



THE CITY OF WINNIPEG

REQUEST FOR PROPOSAL

RFP NO. 199

SUPPLY & INSTALLATION OF RADIO COMMUNICATION CONSOLES

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PART B - BIDDING PROCEDURES

B1. PROJECT TITLE

B1.1 SUPPLY & INSTALLATION OF RADIO COMMUNICATION CONSOLES

B2. SUBMISSION DEADLINE

B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, November 14, 2006.

B2.2 Proposal Submissions determined by the Manager of Materials to have been received later than the Submission Deadline will not be accepted and will be returned upon request.

B2.3 The Contract Administrator or the Manager of Materials may extend the Submission Deadline by issuing an addendum at any time prior to the time and date specified in B2.1.

B3. ENQUIRIES

B3.1 All enquiries shall be directed to the Contract Administrator identified in D4.1.

B3.2 If the Bidder finds errors, discrepancies or omissions in the Request for Proposal, or is unsure of the meaning or intent of any provision therein, the Bidder shall notify the Contract Administrator of the error, discrepancy or omission, or request a clarification as to the meaning or intent of the provision at least five (5) Business Days prior to the Submission Deadline.

B3.3 Responses to enquiries which, in the sole judgment of the Contract Administrator, require a correction to or a clarification of the Request for Proposal will be provided by the Contract Administrator to all Bidders by issuing an addendum.

B3.4 Responses to enquiries which, in the sole judgment of the Contract Administrator, do not require a correction to or a clarification of the Request for Proposal will be provided by the Contract Administrator only to the Bidder who made the enquiry.

B3.5 The Bidder shall not be entitled to rely on any response or interpretation received pursuant to B3 unless that response or interpretation is provided by the Contract Administrator in writing.

B4. CONFIDENTIALITY

B4.1 Information provided to a Bidder by the City or acquired by a Bidder by way of further enquiries or through investigation is confidential. Such information shall not be used or disclosed in any way without the prior written authorization of the Contract Administrator.

B4.2 The Bidder shall not make any statement of fact or opinion regarding any aspect of the Request for Proposals to the media or any member of the public without the prior written authorization of the Contract Administrator.

B5. ADDENDA

B5.1 The Contract Administrator may, at any time prior to the Submission deadline, issue addenda correcting errors, discrepancies or omissions in the Request for Proposal, or clarifying the meaning or intent of any provision therein.

B5.2 The Contract Administrator will issue each addendum at least two (2) Business Days prior to the Submission Deadline, or provide at least two (2) Business Days by extending the Submission Deadline.

- B5.2.1 Addenda will be available on the Bid Opportunities page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at <http://www.winnipeg.ca/matmgt>.
- B5.2.2 The Bidder is responsible for ensuring that he has received all addenda and is advised to check the Materials Management Branch internet site for addenda shortly before submitting his Proposal.
- B5.3 The Bidder shall acknowledge receipt of each addendum in Paragraph 9 of Form A: Proposal. Failure to acknowledge receipt of an addendum may render a Proposal non-responsive.

B6. SUBSTITUTES

- B6.1 The Work is based on the materials, equipment, methods and products specified in the Request for Proposal.
- B6.2 Substitutions shall not be allowed unless application has been made to and prior approval has been granted by the Contract Administrator in writing.
- B6.3 Requests for approval of a substitute will not be considered unless received in writing by the Contract Administrator at least seven (7) Business Days prior to the Submission Deadline.
- B6.4 The Bidder shall ensure that any and all requests for approval of a substitute:
- (a) provide sufficient information and details to enable the Contract Administrator to determine the acceptability of the material, equipment, method or product as either an approved equal or alternative;
 - (b) identify any and all changes required in the applicable Work, and all changes to any other Work, which would become necessary to accommodate the substitute;
 - (c) identify any anticipated cost or time savings that may be associated with the substitute;
 - (d) certify that, in the case of a request for approval as an approved equal, the substitute will fully perform the functions called for by the general design, be of equal or superior substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the Contract;
 - (e) certify that, in the case of a request for approval as an approved alternative, the substitute will adequately perform the functions called for by the general design, be similar in substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the Contract.
- B6.5 The Contract Administrator, after assessing the request for approval of a substitute, may in his sole discretion grant approval for the use of a substitute as an “approved equal” or as an “approved alternative”, or may refuse to grant approval of the substitute.
- B6.6 The Contract Administrator will provide a response in writing, at least two (2) Business Days prior to the Submission Deadline, only to the Bidder who requested approval of the substitute.
- B6.6.1 The Bidder requesting and obtaining the approval of a substitute shall be entirely responsible for disseminating information regarding the approval to any person or persons he wishes to inform.
- B6.7 If the Contract Administrator approves a substitute as an “approved equal”, any Bidder may use the approved equal in place of the specified item.

- B6.8 If the Contract Administrator approves a substitute as an “approved alternative”, any Bidder bidding that approved alternative shall base his Total Bid Price upon the specified item but may also indicate an alternative price based upon the approved alternative. Such alternatives will be evaluated in accordance with B16.
- B6.9 No later claim by the Contractor for an addition to the price(s) because of any other changes in the Work necessitated by the use of an approved equal or an approved alternative will be considered.

B7. PROPOSAL SUBMISSION

- B7.1 The Proposal Submission consists of the following components:
- (a) Form A: Proposal;
 - (b) Form B: Prices;
 - (c) Information demonstrating Experience and Capability;
 - (d) Information required to be submitted in Specifications E4 through E22.
- B7.2 All components of the Proposal Submission shall be fully completed or provided, and submitted by the Bidder no later than the Submission Deadline, with all required entries made clearly and completely in ink, to constitute a responsive Proposal.
- B7.3 The Proposal Submission shall be submitted enclosed and sealed in an envelope clearly marked with the RFP number and the Bidder's name and address.
- B7.3.1 Samples or other components of the Proposal Submission which cannot reasonably be enclosed in the envelope may be packaged separately, but shall be clearly marked with the RFP number, the Bidder's name and address, and an indication that the contents are part of the Bidder's Proposal Submission.
- B7.4 Proposal Submissions submitted by facsimile transmission (fax) or internet electronic mail (e-mail) will not be accepted.
- B7.5 Proposal Submissions shall be submitted to:
- The City of Winnipeg
Corporate Finance Department
Materials Management Branch
185 King Street, Main Floor
Winnipeg MB R3B 1J1

B8. PROPOSAL

- B8.1 The Bidder shall complete Form A: Proposal, making all required entries.
- B8.2 Paragraph 2 of Form A: Proposal shall be completed in accordance with the following requirements:
- (a) if the Bidder is a sole proprietor carrying on business in his own name, his name shall be inserted;
 - (b) if the Bidder is a partnership, the full name of the partnership shall be inserted;
 - (c) if the Bidder is a corporation, the full name of the corporation shall be inserted;
 - (d) if the Bidder is carrying on business under a name other than his own, the business name and the name of every partner or corporation who is the owner of such business name shall be inserted.

- B8.2.1 If a Proposal is submitted jointly by two or more persons, each and all such persons shall identify themselves in accordance with B8.2.
- B8.3 In Paragraph 3 of Form A: Proposal, the Bidder shall identify a contact person who is authorized to represent the Bidder for purposes of the Proposal.
- B8.4 Paragraph 11 of Form A: Proposal shall be signed in accordance with the following requirements:
- (a) if the Bidder is a sole proprietor carrying on business in his own name, it shall be signed by the Bidder;
 - (b) if the Bidder is a partnership, it shall be signed by the partner or partners who have authority to sign for the partnership;
 - (c) if the Bidder is a corporation, it shall be signed by its duly authorized officer or officers and the corporate seal, if the corporation has one, should be affixed;
 - (d) if the Bidder is carrying on business under a name other than his own, it shall be signed by the registered owner of the business name, or by the registered owner's authorized officials if the owner is a partnership or a corporation.
- B8.4.1 The name and official capacity of all individuals signing Form A: Proposal shall be printed below such signatures.
- B8.4.2 All signatures shall be original and shall be witnessed except where a corporate seal has been affixed.
- B8.5 If a Proposal is submitted jointly by two or more persons, the word "Bidder" shall mean each and all such persons, and the undertakings, covenants and obligations of such joint Bidders in the Proposal Submission and the Contract, when awarded, shall be both joint and several.

B9. PRICES

- B9.1 The Bidder shall state a price in Canadian funds for each item of the Work identified on Form B: Prices.
- B9.1.1 Prices on Form B: Prices shall include:
- (a) duty;
 - (b) freight and cartage;
 - (c) Provincial and Federal taxes [except the Goods and Services Tax (GST) and Manitoba Retail Sales Tax (MRST, also known as PST), which shall be extra where applicable] and all charges governmental or otherwise paid;
 - (d) profit and all compensation which shall be due to the Contractor for the Work and all risks and contingencies connected therewith.
- B9.2 The quantities listed on Form B: Prices are to be considered approximate only. The City will use said quantities for the purpose of comparing Proposals.
- B9.3 The quantities for which payment will be made to the Contractor are to be determined by the Work actually performed and completed by the Contractor, to be measured as specified in the applicable Specifications.

B10. EXPERIENCE AND CAPABILITY

- B10.1 The Bidder shall provide information demonstrating company experience with projects of similar size and scope and experience of personnel assigned to the project

B10.2 The Bidder shall provide information which demonstrates their capability to complete a project of similar size and scope.

B11. SPECIFICATIONS

B11.1 The Bidder shall provide the information requested in Specification E2 though E21 demonstrating the product Bid adheres to the specifications and will completely integrates with the City's current system.

B12. QUALIFICATION

B12.1 The Bidder shall:

- (a) undertake to be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, or if the Bidder does not carry on business in Manitoba, in the jurisdiction where the Bidder does carry on business;
- (b) be responsible and not be suspended, debarred or in default of any obligation to the City;
- (c) be financially capable of carrying out the terms of the Contract;
- (d) have all the necessary experience, capital, organization, and equipment to perform the Work in strict accordance with the terms and provisions of the Contract;
- (e) have successfully carried out work, similar in nature, scope and value to the Work;
- (f) employ only Subcontractors who:
 - (i) are responsible and not suspended, debarred or in default of any obligation to the City (a list of suspended or debarred individuals and companies is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at <http://www.winnipeg.ca/matmgt>); and
 - (ii) have successfully carried out work similar in nature, scope and value to the portion of the Work proposed to be subcontracted to them, and are fully capable of performing the Work required to be done in accordance with the terms of the Contract;
- (g) have a written workplace safety and health program in accordance with The Workplace Safety and Health Act (Manitoba);

B12.2 The Bidder shall be prepared to submit, within three (3) Business Days of a request by the Contract Administrator, proof satisfactory to the Contract Administrator of the qualifications of the Bidder and of any proposed Subcontractor.

B12.3 The Bidder shall provide, on the request of the Contract Administrator, full access to any of the Bidder's equipment and facilities to confirm, to the Contract Administrator's satisfaction, that the Bidder's equipment and facilities are adequate to perform the Work.

B13. OPENING OF PROPOSALS AND RELEASE OF INFORMATION

B13.1 Proposal Submissions will not be opened publicly.

B13.2 After award of Contract, the name(s) of the successful Bidder(s) and the Contract Amount(s) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at <http://www.winnipeg.ca/matmgt>.

B13.3 To the extent permitted, the City shall treat all Proposal Submissions as confidential, however the Bidder is advised that any information contained in any Proposal Submission may be released if required by City policy or procedures, by The Freedom of Information and Protection of Privacy Act (Manitoba), by other authorities having jurisdiction, or by law.

B14. IRREVOCABLE OFFER

B14.1 The Proposal(s) submitted by the Bidder shall be irrevocable for the time period specified in Paragraph 10 of Form A: Proposal.

B14.2 The acceptance by the City of any Proposal shall not release the Proposals of the other responsive Bidders and these Bidders shall be bound by their offers on such Work for the time period specified in Paragraph 10 of Form A: Proposal.

B15. WITHDRAWAL OF OFFERS

B15.1 A Bidder may withdraw his Proposal without penalty by giving written notice to the Manager of Materials at any time prior to the Submission Deadline.

B15.1.1 Notwithstanding GC.7.05(2), the time and date of receipt of any notice withdrawing a Proposal shall be the time and date of receipt as determined by the Manager of Materials.

B15.1.2 The City will assume that any one of the contact persons named in Paragraph 3 of Form A: Proposal or the Bidder's authorized representatives named in Paragraph 11 of Form A: Proposal, and only such person, has authority to give notice of withdrawal.

B15.1.3 If a Bidder gives notice of withdrawal prior to the Submission Deadline, the Manager of Materials shall:

- (a) retain the Proposal Submission until after the Submission Deadline has elapsed;
- (b) open the Proposal Submission to identify the contact person named in Paragraph 3 of Form A: Proposal and the Bidder's authorized representatives named in Paragraph 11 of Form A: Proposal; and
- (c) if the notice has been given by any one of the persons specified in B15.1.3(b), declare the Proposal withdrawn.

B15.2 A Bidder who withdraws his Proposal after the Submission Deadline but before his offer has been released or has lapsed as provided for in B14.2 shall be liable for such damages as are imposed upon the Bidder by law and subject to such sanctions as the Chief Administrative Officer considers appropriate in the circumstances. The City, in such event, shall be entitled to all rights and remedies available to it at law, including the right to retain the Bidder's bid security.

B16. INTERVIEWS

B16.1 The Contract Administrator may, in his sole discretion, interview Bidders during the evaluation process.

B17. NEGOTIATIONS

B17.1 The City reserves the right to negotiate details of the Contract with Bidders.

B17.2 Negotiations, if any, are intended to address administrative and technical details of the Contract. The Bidder is advised to present his best offer, not a starting position for negotiations, in his Proposal Submission; the City will not necessarily pursue negotiations with any Bidder.

B17.3 If, in the course of negotiations pursuant to B17.2 or otherwise, the Bidder amends or modifies a Proposal after the Submission Deadline, the City may consider any amended Proposal as an alternative to the Proposal as originally submitted without releasing the Bidder from the Proposal as originally submitted.

B18. EVALUATION OF PROPOSALS

B18.1 Award of the Contract shall be based on the following evaluation criteria:

- (a) compliance by the Bidder with the requirements of the Request for Proposal:
 - (i) mandatory requirements (pass/fail);
- (b) qualifications of the Bidder and the Subcontractors, if any, pursuant to B12:
- (c) Technical suitability (25%);
- (d) Experience and Capability (15%);
- (e) Evaluated Bid Price (60%);
- (f) economic analysis of any approved alternative pursuant to B6.

B18.2 Further to B18.1(a), the Award Authority may reject a Proposal as being non-responsive if the Proposal Submission is incomplete, obscure or conditional, or contains additions, deletions, alterations or other irregularities. The Award Authority may reject all or any part of any Proposal, or waive technical requirements if the interests of the City so require.

B18.3 Further to B18.1(b), the Award Authority shall reject any Proposal submitted by a Bidder who does not demonstrate, in his Proposal Submission, in other information required to be submitted, during interviews or in the course of reference checks, that he is responsible and qualified.

B18.4 Further to B18.1(c) the Technical suitability shall be evaluated on the basis of the solution that is most compatible with current City of Winnipeg Radio Communication system as demonstrated his Proposal Submission.

B18.5 Further to B18.1(d), Experience and Capability shall be evaluated based on the information required to be submitted or demonstrated his Proposal Submission.

B18.6 Further to B18.1(e), the Evaluated Bid Price shall be the sum of the quantities multiplied by the unit prices for each item shown on Form B: Prices.

B18.6.1 If there is any discrepancy between the Evaluated Bid Price written in figures, the Evaluated Bid Price written in words and the sum of the quantities multiplied by the unit prices for each item, the sum of the quantities multiplied by the unit prices for each item shall take precedence.

B18.7 This Contract will be awarded as a whole.

B19. AWARD OF CONTRACT

B19.1 The City will give notice of the award of the Contract or will give notice that no award will be made.

B19.2 The City will have no obligation to award a Contract to a Bidder, even though one or all of the Bidders are determined to be responsible and qualified, and the Proposals are determined to be responsive.

B19.2.1 Without limiting the generality of B19.2, the City will have no obligation to award a Contract where:

- (a) the prices exceed the available City funds for the Work;
- (b) the prices are materially in excess of the prices received for similar work in the past;
- (c) the prices are materially in excess of the City's cost to perform the Work, or a significant portion thereof, with its own forces;
- (d) only one Proposal is received; or
- (e) in the judgment of the Award Authority, the interests of the City would best be served by not awarding a Contract.

B19.3 Where an award of Contract is made by the City, the award shall be made to the responsible and qualified Bidder submitting the most advantageous offer.

PART C - GENERAL CONDITIONS

C1. GENERAL CONDITIONS

C1.1 The *General Conditions for the Supply and Delivery of Goods* (Form 21: 88 03) are applicable to the Work of the Contract.

C1.1.1 The *General Conditions for the Supply and Delivery of Goods* are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at <http://www.winnipeg.ca/matmgt>.

PART D - SUPPLEMENTAL CONDITIONS

GENERAL

D1. GENERAL CONDITIONS

- D1.1 In addition to the *General Conditions for the Supply and Delivery of Goods*, these Supplemental Conditions are applicable to the Work of the Contract.
- D1.2 The General Conditions are amended by striking out "The City of Winnipeg Act" wherever it appears in the General Conditions and substituting "The City of Winnipeg Charter".
- D1.3 The General Conditions are amended by striking out "Board of Commissioners" or "Commissioner" wherever it appears in the General Conditions and substituting the "Chief Administrative Officer".
- D1.4 The General Conditions are amended by striking out "Tender Package" wherever it appears in the General Conditions and substituting "Request for Proposal".
- D1.5 The General Conditions are amended by striking out "Tender Submission" wherever it appears in the General Conditions and substituting "Proposal Submission".
- D1.6 The General Conditions are amended by striking out "Bidding Instructions" wherever it appears in the General Conditions and substituting "Bidding Procedures".

D2. SCOPE OF WORK

- D2.1 The Work to be done under the Contract shall consist of Supply, Installation and Training for radio dispatch consoles located at the Winnipeg Police Services and Winnipeg Fire Paramedic Services alternate dispatch facilities.
- D2.2 The major components of the Work are as follows:
- (a) **Supply and Install four (4) Dispatch consoles for the Winnipeg Fire Paramedic Service;**
 - (b) **Supply and Install six (6) Dispatch consoles for the Winnipeg Police Service;**

D3. DEFINITIONS

- D3.1 When used in this Request for Proposal:
- (a) "**Business Day**" means any Calendar Day, other than a Saturday, Sunday, or a Statutory or Civic Holiday;
 - (b) "**may**" indicates an allowable action or feature which will not be evaluated;
 - (c) "**must**" or "**shall**" indicates a mandatory requirement which will be evaluated on a pass/fail basis;
 - (d) "**should**" indicates a desirable action or feature which will be evaluated on a relative scale;
 - (e) "**Submission Deadline**" and "**Time and Date Set for the Final Receipt of Bids**" mean the time and date set out in the Bidding Procedures for final receipt of Proposals;
 - (f) "**WPS**" means Winnipeg Police Service;
 - (g) "**WFPS**" means Winnipeg Fire Paramedic Service.

D4. CONTRACT ADMINISTRATOR

- D4.1 The Contract Administrator is:
Ed Richardson
Communications Systems Engineer
421 Osborne Street
Winnipeg MB R3L 2A2

Telephone No. (204) 986-6002
Facsimile No. (204) 986-2666

D5. NOTICES

- D5.1 GC.7.05 is hereby amended to delete reference to "registered mail" and to replace same with "ordinary mail".
- D5.2 GC.7.05 is further amended hereby to include delivery by facsimile transmission (fax) as an acceptable means of delivering notices, consents, approvals, statements, authorizations, documents or other communications required or permitted to be given under this Contract. Deliveries by fax will be deemed to have been received on the day of delivery, if a business day, or if not a business day, on the business day next following the day of delivery.
- D5.3 Further to GC.7.05, all notices, consents, approvals, statements, authorizations, documents or other communications to the City, except as expressly otherwise required in D5.4, D5.5 or elsewhere in the Contract, shall be sent to the attention of the Contract Administrator at the address or facsimile number identified in D4.1.
- D5.4 All notices of appeal to the Chief Administrative Officer shall be sent to the attention of the Chief Financial Officer at the following address or facsimile number:
The City of Winnipeg
Chief Administrative Officer Secretariat
Administration Building, 3rd Floor
510 Main Street
Winnipeg MB R3B 1B9
Facsimile No.: (204) 949-1174
- D5.5 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications required to be submitted or returned to the City Solicitor shall be sent to the following address or facsimile number:
The City of Winnipeg
Corporate Services Department
Legal Services Division
185 King Street, 3rd Floor
Winnipeg MB R3B 1J1
Facsimile No.: (204) 947-9155

D6. CONFIDENTIALITY AND OWNERSHIP OF INFORMATION

- D6.1 Information provided to the Contractor by the City or acquired by the Contractor during the course of the Work is confidential. Such information shall not be used or disclosed in any way without the prior written authorization of the Contract Administrator.
- D6.2 The Contract, all deliverables produced or developed, and information provided to or acquired by the Contractor are the property of the City. The Contractor shall not disclose or appropriate

to its own use, or to the use of any third party, all or any part thereof without the prior written consent of the Contract Administrator.

- D6.3 The Contractor shall not make any statement of fact or opinion regarding any aspect of the Contract to the media or any member of the public without the prior written authorization of the Contract Administrator.

SUBMISSIONS

D7. AUTHORITY TO CARRY ON BUSINESS

- D7.1 The Contractor shall be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, or if the Contractor does not carry on business in Manitoba, in the jurisdiction where the Contractor does carry on business, throughout the term of the Contract, and shall provide the Contract Administrator with evidence thereof upon request.

D8. WORKERS COMPENSATION

- D8.1 The Contractor shall be registered with the Workers Compensation Board of Manitoba, shall provide and maintain Workers Compensation coverage throughout the term of the Contract, and shall provide the Contract Administrator with evidence thereof upon request.

D9. INSURANCE

- D9.1 The Contractor shall provide and maintain commercial general liability insurance, in the amount of at least two million dollars (\$2,000,000.00) all inclusive, with The City of Winnipeg being added as an additional insured, with a cross-liability clause, to remain in place at all times during the performance of the Work.
- D9.2 Deductibles shall be borne by the Contractor.
- D9.3 The Contractor shall provide the Contract Administrator with a certificate of insurance of the policy at least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than the date specified in GC.3.01 for the return of the executed Contract.
- D9.4 The Contractor shall not cancel, materially alter, or cause the policy to lapse without providing at least fifteen (15) Calendar Days prior written notice to the Contract Administrator.

SCHEDULE OF WORK

D10. COMMENCEMENT

- D10.1 The Contractor shall not commence any Work until he is in receipt of a letter of intent from the Award Authority authorizing the commencement of the Work.
- D10.2 The Contractor shall not commence any Work on the Site until:
- (a) the Contract Administrator has confirmed receipt and approval of:
 - (i) evidence that the Contractor is in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba;
 - (ii) evidence of the workers compensation coverage specified in D8;

- (iii) evidence of the insurance specified in D9;
- (b) the Contractor has attended a meeting with the Contract Administrator, or the Contract Administrator has waived the requirement for a meeting.

D10.3 The City intends to award this Contract by December 1, 2006.

WARRANTY

D11. WARRANTY

- D11.1 Further to GC.10.01, if a defect or deficiency prevents the full and normal use or operation of the Work or any portion thereof, for purposes of calculating the warranty period, time shall be deemed to cease to elapse for the defective or deficient portion, and for any portion of the Work whose use or operation is prevented by such defect or deficiency, as of the date on which the defect or deficiency is observed or the use or operation is prevented and shall begin to run again when the defect or deficiency has been corrected or the Work may be used or operated to the satisfaction of the Contract Administrator.
- D11.2 Notwithstanding GC.10.01, GC.10.02 and D11.1, if any law of Manitoba or of the jurisdiction in which the Work was manufactured requires, or if the manufacturer provides, a longer warranty period or a warranty which is more extensive in its nature, then the provisions of such law or manufacturer's warranty shall apply.

PART E - SPECIFICATIONS

GENERAL

E1. GENERAL

E1.1 These Specifications shall apply to the Work.

E2. DISPATCH CONSOLE SPECIFICATION

E2.1 These specifications shall apply to and form an integral part of the Contract.

E3. SCOPE

E3.1 The purpose of this specification is to cover the requirements for the design, supply, and installation of Radio Communication Consoles to interface with existing Trunked and conventional radio systems for the Winnipeg Police Service (WPS) and the Winnipeg Fire Paramedic Service (WFPS) dispatchers at a secondary communication center.

E3.2 The WPS and WFPS currently use Motorola Centrecom Gold Elite consoles at their primary dispatch center. These consoles are used to access the Manitoba Telecommunications Service's FleetNet 800® trunked radio system as well as several conventional channels. The trunked radio system is a Motorola SmartZone® system. The existing consoles use T1 data lines to connect the primary dispatch center to the Zone Switch located several kilometres away in an MTS Communications Ltd. facility.

E3.3 The consoles relevant to this specification will be installed in a secondary dispatch facility that will serve as the primary dispatch location for approximately 2 years while renovations are undertaken at the current primary dispatch location. When the renovations are completed, the current primary dispatch location will once again be activated and the secondary dispatch location will be used for back-up and training purposes only.

E3.4 This RFP is comprised of two phases:

Phase One

(a) Supply and Delivery of 10 consoles (6 for WPS, 4 for WFPS) and associated electronics.

Phase Two

(b) Installation of the 10 consoles and associated training.

E3.5 The new alternate dispatch facility is currently under construction and is scheduled to be available for installation during Q2 of 2007

E4. BASIC SYSTEM REQUIREMENTS

(a) The technical parameters herein represent the minimum acceptable performance requirements when indicated as a must or shall. Options to the system will be clearly stated as an option and are to be priced separately in the Bidder's proposal submission.

(b) The Console electronics shall be Motorola Centrecom. Alternatives will only be considered if approved in writing by Motorola.

(c) The system shall consist of 6 consoles positions for WPS and 4 positions for the WFPS and the necessary supporting hardware and software.

- (d) The dispatch consoles shall serve as the interface between the radio channels (trunked and conventional), the telephone system, the audio recording system, and the dispatchers.
- (e) The dispatch consoles shall allow the operator to control various operations on the radio channels as described in section 7
- (f) The dispatch consoles shall provide visual and audible indications of events as described in section 6.
- (g) The dispatch consoles will allow the operators to receive audio as described in section 4.
- (h) The dispatch consoles will allow the operators to transmit audio as described in section 5.
- (i) The dispatch consoles will allow the operators to page other radios or stations as described in section 8.
- (j) The dispatch consoles shall allow interaction with the telephone system as described in section 9.
- (k) The dispatch consoles shall have the power supply and conditioning as described in section 14.
- (l) Installation of the system shall conform to all CSA/ULC and City of Winnipeg Electrical Codes.
- (m) The Bidder's should note that MTS will not allow third parties access to the Console Database Manager, the SmartZone Manager Network, or reconfiguration of the AIMI/Ambassador set-up. If the proposed solution involves integration with the MTS network, the Installation and integration must be performed by MTS FleetNet, or their subcontractor Motorola.
- (n) As-built documentation shall be provided as per section 22.
- (o) It is anticipated that the Alternate Dispatch Facility should be ready for installation by 01 April 2007. The exact installation dates will be determined.
- (p) The proposed console system should provide a console solution allowing for a future migration to work in a Project 25 radio system with minimal upgrades. The Bidder shall provide details on Project 25 compatibility and on any required system upgrades necessary to ensure compatibility.

E5. RECEIVE AUDIO

- (a) Receive Audio shall be separated into selected and unselected audio. Talkgroups or channels that are selected are considered to be the primary focus of the dispatcher.
- (b) There shall be separate volume controls for select and un-selected audio.
- (c) There shall be separate speakers for select and un-selected audio.
- (d) Receive audio originating from mobile or portable radios shall be received even during a transmission from the dispatcher. The dispatcher must be capable of receiving while transmitting.
- (e) There shall be a headphone jack that accepts the standard 6 wire PJ-7 (or WE-425) style plug. When an appropriate headset is inserted in the jack, the selected audio will be routed to the headset ear piece and the selected audio speaker is muted.
- (f) Bidders shall indicate the maximum number of channels or talkgroups that can be selected or unselected simultaneously.
- (g) Receive audio shall be made available for connection to an external audio recording device or system.

E6. TRANSMIT AUDIO

- (a) Transmit audio shall originate from Plantronics H-81/H-91 headsets with a Plantronics P-10 Amplifier (supplied by the WPS and WFPS) via a standard 6 wire PJ-7 (or WE-425) interface.
- (b) Audio from the dispatcher's headset microphone shall be directed to the selected talkgroup or channel after a push-to-talk (PTT) has been activated.
- (c) PTT shall be obtained from a footswitch. Additional methods of PTT are acceptable.
- (d) Bidders shall describe any alternative methods of producing a PTT.
- (e) The dispatch console shall provide a visual indication of the relative output level of the transmitted audio.
- (f) A transmission from a dispatcher shall take priority over all other audio on a channel. If a call is in progress from a mobile or portable radio, a transmission from a dispatcher must over-ride or mute the mobile or portable transmission. Radios receiving the transmission shall only hear the dispatcher and not the mobile or portable currently transmitting.

E7. CONSOLE INDICATORS

- E7.1 The operator's primary visual interface shall be, as a minimum, an LCD based monitor with a viewable screen size of 20 inches measured diagonally.
- E7.2 Bidders shall detail how their proposal meets each of the following requirements
 - (a) The presence of an Incoming Call shall be visually indicated. It shall be obvious to the operator which channel or talkgroup the call is being received on.
 - (b) The dispatch console shall clearly display the presence of a transmitted signal from the console. This indicator shall identify which channel or talkgroup the outgoing transmission is occurring on.
 - (c) Each time an incoming call is received on a trunked talkgroup, the console shall display the Motorola Radio ID (7XXXXX) of the originating station. The radio ID must remain visible after the transmission ends. Some form of an incoming call log that would display the radio id of the last several incoming calls would be desirable.
 - (d) The dispatch consoles shall clearly indicate which channels or talkgroups are selected and un-selected.
 - (e) The dispatch consoles shall clearly indicate which channels or talkgroups are patched together.
 - (f) The presence of an emergency event on a trunked talkgroup must be visually and audibly indicated. The talkgroup and radio id of the originating station must be clearly indicated.

E8. CONSOLE CONTROL FUNCTIONS

- E8.1 The primary method of controlling functions should be via screen selection of an icon, either with a mouse or optionally a touch-screen.
- E8.2 Bidders shall detail how their proposal meets each of the following requirements
 - (a) All Mute: When activated shall quiet the received audio of the speakers or headset to a predetermined level.
 - (b) Select: When activated shall switch the desired channel/talk group audio from the unselect speaker to the select speaker and/or headset. It shall also allow the footswitch and any other PTT activators to place the console in a transmit mode, routing transmit audio to that channel or talkgroup. When a talk group/channel is selected, all previously selected channels shall reset to un-select status unless the SIMUL SELECT switch is actuated.

- (c) Simultaneous Select: When activated, allows the operator to simultaneously transmit and receive on two or more talkgroups or channels.
- (d) Channel/Talkgroup Patch: When activated, shall allow the operator to logically “patch” together two or more talkgroups or channels. When activated, received audio on one channel/talkgroup will be transmitted on all the other “patched” resources. There shall be an indicator to alert the operator when this function is enabled.
- (e) Phone Patch: When activated and connected to a live telephone circuit, shall allow communication between a mobile and the telephone circuit on a simplex (one at a time) basis. This function shall be independent of other operator activities. Indicator, when lit, shall indicate that a phone patch is enabled.
- (f) Telephone: When activated will route telephone audio to and from the operator’s headset. Selected audio will be routed to the select speaker. Consoles shall be capable of interfacing to a Centrex Meridian telephone.

E8.3 All control functions shall be associated with a visual indicator that will identify the state of that function. The indicator shall clearly identify if that function has been engaged or disengaged.

E9. PAGING SCREEN GROUP

E9.1 The dispatch consoles shall be capable of generating signalling tones. These signals shall be both pre-programmed as well as operator entered.

E9.2 Paging formats available on all channels/talkgroups should include two-tone sequential, and multi-digit DTMF. The Bidder shall provide details of tones that can be generated.

E9.3 The dispatch consoles should be capable of being programmed such that a series of tones or DTMF digits could be associated with a screen icon. Selecting that icon would result in the tones or DTMF digits being transmitted on a selected or pre-programmed channel or talkgroup.

E10. TELEPHONE INTERFACE

E10.1 The dispatch console shall provide an interface to the local Centrex telephone circuit. The operator must be capable of answering an incoming call and placing an outgoing call using their headset.

E10.2 The dispatch console must be capable of receiving an off-hook signal from the telephone system. The presence of this signal, (generally a dry contact closure) will route telephone audio to and from the operator’s headset. Selected audio will be routed to the select speaker.

E10.3 The operator must be able to take the telephone off-hook using the dispatch console.

E11. PHYSICAL WORKSTATION FEATURES

- (a) The following are the physical requirements of the dispatch consoles.
 - (i) Footswitch: A heavy-duty non-skid footswitch shall be supplied at all consoles and shall control the transmit function.
 - (ii) Headset Jack Interface Boxes: Two independent headset jack boxes shall be supplied at each console position and shall accommodate a headset of the Pacific Plantronics type, and shall have an individual volume control. The jacks boxes shall operate independent of each other, providing separate volume controls for receive audio. The volume of an incoming call shall remain constant, regardless if one or two headset jacks have been connected. Jack boxes shall have a reliable connector and shall have provision for connecting existing 3 conductor long frame plugs (PJ-7 or WE-425). Plugging in headsets shall switch selected audio to headset and

disconnect audio from the selected speaker. There shall be an internal level adjustment for setting the output level for transmitted audio.

- (iii) Mouse Interface: The console shall be equipped and supplied for operation using a standard pointing device such as a mouse.
- (iv) Touch Screen Option: The bidder is encouraged to provide details and pricing for provisioning each dispatch console with a touch screen. This is optional and will not be considered in the bid evaluation. The touch screen should allow direct control of all console functions by touching the appropriate control graphic. The touch screen interface shall use infrared or surface acoustic wave (SAW) technology or other equivalent technology to assure the highest overall long-term reliability. No mirrors or other passive devices which could require periodic cleaning or adjustment to maintain peak performance shall be permitted in the optical path(s). Touch screens using pressure sensitive, resistive or capacitive technology or which have a reflective coating shall not be acceptable under this specification. It shall be possible for the dispatch console operator to use both touch screen and mouse control simultaneously.
- (v) Display Monitor: In order to minimize strain on the operator's eyes, a high-resolution colour monitor shall be provided for each console position. The monitor screen for the dispatch consoles shall be a minimum of 20 inch diagonal and shall be capable of a resolution of 1024 x 768 pixels. If a administration workstation is required as part of this system, the screen shall be a minimum of 17 inches. These screens shall be capable of displaying a minimum of 256 colours. Flat panel LCD monitors are preferred but CRT monitors will be considered.
- (vi) Boom Microphone: A high quality, cardioid pattern (directive) desktop microphone having a uniform frequency response from 100 to 7000 Hz and a nominal front to back ratio of 20 dB shall be provided for the two WPS supervisor positions. The microphone shall be of hum resistant design to eliminate the effects of surrounding interference. The boom microphone shall be adjustable so that the Supervisor does not have to change their sitting position to use the microphone.
- (vii) "On the Air" Lamp Indicator: A visual lamp or Indicator shall be mounted near each dispatch console workstation area. The indicator shall light when the console operator's selected talkgroup/channel is either transmitting or receiving. This indicator signifies to other staff in the room that the console operator is occupied.
- (viii) VU meter: Shall be supplied at all consoles, to monitor transmit and receive audio and as a maintenance aid for service technicians. (Note: Can either be an internal display on the monitor or a physical meter.)
- (ix) Speakers: Each console shall be equipped with two speakers, a Select and an Unselect. Each speaker shall have its own individual volume control.
- (x) Power Supply: Each console position shall be provided with a separate UPS backup that can keep the workstation operational for at least 60 minutes in the event of a loss of primary AC power..

E12. DISPATCH CONSOLE PROGRAMMING

- (a) The configuration of each dispatch console shall be customizable by the City of Winnipeg. The screen layout, available options, and operating parameters shall be capable of being changed by City of Winnipeg technical staff.
- (b) Upon a power up or reset of the dispatch console, the console should automatically load and run the last used configuration. Once the program is loaded, the configuration should be selectable or capable of being changed.
- (c) Operators of each console should not be capable of altering or changing the screen layout or operating parameters.

E13. DISPATCH CONSOLE ELECTRONICS

- E13.1 It is anticipated that in addition to the actual operator interfaces, additional electronic systems or components will be required. The following specifications pertain to any such electronics.
- (a) **System Redundancy:** The console system shall be provided with sufficient redundancy such that no single point failure can cause the loss of more than one dispatch position or more than one channel / talk group. Any duplication of circuits necessary to attain this performance shall be provided without exception. Redundant power supplies shall be provided. Bidder shall detail system redundancy methods and implementation.
 - (b) **External Synchronization Clock:** The Console Operating Positions shall be synchronized to an external time reference source. A standard NTP server will be available at the new facility if required. The bidder shall describe the time synchronization interface requirements and include the necessary hardware and or software interface to the WFPS/WPS time standard.
 - (c) **Power Supply:** The dispatch console electronics shall be furnished with main and hot standby power supplies. It shall have a separate UPS backup that can keep it operational for at least 60 minutes.
 - (d) **All electronics used to support the dispatch consoles, apart from the actual operator interfaces, shall be provided in standard 19" rack mount enclosures.**
 - (e) **Extender boards:** Shall be included to allow technicians to measure all power and signal levels found on any plug in circuit boards.

E14. LOGGING RECORDER OPTION

- E14.1 The WFPS and WPS intend to digitally record and archive radio communications at the secondary dispatch facility. The dispatch consoles or supporting electronics must provide a suitable interface to allow recording of the received and transmitted audio signals
- E14.2 An audio output should be provided for each radio channel or talkgroup to combine the audio signals from the receive and transmit circuits for output to a logging recorder. Continuous control tones shall not be present at this output. The receive and transmit isolation shall be fully preserved. The audio outputs should be a nominal -10 dBm into a 600 ohm balanced line referenced to average voice.
- E14.3 If an audio output for each channel or talkgroup is not available, or economically feasible, the recording specification will be satisfied if an audio output containing the selected transmit and receive audio from each console position is made available.
- E14.4 The bidder shall describe how the audio logging requirements will be fulfilled.

E15. ELECTRICAL REQUIREMENTS

- E15.1 All equipment shall be CSA/ULC approved.
- E15.2 Each console position shall be equipped at minimum with an Uninterruptible Power Supply capable of powering the entire work station for thirty (30) minutes. Note that besides the Bidder's equipment, the Console Operator UPS shall have to power one additional PC and three 20-inch LCD monitors. The UPS's shall be equipped with a maintenance bypass switch.

E16. FUNCTIONAL CONCEPTS

- E16.1 The Dispatch Console System is required to provide the City of Winnipeg Fire Paramedic Service and Winnipeg Police Service a reliable and efficient method for radio dispatch.

E16.2 The six consoles used by the WPS must provide access to 46 trunked talkgroups and 1 conventional channel. Normal operation involves 3 dispatch consoles operating on dedicated talkgroups. These 3 consoles on occasion will simultaneously select several talkgroups for broadcasting messages.

Console	Use	TALKGROUP / CHANNEL ACCESS
Console 1	Dispatch 1	Monitors 1 talkgroup Occasional Simultaneous selects Occasional talkgroup patches
Console 2	Dispatch 2	Monitors 1 talkgroup Occasional Simultaneous selects Occasional talkgroup patches
Console 3	Dispatch 3	Monitors 1 talkgroup Occasional Simultaneous selects Occasional talkgroup patches
Console 4	Supervisor 1	Typically monitors 3 dispatch talkgroups Occasional Simultaneous selects Occasional talkgroup patches Receives and originates calls to/from the conventional channel Responds to emergency activations
Console 5	Supervisor 2	Typically monitors special project talkgroups Occasional Simultaneous selects Occasional talkgroup patches
Console 6	Back Up	May be used to function as any of the other consoles

E16.3

- (a) For training and operational purposes, it is desirable to have the new consoles emulate the look and performance of the current Centrecom Gold Elite consoles. For this reason, the console screen should be capable of displaying icons representing at least 16 talkgroups / channels, telephone, private call, call alert, patches and multi-selects. The Bidder shall submit representative samples of screen shots.
- (b) For the six WPS consoles, the display layout shall provide the following:
 - (i) Screen one has 16 – talkgroups, a private call button, telephone interconnect button and an activity log display.
 - (ii) Screen two has 16 - talkgroups, a private call button, telephone interconnect button and an activity log display.
 - (iii) Screen three has 16 – talkgroups, a private call button, telephone interconnect button and an activity log display.
 - (iv) Screen four has one conventional channel.
- (c) For the WPS, at least one console (supervisors) must provide controlled access to the conventional channel. The operation of this channel is via DTMF access code. Mobiles enter a DTMF sequence and this triggers an audible alarm on the supervisors console. Audio from the conventional receiver is now available on all the consoles. After communication is completed, the supervisor resets the system and the audio is again muted. Bidders shall describe how their consoles can be configured to accomplish this function and what, if any, external equipment would be required.
- (d) The four consoles used by the WFPS must provide access to a minimum of 17 trunked talkgroups and 2 conventional channels. Normal operation involves 2 dispatch consoles for medical dispatching and 2 consoles for Fire dispatching. These 4 consoles often simultaneously select several talkgroups for broadcasting messages.

Console	Use	TALKGROUP / CHANNEL ACCESS
Console 1	Fire Supvr	Typically monitors 3 dispatch talkgroups Frequent Simultaneous selects Infrequently Sets up patches Responds to emergency activations Pages fire halls using DTMF
Console 2	Fire Disp	Monitors 1-2 talkgroups Occasional Simultaneous selects
Console 3	EMS Supvr	Typically monitors 2 dispatch talkgroups Frequent Simultaneous selects Sets up patches with conventional channels Responds to emergency activations Pages hospitals using two-tone sequential paging.
Console 4	EMS Disp	Typically monitors 2 dispatch talkgroups Frequent Simultaneous selects Receives calls from the conventional channel

- (e) For the four WFPS consoles, the display layout shall provide the following:
- (i) Screen one has 14 – talkgroups, 2- conventional channels, a private call button, telephone interconnect button and an activity log display.
 - (ii) Screen two has 14 - talkgroups, a private call button, telephone interconnect button and an activity log display.
 - (iii) Screen three has 32 – paging icons for hall signalling (DTMF), 8-paging icons for hospital paging (2 tone), telephone interconnect button and an activity log display.
- (f) The system shall have a multiple level of access, where the system administrator may restrict access by individual users to certain functions, through password access to controls to elements of the systems.
- (g) The operators shall be able to log into the Radio Dispatch Console system at any workstation. There shall not be access limitations between any of the workstations. All access limitations shall be clearly indicated in the proposal.
- (h) Transmit audio from adjacent consoles shall be muted and not heard from select or unselect speakers. Console operators using a headset shall be able to hear adjacent consoles. Adjacent consoles are defined as two or more consoles in the same physical room.
- (i) Each operator position will be equipped with a back-up radio or consolette. The supply of these radios is not part of this bid opportunity. These radios will be used by the operator in the event of a console failure.

E17. TRAINING

E17.1 Training of the City of Winnipeg Police Services and Fire Paramedic Service personnel in the consoles operation shall take place on site after the installation is completed.

- (a) The training provided by the Contractor shall include the instruction books, literature, and operation manuals required for the presentation of the program.
- (b) The sessions shall be given by qualified training personnel.

- (c) A manual indicating the context of the session is to be provided by the Contractor for each participant of each training course detailed in this specification.

E17.2 If the bidder is offering Motorola Centrecom Gold Elite consoles as the solution, the WPS and WFPS may elect to forego the training element.

E17.3 Training shall include operational instruction on how to perform each function available on the consoles.

- (a) Console training should be provided in a package customized to the installation location.
- (b) A customizable soft copy of the training presentation shall be provided for future training requirements.
- (c) The Bidder shall submit for review and approval, their proposal for carrying out training including an outline of proposed topics, and an agenda with their proposal.
- (d) The Contractor shall provide training as follows:
 - (i) The WFPS will require training during Q4 of 2005 after installation at their current alternative dispatch facility. The Contractor shall provide training sessions for the users to familiarize them in the proper operations of the newly installed equipment. A train-the-trainer approach will be used whereby the WPS will designate up to 8 staff to be trained.
 - (ii) WPS dispatchers shall receive training in the operation of the consoles. Class size will be limited to 12 participants per class and it is anticipated that 6 classes may be required. The WPS will require training during Q2 of 2007 after installation at the new alternative dispatch facility.
 - (iii) Technologists from the City of Winnipeg's Communication Systems Branch and WPS Communication Coordinator will require training in the operation, maintenance and system management of the new system. Training will be after each installation (2 sessions). A maximum of 10 staff will require training.

E17.4 The cost for training shall be priced separately for WPS and WFPS.

E18. DELIVERY

E18.1 The Contractor shall supply and deliver WFPS equipment (item number 2 on Form B) F.O.B destination to 700 Assiniboine Park Drive, Winnipeg, MB in order to complete installation in accordance with Specification E19.1.

- (a) The Contractor should deliver by **December 31, 2006**.

E18.2 The balance of equipment shall be delivered F.O.B destination to 700 Assiniboine Park Drive, Winnipeg, MB in order to complete installation in accordance with Specification E19.1.

E19. INSTALLATION

E19.1 The Contractor shall complete the Work by June 30, 2007.

E19.2 The Contractor shall be responsible for the installation of the system at 700 Assiniboine Park Drive, Winnipeg, Manitoba. Technologists from the City's Communication System Branch are available to assist with the installation at both facilities. The Contractor shall indicate if a discount is available if the City technologists assist with the installation.

E19.3 The Bidder shall detail exact physical space requirements for all elements of the system. The Bidder's proposal shall include a plan describing in detail the step-by-step procedure for installation of the system. The plan should outline any work that can be completed before the

installation of the fixed equipment. The plan should also outline any preparation and any expected manpower requirement from the City for the installation of the system.

- E19.4 A separate room is available at to house any support electronics. Only the dispatch console equipment will be installed at the dispatch operator positions. The City has verified that cable runs between the planned operator positions and the room for support electronics are less than 150 feet.
- E19.5 For installation purposes the Contractor should consider that the secondary facility at 700 Assiniboine Park Drive will be built on a raised floor and console positions will be installed in ergonomic workstation furniture having a proper cable management system. Rack mount equipment shall be mounted in a wiring closet which is dedicated to computer, radio console and telephone interconnections.
- E19.6 All cables installed shall be uniquely numbered and have identification at both ends.
- E19.7 All cabling and interconnections shall meet all CSA and City of Winnipeg Electrical code requirements.
- E19.8 The Bidder's submission shall provide a proposed operational acceptance test plan covering each console operational function and emergency power testing. Final operational acceptance test plan will be one that is mutually agreed by the City and the Contractor.

E20. STANDARD WARRANTY

- E20.1 All console equipment purchased and work done under this proposal shall have a minimum one (1) year standard warranty. Warranty shall cover all repair costs, parts, labour and shipping, F.O.B. Winnipeg, freight prepaid, 700 Assiniboine Park Drive, (both shipping and receiving). Warranty on equipment shall include the repair or exchange of equipment on site. The Contractor shall be responsible to substitute equipment, of same make and model.
- E20.2 Warranty period will start affective successful completion of the operational acceptance test plan.
- E20.3 The Bidder shall provide the details and cost associated with any extended warranty or maintenance programs available.

E21. SYSTEM ALARMS

- E21.1 In the event of a system fault or failure, the dispatch console operators shall receive an indications of this failure
- E21.2 Alarms shall be provided with both an audible and a visual indication.
- E21.3 Bidder's shall provide complete details on how their proposed system will provide alarms of the following situations.
 - (a) The dispatch position loses communication with the support electronics.
 - (b) Abnormal Conditions occurring at console position.
 - (c) Failure of a power supply or loss of power

E22. DOCUMENTATION

- E22.1 The Bidder shall supply with their bid response, system diagrams showing how the new consoles will be interfaced with MTS FleetNet network.

- E22.2 The Contractor shall supply as-built documentation showing all wiring installed for the installation of the console system. Diagrams will include connector pin outs identification, conductor colour codes and cable identification.
- E22.3 Diagrams shall be supplied both electronically as AutoCad or equivalent vector files (dxf or dwg format) and in paper format.