	120/240	300	Electrical Room (Main)	Yes
3 05	1	212	DPC		Panel board	1	Power	Westinghouse	1	120/240	300	Electrical Room (Main)	Yes
3 05	1	212	DPD		Panel board	1	Power	Westinghouse	1	120/240	300	Electrical Room (Main)	Yes
3 05	1	212	LPG		Panel board	1	Lights & Power	Sylvania	1	120/240	100	Security Room	Yes
3 05	1	212	LLPM		Panel board	1	Power	Cuttler Hammer	3	120/240	225	Telephone Closet	Yes
3 05	1	212	LLPN		Panel board	1	Power	Cuttler Hammer	3	120/240	225	Telephone Closet	Yes
3 05	1	212	LLPA		Panel board	1	Power	Cuttler Hammer	3	120/240	225	Lan Room / 1st Floor	Yes
3 05	1	212	LLPB		Panel board	1	Power	Cuttler Hammer	3	120/240	225	Lan Room / 1st Floor	Yes
3 05	1	212	PPC2		Panel board	1	Power	Siemens		600	225	Search & Rescue Training Area	Yes
3 05	1	212	LLP1		Panel board	1	Lighting	Siemens		600	125	Search & Rescue Training Area	Yes
3 05	1	212	PPC		Panel board	1	Power	Cuttler Hammer	3	347/600	225	Administration Service Corridor 119	Yes
3 05	1	212	LLPF		Panel board	1	Power & Lights	Cuttler Hammer	3	120/240	225	Administration Service Corridor 119	Yes
3 05	1	212	LPEA		Panel board	1	Power & Lights	Commander	1	120/240	100	Electrical Room (Main)	Yes
3 05	1	212	LPE		Panel board	1	Power & Lights	Federal Pioneer	1	120/240	200	Electrical Room (Main)	Yes
3 05	1	212	PPE		Panel board	1	Power & Lights	Federal Pioneer		600	50	Electrical Room (Main)	Yes
3 05	1	212	LPX		Panel board	1	Power & Lights	Federal Pioneer		120/240	100	Electrical Room (Main)	Yes
3 05	1	212	LPAA		Panel board	1	Power & Lights	Sylvania		120/240	100	Diesel Shop	
3 05	1	212	LPBA		Panel board	1	Power & Lights	Taylor		120/240	200	Welding Shop	

**Electrical Inventory
 CCG Base Bldg.**

ABI Code	Sys	Item	Unit	Type	Description	Qty	Function	Manufacture	Phase	Volts	Amps	Location	Located
3	05	212	LPA		Panel board	1	Power & Lights	Federal Pioneer		120/240	200	Carpenter Shop	Yes
3	05	212	PPD		Panel board	1	Power	Federal Pioneer		600	100	Carpenter Shop	Yes
3	05	212	PPA		Panel board	1	Power	Federal Pioneer		600	100	Carpenter Shop	Yes
3	05	212	LP1		Panel board	1	Power & Lights	Federal Pioneer		120/240	200	Main Hallway/ 2nd Floor	Yes
3	05	212	LPH		Panel board	1	Power & Lights	Cuttler Hammer		120/240	225	Main Hallway/ 2nd Floor	Yes
3	05	212	LPR		Panel board	1	Power & Lights	Cuttler Hammer		120/240	225	Main Hallway/ 2nd Floor	Yes
3	05	212	LPW		Panel board	1	Power & Lights	Cuttler Hammer		120/240	225	Main Hallway/ 2nd Floor	Yes
3	05	212	LPD		Panel board	1	Power & Lights	Federal Pioneer		120/240	200	Tech. Shop	Yes
3	05	212	LLPD		Panel board	1	Power & Lights	Commander		120/240	125	Tech. Shop	Yes
3	05	212	LPDA		Panel board	1	Power & Lights	Commander		120/240	125	Room 258	
3	05	212	LPC		Panel board	1	Power & Lights	Federal Pioneer		120/240	200	Tech. Shop	Yes
3	05	212	LPZ		Panel board	1	Lighting	ITE	1	120/240	200	Room 407	Yes
3	05	212	PPF		Panel board	1	Power	ITE	1	120/240	400	Room 415	Yes
3	05	212	LPP		Panel board	1	Lighting	ITE	3	120/240	100	Room 415	Yes
3	05	212	LPL		Panel board	1	Lighting	Federal Pacific	1	120/240	200	Hallway 4th Floor	Yes
3	05	212	LPU		Panel board	1	Power & Lights	Federal Pioneer	1	120/240	125	Hallway 4th Floor	Yes
3	10	212	LPF		Panel board	1	Power & Lights	Federal Pioneer		120/240	225	Administration Service Corridor 119	Yes
3	10	212	DPE		Panel board	1	Power & Lights	Federal Pioneer	3	347/600	225	Generator Room	Yes
3	10	212	LP4		Panel board	1	Power & Lights	Sylvania	1	120/208	60	Generator Room	
3	10	212	DPF		Panel board	1	Power & Lights	Federal Pioneer		120/208	225	Generator Room	Yes
3	10	212	LPSAA		Panel board	1	Power & Lights	Federal Pioneer	3	240	225	Room 218	Yes

Electrical Inventory CCG Base Bldg.													
ABI Code	Sys	Item	Unit	Type	Description	Qty	Function	Manufacture	Phase	Volts	Amps	Location	Located
3	10	212	LPSA		Panel board	1	Power & Lights	Federal Pioneer	3	240	100	Room 218	Yes
3	10	212	LLPE		Panel board	1	Power & Lights	Federal Pioneer	1	120/240	125	Tech. Shop	Yes
3	10	212	LPOA		Panel board	1	Power & Lights	A.E.C		120/208	125	Lan Room / 4th Floor	Yes
					UPS System								
3	10	524	201		UPS	1	UPS	Sylvania	1	120/240	125	Room 218	No
					Splitter								
3	05	215	101		Splitter Through	1	Power	BEL	3	600	125	Electrical Room (Main)	No
3	05	215	401		Splitter Through	1	Power			600		Room 415	No
					New Equipment								
					Disconnect	1		Cutler Hammer		600	30	Welding Shop	New
					Disconnect			Cutler Hammer		600	30	Carpenter Shop	New
								Sylvia Lighting		120/240	100	Carpenter Shop 2nd Floor	New
			LPV					ITE		120/240		3rd Floor	New
			LPQ					ITE		120/240	200	4th Floor	New
			LPT					General Electric		120/240	225	3rd Floor	New
					Transformer			Hammond Power		600	30	Generator Room	
					Transformer			Siemens		600	30	Generator Room	

ELECTRICAL INVENTORY

SECTION E

2) BUOY MAINTENANCE FACILITY

3 PAGES

Electrical Inventory - CCG Buoy Shed												
ABI Code	Sys	Item	Unit	Type	Description	QTY	Function	Manufacture	Phase	Volts	Amps	Location
3	05	120	01	0	Main Breaker	1	Main Breaker	Siemens	3	600	1000	Main Electrical Room
3	05	261	01	1	Ceiling Fans	1	Air Circuratiuon			347		Workshop Area
3	05	261	02	1	Ceiling Fans	1	Air Circuratiuon					Workshop Area
3	05	261	03	1	Ceiling Fans	1	Air Circuratiuon					Workshop Area
3	05	261	04	1	Ceiling Fans	1	Air Circuratiuon					Workshop Area
3	05	261	05	1	Ceiling Fans	1	Air Circuratiuon					Workshop Area
3	05	261	06	1	Ceiling Fans	1	Air Circuratiuon					Workshop Area
3	05	261	07	1	Ceiling Fans	1	Air Circuratiuon					Workshop Area
3	05	471	E1	0	Starter Combination	1	Wash Bay Exhaust	Siemens	3	600	20	Workshop Area (Serial # R41-5450-1)
3	05	471	01	0	Starter Combination	1	Electrical Room Exhaust	Siemens	1	115		Main Electrical Room
3	05	471	02	0	Starter Combination	1	Pumps	Siemens	3	600	60	Mechanical Room
3	05	471	03	0	Starter Combination	1	Feedwater Pumps	Siemens	3	600	60	Mechanical Room
3	05	471	F1	0	Starter Combination	1	Boiler Room Exhaust	Siemens	3	600	60	Boiler Room
3	05	471	EF-1	0	Starter Combination	1	Exhaust Fan	Ertela	1	120	18	Workshop area (Serial # P014403)
3	05	155	01	4	Contacto	1	Solvent Distillation Unit	Ertela		208	30	Workshop Area (Model # P014404)
3	05	155	02	4	Contacto	1	Exterior Lighting	Asco		120		Electrical Room 119
3	05	155	03	4	Contacto	1	High Bay Lighting	Asco		120		Electrical Room 119
3	05	155	11	1	Contacto	1	Receptacles in Blast Chamber	ITE	3	600	30	Electrical Room 119
3	05	155	04	7	Contacto	1	Cartridge Collector	Wheelabrator		120		Electrical Room 119
3	05	155	12	4	Contacto	1	Lighting Paint boot	Allen Bradley		120		Workshop area
3	05	155	05	5	Contacto	1	Heat Recovery Control	Honeywell		120		Workshop Area

Electrical Inventory - CCG Buoy Shed												
ABI Code	Sys	Item	Unit	Type	Description	QTY	Function	Manufacture	Phase	Volts	Amps	Location
3	05	155	06	4	Contactors	1	Make-up Air Control					Workshop Area
3	05	155	07	7	Contactors	1	Fan washroom	Intermatic	1	120		Janitor's Room
3	05	155	08	8	Contactors	1	Condensate Pump Set	Toma Tech	1	120		Workshop Area (.66HP)
3	05	155	09	4	Contactors	1	Exterior Lighting	Asco		120		Main Electrical Room
3	05	155	10	4	Contactors	1	Exhaust System	Allen Bradley	3	600	30	2nd Floor Stores
3	05	200	01	2	Disconnect Switch	1	Overhead Garage Door	Sylvania	1	120	30	Buoy Shed West End
3	05	200	02	2	Disconnect Switch	1	Solvent Distillation Unit	Entela	3	600	60	Workshop area (Model # S01-3578-3)
3	05	200	03	2	Disconnect Switch	1	Jib Crane North	Siemens	3	600	30	Workshop Area
3	05	200	04	2	Disconnect Switch	1	Jib Crane South	Siemens	3	600	30	Workshop area
3	05	200	05	2	Disconnect Switch	1	Jib Crane West	Siemens	3	600	30	Workshop Area
3	05	200	06	2	Disconnect Switch	1	Jib Crane East	Siemens	3	600	30	Workshop Area
3	05	200	07	2	Disconnect Switch	1	Overhead Garage Door Washbay	ITE	3	240	30	Overhead Door Wash Bay
3	05	200	08	2	Disconnect Switch	1	Receptacles in Blast Clamber	Commander	3	600	20	Workshop Area
3	05	200	09	2	Disconnect Switch	1	Over head Crane	Square D				Workshop Area
3	05	200	10	2	Disconnect Switch	1	Over head Crane Heater Direct Fired AHU	Square D				Workshop Area
3	05	200	11	2	Disconnect Switch	1	Outside Buoy Shed	Templite	3	600	30	Buoy Shed (Outside)
3	05	200	12	2	Disconnect Switch	1	Hot Water Boiler	Siemens	3	600	30	Janitor's Room
3	05	200	P1	2	Disconnect Switch	1	Glycol Supply	Cutler Hammer				Mechanical Room
3	05	200	P2	2	Disconnect Switch	1	Glycol Supply	Cutler Hammer				Mechanical Room
3	05	200	Furn1	2	Disconnect Switch	1	Furnace #1	Siemens	3	600	30	Boiler Room
3	05	200	Furn2	2	Disconnect Switch	1	Furnace #2	Siemens	3	600	30	Boiler Room
3	05	200	13	2	Disconnect Switch	1	Service Entrance	Siemens	3	600	1200	Boiler Room

Electrical Inventory - CCG Buoy Shed												
ABI Code	Sys	Item	Unit	Type	Description	QTY	Function	Manufacture	Phase	Volts	Amps	Location
3	05	200	14	2	Disconnect Switch	1	Overhead Garage Door Stores	Siemens				Stores 1st Level
3	05	200	15	2	Disconnect Switch	1	Air Conditioner	Commander	3	600	30	Stores 2nd Level
3	05	200	16	2	Disconnect Switch	1	Hydraulic Hatch	Square D	3	600	30	Stores 2nd Level
3	05	200	17	2	Disconnect Switch	1	Monotail Hoist	Siemens	3	600	30	Stores 2nd Level
3	05	200	18	2	Disconnect Switch	1	Exhaust System	Siemens	3	600	30	Stores 2nd Level
3	05	212	DC	0	Panelboard	1	Distribution Power	Siemens	3	120	400	Electrical Room 119 (4 Wire)
3	05	212	LA	0	Panelboard	1	Lighting	Siemens	3	240	225	Electrical Room 119 (4 Wire)
3	05	212	RA	0	Panelboard	1	Power Panelboard	Siemens	3	240	225	Electrical Room 119 (4 Wire)
3	05	212	DB	0	Panelboard	1	Distribution Power	Siemens	3	347	225	Electrical Room 119 (4 Wire)
3	05	212	LC	0	Panelboard	1	Power Panelboard	Siemens	3	600	225	Main Electrical Room (4 Wire)
3	05	212	DD	0	Panelboard	1	Distribution Power	Siemens	3	120	225	Main Electrical Room (4 Wire)
3	05	212	DA	0	Panelboard	1	Distribution Power	Siemens	3	208	400	Main electrical Room (Type CDP-7)
3	05	212	LB	0	Panelboard	1	Distribution Power Lighting & Power Panelboard	Siemens	3	347	1000	Main Electrical Room
3	10	212	E1	0	Panelboard	1	Power Panelboard	Siemens	3	240	225	Buoy Shed 1st Level
3	10	212	E2	0	Panelboard	1	Power Panelboard	Siemens	3	347	225	Main Electrical Room (Type CDP-7)
3	10	212	E3	0	Panelboard	1	Power Panelboard	Siemens	3	600	225	Main Electrical Room (4 Wire)
3	10	212	E2	0	Panelboard	1	Power Panelboard	Siemens	3	120	225	Main Electrical Room (4 Wire)
3	10	212	E3	0	Panelboard	1	Distribution Power	Siemens	3	208	400	Electrical Room 119 (4 wire)
3	05	386	01	0	Blast Chamber MCC	1	Motor Control Center	Air Blast Facility	3	575	53	Workshop Area
3	05	386	02	0	Paint Booth MCC	1	Motor Control Center	Paint Facility	3	575	10	Workshop Area
3	05	490	01	2	Transformer	1	Transformer	Siemens	3			Main Electrical Room (112.5KVA Type ANN)

**Electrical Inventory -
CCG Buoy Shed**

ABI Code	Sys	Item	Unit	Type	Description	QTY	Function	Manufacture	Phase	Volts	Amps	Location
3	10	490	01	2	Transformer	1	Distribution Panelboard	Federal Pioneer	3	600		Main Electrical Room (Type DC 30KVA)
3	10	250	01	1	Emergency Generator	1	Emergency Power	Kohler	3	347 600	48	Boiler Room (60 KW, Serial #303138)

ELECTRICAL INVENTORY

SECTION E

3) YARD, WHARF JETTIES

1 PAGE

Electrical Inventory - CCG Yard- Wharf- Jetties												
ABI Code	Sys	Item	Unit	Type	Description	QTY	Function	Manufacture	Phase	Volts	Amps	Location
3	05	200	101	1	Disconnect Switch	1	60amp, 600 volt Receptacle					
3	05	200	102	1	Disconnect Switch	1	60amp, 600 volt Receptacle					Wharf
3	05	200	103	1	Disconnect Switch	1	Condenser					Wharf
3	05	370	01	11	Lighting, Exterior (high standard)	1	Security and illumination					Wharf
3	05	386	101	0	Power pedestal #1	1	Power pedestal for Shore power					Wharf
3	05	386	102	0	Power pedestal #2	1	Power pedestal for Shore power					Wharf
3	05	386	103	0	Power pedestal #3	1	Power pedestal for Shore power					Wharf
3	05	386	104	0	Power pedestal #4	1	Power pedestal for Shore power					Wharf
3	05	386	105	0	Power pedestal #5	1	Power pedestal for Shore power					Wharf
3	05	386	106	0	Power pedestal #6	1	Power pedestal for Shore power					Wharf
3	05	386	107	0	Power pedestal #7	1	Power pedestal for Shore power					Wharf
3	05	386	108	0	Power pedestal #8	1	Power pedestal for Shore power					Wharf
3	05	470	101	0	Starter Combination	1	Crane Starter	Crane				Wharf

ELECTRICAL INVENTORY

SECTION E

4) FLAMMABLE STORES

1 PAGE

Electrical Inventory CCG Flammable Stores												
ABI Code	Sys	Item	Unit	Type	Description	QTY	Function	Manufacture	Phase	Volts	Amps	Location
					Electric Unit Heaters							
3	5	341	1	7	Unit Heater							Electrical Room
					Disconnects	1	Heating Electrical Room	Cromlox	1	600		
3	5	200	1	1	Disconnect							Electrical Room
3	5	200	2	1	Disconnect	1	Gasoline Pump	Square D		240	30	Electrical Room
3	5	200	3	1	Disconnect	1	Diesel Pump	Square D		240	30	Electrical Room
					Transformers	1	Main Disconnect for Panel MD	Square D	3	600	1600	
3	5	490	1	2	Transformer							Electrical Room
3	5	490	2	2	Transformer	1	Feed to Panel A	Poltgon	3	600 ->240	25KVA	Electrical Room
					Panel boards	1	Crane	Poltgon	3	600 ->480	112.5KVA	
3	5	212	A	0	Panel Board							Electrical Room
3	5	212	MD	0	Panel Board	1	Lighting	Square D	1	120/240	100	Electrical Room
					Monitoring systems	1	Shore Power	Square D	3	600	1600	Outside Flammable Stores
3	15	153	1	24	Gas Monitoring system							
					Lighting	1	Gas Detection for Fuel Tanks	EBW		110/220		
05		370	101		Exterior Lighting							Building Exterior
3	05	370	102		Interior Lighting	All	illuminate building exterior					Building Interior

ELECTRICAL INVENTORY

SECTION E

5) WHARF ELECTRICAL BUILDING

1 PAGE

Electrical Inventory Wharf Electrical Building												
ABI Code	Sys	Item	Unit	Type	Description	QTY	Function	Manufacture	Phase	Volts	Amps	Location
					<i>Transformers</i>							
4	5	490	1	2	Transformer	1	Pole Lights	Cutler Hammond			6 KVA	Electrical Room
					<i>Panel boards</i>							
4	5	212	LP1		Panel Boards	1	Lights	Cutler Hammond		120/208	60	Electrical Room
4	5	212	DP1		Panel Boards	1	Main Distribution	Cutler Hammond	3	600	2000	Electrical Room
					<i>Disconnects</i>							
4	5	200	1		Disconnect	1	Main Distribution	Cutler Hammond	3	600	2000	Electrical Room
					<i>Controllers</i>							
4	5	155	1	3	Exhaust Fan Control	1	Controls Exhaust Fan		1	110		Electrical Room
4	5	155	2	7	Timer	1	Controls Pole Lights	Parson		110		Electrical Room
4	5	155	3	3	Contactors	1	Controls Pole Lights	Alan-Bradley	3	600	25	Electrical Room
					<i>Electric Heaters</i>							
4	5	341	1	7	Electric Heater	1	Electrical Room Heating	Dimplax	1	347		Electrical Room
4	5	341	2	7	Electric Heater	1	Store Room Heaton	Dimplax	1	347		Electrical Room
					<i>Motorized Damper</i>							
4	5	186	1	4	Motorized Damper	1	Air Intake	Multi Products		110		Electrical Room
					<i>Lighting</i>							
4	5	380	101		Exterior Lighting	All	illuminate building exterior					Building Exterior

ELECTRICAL INVENTORY

SECTION E

6) STORAGE FACILITY # 1 (CN YARD)

1 PAGE

Electrical Inventory CN Warehouse CCG St. John's												
ABI Code	Sys	Item	Unit	Type	Description	QTY	Function	Manufacture	Phase	Volts	Amps	Location
					Electrical Inventory							
					Controls							
3	05	155	101	0	Contactors	1	Lighting	Alan Bradley				1st Floor
					Disconnects							
3	05	200	101	0	Disconnect	1	Overhead Door	Cutler Hammer		120	30	1st Floor (2 Horse Power)
					Panel boards							
3	05	212	101		Panel Boards	1	Lights & Power	Federal Pioneer		240	200	1st Floor (NBLP42B-3AB)
					Lighting							
3	05	370	All	05	Interior Lighting	All	Means of Egress/Access					1st Floor
3	05	370	All	10	Exterior Lighting	All	Means of Egress/Access					Building Exterior

ELECTRICAL INVENTORY

SECTION E

7) HELICOPTER HANGER

2 PAGE

<i>Electrical Inventory Helicopter Hanger, General Services Building</i>												
ABI Code	Sys	Item	Unit	Type	Description	QTY	Function	Manufacture	Phase	Volts	Amps	Location
	05	200	01		600 Amp Disconnect Switch	1	Main Bldg Disconnect					Electrical Room, 1st Floor
	05	212	01		Panel GA	1	Power Supply					Workshop, 1st floor
	05	212	02		Panel S	1	Power Supply					Workshop, 1st floor
	05	212	03		Panel EG	1	Power Supply					Hallway, 2nd floor
	05	212	04		Panel T	1	Power Supply					Hallway, 2nd floor
	05	212	05		Panel GG	1	Power Supply					Electrical Room, 2nd Floor
	05	212	06		Panel GGA	1	Power Supply					Electrical Room, 2nd Floor
	05	212	07		Panel EGG	1	Power Supply					Mechanical Room, 2nd Floor
	05	212	08		Panel G	1	Power Supply					Electrical Room, 2nd Floor
	05	212	09		Panel GEN	1	Power Supply					Workshop, 1st floor
3	05	212	10		Panel FF	1	Power Supply					Electrical Room, 2nd Floor
	05	261	01-05		Ceiling Fan	5	Air Circulation					Hangar Floor
	05	280	01-04		Fan Heater	4	Heating					Workshop, 1st Floor
	05	343	01		Baseboard Heaters	1	Heating					Front porch, 1st Floor
	05	343	02-03		Baseboard Heaters	2	Heating					Workshop, 1st Floor
	05	343	04-15		Baseboard Heaters	12	Heating					2 nd floor
	05	343	16-18		Explosion Proof Heaters	3	Heating					Room # 107, 116 and 117
	05	344	01-06		Ceiling Heating Fan	6	Heating					Hangar Floor
	05	379	All		Interior Lighting	All	Lighting Interior of Bldg					Throughout Building

<i>Electrical Inventory</i>												
<i>Helicopter Hangar, General Services Building</i>												
<u>ABI Code</u>	<u>Sys</u>	<u>Item</u>	<u>Unit</u>	<u>Type</u>	<u>Description</u>	<u>QTY</u>	<u>Function</u>	<u>Manufacture</u>	<u>Phase</u>	<u>Volts</u>	<u>Amps</u>	<u>Location</u>
	05	379	01-21		Mercury Vapour Lighting	21	Lighting of Hangar					Hangar Floor
	05	380	01-04		Exterior Lighting	4	Exterior Lighting of Bldg					Exterior of Bldg
	05	520	01		Ceiling Heater	1	Heating					Front Vestibule