

# **REQUEST FOR STANDING OFFER (RFSO)**

# "Translation services"

Offer Submission Deadline: August 30, 2013 at 2:00 PM (EDT)

## **Submit Offers to:**

Canadian Space Agency TENDERS RECEPTION OFFICE Receiving/Shipping (between 8:00 am and 4:30 pm) 6767 Route de l'Aéroport Saint-Hubert QC Canada J3Y 8Y9

Attention: Patricia Carpentier

Reference: CSA File No. 9F018-13-0138

Note: Please read this Request for Standing Offer carefully for further details on the requirements and

offer submission instructions.



August 8, 2013



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## **PART 1 - GENERAL INFORMATION**

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## 1. Introduction

The Request for Standing Offers (RFSO) is divided into six parts plus attachments and annexes, as follows:

Part 1 General Information: provides a general description of the requirement; Part 2 Offeror Instructions: provides the instructions applicable to the clauses and conditions of the RFSO: Part 3 Offer Preparation Instructions: provides offerors with instructions on how to prepare their offer to address the evaluation criteria specified; Evaluation Procedures and Basis of Selection: indicates how the evaluation will Part 4 be conducted, the evaluation criteria which must be addressed in the offer, and the basis of selection: Part 5 Certifications: includes the certifications to be provided; Part 6 6A, Standing Offer, and 6B, Resulting Contract Clauses: 6A, includes the Standing Offer containing the offer from the Offeror and the applicable clauses and conditions;

The Annexes include the Statement of Work, the Basis of Payment and any other annexes.

call-up made pursuant to the Standing Offer.

6B, includes the clauses and conditions which will apply to any contract resulting



## 2. Summary

## **Description**

The Canadian Space Agency is looking for a company to provide translation services from French to English and/or from English to French of documents submitted, as and when required.

## Period of the standing offer

The period for making call-ups against the Standing Offer is from time of issuance for a two-year period.

## **Services requirements**

For services requirements, Offerors in receipt of a pension or a lump sum payment must provide the required information as detailed in article 3 of Part 2 of the Request for Standing Offers (RFSO).

## **Trade agreements**

Further to Article 1802 of the Agreement on Internal Trade (AIT), AIT does not apply to this procurement.

## 3. Debriefings

Offerors may request a debriefing on the results of the request for standing offers process. Offerors should make the request to the Standing Offer Authority within 15 working days of receipt of the results of the request for standing offers process. The debriefing may be in writing, by telephone or in person.

## 4. Key Terms

See attached list at Annex C – List of acronyms



#### **PART 2 - OFFEROR INSTRUCTIONS**

## 1. Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the Request for Standing Offers (RFSO) by number, date and title are set out in the <u>Standard Acquisition Clauses and Conditions Manual</u> (https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) issued by Public Works and Government Services Canada.

Offerors who submit an offer agree to be bound by the instructions, clauses and conditions of the RFSO and accept the clauses and conditions of the Standing Offer and resulting contract(s).

The 2006 (01-06-2013) Standard Instructions - Request for Standing Offers - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the RFSO.

The 2006 (01-06-2012) Standard Instructions are modified as follow:

Remove entirely **points 4** and **5** of article **01** (**2013-03-21**) **Code of Conduct and Certifications** – **Offer**.

#### 2. Submission of Offers

Offers must be submitted only to Canadian Space Agency (CSA) Tenders Reception Office by the date, time and place indicated on the front page of the Request for Standing Offers.

Due to the nature of the Request for Standing Offers, transmission of offers by facsimile to CSA will not be accepted.

## 3. Enquiries - Request for Standing Offers

All enquiries must be submitted **BY EMAIL ONLY** to <a href="mailto:patricia.carpentier@asc-csa.gc.ca">patricia.carpentier@asc-csa.gc.ca</a> no later than three (3) calendar days before the Request for Standing Offers (RFSO) closing date. Enquiries received after that time may not be answered.

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



## 4. Applicable Laws

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in Quebec.

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

#### PART 3 - OFFER PREPARATION INSTRUCTIONS

## 1. Offer Preparation Instructions

Canada requests that offerors provide their offer in separately bound sections as follows:

Section I: Technical Offer (2 hard copies)

Section II: Financial Offer (1 hard copy)

Section III: Certifications (1 hard copy)

Prices must appear in the financial offer only. No prices must be indicated in any other section of the offer.

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

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

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process <a href="Policy-on-Green Procurement">Policy on Green Procurement</a> (http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html). To assist Canada in reaching its objectives, offerors should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.



#### **Section I:** Technical Offer

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

#### Section II: Financial Offer

Offerors must submit their financial offer in accordance with the Annex B, Basis of Payment. The total amount of Applicable Taxes must be shown separately.

## **Payment by Credit Card**

(a) Government of Canada Acquisition Cards (MASTERCARD credit cards) **must be** accepted for payment of call-ups against the standing offer.

The Offeror **IS OBLIGATED** to accept payment by credit card.

Acceptance of credit cards for payment of call-ups will be considered as an evaluation criterion.

#### **Section III: Certifications**

Offerors must submit the certifications required under Part 5.

## PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

#### 1. Evaluation Procedures

- (a) Offers will be assessed in accordance with the entire requirement of the Request for Standing Offers including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the offers.

## 1.1. Technical Evaluation

## 1.1.1 Mandatory Technical Criteria

All the mandatory technical criteria must be submitted with the offer.

## a) The Offeror must meet the following requirements:

1.1 The Offeror must have been providing translation services for a minimum of 5 years.



- 1.2 The Offeror must accept the MasterCard credit card as a method of payment.
- 1.3 The Offeror must submit a firm price per word for Category A shown in Annex B Basis of Payment.

## b) The <u>proposed personnel</u> must meet the following requirements:

1.4 Each proposed resource must have a minimum of five (5) years of experience in translation over the past seven (7) years (French to English or English to French)

## OR

Each proposed resource must have a minimum of two (2) years of experience in translation over the past five (5) years (French to English or English to French) AND have a Bachelor's degree in translation (French to English or English to French) from a recognized university.

FAILURE TO MEET ANY OF THE MANDATORY REQUIREMENTS SET OUT ABOVE WILL RESULT IN YOUR BID BEING DECLARED NON-COMPLIANT.

#### **1.2** Financial Evaluation

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, FOB destination, Canadian customs duties and excise taxes included.

## 2. Basis of Selection – mandatory technical criteria only

2.1 An offer must comply with the requirements of the Request for Standing Offers and meet all mandatory technical evaluation criteria to be declared responsive. The responsive offer with the lowest evaluated price will be recommended for issuance of a standing offer.



#### **PART 5 - CERTIFICATIONS**

Offerors must provide the required certifications and related documentation to be issued a standing offer. Canada will declare an offer non-responsive if the required certifications and related documentation are not completed and submitted as requested.

Compliance with the certifications offerors provide to Canada is subject to verification by Canada during the offer evaluation period (before issuance of a standing offer) and after issuance of a standing offer. The Standing Offer Authority will have the right to ask for additional information to verify offerors' compliance with the certifications before issuance of a standing offer. The offer will be declared non-responsive if any certification made by the Offeror is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications, to provide the related documentation or to comply with the request of the Standing Offer Authority for additional information will also render the offer non-responsive.

## 1. Mandatory Certifications Required Precedent to Issuance of a Standing Offer

#### 1.1 Code of Conduct and Certifications - Related documentation

By submitting an offer, the Offeror certifies that the Offeror and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications - Offer of Standard Instructions 2006. The related documentation therein required will assist Canada in confirming that the certifications are true.

The 2006 (19/11/2012) Standard Instructions are modified as follow:

Remove entirely **points 4** and **5** of article **01 (2013-03-21) Code of Conduct and Certifications** – **Offer**.

# 1.2 Federal Contractors Program for Employment Equity - Standing Offer Certification

By submitting an offer, the Offeror certifies that the Offeror, and any of the Offeror's members if the Offeror is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list (http://www.labour.gc.ca/eng/standards\_equity/eq/emp/fcp/list/inelig.shtml) available from HRSDC-Labour's website.

Canada will have the right to declare an offer non-responsive, or to set-aside a Standing Offer, if the Offeror, or any member of the Offeror if the Offeror is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of issuing of a Standing Offer or during the period of the Standing Offer.



#### 1.3 Former Public Servant

Contracts awarded to former public servants (FPS) in receipt of a pension or of a lump sum payment must bear the closest public scrutiny, and reflect fairness in the spending of public funds. In order to comply with Treasury Board policies and directives on contracts with FPS, bidders must provide the information required below before contract award.

## 1.3.1 Definitions

For the purposes of this clause,"former public servant" is any former member of a department as defined in the *Financial Administration Act*, R.S., 1985, c. F-11, a former member of the Canadian Armed Forces or a former member of the Royal Canadian Mounted Police. A former public servant may be:

- a. an individual;
- b. an individual who has incorporated;
- c. a partnership made of former public servants; or
- d. a sole proprietorship or entity where the affected individual has a controlling or major interest in the entity.

"lump sum payment period" means the period measured in weeks of salary, for which payment has been made to facilitate the transition to retirement or to other employment as a result of the implementation of various programs to reduce the size of the Public Service. The lump sum payment period does not include the period of severance pay, which is measured in a like manner.

"pension" means a pension or annual allowance paid under the <u>Public Service Superannuation</u> <u>Act</u> (PSSA), R.S., 1985, c.P-36, and any increases paid pursuant to the <u>Supplementary</u> <u>Retirement Benefits Act</u>, R.S., 1985, c.S-24 as it affects the PSSA. It does not include pensions payable pursuant to the <u>Canadian Forces Superannuation Act</u>, R.S., 1985, c.C-17, the <u>Defence Services Pension Continuation Act</u>, 1970, c.D-3, the <u>Royal Canadian Mounted Police Pension Continuation Act</u>, 1970, c.R-10, and the <u>Royal Canadian Mounted Police Superannuation Act</u>, R.S., 1985, c.R-11, the <u>Members of Parliament Retiring Allowances Act</u>, R.S., 1985, c.M-5, and that portion of pension payable to the <u>Canada Pension Plan Act</u>, R.S., 1985, c.C-8.



## 1.3.2 Former Public Servant in Receipt of a Pension

As per the above definitions, is the Bidder a FPS in receipt of a pension?

**Yes**()**No**()

If so, the Bidder must provide the following information, for all FPS in receipt of a pension, as applicable:

- a. name of former public servant;
- b. date of termination of employment or retirement from the Public Service.

By providing this information, Bidders agree that the successful Bidder's status, with respect to being a former public servant in receipt of a pension, will be reported on departmental websites as part of the published proactive disclosure reports in accordance with <u>Contracting Policy Notice: 2012-2</u> and the <u>Guidelines on the Proactive Disclosure of Contracts</u>.

## 1.3.3 Work Force Adjustment Directive

Is the Bidder a FPS who received a lump sum payment pursuant to the terms of the Work Force Adjustment Directive?

**Yes**() **No**()

If so, the Bidder must provide the following information:

- a. name of former public servant;
- b. conditions of the lump sum payment incentive;
- c. date of termination of employment;
- d. amount of lump sum payment;
- e. rate of pay on which lump sum payment is based;
- f. period of lump sum payment including start date, end date and number of weeks;
- g. number and amount (professional fees) of other contracts subject to the restrictions of a work force adjustment program.

For all contracts awarded during the lump sum payment period, the total amount of fees that may be paid to a FPS who received a lump sum payment is \$5,000, including Applicable Taxes.



## 2. Additional Certifications Precedent to Issuance of a Standing Offer

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

## 2.1 Status and Availability of Resources

The Offeror certifies that, should it be issued a standing offer as a result of the Request for Standing Offer, every individual proposed in its offer will be available to perform the Work resulting from a call-up against the Standing Offer as required by Canada's representatives and at the time specified in a call-up or agreed to with Canada's representatives. If for reasons beyond its control, the Offeror is unable to provide the services of an individual named in its offer, the Offeror may propose a substitute with similar qualifications and experience. The Offeror must advise the Standing Offer Authority of the reason for the substitution and provide the name, qualifications and experience of the proposed replacement. For the purposes of this clause, only the following reasons will be considered as beyond the control of the Offeror: death, sickness, maternity and parental leave, retirement, resignation, dismissal for cause or termination of an agreement for default.

If the Offeror has proposed any individual who is not an employee of the Offeror, the Offeror certifies that it has the permission from that individual to propose his/her services in relation to the Work to be performed and to submit his/her résumé to Canada. The Offeror must, upon request from the Standing Offer Authority, provide a written confirmation, signed by the individual, of the permission given to the Offeror and of his/her availability. Failure to comply with the request may result in the offer being declared non-responsive.

## 2.2 Language skill

| The bidder certifies Statement of Work. | that he | has the | language | skill | required | to exe | ecute th | ne work | stated | in the |
|---|---------|---------|----------|-------|----------|--------|----------|---------|--------|--------|
|   |         |         |          |       |          |        |          |         |        |        |
| Signature                               |         |         |          |       | Date     |        |          |         |        |        |

#### Certification

By submitting an offer, the Offeror certifies that the information submitted by the Offeror in response to the above requirements is accurate and complete.



#### PART 6 - STANDING OFFER AND RESULTING CONTRACT CLAUSES

#### A. STANDING OFFER

#### 1. Offer

**1.1** The Offeror offers to fulfill the requirement in accordance with the Statement of Work at Annex "A".

## 2. Security Requirement

There is no security requirement applicable to this Standing Offer.

#### 3. Standard Clauses and Conditions

All clauses and conditions identified in the Standing Offer and resulting contract(s) by number, date and title are set out in the <u>Standard Acquisition Clauses and Conditions Manual</u> (https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) issued by Public Works and Government Services Canada.

#### 3.1 General Conditions

2005 (19-11-2012) General Conditions - Standing Offers - Goods or Services, apply to and form part of the Standing Offer.

The 2005 (19/11/2012) General Conditions - Higher Complexity - Services are modified as follow:

Remove entirely points 4 and 5 of article 11 (2012-11-09) Code of Conduct and Certifications – Offer.

## 4. Term of Standing Offer

## 4.1 Period of the Standing Offer

The period for making call-ups and providing services against the Standing Offer is from \_\_\_\_\_ to \_\_\_\_ inclusive (WILL BE DETERMINED AT THE TIME OF ISSUANCE OF THE STANDING OFFER).



## 4.2 Extension of Standing Offer

If the Standing Offer is authorized for use beyond the initial period, the Offeror offers to extend its offer for an additional\_\_\_\_ period, from \_\_\_\_ to \_\_\_ (WILL BE DETERMINED AT THE TIME OF ISSUANCE OF THE STANDING OFFER) under the same conditions and at the rates or prices specified in the Standing Offer, or at the rates or prices calculated in accordance with the formula specified in the Standing Offer.

The Offeror will be advised of the decision to authorize the use of the Standing Offer for an extended period by the Standing Offer Authority \_\_\_\_\_ days before the expiry date of the Standing Offer. A revision to the Standing Offer will be issued by the Standing Offer Authority.

#### 5. Authorities

## 5.1 Standing Offer Authority

The Standing Offer Authority is:

David Sokolic Procurement manager Canadian Space Agency 6767 Route de l'Aéroport Saint-Hubert, Quebec J3Y 8Y9 Telephone: 450-926-4876

Facsimile: 450-926-4969

E-mail address: david.sokolic@asc-csa.gc.ca

The Standing Offer Authority is responsible for the establishment of the Standing Offer, its administration and its revision, if applicable. Upon the making of a call-up, as Contracting Authority, he is responsible for any contractual issues relating to individual call-ups made against the Standing Offer by any Identified User.

## 5.2 Project Authority

The Project Authority for the Standing Offer is identified in the call-up against the Standing Offer.

The Project Authority is the representative of the department or agency for whom the Work will be carried out pursuant to a call-up against the Standing Offer and is responsible for all the technical content of the Work under the resulting Contract.



## **5.3** Offeror's Representative

| Name :           |
|------------------|
| Геlephone :      |
| E-mail address : |

#### 6. Proactive Disclosure of Contracts with Former Public Servants

By providing information on its status, with respect to being a former public servant in receipt of a <u>Public Service Superannuation Act</u> (PSSA) pension, the Contractor has agreed that this information will be reported on departmental websites as part of the published proactive disclosure reports, in accordance with <u>Contracting Policy Notice</u>: 2012-2 of the Treasury Board Secretariat of Canada.

#### 7. Identified Users

The Identified User authorized to make call-ups against the Standing Offer is: Canadian Space Agency.

## 8. Call-up Instrument

The Work will be authorized or confirmed by the Identified User(s) using form 942, Call-up Against a Standing Offeror an electronic version.

## 9. Limitation of Call-ups

Individual call-ups against the Standing Offer must not exceed \$25,000 (Applicable Taxes included).

#### 10. Financial Limitation – Total

The total cost to Canada resulting from call ups against the Standing Offer must not exceed the sum of \$\_\_\_\_\_ ((WILL BE DETERMINED AT THE TIME OF ISSUANCE OF THE STANDING OFFER), (Applicable Taxes excluded) unless otherwise authorized in writing by the Standing Offer Authority. The Offeror must not perform any work or services or supply any articles in response to call ups which would cause the total cost to Canada to exceed the said sum, unless an increase is so authorized.

The Offeror must notify the Standing Offer Authority as to the adequacy of this sum when 75 percent of this amount has been committed, or \_\_\_\_ months before the expiry date of the Standing Offer, whichever comes first. However, if at any time, the Offeror considers that the said sum may be exceeded, the Offeror must promptly notify the Standing Offer Authority.



## 11. Priority of Documents

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

- a) the call up against the Standing Offer, including any annexes;
- b) the articles of the Standing Offer;
- c) the general conditions 2005 (19-11-2012), General Conditions Standing Offers Goods or Services
- d) the general conditions 2010B (25-04-2013), General Conditions Professional Services (medium complexity);
- e) Annex A, Statement of Work;
- f) Annex B, Basis of Payment;
- g) Annex C, List of acronyms;
- h) Annex D, Performance Evaluation Report Form;
- i) the Offeror's offer dated \_\_\_\_\_.

#### 12. Certifications

## 12.1 Compliance

Compliance with the certifications and related documentation provided by the Offeror is a condition of authorization of the Standing Offer and subject to verification by Canada during the term of the Standing Offer and of any resulting contract that would continue beyond the period of the Standing Offer. In the event that the Offeror does not comply with any certification, provide the related documentation or if it is determined that any certification made by the Offeror in its offer is untrue, whether made knowingly or unknowingly, Canada has the right to terminate any resulting contract for default and set aside the Standing Offer.

## 12.2 Status and Availability of Resources

SACC Manual Clauses M3020C (11-01-2010) Status and Availability of Resources

## 13. Applicable Laws

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in \_\_\_\_\_\_.



## **14.** Performance Evaluation

- **14.1** Contractor shall take note that the performance of the Contractor during and upon completion of the work shall be evaluated by the Government of Canada. Should the Contractor's performance be considered unsatisfactory more than once, the Contractor's bidding privileges on future work may be suspended for a period of 18 months or 36 months.
- **14.2** Contractor Performance Evaluation Report Form is used to record the performance. See Annex D.



#### B. RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from a call-up against the Standing Offer.

#### 1. Statement of Work

The Contractor must perform the Work described in the call-up against the Standing Offer.

#### 2. Standard Clauses and Conditions

#### 2.1 General Conditions

2010B (25-04-2013), General Conditions - Professional Services (Medium Complexity) apply to and form part of the Contract.

The 2010B (25-04-2013) General Conditions – Professional Services (Medium Complexity) are modified as follow:

Remove entirely **points 4 and 5** of article **31** (**2012-11-09**) **Code of Conduct and Certifications** – **Contract.**.

Section 15 Interest on Overdue Accounts, of 2010B (27-06-2013) General Conditions – professional services (medium complexity) will not apply to payments made by credit cards.

#### 3. Term of Contract

#### 3.1 Period of the Contract

The Work must be completed in accordance with the call-up against the Standing Offer.

## 4. Proactive Disclosure of Contracts with Former Public Servants

By providing information on its status, with respect to being a former public servant in receipt of a <u>Public Service Superannuation Act</u> (PSSA) pension, the Contractor has agreed that this information will be reported on departmental websites as part of the published proactive disclosure reports, in accordance with <u>Contracting Policy Notice: 2012-2</u> of the Treasury Board Secretariat of Canada.



## 5. Payment

## 5.1 Basis of Payment

## 5.1.1 Basis of Payment – Limitation of Expenditure

The Contractor will be reimbursed for the costs reasonably and properly incurred in the performance of the Work as determined in accordance with the Basis of Payment in Annex B, to a limitation of expenditure of \$\_\_\_\_\_ ((insert the amount at contract award). Applicable Taxes are extra.

## **5.1.2** Limitation of Expenditure

- 1. Canada's total liability to the Contractor under the Contract must not exceed \$ \_\_\_\_\_. Applicable Taxes are extra.
- 2. No increase in the total liability of Canada or in the price of the Work resulting from any design changes, modifications or interpretations of the Work, will be authorized or paid to the Contractor unless these design changes, modifications or interpretations have been approved, in writing, by the Contracting Authority before their incorporation into the Work. The Contractor must not perform any work or provide any service that would result in Canada's total liability being exceeded before obtaining the written approval of the Contracting Authority. The Contractor must notify the Contracting Authority in writing as to the adequacy of this sum:
  - a. when it is 75 percent committed, or
  - b. four (4) months before the contract expiry date, or
  - c. as soon as the Contractor considers that the contract funds provided are inadequate for the completion of the Work,

whichever comes first.

3. If the notification is for inadequate contract funds, the Contractor must provide to the Contracting Authority a written estimate for the additional funds required. Provision of such information by the Contractor does not increase Canada's liability.

## 5.2 Single Payment

SACC Manual clause H1000C (16-05-2011) Single Payment



## 5.3 Payment by Credit Card

The following credit card will be used for payments: **MASTERCARD**.

## **6.** Invoicing Instructions

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

Each invoice must be supported by:

- a. a copy of time sheets to support the time claimed;
- b. a copy of the release document and any other documents as specified in the Contract;
- c. a copy of the invoices, receipts, vouchers for all direct expenses, and all travel and living expenses;
- d. a copy of the monthly progress report.
- 2. Invoices must be distributed as follows:

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a. The original and one (1) copy must be forwarded to the following address for certification and payment.

Canadian Space Agency 9F018– Finances Department Finances 6767, route de l'Aéroport Saint-Hubert (Quebec) Canada J3Y 8Y9

Or to the following e-mail address: <a href="mailto:facturationASC.CSAinvoicing@asc-csa.gc.ca">facturationASC.CSAinvoicing@asc-csa.gc.ca</a>

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



#### ANNEX "A" - STATEMENT OF WORK

### 1. Background

Established in March 1989, the Canadian Space Agency (CSA) was created through an Act of Parliament, proclaimed in December 1990. The Agency has a status equivalent to that of a department of the Government of Canada and reports to Parliament through the Minister of Industry.

The CSA directs its resources and activities through four key programs:

- Earth Observation
- Space Science and Exploration
- Satellite Communications
- Space Awareness and Learning

The CSA has about 670 employees with approximately 90% of them employed at the John H. Chapman Space Centre, the Agency's headquarters, located in Longueuil, Quebec. The Agency has other staff working in Ottawa at the David Florida Laboratory and the Government Liaison Office, as well as in Houston, Washington, D.C. and Paris.

To meet the evolving needs of Canadian citizens, the Agency partners with government, industry, universities and international organizations. The CSA generates world-class scientific research and industrial development initiatives for the benefit of humanity.

In order to meet its objectives, the CSA must work in both official languages of the Government of Canada (French and English) most of the time. On an annual basis, the Agency spends approximately \$700,000 on the translation of a variety of documents. The different types of documents are described in detail in the *Requirements* section. The business volume specified above will be divided between the Translation Bureau of Public Works and Government Services Canada (PWGSC) and the company that is the winning bidder.

#### 2. Objectives

- To provide a free estimate of the cost of each requested translation in advance.
- To provide translation services from French to English and/or from English to French of documents submitted, as and when required.
- To provide revision and proofreading services for the documents submitted.

#### 3. Requirements

#### 3.1 Fields

Requests for translation, revision and/or proofreading will include the following fields, without being limited thereto:

Administrative
Financial
Space / Technology / Scientific Engineering
Legal
Technical



## Computer Science

## 3.2 Types of documents

Requests for translation, revision and/or proofreading may include the following, without being limited thereto:

3.2.1 high-profile administrative documents, such as:

letters and/or memos to Ministers;

briefing notes;

interdepartmental agreements;

policies;

procedures;

reports concerning human resources, finance, foreign affairs, information technology;

guidelines;

manuals.

3.2.2 contract-related documents, such as:

statements of work;

evaluation criteria;

evaluation grids.

3.2.3 human resources documents, such as:

work descriptions;

statements of merit criteria;

exams.

3.2.4 documents related to science and technology projects containing very complex language, such as:

documents describing space projects;

technical documents on specialized space-related topics;

publications.

3.2.5 official communication documents, such as:

minutes of meetings;

Treasury Board Submissions;

speeches;

texts to be posted on the CSA's Web site;

bloas:

messages to employees.

3.3 Other types of documents:

tables;

slides;

graphs;

drawings/figures;

specifications.

3.4 Length of documents

Documents may vary in length from about 300 words to 50,000 words.



#### 4. Deliverables

- 4.1 The bidder must provide accurate translation and/or revision and/or proofreading services, producing texts that convey the message and tone of the source text, by the agreed-on deadlines:
  - 4.1.1 by carrying out exhaustive research to find the appropriate CSA terminology before contacting the client;
  - 4.1.2 by using federal government vocabulary;
  - 4.1.3 by using the CSA's French-English and English-French glossary; (glossary in PDF)
  - 4.1.4 by immediately contacting the CSA client to obtain clarifications about the content of the source document;
  - 4.1.5 by delivering documents with the same layout and formatting as the source documents submitted by the client.
- 4.2 Software, format requirements and deliverables
  - 4.2.1 All translations must be done using the same software and file format as those used by the CSA, such as Microsoft Word, PowerPoint, Excel and PDF.
  - 4.2.2 The contractor must contact the CSA to determine which version of software must be used.
  - 4.2.3 The contractor must be able to accept work in PDF format and return the finished product in Microsoft Word, PowerPoint or Excel, depending on the preference indicated by the CSA.
  - 4.2.4 If the CSA does not indicate a preference, the translation must be done in the same format as the source document submitted for translation.
- 4.3 The contractor must provide all the hardware and software required to perform the work.
- 4.4 The contractor will perform the assigned work from its own place of work.
- 4.5 Documents will be transferred electronically between the two parties.

#### 5. Service standards

#### 5.1 Deadlines

5.1.1 The CSA will inform the contractor of the deadline for each translation request. If the contractor is unable to meet the deadline set by the CSA, it must advise the CSA without delay.

#### 5.2 Turnaround time

- 5.2.1 Normal turnaround time ranges from 3 to 5 working days depending on the work concerned. If the work can be delivered earlier, this should be done. Depending on the size of the document, it may be reasonable to allow more than 5 working days for the request.
- 5.2.2 The turnaround time for urgent requests may range from 4 hours to 48 hours.
- 5.2.3 A working day means from 8 a.m. to 8 p.m.
- 5.2.4 The turnaround time for requests submitted by the CSA after 4 p.m. will be calculated as of the next working day.

#### 5.3 Quality of deliverables

- 5.3.1 All translation and/or revision and/or proofreading services will be subject to review and approval by the requestor.
- 5.3.2 An acceptable translation with major corrections means that the CSA is required to make a large number or proportion of corrections to the contractor's work because it contains errors. At the discretion of the CSA:

The contractor will be required to reduce the price of the order by 30 to 50% if the CSA makes these corrections

or

the CSA will ask the contractor to take the work back and correct it on a priority basis at no additional charge. The corrected version must be delivered within 24 hours after the correction request is made.



5.3.3 A translation and/or revision and/or proofreading job that is unacceptable means that the CSA has to make an excessive number or proportion of corrections to the contractor's translation because it contains translation errors. The contractor is required to redo all the work on a priority basis at no additional charge. The CSA will not pay for work that is deemed unacceptable. The entire job must be submitted within a maximum of 48 hours after the correction request is made, depending on the required level of effort.

5.3.4 The CSA reserves the right to cancel any subsequent call-up or to set aside the standing offer if it considers the work performed by the contractor unacceptable.



# ANNEX "B" - BASIS OF PAYMENT

# **CATEGORY A: TRANSLATION REQUEST**

| Translation request   | Firm price per word for translation* Standing offer Year 1 From to | Firm price per word for translation* Standing offer Year 2 From to | OPTION 1 Firm price per word for translation* Standing offer Year 3 From to | OPTION 2 Firm price per word for translation* Standing offer Year 4 From to | OPTION 3 Firm price per word for translation* Standing offer Year 5 From to |  |
|---|--|--|---|---|---|--|
|   | (to be determined at the time of                                   | (to be determined at   | (to be determined at  | (to be determined at  | (to be determined at  |  |
|   | issuance of the  | the time of  | the time of   | the time of   | the time of   |  |
|   | standing offer)  | issuance of the standing offer)                                    | issuance of the standing offer)   | issuance of the standing offer)   | issuance of the standing offer)   |  |
| Regular request (3 to 5 working days) Estimated number of words per year (for evaluation purposes): 5,000 words | \$/word  | \$/word  | \$/word   | \$/word   |   |  |
| Urgent request (4 to 48 hours) Estimated number of words per year (for evaluation purposes): 1,000 words        | \$/word  | \$/word  | \$/word   | \$/word   | \$/word   |  |

<sup>\*</sup>The firm price includes delivery charges.



## **OPTION\*\***

## **CATEGORY B: REVISION REQUEST**

|                 |                 | OPTION 1        | OPTION 2        | OPTION 3          |
|-----------------|-----------------|-----------------|-----------------|-------------------|
| Hourly rate*    | Hourly rate *   | Hourly rate *   | Hourly rate *   | Hourly rate *     |
| Standing offer    |
| Year 1 From     | Year 2 From     | Year 3 From     | Year 4 From     | Year 5 From       |
| to              | to              | to              | to              | to                |
| (to             | (to             | (to             | (to             |                   |
| be determined   | be determined   | be determined   | be determined   | (to be determined |
| at the time of    |
| issuance of the   |
| standing offer)   |
|                 |                 |                 |                 |                   |
|                 |                 |                 |                 |                   |
|                 |                 |                 |                 |                   |
| \$/hr           | \$/hr           | \$/hr           | \$/hr           | \$/hr             |

<sup>\*</sup>The firm price includes delivery charges.

# OPTION\*\* CATEGORY C: PROOFREADING REQUEST

|                 |                 | OPTION 1        | OPTION 2        | OPTION 3        |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| Hourly rate*    |
| Standing offer  |
| Year 1 From     | Year 2 From     | Year 3 From     | Year 4 From     | Year 5 From     |
| to              | to              | to              | to              | to              |
| (to             | (to             | (to             | (to             | (to             |
| be determined   |
| at the time of  |
| issuance of the |
| standing offer) |
|                 |                 |                 |                 |                 |
|                 |                 |                 |                 |                 |
| \$/hr           | \$/hr           | \$/hr           | \$/hr           | \$/hr           |

st The firm price includes delivery charges.

<sup>\*\*</sup>Category B – Revision Request – is an option. The Offeror is not obliged to submit a rate for this category. This category will not be included in the financial evaluation.

<sup>\*\*</sup>Category  $\hat{C}$  – Proofreading Request – is an option. The Offeror is not obliged to submit a rate for <u>this</u> category. <u>This category will not be included in the financial evaluation</u>.



# ANNEX "C" – LIST OF ACRONYMS

(See attached document)



## ANNEX « D »

## PERFORMANCE EVALUATION REPORT FORM

#### CONTRACTOR PERFORMANCE EVALUATION REPORT

Upon fulfillment of a contract, this questionnaire must be completed by the responsible project/technical authority for all service (excluding temporary help), construction and engineering consulting contracts with CSA and sent to the responsible contracting officer.

| Name of contractor: |  |    | Contract completion date: |         |                          |   |   |                    |                |       |   |   |
|---------------------|--|----|---------------------------|---------|--------------------------|---|---|--------------------|----------------|-------|---|---|
|                     | Name of project authority/technical authority:   |    |                           | Branch: |                          |   |   |                    |                |       |   |   |
| Co                  | ntract no.:  |    | Proje                     | ect     | name:                    |   |   |                    |                |       |   |   |
| *รเ                 | pplier   |    |                           |         |                          |   |   |                    |                |       |   |   |
|                     | Rating scale:  | 8  | - 7: '                    | Very    | ellent<br>Good<br>tisfac |   |   | - 5: Sa<br>- 3: Pa | atisfac<br>oor | ctory |   |   |
| 1.                  | Did the supplier provide consultants with the education,   | 10 | !                         | 9       | 8                        | 7 | 6 | 5                  | 4              | 3     | 2 | 1 |
|                     | accreditation and experience indicated in the contract?  |    | mment                     | s:      |                          |   |   |                    |                |       |   |   |
| 2.                  | <ol><li>Please rate the overall quality of<br/>the services provided by this<br/>supplier.</li></ol>                               |    |                           | 9       | 8                        | 7 | 6 | 5                  | 4              | 3     | 2 | 1 |
|                     |  |    | mment                     | s:      |                          |   |   |                    |                |       |   |   |
| 3.                  | Please rate the responsiveness of the supplier with regard to  | 10 |                           | 9       | 8                        | 7 | 6 | 5                  | 4              | 3     | 2 | 1 |
|                     | information requests or problems that may have arisen in the course of the contract, and the supplier's ability to meet deadlines. |    | mment                     | s:      |                          |   |   |                    |                |       |   |   |
| 4.                  | Was the work performed in accordance with the requirements   | 10 |                           | 9       | 8                        | 7 | 6 | 5                  | 4              | 3     | 2 | 1 |
|                     | specified in the statement of work?  |    | mment                     | s:      |                          |   |   |                    |                |       |   |   |
| 5.                  | 5. Please rate the quality of communication between the department and the supplier.   |    |                           | 9       | 8                        | 7 | 6 | 5                  | 4              | 3     | 2 | 1 |
|                     |  |    | mment                     | s:      |                          |   |   |                    |                |       |   |   |
| 6.                  | Were all administrative documents received in accordance with the  | 10 | !                         | 9       | 8                        | 7 | 6 | 5                  | 4              | 3     | 2 | 1 |



| requirements of the contract?                             | Comments:            |                        |
|---|----------------------|------------------------|
| Administrative documents can                              |                      |                        |
| include but are not limited to:                           |                      |                        |
| • Invoices  |                      |                        |
| • Progress reports  |                      |                        |
| <ul> <li>Reports on use or business<br/>volume</li> </ul> |                      |                        |
| Meeting agendas and minutes                               |                      |                        |
| - Meeting agenaab and minates                             |                      |                        |
| <ul> <li>Documentation and quality of</li> </ul>          |                      |                        |
| work  | 450                  |                        |
| TOTAL   | /60                  |                        |
| 0   | 1                    | 40 + 52 - 6 + 5 + -    |
| Overall Rating: Excellent: 54                             | and over very Good:  | 42 to 53 Satisfactory: |
| Poor: 18 to 29  | Unsatisfact          | cory: 18 or less       |
|   |                      |                        |
| Signatures  |                      |                        |
|   |                      |                        |
| Project /Technical Authority:                             |                      |                        |
|   |                      |                        |
|   |                      |                        |
| Contracting Officer:                                      |                      |                        |
|   |                      |                        |
|   |                      |                        |
| Poor or Unsatisfactory Evaluat                            | ion                  |                        |
| Tool of onsactsfactory hvardate                           | 21011                |                        |
| Technical Expert:   |                      |                        |
|   |                      |                        |
|   |                      |                        |
| Managara Paragaranan 1                                    |                      |                        |
| Manager, Procurement and contr                            | ract administration: |                        |

#### ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

### <u>us</u> Microsecond

#### ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

A.D. Applicable Document
Analog to Digital (Converter)

AAAI American Association for Artificial Intelligence
AAC Agriculture et Agroalimentaire Canada
AAFC AAG Acquisition Alternatives Group

AAP Architecture des activités de programmes

AAR Azimuth Ambiguity Ratio
AAS American Astronautical Society

AATSR Advanced Along Track Scanning Radiometer

ABR Available Bit Rate

ABS Antenna Bootstrap Software

AC Autorité contractante

ACA Associate Contractor Agreement
ACAN Advanced Contract Award Notice
ACE Atmospheric Chemistry Experiment

ACE Attitude Control Electronics

ACEE Agence canadienne d'évaluation environnementale

ACEIEP Assessment Centre for the Early Identification of Executive Potential

ACEOS Atlantic Canada Earth Observation System

ACFAS Association canadienne-française pour l'avancement des sciences

ACIAdjacent Channel InterferenceACMAdaptive Coding and ModulationACOAAtlantic Canada Opportunities AgencyACOMAssociate Committee on Meteorites

ACORD Advisory Committee on Research and Development CSA/DND

ACP Acquisition Coverage Plan
ACP Attitude Control Processor
ACP Access Control Policy
ACPC Antenna Control PC

ACQ Acquisition

ACRES Australian Centre for Remote Sensing

ACRSO Atlantic Centre for Remote Sensing of the Oceans

ACS Attitude Control Subsystem
ACS Attitude Control System

ACS Acquisition Cataloguing System

ACSE Access and Control Signalling Equipment

ACSE Access Control System Element

ACST Advisory Committee in Science and Technology

ACSYS Arctic Climate System Study

ACTES Advanced Clinical Tissue Engineering Systems
ACTORS Atlantic Canada Thin Organic Semiconductors

ACU Antenna Control Unit

ACVT Atmospheric Chemistry Validation Team

ACWP Actual Cost of Work Performed

AD Applicable Document

ADAMS Advanced Astronaut Medical Support

ADC Analog to Digital Converter ADC Antenna Drive Cabinet

ADCS Attitude Determination and Control System

ADD Architectural Design Document
ADEOS Advanced Earth Observing Satellite

ADM Assistant Deputy Ministers
ADM/Aeolus Atmospheric Dynamics Mission
ADME Application Development Methodology

ADR Architecture Design Review

ADRIQ Association de la recherche industrielle du Québec ADRO Application Development and Research Opportunity

ADSL Asymmetric Digital Subscriber Line
ADW Archival and Data Workstation
AECL Atomic Energy of Canada Limited
AES Atmospheric Environment Service

AF Assured Forwarding

AFA Alternative Funding Arrangements
AFC Administrative and Finance Committee
AFI Automated Fingerprint Identification

AFPC Agence de la fonction publique du Canada (anciennement AGRHFPC)

AFR Array Fed Reflector

AFRL Air Force Research Lab (U. S. Air Force)

AFS Agent financier supérieur
AFSK Audio Frequency Shift Keying

AFSTP Agents financiers supérieurs à temps plein

AG Auditor General Administrateur général

AGAR Advisory Group on Automation and Robotics

AGARD Advisory Group for Aerospace Research and Development

AGC Automatic Gain Control

AlA Académie internationale d'astronautique

AIAA American Institute of Aeronautics & Astronautics
AIAC Aerospace Industrial Association of Canada

AIF Antenna Interface Function

Alpre Accès à l'information et protection des renseignements personnels

AIS Antenna Interface Software
Automatic Identification System

AIS Constellation Automatic Identification System Constellation

AIT Assembly, Integration, and Test
AIT Acceptance, Integration and Test
AIT Agreement on Internal Trade

AlU Antenna Interface Unit

AIV Assembly Integration and Verification

AL Anomalously Large
ALC Automatic Level Control

ALDT Administrative Logistics Delay Time
ALENA Accord de libre-échange nord-américain

ALI Advanced Land Imager

ALOS Advanced Land Observing Satellite

AlphasatAlphasat MissionALSAlenia Spazio S.p.A.ALSAntenna Library SoftwareAMAmplitude Modulation

AMBE Advanced Multi-Band Excitation

AMEC Advanced Materials Engineering Centre

AMERD Astronaut Medical Evaluation Requirements Document

AMM Antarctic Mapping Mission

AMM-1 Antarctic Mapping Mission-1

AMM-2 Antarctic Mapping Mission-2

AMP Accord sur les marchés publics

AMRS Alliance for Marine Remote Sensing

ACQUISITION Master Schedule

AMS Acquisition Master Schedule
AMS Archive Management System

AMSC American Mobile Satellite Corporation
AMSS Aeronautical Mobile Satellite Service
AMTG Advanced Materials and Thermal Group

AN Ascending Node
AngleGen-II Angle Generator-II

Anik F2 High-speed multimedia telecommunications satellite

ANN Artificial Neural Network
ANR Aliased Noise Ratio

ANSI American National Standards Institute

AOC Announcement of Opportunity
AOC Attitude and Orbit Control

AOCSK Attitude and Orbit Control Software Kernal

AOI Area of Interest

AOP Avis d'offres de participation
AORE Atlantic Ocean Region East
AORW Atlantic Ocean Region West
AOS Advanced Orbiting Systems

AOS Acquisition of Signal Acquisition Planner AP Access Point ACCOUNTS Payable APA Avis de projet d'achat

APA Appendix

APB Ariane Programme Board

APCG Advanced Protein Crystal Growth

APD As Previously Discussed

APDN Azimuth Power Dividing Network
APEC Asia-Pacific Economic Cooperation

APÉCA Agence de promotion économique du Canada atlantique

APEX Association professionnelle des cadres supérieurs de la fonction publique du

Canada

APEX-Cambium Advanced Plant Experiments on Orbit APEX-CSA2 Advanced Plant Experiments on Orbit-CSA2

APF Analyseur de plasma froid

API Advanced Publication of Information
API Application Program Interface
API Advanced Programming Interface
APM Attached Pressurized Module

APME Antenna Pointing Mechanism Electronics

APRO Association of Provincial Research Organizations

APRS Automatic Position Reporting System

APRS Automatic Packet Reporting System (GPS technology)

APRSAF Asia-Pacific Regional Space Agency Forum

APS Archive Processing System

APSC Architecture, Projects and Standards Committee
APSFA Association of Public Service Financial Administrators

APSN Azimuth Power Dividing Network

APT Acquisition Planning Tool

APXS Alpha-Particle-X-Ray-Spectrometer

APYR As Per Your Request AQ Assurance de la qualité

AQT Association québécoise de télédétection

AQUATIC ORGS in

Effects of altered gravity on fish studies

μG

AR Assurance du rendement
AR Ambiguity Ratio
AR Acceptance Review
AR Autorité responsable
AR Accounts Receivable

AR Planner Acquisition and Reception Planner

ARB Anomaly Resolution Board
ARC Albers Conical Equal Area
ARC Agence du revenu du Canada
ARES Autonomous Rendezvous Simulator

ARES Autonomous Robotics for the Exploration of Space

ARF Aquatic Research Facility

ARGO Atmosphere Research with GPS Occultation

ARIES Australian Resource Information and Environment Satellite

ARLU Annual Reference Level Update

ARO After Receipt of Order

AROLO Assembly of Regional Official Languages Officers

ARP Archiving and Reception Processing

ARP Address Resolution Protocol

ARPS Acquisition and Reception Planning Subsystem

ARQ Automatic Repeat Request

ARTEMIS Africa Real Time Environmental Monitoring Using Imaging Satellites

ARTEMIS Advanced Relay Technology Mission

ARTES Advanced Research in Telecommunications Systems

ARTS Autonomous Range and Target Simulator
ARTSE Augmented Reality Tools for Space Exploration

AS Autorité scientifique
AS Acquisition Specification
AS Accounting Server
ASAP As soon as possible

ASAR Advanced Synthetic Aperture Radar
ASAS Advanced Ship Autopilot System
ASC Agence spatiale canadienne

ASC AeroSpatiale Cannes

ASCII American Standard Code for Information Interchange

ASCM Accelerator Signal Conditioning Module

ASD Alternative Service Delivery
ASE Airborne Support Equipment
ASE Association of Space Explorers
ASE Agence spatiale européenne

ASF Alaska SAR Facility

ASFC Agence des services frontaliers du Canada

ASI Agenzia Spaziale Italiana
ASI Advanced System Institute
ASI Asynchronous Serial Interface

ASIAC Advanced Satcom Initiative Advisory Committee

ASIC Application Specific Integrated Circuit

ASK Amplitude Shift Keying

ASM American Society for Materials
ASM Agent de sécurité ministériel

ASME American Society of Mechanical Engineers

ASN Advantech Satellite Networks
ASO Australian Space Office

ASQC American Society for Quality Control

ASR Agence spatiale russe

ASR Augmented shared reality system

AST Autonomous Star Tracker

ASTE Advanced System and Telecommunications Equipment

ASTED Association pour l'avancement des sciences et des techniques de la documentation

ASTM American Society for Testing and Materials

ASTP Advanced Systems and Telecommunication Programme

ASTRO Autonomous Space Transfer & Robotic Orbiter

ASTRO-H X-ray Space Observatory (JAXA)

ASTROSAT Multi-wavelength Space Borne Observatory for astronomical research

ATA Auxiliary Truss Assembly
ATA Ammonia Tank Assembly
ATC Ancillary Terrestrial Component

ATC Air Traffic Control
ATD Antenna Tie Down
ATDA Antenna Tie Down Arms
ATE Automated Test Equipment
ATEN Advanced Thermal Environment
ATIP Access to Information and Privacy

ATLAS Atmospheric Laboratory for Applications and Sciences

ATLO Assembly, Test and Launch Operations

ATM Asynchronous Transfer Mode

ATMOS Atmospheric Trace Molecule Spectroscopy

ATP Acceptance Test Plan
ATP Automated Test Procedure
ATP Authorization to Proceed
ATS Absolute Time Sequence
AU Authentication Unit
AU Astronomical Unit

AUCC Association of Universities and Colleges of Canada

AUM Able Upper Management

AURORA Advanced Ultra-Fast Recording for On-board Radar Applications

AUT Article Under Test

AVBDC Absolute Volume Based Dynamic Capacity
AVHRR Advanced Very High Resolution Radiometer
AVNIR Advanced Visible and Near Infrared Radiometer

AVU Artificial Vision Unit
AWG American Wire Gauge

AZ Azimuth

## ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

B de P Base de paiement

BAC Bibliothèque et archives Canada

BAE BAE Systems

BAHC Biospheric Aspects of Hydrological Cycle
BAM Balloon-borne Anisotropy Measurement

BARS

Block Adaptive Quantization
Bistatic Auroral Radar System

BATBatteryBBBread BoardBBBulletin Board

BBE Base Band Equipment
BBIC Base-Band Integrated Circuit

BC Bus Controller

BCAT-5 / BCAT-C1 Study of the effect of phase separation on crystal growth in the ISS microgravity

environment

BCE Battery Control Electronics

BCH Bose-Chaudhuri-Hocquenghem (Coding)

BCM Battery Control Module
BCP Bureau du Conseil privé

BCP Broadcast Pulse

BCP Business Continuity Planning

BCU Bus Control Unit

BCWP Budgeted Cost of Work Performed BCWS Budgeted Cost of Work Scheduled

BD Base de données

BDC Business Development Bank of Canada

BDR Baseline Design Review
BEC Backward Error Correction

Bed Rest In preparation

BEE Best Engineering Estimate

BEGSE Bus Electrical Ground Support Equipment

BEP Bus Emulator and Probe

BEPI Bureau des évaluateurs de projets innovateurs

BER Bit Error Rate
BERT Bit Error Rate Tester

BESTLAB Broadband ESA Satellite Testbed Laboratory

BG Background

BGAN Broadband Global Area Network

BICEPS Bistatic Canadian Experiment on Plasmas in Space

BICMBit Interleaved Coded ModulationBIPBackground Intellectual PropertyBISEBody in Space Environment

bit Binary Digit BIT Built-In Test

BITI Bibliothèque de l'infrastructure des technologies de l'information

BJEU Body Joint Electronics Unit

BLAST Balloon-borne Large-Aperture Sub-millimeter Telescope

BLK Thermal Blanket
BLM Balancing Masses
BLOS Beyond Line Of Sight
BLR Burst Loss Ratio

BLS Boeing Launch Services

BMDB Bus Module Operations Database BMOH Bus Module Operations Handbook

BMSBroadband Mobile ServiceBNCBayonet Nut ConnectorBNSCBritish National Space CentreBOBBusiness Opportunity Brief

BOCL Baseline Optional Configurations List
BOD Business Opportunity Document

BOL Beginning of Life

**BOLAS** Bistatic Observation with Low Altitude Satellites

**BOM** Bill of Material BoP **Basis of Payment** 

**BORIS Basic Operational Robotics Instructional System** 

**BPAR** Bottom PTF Attachment Ring BPI Bureau du portefeuille de l'Industrie

**BPR** Bilateral Program Review

**BP-Reg** In preparation **Bps** Bits per Second

Binary Phase Shift Keying **BPSK** 

**BRAD Business Requirement Allocation Document** 

**BRITE BRight Target Explorer** 

Boursiers de recherche postdoctorales **BRP** Business Requirement Specification **BRS** 

BSE **Bus Simulator Equipment** 

BSM BSQ **Broadcast Satellite for Multimedia** 

**Band Sequential** 

**BSS Broadcast Satellite Service** 

**BSSC** Bit Synchronizer and Signal Conditioning

**BTA Battery Assembly BTC** Bosch Telecom

BTG **British Technology Group** 

BTP **Burst Time Plan** 

**BTS Base Transceiver Station** Block Up Converter **BUC** BUD Big Ugly Dish

**Basic Utilities Services BUSV** 

**BUSV ISBT BUSV Interrupt Service Background Task** 

**BUSV TC BUSV Cyclic Task** 

**BVG** Bureau du vérificateur général du Canada

BW Bandwidth

**BWC Body Water Changes in Microgravity** 

## ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

C&C Command & Control

C&DH Command and Data Handling C&T Command and Telemetry

Center of Gravity C.G

C/I Carrier to Interference Ratio

C/No Carrier power to noise power spectral density ratio

c/w Complete with

C<sub>2</sub>P **Connection Control Protocol** 

Command, Control, Communications, Computers, Intelligence, Surveillance and C4ISR

Reconnaissance CA Contracting Authority

Consulting and Audit Canada CAC CAC **Connection Admission Control** 

**CACRS** Canandian Council on Remote Sensing

**CACS** China Aerospace Corporation **CACS** Canadian Active Control System

**CACSUSS** Canadian Advisory Committee on the Scientific Utilization of the Space Station

CAD Computer Aided Design Canadian Dollars CAD

CADCCrown Assets Distribution CenterCADCCanadian Astronomy Data CentreCADMConfiguration and Data Management

<u>CADM</u> Configuration and Documentation Management

CADU Channel Access Data Unit

CAE Canadian Academy of Engineering
CAFE Comptes à payer en fin d'exercice
CAG Communications Advisory Group

<u>CAGP</u> Cadre d'approbation de gestion de projet

CAL Canadian Astronautics Limited

<u>CAL</u> Caltrac CAL Calibration

<u>CAM</u> Computer Aided Manufacturing

CAMAQ Comités du centre d'adaptation de la main-d'oeuvre aérospatiale au Québec

CAMOS CANadian Magnetic Observatory System

CAN Controller Area Network

<u>CanALSS</u> Canadian Advanced Life Support System

CANMET Canada Centre for Mineral and Energy Technology

CANOPUS Canadian Auroral Network for the OPEN Program Unified Study

CANSAT Canadian Satellite

CANSOC Canada Satellite Operation Centre

<u>CAO</u> Canadian Astronaut Office CAP Career Assignment Program

CAPCA Canadian Advanced Protein Crystallization Apparatus

<u>CAPE</u> Canadian Protein Crystallization Experiment

CAPE Collision Avoidance and Pose Estimation (CAPE)Sensor

CAPNComité architecture projets et normesCAPNComité architecture, projets et normesCAPOCanadian Astronaut Program Office

CAPSULS Canadian Astronaut Program Space Unit Life Simulation

<u>CAR</u> Council for Administrative Renewal CARCH Canadian Sar Data Archives

CARCH Canadian Archive

<u>CARE</u> Critical Applications for Remote Environments

CARISMA Canadian Array for Realtime Investigations of Magnetic Activity

CARN Canadian Analogue Research Network

CARO Centre d'analyse et de recherche opérationnelle

CART CSA Automation and Robotics Testbed

CAS Chinese Academy of Sciences

CASC Chinese Aerospace Science and Technology Corporation

CASCA Canadian Astronomical Society

CASCADE Canadian Advanced Satellite Communication Applications Demonstration

CASI Canadian Aeronautics and Space Institute
CASS Chemical and Aerosol Sounding Satellite

<u>CASSIOPE</u> Cascade Demonstrator, Smallsat Bus and Ionospheric Polar Explorer

<u>CAST</u> Chinese Academy of Science and Technology

CASTOR (STDP) CSA's Accelerated Satcom Technology Research and Development

CATA Canadian Advanced Technology Association

CAW Calibration Analysis Workstation

CB Connector Bracket

<u>CBC</u> Canadian Broadcasting Corporation

CBC Cipher Block Chaining

CBCIC Conference Board of Canada Innovation Council

CBE Current Best Estimate
CBH Catalyst Bed Heater

CBSA Canada Border Services Agency

CBT Computer Based Training
CBU Cabinet Business Unit
CC Cubic Convolution
CC Capacity Credit

CC Capacity Credit
CCAP Wide-use automated cell and tissue culture facility

C-CAP Coastal Change Analysis Program COB Configuration Control Board

CCC Communications Coordination Committee
CCC Canadian Commercial Corporation
CCC Comité de contrôle de la configuration

CCCC Consultative Committee of the Coordination Committee

CCCDPClinical Care Capability Development ProjectCCCMCentre canadien des communications maritimesCCCSConsultative Committee of Chiefs of StaffingCCCSConseil Canadien des Centres de Sciences

CCD Charged Coupled Device

CCDACentre canadien de données astronomiquesCCDSCentre for the Commercial Development of SpaceCCECommission des Communautés européennesCCEPComité Consultatif sur l'Examen des Programmes

CCEPComité consultatif d'examen de projetsCCEUCabinet Committee on Economic Union

CCFC Comité de coordination des fonctions centrales

CCFM Canadian Council of Forest Ministers

CCHREI Canadian Council for Human Resources in the Environment Industry

CCIN Canadian Cryospheric Information Network

CCISS Cardiovascular and Cerebrovascular Control on return from ISS experiment

CCL Close Cable Loop

CCLMCommand and Control Logic ModuleCCMConseil de coordination multilatéralCCMConstant Coding and Modulation

CCMCCanadian Centre for Marine CommunicationsCCMDCanadian Centre for Management DevelopmentCCMIComité consultatif sur les météorites et les impacts

CCMTCGCampagne de Charité en Milieu de Travail du Gouvernement du CanadaCCNMSTConseil consultatif national du Ministre pour les Sciences de la TerreCCNUCCLa Convention Cadre des Nations Unies sur les Changements Climatiques

C-CORE Centre for Cold Ocean Resources Engineering

 CCP
 Connection Control Protocol

 CCPS
 Comité consultatif patronal-syndical

 CCR
 Commissioning Completion Review

 CCRA
 Canada Customs and Revenue Agency

CCRGP Composante du cadre de responsabilisation de gestion liée aux personnes

CCRSCanada Centre for Remote SensingCCRSChambre de commerce de la Rive-Sud

CCRST Comité consultatif sur les relations Soleil-Terre

CCSC Canadian Council of Science Centres

CCSDSConsultative Committee for Space Data SystemsCCSNCommission canadienne de sureté nucléaire

CCT Centre canadien de télédétection

CCUConverter Control UnitCCWCounter ClockwiseCDCompact Disk

CDC Computing Devices Company of Canada

CDC COM DEV Cambridge

<u>CDE</u> Charging Detector Experiment

CDE COM DEV Europe

CDG Centre de développement de la géomatique

<u>CDHS</u> Canadian Data Handling System <u>CDMA</u> Code Division Multiple Access

Cdn Canadian

CDPF Canadian Data Processing Facility

CDR Critical Design Review

CDRF Canadian Data Reception Facility(within the CDHS)

<u>CDRL</u> Contract Deliverable Requirements List

CDRL Contract Data Requirement List

CDROC Canadian Data Reception Operation Centre (within the CDHS)

CD-ROM Compact Disk - Read Only Memory

CDS<br/>CDTColumn Drive Software<br/>Contact Dynamics ToolkitCDT<br/>CDTCustomer Documentation Tree<br/>Component Dose Tolerance

CDTI Centre for the Development of Industrial Technology
CDTI Centre pour le développement de la technologie industrielle

CDTI Comite directeur de la technologie de l'information

CDTV Canadian Digital Television

CDU Column Drive Unit
CDV Check Digit Verification
CE Communauté européenne
CE Conducted Emissions

CE Chief Executive

CEA Comité d'examen des acquisitions

CEAACanadian Environmental Assessment AgencyCEAACanadian Environmental Assessment ActCECCommission of the European CommunitiesCECComité d'examen de la configuration

CEC Central Cone

CEDD Commissaire à l'environnement et au développement durable

CEI Communauté des États indépendants

CEI Contract End Item

CELSSControlled Ecological Life Support SystemCEOArchCanadian Earth Observation ArchiveCEOCatCanadian Earth Observation CatalogueCEOCatCCRS Earth Observation Catalogue

<u>CEOMS</u> Coordinated Earth Observation Marine Surveillance

CEONetCanadian Earth Observation NetworkCEOPCoordinated Enchanced Observing PeriodCEOSCommittee on Earth Observation Satellites

CEOSAM Canadian Earth Observation Satellite Acquisition Management

CEP Cryptographic Endorsement Program

CERTS Centre européen de recherche et de technologie spatiales

<u>CES</u> Contractor Explanation Satisfactory

CESD Commissioner of the Environment and Sustainable Development

CETM Centre d'entreprises technologiques Montérégie inc.

CEU Central Electronics Unit

CEV Command Execution Verification

<u>CF</u> Center Frequency

CFC Chlorinated Fluorocarbons

CFCPCore Function Coordination PanelCFECustomer-Furnished Equipment

<u>CFG</u> Crystal Growth facility

<u>CFIC</u> Canadian Forest Inventory Committee

**CFISU** Canadian Foundation for the ISU Council of Federal Libraries **CFL** 

**CFP** Commission de la fonction publique

**CFQ** Conseil fédéral du Québec CFS **Canadian Forest Services** 

**CFZF** Commercial Float Zone Furnace (changed from Canadian Float Zone Furnace)

Canadian Government

CG CG Comptroller General of Canada <u>CG</u> Contrôleur général du Canada

**CGAP** Cadre de Gestion et d'Approbation des Projets

**CGCP** Canadian Global Change Program **Controlled Goods Directorate** CGD

Canadian Geospatial Data Infrastructure **CGDI** CGG Cadre de gouvernance du gouvernement

CGI Comité de gestion interne

CGI Cadre de la gestion de l'information **CGIR** Cadre de la gestion integrée du risque **CGOD** Canadian Government Order Desk **CGP** Canadian Government Publishing **CGP Controlled Goods Program** 

**CGPS** Comité général sur le programme spatial **CGRP** Controlled Goods Registration Program

Cadre de gestion et de responsabilisation axé sur les résultats **CGRR** 

Canadian Ground System CGS **CGS** Canadian Ground Segment

**CGSM** Canadian Geospace Monitoring project Canadian High Arctic Ionospheric Network CHAIN

**CHAMPS** Configurable Hardware for Multidisciplinary Products in Space

Canadian High Energy Neutron Spectrometry System **CHENSS** 

**CHTM** Club de haute technologie de la Montérégie CIA Congrès Internationale Aeronautique

CIAC ANSER's Center for International Aerospace Cooperation CIAC Canadian International Space Station (ISS) Access Company

**CIAR** Canadian Institute for Advanced Research **CIBS** Canadian International Business Strategy

**Contract Initiation Document** CID

CIDA Canadian International Development Agency

Consortium international de développement en énergie et environnement CIDDE

CIDL Configuration Item Data List

**CIDP** Code d'Identification de Dossier Personnel de l'employé **CIDRH** Comité interministériel des directeurs en ressources humaines

CIHR Canadian Institutes of Health Research

CIL Critical Items List

CIM **Computer Integrated Manufacturing** 

CIM Canadian Institute of Mining CIM Control Interface Module

Corporate Integrated Management CIM

**CIMEX** Convection and Interfacial Mass Exchange experiment **CIMIS CSA Integrated Management Information Systems** 

CIOB Chief Information Officer Branch

CIO-CTR A Counter/Timer Board for IBM or Compatibles

CIP Catalogue Interoperability Protocol CIPO Canadian Intellectual Property Office **CIPS** Canadian Institute for Planetary Sciences

Centre d'intégration des Rovers CIR

Consortium for Industrial Research in the Use of Space **CIRUS** 

<u>CIS</u> Commonwealth of Independent States

CIS Canadian Ice Service

CISM Centre international des sciences mécaniques

CISTI Canada Institute for Scientific and Technical Information Communications and Information Technology Ontario

CITT Canadian International Trade Tribunal

<u>CIUPST</u> Comité scientifique de la physique solaire et terrestre

CIUS Conseil international des unions scientifiques

<u>CLA</u> Coupled Load Analysis <u>CLAD</u> CSA Look Ahead Document

CLCA Comprehensive Land Claims Agreement

<u>CLCW</u> Command Link Control Word convention de longue durée

CLIVAR Climate Variability and Prediction Research Programme

CLMS Continuous Learning Monitoring System

CloudSat Comprehensive three-dimensional study of clouds using a radar

CLTUCommand Link Transfer UnitCLTUCommand Link Transmission UnitCMConfiguration Management

cmCentimeterCMControl ModuleCMCenter of MassCMConnection ManagerCMCommon Mode

CMAS Centre for Minimal Access Surgery

CMB Central Medical Board

<u>CMBFW</u> Control Module Boot Firmware CMC Centre de matériaux composites

CMD Command

CMDU Command and Data Management Unit

CME Coronal Mass Ejection Control Module

CMOS Complementary Metal-Oxide Semiconductor

CMR Cadre de mesure de rendement
CMS Control and Monitoring System
CMT Correction Message Table

CMTF Canadian Mockup and Training Facility

<u>CNES</u> Centre national d'études spatiales (Agence spatiale française)

CNM Conseil national mixte

CNRCConseil national de recherches du CanadaCNSAChina National Space AdministrationCNSCCanadian Nuclear Safety CommissionCNSRCanadian Network for Space Research

COControl by Cost CenterCOACoaxial AttenuatorCOBClose of Business

COCITAE Committee for Aerospace Science and Technology
COCOM Coordinating Committee on International List Reviews

CODD Canadian Order Dispatch Desk

COE Centre of Expertise

CoFRCertification Of Flight ReadinessCoFR ICertification of Flight Readiness ICoFR IICertification of Flight Readiness II

COG Centre of Gravity

COGLA Canadian Oil and Gas Lands Administration

COI Commission océanographique intergouvernementale

COI Centre des opérations et d'ingénierie

COMP Centre of Mass Component

COMSEC Communications Security

CONAE Comision Nacional de Actividades Espaciales (Equivalent of Peruvian Space Agency)

CONUSContinental United StatesCOPConsolidated Operations Plan

<u>COPC</u> Continuation of Operations Planning Committee

COPP Canadian Orbital Payload Platform

COPUOSCommittee on Peaceful Uses of OuterspaceCORACentre for Operational Research and AnalysisCORBACommon Object Request Broker Architecture

<u>CORE</u> Central Operation of Resources for Education (NASA)
CORIM Conseil des relations internationales de Montréal

COS Columbus Orbital Facility

COS Change of Scope

Cosmic Vision Cycle of ESA's long-term planning for space science missions pursued in 2011

COSMO Constellation of Satellite for Mediterranean Observation COSMO Constellation of Satellites for Space Data Systems

COSPAR Committee on Space Research of the International Council of Scientific Unions

COSSA Commercilization of Space Station Assets

COSTIND Commission of Science, Technology and Industry for National Defence

COTECheck Out Terminal EquipmentCOTMCommunications on the MoveCOTPCommunications on the PauseCOTSCommercial Off The Shelf

COU Concept of Use

COUP Consolidated Operations & Utilization Plan

CPChercheur principalCPChargé de projetsCPACold Plasma Analyzer

CPAA Contract Planning and Advance Approval

CPB Columbus Programme Board
CPC Canadian Preparatory Committee
CPC Canadian Post Corporation

CPCO Comité de planification de la continuité des opérations

CPDU Command Pulse Distribution Unit
CPHA Canadian Public Health Association

CPI Communications & Power Industries Canada Inc.

CPI Cost Performance Index

CPIRCross-Polarization Isolation RatiosCPMConference Preparatory MeetingCPMCabinet du Premier MinistreCPMOUContributing Provinces MOUCPPCanada Pension Plan

Onlada i elisioli i lali

<u>CPPMA</u> Canadian Public Personnel Management Association

CPR Cloud Profiling Radar

<u>CPRR</u> Cadre de planification, de rapport et de responsabilisation

CPSA<br/>CPSRCanada Public Service Agency<br/>Cross-Polarization Signal Ratio<br/>Central Processing Unit<br/>CSA Payload Working Group

<u>CR</u> Contract Request CR Commissioning Review

CR Centre de responsabilité - centre du client

CRAContinuous Rate AssignmentCRACanada Revenue Agency

CRAB Consolidated Risk Analysis Board

CRASTE-LF Centre régional africain des sciences et technologies de l'espace en langue

française

CRAYBEXCosmic Ray Balloon ExperimentCRBConfiguration Review BoardCRCCommunications Research Centre

CRC Cyclic Redundancy Check

CRCSS Cooperative Research Center for Satellite System

CRD Collaborative Research & Development
CRDO Centre de recherche pour la défense, Ottawa
CREME Cosmic Ray Effects on Microelectronics

CRESDA China Center for Resources Satellite Data and Applications

CRESS Core Radar Electronics Sub-System

CREST Centre for Research in Earth and Space Technology

CRG Cadre de responsabilisation de gestion

<u>CRGD</u> Cadre de responsabilisation en gestion de la dotation

<u>CRGF</u> Cadre de responsabilisation en matière de gestion financière

<u>CRGFV</u> Cadre de responsabilisation en matière de gestion financière et liste de vérification

CRIAQ Consortium de recherche et d'innovation en aérospatiale au Québec

<u>CRIBS</u>
Core Radar Instrument BOOT Software
CRIM
Centre de recherche informatique de Montréal

CRIMEA Communication Router Interface for Multimaster Environment Access asic

CRIQCentre de recherche industrielle du QuébecCRMACanadian Research Management AssociationCRMCConseil de recherches médicales du Canada

Cross Scale Multi-scale coupling in space plasmas

CRR Compact Range Room

CRSNG Conseil de recherches en sciences naturelles et en génie

<u>Cryosat-2</u> Advanced satellite to study the Earth's ice fields

CryptoCryptographicCRYSYSCryospheric SystemCSConducted SusceptibilityCSACanadian Space Agency

<u>CSA</u> Canadian Standards Association

<u>CSAR</u> Fusées de l'Agence spatiale canadienne (expérimentation en microgravité)

CSAS Centre de soutien aux activités spatiales

CSC Correctional Service of Canada
CSC Computer Software Component
CSC Contriol and Signaling Channel
CSC Common Signaling Channel

CSCI Computer Software Configuration Item

CSCSI Canadian Society for Computational Studies of Intelligence

<u>CSD</u> Cell Shorting Device

CSE Communications Security Establishment

CSEC Communications Security Establishment Canada

<u>CSEW</u> Canadian Space Exploration Workshops
<u>CSIF</u> Canadian Strategic Infrastructure Fund

CSIRO Commonwealth Scientific and Industrial Research Organization

CSIS Canadian Security Intelligence Service

CSM Cross Strap Module

CSM Communication System Monitoring

<u>CSME</u>
Canadian Society for Mechanical Engineering
CSOT
Comité sur les satellites d'observation de la Terre

CSP Canada's Space Program

CSP Canadian Space Program
CSP Change of Scope Proposal

CSPAN Canadian Space Physics Analysis Network

<u>CSPCC</u> Canadian Space Program Consultative Committee

CSPI Canadian Space Power Initiative
CSR Customer Service Representative

CSR/AP Customer Service Representative / Acquisition Planner

CSS Canadian Space Strategy

<u>CSSP</u> Canadian Space Station Program

CST Centre de la sécurité des télécommunications CSTA Council of Science and Technology Advisors

<u>CSTAR</u> Canadian Surgical Technologies & Advanced Robotics <u>CSTC</u> Centre de la sécurité des télécommunications Canada

<u>CSTGF</u> Canadian Science & Technology Growth Fund

CSU Computer Software Unit

<u>CSVS</u> Canadian Space Vision System
CSWA Canadian Satellite Users Association

CT Central Terminal

<u>CT</u> Conseil du trésor du Canada <u>CT&R</u> Command, Telemetry and Ranging

CTA Canadian Target Assembly

<u>CTBTO</u> Comprehensive Test-Ban Treaty Organization

CTE Coefficient of Thermal Expansion
CTI Conseillers en technologie industrielle

CTO Chief Technology Officer

<u>CUC</u> Ccsds Unsegmented Time Code

CUFC Channel Unit Front Card
CUP Consolidated Utilization Plan
CURC Channel Unit Rear Card

CUXC Channel Unit External Controller

<u>CV</u> Cost Variance

CVCM Collected Volatile Condensable Material

CW Clockwise Constant Wave CW Continuous Wave

CWL Calibration Window Length

<u>CXL</u> Coaxial Load <u>CXSW</u> Coaxial Switch

CYAP Canada's Year of Asia-Pacific

CZIMS Coastal Zone Information Management System

## ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

D SPACE D<br/>D/ADirectorate of Space Development<br/>Digital to Analog (Converter)DAB<br/>DACDigital Audio Broadcasting<br/>Digital to Analog Converter

<u>DACCS</u> Diagnostic and Career Counselling Service

DACOL Departmental Advisory Committee on Official Languages

DAF Data Acquisition Facility

DAFControlData Acquisition Facility ControlDAFRDefocused Array-Fed ReflectorDAGDocumentation Advisory Group

DAM Data Archive Module

DAMADemand Assigned Multiple AccessDANDistributed Analysis NetworkDANData Analysis NetworkDANData Acquisition Network

DAP Document d'approbation de projet

DAR Digital Audio Radio

<u>DARA</u> Deutsche Agentur für Raumfahrt-Angelegenheiten

DARS Digital Audio Radio System (Service)

DARSDigital Audio Radio SatelliteDASData Archiving SystemDASDailmer-Chrysler AerospaceDASDirect Archive System

<u>DASS</u> Distress Alerting Satellite System

dB Decibel Database

dB/KDecibel per Degree KelvindBcDecibel relative to CarrierDBFDigital Beam Forming

DBFN Digital Beam Forming Network

Decibel referenced to 1 milli Watt

DBM Database Memory

DBMSDatabase management systemDBSDirect Broadcasting SystemDBSDirect Broadcast ServicedBuVDecibel relative to 1 microvolt

dBV Decibel Volt Decibel Watt

DCDesertification ControlDCDeveloping CountriesDCDirect CurrentDCDiversity ControllerDCCData Control Computer

DCH DC Harness

DCIEM Defence and Civil Institute for Environmental Monitoring

DCL<br/>DCMDeclared Components list<br/>Down-Converter ModuleDCNDocument Change NoticeDCRDesign Certification ReviewDCSDecompression SicknessDDDéveloppement durable

DD ESPACE Direction du Développement de l'Espace

DDD Detailed Design Description
DDI Dossier de définition des interfaces

DDL Direct Down Link
DDL Degré de liberté

DDPDesign Development PlanDDPDemande de PropositionDDRDetailed Design ReviewDDSData Distribution Service

DDSA Defence Development Sharing Agreement
DDSP Defence Development Sharing Program

DEA Double Ended Analog

<u>DEC</u> Développement économique Canada <u>DECnet</u> Digital Equipment Corporation network

DEE Dexterous End Effector

DELSI Demandes en ligne de services informatiques

<u>DEM</u> Digital Elevation Model

<u>Demod</u> Demodulator

DEO Ministère de la Diversification de l'économie de l'Ouest

<u>DERA</u> Defence Research and Evaluation Agency

DES Data Encryption Standard

DES Data Error Sense

DEVCO Cape Breton Development Corporation

DEXTRE Robot bricoleur spatial de l'ISS

<u>DFAIT</u> Department of Foreign Affairs and International Trade

<u>DFAIT</u> Foreign Affairs and International Trade Canada

DFD Data Flow Diagram
DFID Decryption Facility ID
DFL David Florida Laboratory

DFMA Design For Manufacturing and Assembly DFO Departement of Fisheries and Oceans

DG Directeur général Director General

<u>DGPS</u>
Discipline de la gestion de l'information
DGPS
Differential Global Positioning System

DGTA Directeur, Gestion des technologies et des applications

<u>DH</u> Data Handling <u>DHCA</u> DH Central Avionics

DHCC
 DHM
 DHRH
 Payload Data Handling and Transmission Coaxial Cables
 Payload Data Handling and Transmission Miscellaneous
 Payload Data Handling and Transmission RF Harness

DHS Department of Homeland Security

DHSMS Data Handling System failure detection isolate and recovery & Mission Services

<u>DHWG</u> Payload Data Handling and Transmission Waveguides

DIAL Disability Insurances
DIAL Differential absorption laser

DIAND Department of Indian and Northern Affairs

DIASRS Design of an Integrated Automatic Identification System Sensor on a Radar Satellite

DICE Disaster Information Center

DICE Dynamics, Identification and Control Experiments
DICOM Digital Imaging and Communications in Medicine

DID Data Item Description
DID Deliverable Item Description

DID Data Item Delivery

DINERO-DEONET Disaster Network for Earth Remote Observation - Disaster Earth Observation

Network

DIPP Defense Industry Productivity Program

DIR Defence Industrial Research

DIRA Mk\*BAE Gyro Unit (\* indicating a specific model)DIRHDemande d'intervention en ressources humainesDISIDemandes d'interventions en systèmes d'information

DJF Design Justification File
DJO DASA Jena Optronics
DK Decryption Key
DLA Downlink Activity

DLR Deutsches Zentrum für Luft-und Raumfahrt (German Aerospace Centre)

DLSS DownLink SubSystem
DLT Digital Linear Tape
DLW Downlink Window
DM Demodulator Module
DMA Drive Motor Assembly

DMB Digital Multimedia Broadcasting

DMC Deputy Ministerial Committee

DMCS Dextrous Manipulator Control Software

DMGR Delivery Manager

<u>DMIPS</u> Disaster Management Information Products and Services

DMISCO Disaster Management International Space Coordination Organization

DML Declared Materials List

dMPDRdelta Mission Preliminary Design ReviewDMSDefence Management System ManualDMSPDefense Meteorological Satellite Programme

DN Descending Node

DND Department of National Defence

DNR Digitization Noise Ratio
DOAC Demande d'offre à commande
DOC Department Of Communications

<u>Doc Tree</u> Document Tree

DOCSIS Data Over Cable Service Interface Specification

DODDepartment of DefenceDODDepth of DischargeDOFDegree Of FreedomDOFjDegree of Freedom JointDOIdigital object identifierDORDoppler One-way Ranging

DOSTAG Data Operation Scientific and Technical Advisory Group

DOW Dowty

DP Demande de propositions

DP Dye Penetrant Data Piping

DPADiscounted Payback AnalysisDPADestructive Physical AnalysisDPADefence Production ActDPFData Processing FacilityDPHDC and Pyro Harness

DPI Dots per inch

<u>DPIMS</u> Diffusion Processing in Molten Semiconductors

DPL Declared Process List

DPLX Diplexer

DPMS Departmental Personnel Management System

DPP Departmental Plans & Priorities
DPR Departmental Performance Report

DPS Data Path Switch

DPS Data Processing System
DQP Dès que possible
DR Design Review

DRADynamic Rate AdaptationDRADirect Radiating ArrayDRAIDesign Review Action ItemDRAPDeficit Reduction Action Plan

DRB Data Review Board

DRC Direct Reconfiguration Command

DRCM<br/>DRDCDirect Reconfiguration Command ModuleDRDCDefence Research and Development CanadaDREADefense Research and Evaluation AgencyDREODefence Research Establishment OttawaDRETDirection des recherches, études et techniquesDREVDefence Research Establishment Valcartier

DRF Data Reception Facility (SAR)

DRF Document Review Forms

DRIE Department of Regional Industrial Expansion

DRM Digital Rights Management
DRS Data Relay Satellite

DRS Departmental Reporting System DCP retransmission system

DRTE Defence and Research Telecommunications Establishment

DRTM Data Relay and Technology Mission

<u>DRUMS</u> Dynamically Responding Underwater Matrix Sonar

DS Digital Serial

DSAR Dual-Polarised Synthetic Aperture Radar (SAR))

DSB Digital Satellite Broadcasting

Study of the movement of molecules in liquids due to temperature gradients

DSF (thermodiffusion)
Design Safety Factor

DSHA Data Storage and Handling Assembly

DSIR Department of Scientific and Industrial Research

DSL Digital Subscriber Line

DSM Directorate of Space Mechanics

DSNDeep Space NetworkDSNUDark Signal Non UniformityDSODepartmental Security OfficerDSPDigital Signal Processing

DSS DASA

DSSS Direct Sequence Spread Spectrum

D-STAR Digital Smart Technology for Amateur Radio

DSW Dummy Side Wall

DTA DTN Transfer Acknowledgement DTED Digital Terrain Elevation Data

DTH Direct to Home

<u>DTM</u> Directorate of Technology Management

DTMA Director, Technology Management and Applications

DTN Data Transfer Network (within the CDHS)

DTODetailed Test ObjectiveDTSData Transfer ScheduleDTSDanger Test Sequence

DUF Dedicated User Facility (NASA)

DUP Data User Programme
DUT Device Under Test
DV Directeur de vol

DVB Digital Video Broadcasting

<u>DVB-H</u> Digital Video Broadcasting - Handheld

DVB-RCS Digital Video Broadcasting - Return Channel via Satellite

DVB-S Digital Video Broadcast for Satellite

DVB-S2 Digital Video Broadcast - Satellite Version 2

DVBT Digital Video Broadcast Terrestrial

<u>DVC</u> Digital Video Compression

DVCU Design Verification and Compliance for Units

<u>DVM</u> Design Verification Matrix

DVM Digital Voltmeter

DWV Dielectric Withstanding Voltage
DynAMO Dynamic Atmosphere Mars Observer

# ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

E&E Earth and Environment

E911 Enhanced 911

EAC Estimate at Completion

EACLÉnergie atomique du Canada limitéeEAOEnseignement Assisté par OrdinateurEAPEmployee Assistance ProgramEARExport Administration Regulations

EARN Environmental Applications Research Network

Earth Clouds, Aerosols and Radiation Explorer mission

EAST EPDN, APDN, Structure, Thermal

EB Enoncé des besoins

<u>Eb/No</u> Bit Energy per Noise Spectral Density

EBB Elegant Breadboard Model

EBEX E and B Experiment

EBFN Elevation Beam Forming Network (antenna)

EBM Employee Benefit Plan
EBP Expenses for Benefits Plan
EC European Community
EC Environment Canada
ECB Electronic Code Book
ECC Energy Council of Canada
ECC Event Control Code
ECC Export Control List

ECEF Earth Centered Earth Fixed
ECHO Enhanced Check Out
ECI Earth Centered Inertial
ECL Emitter-Coupled Logic
ECL Export Control List

ECNEngineering Chance NoticeECPÉtude de conception préliminaireECPEngineering Change Proposal

ECRP Évaluation de la complexité et des risques des projets

ECSL European Centre for Space Law

ECSS European Cooperation for Space Standardization

ECTI European Union - Canada Trade Initiative

ECU Electronic Control Unit

EDAC Error Detection And Correction
EDC Economic Development Canada
EDC Export Development Corporation
EDEN Echo Data Exchange Network
EDI Early Departure Incentive

EDLS Entry, Descent and Landing System

EDMS Electronic Documents Management System

EDD Extended Duration Orbiter
EDT Eastern Daylight Time

EDTS Environmental Design and Test Specification

EE Employment Equity
EED Electro-Explosive Device

EEE Electronic, Electrical and Electromechanical

EEPROM Electrically Erasable Programmable Read Only Memory

EES Evaluation environnementale stratégique
EESI Earth Environment Space Initiative
EESS Earth Exploration-Satellite Services

EF Expedited Forwarding
Electric Field Instrument

<u>EFVP</u> Évaluation des facteurs relatifs à la vie privée

EGI DIRA MKII Electronics Module
ESI Exploration Ground Infrastructure

EGNOSEuropean global Navigation Overlay SystemEGSEElectrical Ground Support EquipmentEHExtended coverage High incidence beam

EHF Extremely High Frequency

El External Interface
EIDP End Item Data Package
EIF External Interface Board

EIK Extended Interaction Klyston (klystron à interaction élargie)

EIPA Export & Import Permits Act
EIRP Effective Isotropic Radiated Power

EISS Environmental Information for Sustainability and Security.

EK Encryption Key

EKF Extended Kalman Filter

EL Extended coverage Low incidence beam

EL Elevation

ELC 1 Express Logistics Carrier Express Logistics Carrier ELDR Enhanced Low Dose Rate

ELERAD Assessment of radiation damage during long- duration flights

ELF Electrostatic Levitator Furnace

ELIPS European Programme for Life and Physical Sciences and Applications in Space

ELV Expendable Launch Vehicle

EMEngineering ModelEMElectrical ModelEMElectromagnetic ModelEMEmergency ModeEMElectromagnetic

EMAC Equipment Monitor And Control

EMAH Experiment Module Accommodations Handbook

EMC Electromagnetic Compatibility Electromagnetic Interference

EMITS Electronic Mail Invitation to Tender System
EMMA Electromagnetic Monitoring and Analysis
EMO Emergency Measures Organization

EMR Energy Mines and Resources

<u>ÉMR</u> Évaluation ministérielle de la menace et des risques

EMS Electrical Muscle Stimulation
EMS Expenditure Management System
EMS Electro Magnetic Sciences

ENVISAT ESA's most elaborate Earth Observation satellite

EO Earth Observation

Earth Observation Advisory Committee

EOADP Earth Observation Application Development Program

EOB End Of Business

EOCEarth Observation CentreEOCEdge of CoverageEOCVEnd of Charge Voltage

EODS Earth Observation Data Sets Program

EODV End of Discharge Voltage

**EOEP** Earth Observation Envelope Program

<u>EO-GRIP</u> Earth Observation Government Related Initiatives Program
<u>EO-ICWG</u> Earth Observation - International Coordination Working Group

EOL End of Life

EoL Exchange of Letters

EOMB Earth Observation Management Board
EOMF External Order Management Facility
EOPAG Earth Observation Policy Advisory Group
EOPB Earth Observation Programme Board
EOPP Earth Observation Preparatory Programme
EOPP Earth Observation Pilote Project Program
EORC Earth Observation Research Centre

EOS Earth Observation System

EOS PM Earth Observing System Observatory PM or Afternoon Crossing (Ascending)Mission

EOSAT Earth Observation Satellite Company

EOSD Earth Observation for Sustainable Development of Forests

EOSP Earth Observation Support Program

EOSTAG Earth Observation Scientific and Technical Advisory Group

EOTP Expériences sur l'ostéoporose en orbite EOTP Enhanced ORU Temporary Platform

EPA Effective Project Approval Electronic Power Conditioner

EPC X-Band EPC

**EPDN Elevation Power Dividing Network EPFA External Processing Facility Agent EPOC** Ethernet/Power Over Coax ePOP **Enhanced Polar Outflow Probe EPS** European Polar Segment **EPS Electrical Power Subsystem EPS Encapsulated Post Script EQM Engineering Qualification Model** 

ERAEuropean Robotic ArmERBEngineering Review BoardERDEntity Relationship DiagramERIEarly Retirement Incentive

EROS Earth Resources Observation System

ERPEnterprise Resource PlanningERSEarth Remote SensingERSEarth Resources Satellite

ERS-2 ESA's Earth Observation satellite with a similar set of instruments as the ENVISAT

satellite

ERT External Review Team

ERTG Ententes sur les revendications territoriales globales

ES Earth Sensor

Es/NO Energy per Symbol to Noise Density

ESA European Space Agency

ESAC Earth Science Advisory Committee

ESCAP Economic and Social Commission for Asia and the Pacific

ESD Electrostatic Discharge EMS Satellite Networks

ESOC European Space Operations Centre
Processeurs spatiaux de pointe

ESS Extendable Support Structures (Antenna)

<u>ESSA</u> Economists', Sociologists' and Statisticians' Association <u>ESTEC</u> European Space Research and Technology Centre

ESTMP European Space Technology Master Plan
ESTO Earth Science and Technology Organization

<u>ESW</u> EuroSky Way <u>ET</u> Énoncés de travail

"Expert technique" - un expert sur un sujet donné.

**ETP Equivalent Temps Plein** 

**ETSI** European Telecommunications Standards Institute **ETTCS** External Telemetry, Tracking and Command Subsystem

ETU **Equivalent Test Unit** EU **European Union** 

**Euclid** Mission devised to provide insight into the nature of dark energy and dark matter

**EUMETSAT** European Organization for the Exploitation of Meteorological Satellites

**Equipment Under Test** EUT

**EVA** Extravehicular Activity (US NASA) **EVARM** Extra Vehicular Activity Radiation Monitor

**Evaluation and Validation of CHRIS for National Forests** EVC

**EVEOSD** Evaluation and Validation of EO-1 for Sustainable Development of National Forests

**EVIS** Extraction Vehicle for In Situ Resource Utilization

**EVO Extended Visiting Orbiter EVR** Extravehicular Robotics

Corporate Work Planning Information System (eWP) eWP

**EWR** Eastern/Western Range

**ExDOC Exploration Development Operations Centre** 

Robotic mission which will provide Europe with new technologies for the exploration **EXOMARS** 

of Mars

Expedition 20/21 First Canadian mission onboard Soyuz for the ISS

(C1)

Expédition 20/21 Première mission canadienne à bord de Soyouz pour l'ISS

(C1)

Expedition 34/35 Second Canadian mission onboard Sovuz for the ISS

(C2)

Expédition 34/35 Deuxième mission canadienne à bord de Soyouz pour l'ISS (C2)

**ExPOC** Exploration Planning and Operations Centre (NASA) **ExSOC** Exploration Systems Operations Centre (SFU)

## ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

Fine resolution beam

<u>F</u>

**Federal Aviation Authority Financial Administration Act** Free Alongside Flight

Food and Agriculture Organization Frequently Asked Questions **FAQ FAR** Frame Acceptance Report **FAS** Free Alongside Ship

**FastSCAN** Array Systems real time image processor system

FAT **Factory Acceptance Test** 

**FAWG** Flight Assignment Working Group **FBAQ** Flexible Block Adaptive Quantizer Free Capacity Assignment <u>FCA</u>

**FCAPS** Fault, Configuration, Accounting, Performance, and Security

FCC **Federal Communications Commission FCC Functional Criticality Categories** 

**FCE** Facility Core Element

FCI Fondation canadienne pour l'innovation

**FCM** Fonction de contrôleur moderne **FCP Federal Contractors Program** 

FCU Formatting and Combining Unit

FCV Flow Control Valve FD Flight Dynamics FD Flight Director

FDAM Facility for Data Analysis and Modelling

FDB Fee Determination Board

FDIR Failure Detection Isolation and Recovery

FDMFrequency Dependent ModuleFDMAFrequency Division Multiple AccessFDPCFast-Delivery Processing chains

FDRFinal Design ReviewFDSFlight Dynamic SoftwareFDVPropellant Fill and Drain Valve

FDVS FDV/FVV Support Finite Element

FEC Forward Error Correction
FEE Front End Equipment
FEM Finite Element Model

FEM Frequency Error Measurement

FEP Front End Processor
FEP Front End Processing
FET Field Effect Transistor
FFP Firm Fixed Price

FFPM Forces, faiblesses, possibilités et menaces

FG Far Field Range
Foreground (registers)
FGI Federal Government Initiative

FGISM Federated Ground Infrastructure for Satellite Missions

FIGS Fine Guidance Sensor Financial Accounting

FIFEDOM Full Image Frame Enhanced Digital Orthophoto Mapping

FIFO First In First Out

FINE Federal Innovation Networks of Excellence

FIP Foreground Intellectual Property

FIPS Federal Information Processing Standard

FIR Far Infra-Red

FIRI Far Infra-Red Interferometer
FIS Financial Information Strategy

FISCA Forum industriel spatial au Canada atlantique Factory Integration Test or Failures in 109 hours

FL Forward Link

FLAG Flemish Aerospace Group
FLEX Fluid Physics Experiment
FLSS Forward Link Subsystem

FM Flight Model

FM Frequency Modulation Funds Management

FMA Force Moment Accomodation

FMAF Financial Management Accountability Framework

FMAFC Financial Management Accountability Framework and Checklist

FMAR Final Mission Analysis Review

FMARS Flashline Mars Arctic Research Station

FMEA Failure Mode Effects Analysis

FMECA Failure Mode, Effects and Criticality Analysis
FMEHA Failure Mode, Effects and Hazard Analysis

FMFC Fonction de la modernisation de la fonction de contrôleur

FMI Finnish Meteorological Institute

FMI Framework for the Management of Information

FMR Financial Monthly Report
FMS Force Moment Sensor
FMT Fade Mitigation Technique

FOB Free on Board

FORD-Q Federal Office of Regional Development (Quebec)

FOS Full Operations Simulator

FOV Field Of View

FPEF Fluid Physics Experiment Facility
FPGA Field Programmable Gate Array

FPH Fine Pointing Hold

FPNS Feature-based Planetary Navigation System
FPSYIP Federal Public Sector Youth Internship Program

FPTT Federal Partners in Technology Transfer
FQ Fine resolution Quad-polarization beam

FQT Formal Qualification Test
FQT Factory Qualification Test

FRACA Failure Reporting, Analysis and Corrective Action

FRCB Flight Rules Control Board FRED Framed Raw Expanded Data

FIRMPT First Research Institute of MPT (Ministry of Posts and Telecommunications)

FRM Final Review Meeting
FRR Flight Readiness Review

FS Fixed Services

FSH Forward Signaling Handler
FSK Frequency Shift Keying
FSM Frequency Switcher Module
FSR Field Service Representative

FSRFirst Safety ReviewFSSFine Sun SensorFSSFixed Satellite Service

FSSEP Federal Summer Student Employment Program
FSWEP Federal Student Work Experience Program

ft Feet

FTE Full Time Equivalent

FTIR Fourier Transform InfraRed spectrometer

FTP File Transfer Protocol Flexible Transfer Payment

Fonds de solidarité des travailleurs du Québec

FTRM Final Technical Review Meeting

FTS Force Torque Sensor
FTS Flight Tables and Software
FTS Fourier Transform Spectrometer

FUP Facility Upgrade Plan

FUSE Far Ultra Violet Spectroscopic Explorer

FUV Far Ultraviolet
FV Fill Valve
FVV Fill Vent Valve
FY Fiscal Year
FYA For Your Action
FYI For Your Information

## ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

g Gram

G&A General & Administrative

G/S Ground Segment Ground Station

G/T Gain to Noise Temperature Ratio

GaAs Gallium Arsenide

GAIM Global Analysis/Interpretation and Modelling

GALA Galileo Overall Architecture

Galileo EU/ESA joint program for designing / developing four satellites to prove Galileo's

GNSS Constellation In-Orbit Validation concept

GATN Gatineau satellite station

GATT General Agreement on Tariffs and Trade

GAW Global Atmosphere Watch

Gb Gigabyte

GBL Government Bill of Lading

GBO Government Business Opportunities

GC Gouvernement du Canada Government of Canada

Geo-Cluster Advanced Technology Communication System

GCCC Government of Canada Capacity Credit
GCI Global Communications Infrastructure
GCO Government of Canada Outcome
GCOS Global Climate Observing System

GCR Galactic Cosmic Rays

GCR Government Contracts Regulations

GCTE Global Change and Terrestrial Ecosystems
GDIR General Design and Interface Document

GDIRD General Design and Interface Requirements Document

GDIS General Design and Interface Specification

GDOP Geometric Dilution of Precision

GDRI Government Departments Related Initiatives

GEC — Marconi Avionics

GEMS Global Environment Monitoring System
GEO Geostationary communications satellite

GEODESIC Geoelectrodynamics and Electro-Optical Detection of Electron and Suprathermal Ion

Currents

GeoTIFF Geographic extensions to the Tagged Image File Format

GES Global Exploration Strategy

GESS GIOVE-A Experimental Sensing Station
GETS Government Electronic Tendering Service

GEU Gyro Electronics Unit

GEWEX Global Energy and Water Cycle Experiment

GFE Government Furnished Equipment
GFF Gradient Freeze Furnace - ESA
GFS Government Furnished Services
GGF Government Governance Framework
GHF Gradient Heating Furnace - NASDA

GHz Gigahertz Gyro Interface

GI Gestion de l'information

GI/TI Gestion de l'information / Technologie de l'information

GIAC Geomatics Industry Association of Canada

GIBR Hyperspectral Image Browser

GIDEP Government Industry Data Exchange Program
GIDS General Design and Interface Specification

**GIF** Gyro Interface Board

**GIFDD** Groupe de travail interministériel fédéral sur le développement durable

GIG Global Information Grid

GIG Gestion de l'information gouvernementale **GIISPY** Global Inter-agency IPY Polar Snapshot Year

**GIM Government Information Management** 

GIN Global Integrity Network

Galileo In-Orbit Validation Element **GIOVE** 

**GIPME** Global Investigations of Pollution in the Marine Environment

Gestion intégrée du risque <u>GIR</u> Geographic Information System GIS

**GISAA** Gestion intégrée des systèmes administratifs de l'ASC

**GISL** Gestion intégrée du Saint-Laurent

**GISTDA** Geo-Informatics and Space Technology Development gency

GLO Government Liaison Office Global Land 1-KM Base Elevation **GLOBE** 

**GLONASS** Russian Global Satellite Navigation System

**GLOSS** Global Sea Level Observing System **GMC** Groupe multilatéral de commercialisation **GMDSS** Global Maritime Distress and Safety System **GMES** Global Monitoring for Environment and Security

Gestion ministérielle intégrée <u>GMI</u> **GMM** Geometrical Mathematical Model GMS Geostationnary Meteorological Satellite Gaussian Minimum Shift Keving **GMSK** 

Greenwich Mean Time GMT

**Ground Moving Target Identification GMTI Ground Moving Target Indicator GMTI** 

Gyro Mechanical Unit **GMU Ground Network** GN **GNP Gross National Product** 

**GNSS** Global Navigation Satellite System

Go Gigaoctet

**GOCE** Gravity field and steady-state Ocean Circulation Explorer

**GOCSS** Government of Canada Space Strategy Global Ocean Data Assimilation Experiment **GODAE GOES** Geostationary Operational Environmental Satellite

GOFC **Global Observation Forest Cover** 

GOL Government on Line

**GOME** Global Ocean Monitoring Experiment **GOOS** Global Ocean Observing System GOS Global Observing System

GPA

**Government Procurement Agreement** 

GPE Grands projets de l'État

GPF Gestionnaire, prestation de la formation General Purpose Interface Board **GPIB** Governance, Planning and Performance **GPP** 

**GPR Ground Penetrating Radar** 

**GPR** Gouvernance, planification et rendement **GPRS** General (or Global) Packet Radio Service

GPS Global Positioning System

**GPSA GPS Antennae GPSR GPS Receiver** 

Groupe de planification du transfert des opérations **GPTO** 

Gendarmerie Royale du Canada GRC Global Resource Information Database **GRID** 

GRIP Government Related Initiatives Program
GRIP Government Related Initiatives Program

GS Ground Segment

Gs and Cs **Grants and Contributions** GS/OPS **Ground Segment/Operations GSA Generic Space Activities GSC** Geological Survey of Canada GSE **Ground Support Equipment GSE** Generic Stream Encapsulation **GSFC** Goddard Space Flight Center GSJ Geological Survey of Japan **GSM** Global System for Mobiles

GSO Geosynchronous

GSP Government Security Policy
GSS Gatineau Satellite Station
GST Goods and Services Tax

GSTP General Support Technology Program
GSV Geosynchronous Servicing Vehicle
GTD Geometrical Theory of Diffraction

GTIPRH Groupe de travail interministériel sur la planification des RH

GTS Government Travel Service
GTS Generic Transcription System
GUI Graphical User Interface

GW Gateway
GYP Gyro Package

# ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

<u>H</u> Horizontal polarization <u>H.A.E.</u> Heure avancée de l'Est

H/W Hardware

HALO Hyperspectral And Luminescence Observer

HARS High Arctic Research Station
HBT Heterojunction Bipolar Transistor

HCM Heater Control Module

HD High Definition

HDDR High-Density Digital Recorder HDDT High-Density Digital Tape

HDDTID High-Density Digital Tape Identification

HDM Heater Drive Module

HDP Hardware Development Plan Hotlink Data Receiver

HDR High Data Rate

HDTV High Definition Television
HEC Header Error Control

HEIHarsh Environments InitiativeHEMISHigh End Medical Imaging SystemHEMTHigh Electron Mobility TransistorHEOSSHigh Earth Orbit Surveillance System

HERO Hyperspectral Environmental and Resource Observer

Herschel-HIFI/Spire Heterodyne Instrument for the Far Infrared and Spectral and Photometric Imaging

Receiver

<u>HFET</u> Heterostructure Field-Effect Transistor <u>HFGM</u> High Frequency Generator Module

HGA High Gain Antenna

HH Horizontal polarization on transmit, Horizontal polarization on receive

HHPCG Hand Held Protein Crystal Growth HIA Herzberg Institute of Astrophysics

HIFIHeterodyne Instrument for the Far InfraredHIRESHigh Resolution EUV SpectroheliometerHITAHyperspectral Imager Technology Assessment

HK House Keeping
HL High Level

HLOP High Level Operation Plan
HLS Hardware in the Loop Simulation
HMCI Hayter Marketing Communications Inc.

HMIHuman Machine InterfaceHMPHaughton-Mars ProjectHOAHeads of Agencies meeting

HOSC Huntsville Operations Support Centre

HP Horizontal Polarization

HP Heat Pipe

HPA High Power Amplifier

HPAC High Performance Attitude Control

HPC High Priority Class TC
HPGT High Pressure Gas Tank
HPMC High Power Microwave Circuit
HPS Human Presence in Space
HPTM High Priority Telemetry
HQP Highly Qualified Personnel

HR Human Resources Hazard Report

HRAR Human Resources Action Request

HRC Human Resources Council

H-Reflex Study of the effects of space travel on the nervous system

HRM Hold-Release Mechanism

HRMRB Human Research Multilateral Review Board

HRRHardware Requirements ReviewHRSHardware Requirements SpecificationHRSDHuman Resources and Skills Development

HRSDC Human Resources and Social Development Canada

HRTIHigh Resolution Terrain InformationHSHamilton-Sundstrand International

HSE High Speed Electronics
HSI Hyperspectral Imager

<u>HSM</u> Hierarchical Storage Management

HSOCVQ Hierarchical Self-Organizing Cluster Vector Quantisation

HSRP Hot Standby Redundancy Protocol

HSTHarmonized Sales TaxHSTHubble Space TelescopeHTMLHypertext Markup LanguageHTRHardware Test Report

HTT Heaters, Thermistors, Thermostats
HTTP Hypertext Transfer Protocol

HTV H-II Transfer Vehicle

HTV-2 Unpiloted Japanese resupply ship

HUT Hand-held User Terminal

HV Horizontal polarization on transmit, Vertical polarization on receive

HVC High Voltage Cable

HW Hardware

HWCI Hardware Configuration Item

HYB Hybrid

<u>HYLAS</u> Highly Adaptable Satellite

<u>HYMEX</u> Hyperspectral Imaging Exploitation

HYPERSOLE Post-space flight determination of changes in skin sensitivity

Hz Hertz

# ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

I Imperial

I&T Integration and Test

I,V&T Integration, Verification and Test

<u>I/F</u> Interface

I/Q In phase/Quadrature

I3Inmarsat 3rd Generation SatelliteI4Inmarsat 4th Generation SatelliteIAAInternational Academy of Astronautics

IACInternet Advisory CommitteeIACInnovation Acceleration CentreIACInternational Aeronautical CongressIACGInter-Agency Committee on Geomatics

IADC Inter-Agency Space Debris Coordination Committee

IADC Integrated Analog to Digital Card
IAF International Astronautical Federation

IAI Inter-American Institute

I-AITR Interim Assembly Integration and Testing Review

IAN Individual Agency Number

IAR Acoustic Research Laboratory Facility, Ottawa Airport

IARPInternational Advanced Robotics ProgrammeIASCInstitut aéronautique et spatial du CanadaIAWImage Analysis Workstation (part of IDCS)IBDInternational Business Development

IBDM International Berthing and Docking Mechanism IBEW International Brotherhood of Electrical Workers

IBM International Business Machines

IBR In-Band Request

IBSSR In-Band Spurious Signal Ratio

ICIndustry CanadaICIntegrated CircuitICInterference Canceller

<u>ICAPS</u> Interactions of Cosmic and Atmospheric Particles ICAR International Conference on Advanced Robotics

<u>ICARS-2</u> International Commercial Applications for RADARSAT-2

ICAS International Center for Aerospace Sciences

ICCInter-Component CommunicationsICCCIndo-Canada Chamber of Commerce

ICD Interface Control Document

ICE-First Study focusing on genetic repair mechanisms using the worm C. elegans

ICG International Committee on GNSS

 ICGC
 Interdepartmental Committee on Global Change

 ICHCM
 Intelligent Control and Health Condition Monitoring

 ICIST
 Institut canadien de l'information scientifique et technique

ICMInstrument Control and MonitoringICMInternal Control and Monitoring

ICMS Informal Conflict Management System ICP International Cooperation Program

ICPMS International Conference on Protection of Materials and Structures

ICRA Institut canadien des recherches avancées

ICRT Institut canadien de recherche en télécommunications

ICRT Internal Cost Review Team

ICS Interdepartmental Committee on Space

ICS Integrated Control System

ICSDInterdepartmental Committee on Space DebrisICSUInternational Council of Scientific UnionsICTInformation and Communications Technologies

ICU Instrument Control Unit

ICWG International Coordination Working Group

ID Identification ID Identifier

ID Interface Control Document

IDCEE Interdepartemental Committee on Employment Equity

IDCS Image Data Calibration System

<u>IDCW</u> Image Data Calibration Workstation (RADARSAT-1)

IDM Industrial Development Management (Space Station Program)

IDNIntegrated Delivery NetworkIDRIncremental Design Review

IDRD Increment Definition Requirement Document

IDU In-Door Unit

 IDWG
 Radarsat II Interdepartmental Working Group

 IEAS
 Institute of Electronics Academia Sinica

 IEEE
 Institute of Electrical and Electronics Engineers

 IEOSC
 International Earth Observation Satellite Committee

IEP Infrastructure Extension Program
IERS International Earth Rotation Service

IF Intermediate Frequency

IFAC International Federation of Automatic Control

IFE Intermediate Frequency Equipment

IFEOS International Forum for Earth Observation of Space IFIC International Frequency Information Circular

IFL Inter-Facility Link

IFL Intermediate Frequency Link

IFMS Integrated Financial and Material System

<u>IFTOMM</u> International Federation for the Theory of Machines and Mechanisms

IFTS Imaging Fourier Transform Spectrometer

IGA Intergovernmental Agreement

IGAC International Global Atmosphere Chemistry Project IGARSS International Geoscience and Remote Sensing Symposia

IGBP International Geosphere-Biosphere Programme

IGOSIntegrated Global Observing StrategyIGOSSIntegrated Global Ocean Services System

<u>IGOT</u> Initiatives gouvernementales en observation de la terre

IGOT Programme d'initiatives gouvernementales en observation de la Terre

IGS International GPS Service

IH Insect Habitat

IHA Institut Herzberg d'astrophysique

IHRPWG Interdepartmental HR Planning Working Group

IIAP International Space Station (ISS) Independent Assessment Panel

IIAS International Institute for Aeronautics and Space Science

IIRO Intelligent Interactive Remote Operations

<u>IIROS</u> Interactive Intelligent Remote Operations Systems

IISLInternational Institute of Space LawIITInstitute for Information TechnologyIJCInternational Joint Committee

IJCAI International Joint Conference on Artificial Intelligence

IL Insertion Loss

ILNInternational Lunar NetworkILOAInterim Letter of AgreementILSIntegrated Logistics SupportIMInformation Management

IMA Imaging Activity

IMAC Innovation Management Association of Canada

IMAGE Imager for Magnetopause-to-Aurora Global Exploration

IMC Internal Management Committee IMD Information Management Discipline

IMEWG International Mars Exploration Working Group

IMEWSImage Exploitation WorkstationIMLInternational Microgravity Laboratory

IMO International Maritime Office

IMOU International Memorandum of Understanding

IMP International Marketing Plan

IMS Institute for Microstructural Sciences (NRC)

IMSCP International Mobile Satellite Communications Program IMSPG International Microgravity Strategic Planning Group

IMSRSPWG International Microgravity Science Research Strategic Planning Working Group

IMT International Mobile Telecommunications

IMU Individual Mounted Unit IMUX Input Multiplexer

INAC Indian and Northern Affairs Canada

Increment 23in preparationIncrement 24in preparationIncrement 25in preparationIncrement 26in preparationIncrement 27in preparation

INPEInstituto Nacional de Pesquisas EspaciaisINRSInstitut national de la recherche scientifiqueINSARInterferometric Synthetic Aperture Radar

INSAT Indian National Satellite

Intergovernmental Oceanographic Commission

Initial Operational Capability

<u>IOCCG</u> International Ocean Colour Coordinating Group

I-OPR Interim Operations Planning Review

IOR<br/>IOTIndian Ocean RegionIOTIn Orbit TestIPInternet ProtocolIPIntercept PerformanceIPIntellectual PropertyIPAIsopropyl AlcoholIPBOInput Power Back Off

IPCInternational Programs CommitteeIPCIndustrial Policy Committee (ESA)IPCInter Process CommunicationsIPDIntegrated Product Development

<u>IPDS</u> Integrated PAMF Documentation System

IPEInternet Protocol EncapsulatorIPOIndustry Portfolio OfficeIPOIntellectual Property Office

IPO Initial Public Offering

IPOMS International Polar Orbiting Meteorological Satellites

IPoS Internet Protocol over Satellite

IPP Inter Pulse Period

<u>IPR</u> Intellectual Property Rights <u>IPS</u> Integrated Planning System

IPSEC IP (Internet Protocol) Security Protocol

Internet Protocol Security **IPSec** <u>IPT</u> Integrated Product Team **IPTV** Internet Protocol Television **IPX** Internetwork Packet Exchange **IPY** International Polar Year **IQCIR** I-Q Channel Imbalance **IQCS** Image Quality Control System IQS Image Quality Subsystem **IQW** Image Quality Workstation

<u>IR</u> Infra-Red

IRAPIndustrial Research Assistance ProgramIRBINDUSTRIAL REGIONAL BENEFITS

IRBIndustrial Regional BenefitsIRCInternational Relations CommitteeIRIGInterrange Instrumentation GroupIRIG-AIRIG Time code format (10 kHz carrier)IRIG-BIRIG Time code format (1 kHz carrier)

IRIMS Integrated Record Information Management System

IRIS Institute for Robotics and Intelligent Systems

IRIX UNIX operating system from SGI IRM Integrated Risk Management

IRMF Integrated Risk Management Framework IRSA Institute for Remote Sensing Applications

IRTF Spectromètre infrarouge à transformée de Fourier

IRWImpulse Response WidthISInspection structuréeISInformation ServicesISAIsraeli Space Agency

ISAIRAS International Symposium on Artificial Intelligence, Robotics and Automation in

Space

ISARInformation Systems Actions RequestsISASInstitute of Space and Astronautical ScienceISBAInternational Space Business AssemblyISCInternational Steering Committee

 ISCCP
 International Satellite Cloud Climatology Project

 ISDB
 Integrated Services Digital Broadcasting

 ISE
 International Submarine Engineering

ISF Image Segment File
ISI Integral Satcom Initiative

ISIS International Satellites for Ionospheric Studies

ISITAC Information Systems / Information Technology Advisory Committee

<u>I-SITE</u> Intelligent Screening of Imagery for Teleophtalmology

ISL Inter-Satellite Link

ISLR Integrated Side Lobe Ratio

<u>ISLSCP</u> International Satellite Land Surface Climatology Project

ISLSSPWG International Space Life Science Strategic Planning Working Group

ISO International Standards Organization

ISOL Output Isolator

ISP Internet Service Provider

<u>ISPRS</u> International Society for Photogrammetry and Remote Sensing

ISR International Symposium on Robotics ISRO Indian Space Research Organization

ISRUIn-Situ Resource UtilizationISSInternational Space StationISSImage Segment SpecificationISSAInternational Space Station AlphaISSIInternational Standard Subrack Interface

IST Integrated System Test

<u>ISTAHC</u> International Society for Technology Assessment in Health Care

ISTCIndustry Sciences and Technology CanadaISTOPIntegrated Satellite Tracking of PollutersISTSInstitut de science terrestre et spatialeISTSInstitute for Space & Terrestrial Science

ISU International Space University

ISWEAT Ionospheric Space Weather Effects in the Auroral Thermosphere

ISWG Industrial Strategies Working Group

ISYInternational Space YearITIntegration TeamITInformation Technology

ITA Industrial Technology Advisors

ITAR International Traffic in Arms Regulations

ITIL IT Information Library
ITN Image Transfer Network

ITO Indium Tin Oxide

ITORInformation Technology On-line RequestITOSIntegrated Test and Operations SystemITSInformation Technology Security

ITSC Information Technology Steering Committee

ITT Invitation To Tender

ITU International Telecommunication Union

ITU-R International Telecommunication Union Radio Sector

<u>IUC</u> Informatics User Committee <u>IUG</u> Interface utilisateur graphique

IV Initialization Vector

IV&C Integration Verification and Commissioning IV&V Independent Verification and Validation

IVA Inter-vehicular Activity

IVIDIL Influence of vibrations on phenomenons of diffusion in liquids

IVTIntegration Verification and TestIVTIntegration Verification and Test Plan

IWG Investigators Working Group
IXO International X-Ray Observatory

#### ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

JAMSTEC Japan Marine Science and Technology Centre

JAN Joint Army Navy

JC2Sat CSA/JAXA project for the development of two nanosatellites

JCBJoint Communications BoardJCNSTJoint CSA / NASA Simulator TeamJCSAJoint Committee on Space Astronomy

JCSP Japan - Canada Space Panel
JDD Joint Demodulation and Decoding

JDEM Joint Dark Energy Mission
JEM Japanese Experiment Module

JEOMB Joint Earth Observation Management Board

JERS-1Japan Earth Resources Satellite-1JETROJapan External Trade OrganizationJGOFSJoint Global Ocean Flux StudyJMAJapanese Meteorological AgencyJPEGJoint Photographic Experts GroupJPIPJoint Project Implementation Plan

JPL Jet Propulsion Laboratory
JPO Joint Program Office

JPRCB Joint Program Requirements Control Board

JSC Johnson Space Centre

JSD Joint Synchronisation - Decoding

JSTC Joint Scientific and Technical Committee

JSTF Japan Science Tech Fund JTAG Joint Test Action Group

JTF Joint Task Force

JWST James Webb Space Telescope

## ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

KAI Kyocera America Incorporated
KARI Korean Aerospace Research Institute

KAT Known Answer Test
KBC Keyboard Command
KBps KiloBytes per second

KC-135 Avion servant à des essais en pesanteur réduite

KEKinetic EnergykgKilogramkHzKilohertzkmKilometer

KMPKey Management PlanKOMKick-Off MeetingKRLKey Requirement ListKSCKennedy Space CenterKVMKeyboard - Video - Mouse

<u>KW</u> Kilowatt

# ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

Lambda Left Hand Circular polarization
Lambda Logistics and Maintenance

L&SE Logistics and Sustaining Engineering

L/V Launch Vehicle

LAAS Local Area Augmentation System

LAB Laben

LACLogical Authentication ChannelLACLogical Authentication CounterLACLibrary and Archives CanadaLADLaser d'absorption différentielle

LAN Local Area Network

LANDSAT Land Satellite

LAPS Lidar Assisted Planetary Landing System
LAPSS Large Area Pulses Solar Simulator

LARC Langley Research Center
LARS Laser Range Scanner

LAS Logiciels & applications scientifiques

LAT Lot Acceptance Test

<u>LATEOR</u> Laser Texturing Experiment On Rocket

LBB Leak Before Burst

LBGI Lamarre et Bilodeau géomatique et informatique Inc.

LBR Low Bit Rate

LOC Lower Butt. Strap. Cone
Lambert Conformal Conic

LCEE Loi canadienne sur l'évaluation environnementale

LCS SVS Laser Camera System
LDB Long Duration Balloon

LDEFLong Duration Exposure FacilityLDFLaboratoire David FloridaLDPCLow Density Parity Check

<u>LDR</u> Low Data Rate

LEAP Local Environmental Applications Program
LEDA Lunar European Demonstration Approach

<u>LEE</u> Latching End Effector

<u>LEFP</u> Loi sur l'emploi dans la fonction publique

LEGS Liquid Encapsulated Growth and Solidification Project

<u>LEMUR</u> Lunar Exploration Manned Utility Rover

LEO Low Earth Orbit

LEOP Launch and Early Operation Phase
LEOP Launch and Early Orbit Phase
LEOSAR Low-Earth Orbit Search-and-Rescue

LEP Lettre d'entente provisoire
LES Land Earth Station
LET Linear Energy Transfer

LFGM Low Frequency Generator Module

<u>LFN</u> Long Fat Network

LGFP Loi sur la gestion des finances publiques

LHC Left-Hand Circular

LHCPLeft Hand Circular PolarizationLIALeave with Income AveragingLIDARLight Detection and Ranging

LIMS Leave Information Management System

<u>LIS</u> Logistic Informations System
Logistique et ingénierie de soutien

<u>LiteArm</u> Lightweight, Scalable Manipulator Family for Exploration

LL Left Looking Limit Loads

LLFA Left Looking Fixed Antenna

LLI Long Lead Item
LLR Log Likelihood Ratio

LMCCLabour-Management Consultation CommitteeLMCSLocal Multipoint Communications ServiceLMDSLocal Multipoint Distribution ServiceLMDSLast-Mile Distribution Systems

LMFP Loi sur la modernisation de la fonction publique

LMIM Large Motion Isolation Mount

LMR Land Mobile Radio
LNA Low Noise Amplifier

LNB Low Noise Block
LO Local Oscillator
LO Langues officielles
LOE Level of Effort

LOGO Limit of Government Obligation

LOILetter of IntentLoLLimitation of LiabilityLOMLocal Oscillator ModuleLOPLEOP Operations Plan

Lunar Origins and Resource Explorer

LOS Loss Of Signal Line Of Sight

LPDCLow Density Parity CheckLPELow Power ElectronicsLPEELiquid Phase ElectroexpitaxyLPFLaunch Processing Facilities

LPFDAR Loi sur la protection des fonctionnaires divulgateurs d'actes répréhensibles

LPFP Loi sur la pension de la fonction publique

LPR Lifting Point Reinforcement
LPR Launch Planning Review

LPRP Loi sur la protection des renseignements personnels

<u>LPT</u> Low Power Transmitter

LRIT Long Range Identification & Tracking

LRM Latching Relay Memory
Launch Readiness Review

LRT Low-data rate
LS Life Sciences
LS Load Shedding
LSB Last Significant Bit
LSB Least Significant Bit
LSC Laser Scanner Controller
LSC Lunar Surface Communications

LS-D2 Deuxième mission LS administrée par l'Allemagne

LSPC Long Term Space Policy Committee
LSPT Launch Site Performance Test
Locally Shared Support Services

<u>LT</u> Propellant Tank LTA Long Term Agreement

LTCC Low Temperature Co-fired Ceramic

LTCP Long-Term Capital Plan

LTDI Long Term Disability Insurances
LTDN Local Time at Descending Node
LTM Load Transformation Matrix
LTSP II Long Term Space Plan II
LTSP III Long-Term Space Plan III

LTWTA Linearized Traveling Wave Tube Amplifier LUNA - RESOURCE Two concepts for a future mission to the Moon

LUNAR ROVER Rover concept (fitting into the published NASA Lunar Exploration Architecture)

LUT Local User Terminal
LV Latching Valve
LV Launch Vehicle

LVA Launch Vehicle Adapter Launch Vehicle Assembly

LVERS Liste de vérification des exigences relatives à la securité

## ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

<u>m</u> Meter

M&CMonitoring and ControlM&CMonitor and ControlM&PMaterials & Processesm/sMeters per second

M3MSat Maritime Monitoring and Messaging Microsatellite

mA Milliamps

MAMaster AgreementMACModel Assurance CriteriaMACMedium Access ControlMACAMonth After Contract Award

MAECI Ministère des Affaires étrangères et du Commerce international

MAECI Affaires étrangères et Commerce international Canada

Measurements Of Aerosol Extinction In The Stratosphere And Troposphere

MAESTRO Retrieved By Occultation

MAF Management Accountability Framework

MAGMBI Milieu des approvisionnements, de la gestion du matériel et des biens immobiliers

MAI Ministère des affaires internationales du Québec

MAMM Modified Antarctic Mapping Mission

MANTRA Middle Atmosphere Nitrogen TRend Assessment

MAP Multiplexed Access Point

MAPR Management Agreement Performance Reports

MARMiddeck Accommodation RackMarangoniOscillatory Marangoni convectionMARCOModular Architecture for Robot Control

MARIA Magnetometer Riometer Array
MaRR Manufacturing Readiness Review

MARS Microgravity Advanced Research and Support Centre

MARSMars Arctic Research StationMARSMcGill Arctic Research StationMASCMulti-Acquisition SAR Coverage ToolMASTMarine Science and Technology

Matroshka-R Study on radiation during extended periods in space

MAU Million Accounting Units
MAU Mode Adaptation Unit

MB Main Bus Megabyte

MBAMultiple Beam AntennaMbpsMegabits per secondMBSMobile Base SystemMBSMultiple Body SystemMCMemoranda to CabinetMCMaster Contract

MC Modern Comptrollership Mandatory Criterion

MCA Mission de cartographie de l'Antarctique
MCAP Mission for Climate and Atmospheric Pollution

MCB Multilateral Coordination Board

MCCMission Control CenterMCDMulti-Carrier DemodulatorMCDRMission Critical Design Review

MCF Mission Control Facility

MCF Modern Comptrollership Function

MCG Multilateral Commercialization Group Programs

MCMD Macrocommand

MCOP Marine Communications Outreach Program

MCOP Multilateral Crew Operations Panel

MCPMajor Crown ProjectsMCPCMultiple Channel Per CarrierMCRMission Confirmation ReviewMCRMission Constellation RADARSAT

MCS Mission Control System MCUS MBS Control Unit Software

MDA MacDonald Dettwiler and Associates

MDF Memory Dump Format

MDFE Mission Dependent Filter Equipment

MDLPayload Data ModulatorMDLAPayload Data Modulator "A"MDLBPayload Data Modulator "B"MDPMaximum Design PressureMDRMission Design ReviewMDRMacDonald Dettwiler Robotics

MDR Medium Data Rate
MDS Monitoring Data Set

MDSF Manipulator Development and Simulation Facility

MDT Mean Down Time

ME&A Mission Engineering & Applications

MECO Main Engine Cut-Off

MECU Million European Currency Units

MÉDA Méthodologie de développement des applications

MEIT Multi-Element Integrated Test

MELEO Materials Exposure in Low Earth Orbit MELEO Materials Exposure in Low Earth Orbit

MELISSA Micro-Ecological Life Support System Alternative

MEMS LIDAR Micro-Electro-Mechanical Systems and Light Detection and Ranging

MEO Medium Earth Orbit

MEOLUT Medium Earth Orbit Local User Terminals
MEOP Maximum Expected Operating Pressure

MEOS Micro-Electro-Mechanical Systems and Light Detection And Ranging

MEOSAR Middle Earth Orbit Search-and-Rescue
MEP Microgravity Education Project Plan

MEPHISTO Matériaux pour l'étude de phénomènes de solidification sur Terre et en orbite

MERIS Medium Resolution Imaging Spectrometer

MERX Mercantile Exchange System

MERX Marque de commerce du service électronique des soumissions du gouvernement

MERX Trademark of the Government Electronic Tendering Service

MES Mobile Earth Station

METEOHYTEC Meteorological and Hydrological Technology

METOP Meteorological Operational Satellite

MF Multi-Fine resolution beam

MF/TDMA Multi-Frequency Time Division Multiple Access

MFC Multi-function Chip
MFN Master Function Number
MFSK Multiple Frequency Shift Keying
MFTD MDA File Transfer Daemon

Mars Fourier Transform Spectrometer Interferometer Subsystem

MGIH Management of Government Information Holdings

MGM Magnetometer

MGPB Microgravity Programme Board

MGSE Mechanical Ground Support Equipment

MGTMagnetotorquerMGUMotor Gear UnitMGUDMotor Gear Unit DriverMHPMultimedia Home PlatformMHSMessage Handling System

MHz Megahertz

MI Modèle d'intégration

MIAC Meteorites and Impacts Advisory Committee

MIBManagement Information BaseMICMicrowave Integrated CircuitMICASTMicrostructure Formation in CastingMIDGMulti-source Image DEM Generator

MIF MSS Integration Forum

MIFC Manufacturing and Inspection Flow Chart

MIL Military

MILSATCOM Military Satellite Communications

MIL-STD Military Standard

MIM Multi-Increment Manifest
MIM Microgravity Isolation Mount

MIM/ATEN Microgravity Isolation Mount / Advanced Thermal Environment

MIMBU Microgravity vibration Isolation Mount Base Unit

MIMO Multiple-In Multiple-Out

MIN Minute

MINO Minister's Office

MIP Mobile Servicing System (MSS) Integration Panel

MIP Mandatory Inspection Point

MIPAS Michelson Interferometer for Passive Atmospheric Sounding

MIR Mission Integration Review

MIR Mid-InfraRed reflectance spectroscopy

MIR/FIR Mid-InfraRed /Far-InfraRed MIRI Mid-Infrared Instrument

MIRROR Microgravity Industry-Related Research for Oil Recovery

MIT Massachusetts Institute of Technology

MJANR Mise à jour annuelle des niveaux de référence

MJPO M3MSat Joint Program Office

MLIMulti-Layer InsulationMLMManned Lunar MissionMLPCBMultilayer Printed Circuit BoardMLSMicrowave Landing System

mm Millimeter Purchasing

MMD Mobile Servicing System (MSS) Maintenance Depot

MMDS Multichannel Multipoint Distribution Service

MMI Man Machine Interface

MMIC Monolithic Microwave Integrated Circuits

MMIOCB Multilateral Mission Integration and Operations Control Board

MMNMiddle Manager NetworkMMOMission Management OfficeMMODMicro Meteroids and Orbital DebrisMMOPMultilateral Medical Operations PanelMMPBMultilateral Medical Policy Board

MMS Matra Marconi Space

MMSA Mass Memory Storage Unit-A MMSB Mass Memory Storage Unit-B

MMSE Minimum Mean Square Error MMSU Mass Memory Storage Unit

MMTDP Mobile Mechanical Technology Development Program MNABES Minister's National Advisory Board on Earth Sciences

MOA Memorandum of Agreement

MOAM Master Operations, Administration and Management

MOCMSS Operation ComplexMOCMission Operations CentersMODCODModulation and CodingMODEMModulator-Demodulator

MODEX Moving Object Detection Experiment

MODIS Moderate Resolution Imaging Spectrometer/Spectroradiometer

MOE Measure of Effectiveness

MOI Moment of Inertia
MOITS Mantis OITS
MoM Method of Moments

MOMENT Magnetic Observations of Mars Enabled by Nanosatellite Technology

MON Monitoring

MOP Mission Operation Plan

MOPITT Measurements of Pollution in the Troposphere

MOPITT-2

One of the instruments being proposed as part of the Mission for Climate and Air

Pollution (MCAP)

MOPS Measure of Performance

MORD Medical Operations Requirements Document

MORSE Monitoring coastlines and coastal processes in the Arctic using OT data

MOS Margin of Safety

MOSHFET Metal-Oxide Semiconductor Heterostructure Field-Effect Transistor

MOSST Ministry of State for Science and Technology MOST Microvariability and Oscillations of Stars

MOSTE Ministry of Science, Technology and Environment (Viet Nam)

MOTS MSS Operation and Training Simulator MoU Memorandum Of Understanding

MOV Means of Verification
Meridian Photometer Array

MPA Multi-port Amplifier

MPCC Multilateral Program Coordinating Committee

MPDS Mobile Packet Data System
MPEG Moving Pictures Experts Group
MPEG Motion Picture Editors Guild

MPICB Multilateral Program Integration Control Board (MPICB)

MPLMMulti-Purpose Logistics ModuleMPLSMulti-Protocol Label SwitchingMPMMicrowave Power Module

MPO Ministère des Pêches et des Océans

MPP Maximum Power Point

MPPT Maximum Power Point Tracker MPR Monthly Progress Report

MPS Mission Planning and Scheduling MRA Mutual Recognition Agreement

MRB Material Review Board Miller Research Corporation

MRCCMedical Research Council of CanadaMRDMission Requirements DocumentMRFMechanical Reference Frame

MRIC Materials Research Installations Committee

MRM Monthly Review Meeting

MRO MSS Robotics Operator

MRR Manufacturing Readiness Review MRR Mission Requirements Review

MRRS Management, Resources and Results Structure Policy

MRS Mission Requirements Specification

MRW Miniature Reaction Wheel

MSMaterials SciencemsMillisecondMSMargin of SafetyMSMars SocietyMSMilestone

MSAC Microgravity Sciences Advisory Committee
MSAD Microgravity Science and Application Division

MSAD Microgravity Science and Applications Division (NASA)

MSAT Mobile Satellite

MSAWG Microgravity Science and Applications Working Group

MSB Most Significant Bit

MSC Meteorological Service of Canada

MSC Master SIT Controller

MSCL Millennium Satellite Centre Limited
MS-DOS MicroSoft Disk Operating System
MSFC Marshall Space Flight Center
MSI Multispectral Scan Imaging
MSK Minimum Shift Keying
MSL Materials Science Laboratory
MSL Mars Science Laboratory

MSMB Multilateral Space Medicine Board

MSO Mars Science Orbiter

MSO&U Mission System Operations and Utilization

MSPMicrogravity Sciences ProgramMSPMulti-Spectral PhotometryMSRMars Sample ReturnMSSMatériel de soutien au solMSSMobile Servicing SystemMSSMulti-Spectral ScannerMSSMobile Satellite Services

MSSDMobile Servicing System DevelopmentMSSPMobile Servicing System (MSS), programMSTPManned Space Transportation Programme

MT Mobile Transponder

MTBF Mean Time Between Failure
MTF Mechanical Tunable Filter

MTGP Monitor Table Generation Program

MTI Moving Target Indication Mobile Technical Office

MTP Management Trainee Program

MTPMaster Test ProcessorMTTRMean Time to RepairMUAMaterial Usage AgreementMUCMillion d'unités de compteMUDMulti-User DetectionMUEMultiple Event Upset

MUSTIP Multi-Lateral Strategic Tactical Integration Program

MUWG Multi-Lateral User Working Group

MV Modèle de vol

MVIS Microgravity Vibration Isolation Subsystem

<u>mW</u> Milliwatt

MWD Measure While Drilling
MYOP Multi Year Operational Plan

### ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

N North

NA Nautical Miles
N/A Not Applicable

NAFTA North American Free Trade Agreement

NASA National Aeronautics and Space Administration
NASDA National Space Development Agency (Japon)

NAT Network Address Translation

NOAA AVHRR Transcription and Archive System

North Atlantic Treaty Organization

NAVSAT Navigation Satellite

NCE Networks of Centres of Excellence

NCRNon-Conformance ReportNCRNational Capital RegionNDANon-Disclosure Agreement

NDE Non-Real-Time (NRT) Simulation Dynamics Engine

Non-Destructive Inspection

NE Noise Equivalent
NEA Non-Explosive Actuator

NEAP Near Earth Asteroid Prospector

NED Non-Explosive Device
NEMO Naval Earth Map Observer

NEOSSat Near Earth Orbit/Object Surveillance Satellite

NEQUISOL Non-equilibrium Solidification, Modeling for Microstructure Engineering of Industrial

Alloys

NERS Nuclear Emergency Response System

NESDIS National Environmental Satellite, Data, and Information Service (US NOAA)

NESS Near Earth Space Surveillance
NESZ Noise-Equivalent Sigma-Zero

NET Study Vision system for Mars Sample Return (MSR)

NEW FRONTIERS NASA focused scientific investigations to explore the solar system with medium-

class spacecrafts

NEXT GEN Ultra-high speed connectivity provided by an experimental payload in geostationary

orbit

NFR Near Field Range Facility
NFS Network File System

NGCNorme générale de classificationNGCSNext Generation Canadian SATCOMNGONon-Governmental OrganizationNGPDNext Generation Payload Demonstrator

NGS Northern Ground Station
NES Next Generation Satellite

NON-Geostationary Satellite Orbit

NINational InstrumentNICNetwork Interface CardNiCdNickel-CadmiumNIFNew Initiatives FundNiH2Nickel-Hydrogen

National Imagery and Mapping Agency

Near-Infrared Mapping Spectrometer (Galileo Mission)

NIRCAM Near Infrared Camera

New Infra Red Sensor Technology

(Aquarius/SAC-D)

NITF National Imagery Transmission Format

NJASC National Joint Adjustment Steering Committee of the Federal Public Service

NJCNational Joint CouncilNKFNavigation Kalman FilterNLCNational Library of CanadaNMSNetwork Management SystemNMSCNew Media Support CentreNMSONational Master Standing Offer

NN Nearest Neighbor

NOAA National Oceanic and Atmospheric Administration

NOCC Network Operations Control Center

NOI National Optics Institute

NORCAT Northern Centre for Advanced Technology

NPB National Parole Board

NPC National People Congress of China
NPCC National Program Coordinating Committee

NPM Normal Pointing Mode
NPO Not-for-Profit Organization

NPOESS National Polar-Orbiting Operational Environmental Satellite System

Notice of Proposed Procurement

NPP Non-Participation Partner

NPR NASA Procedural Requirements
NPRD Non-Electronic Parts Reliability Data

NPSNuclear Power SourcesNPSWNational Public Service WeekNRANASA Research AnnouncementNRBNonconformance Review BoardNRCNational Research Council Canada

NRCan Natural Resources Canada
NRE Non-Recurring Expense
NRE Non-Recurring Engineering
NRL Naval Research Laboratory

NRSAG-DM National Remote Sensing Advisory Group on Disaster Management

National Remote Sensing Centre of China

NRT Near-Real Time

NRTSIM Non-Real-Time Simulation
NRZ Non-Return to Zero
Nonconformance Software

ns Nanosecond NS Network Station

NSBRI National Space Biomedical Research Institute

NSC Norwegian Space Centre
NSCAT NASA Scatterometer

NSCP New Satellite Communication Program

NSERC Natural Sciences and Engineering Research Council of Canada

NSF National Science Foundation
NSI National Satellite Initiative

Non-Standard Material Approval Requests

NSPA National Systems Projection
NSPA Non-Standard Parts Approval

NSPAR Non-Standard Part Application Request NSS National Search and Rescue Secretariat

NSTS National Sector Team for Space

NSTW National Science and Technology Week

NT New Technology, A Microsoft Operating Systems

Note technique

NTIA National Telecommunications and Information Administration

NUVNear Ultra VioletNVRNon Volatile ResidueNWPNorthwest PassageNWSNorth Warning System

### ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

O&E Operations and Engineering OeaM Operations and Maintenance O&UP Operations and Utilization Plan

O/B On-Board

OA&M Operation, Administration, & Management
OACT Office of Advanced Concepts and Technology

OAP Orbit Average Power

OASPL
OBDH
On-Board Data Handling
OBP
On-Board Processing
OBR
On-Board Recorder
OBR
Out-of-Band Request
OBS
On-Board Software

OBSS Orbiter Boom Sensor System
On-Board Stereo Vision

OC Optical Carrier

OCA Ocean and Coastal Areas

OCDE Organisation de Coopération et de Développement Économiques

OCE Office of Chief Engineer

OCEAN Ocean Colour European Archive Network

OCIPEP Office of Critical Infrastructure Protection and Emergency Preparedness

OCLE-DOCLE Oort Cloud Dynamic Occultation Experiment

OCM Orbit Control Mode

OCOE
OCR
OCS
OVERALL Check-Out Equipment
On-orbit Commissioning Review
OCS
Operations Control Software

OCTS Ocean Color and Temperature Sensor

OD Order Desk

ODC Other Direct Charges

ODD Order and Dispatch Desk (for SAR data products)
ODMP Orbit Determination and Maneuver Planning

ODS Order Desk Subsystem

ODU Out-Door Unit

OEC Operations and Engineering Center

OECD Organisation for Economic Cooperation and Development

OEDIPUS-C

Observations of Electric-field Distributions in the Ionospheric Plasma - a Unique

Strategy

OEM Original Equipment Manufacturer

OFB Output Feedback

OFDM Orthogonal Frequency Division Multiplex

OGA Other Government Agencies
OGD Other Government Departments

OGF og Firenze og Milano

OGN Omniglobe Global Network Order Handling System

OHSA Occupational Health & Safety Agency

OISL Optical Inter-Satellite Link
OL Official Languages

OLMSA Office of Life and Microgravity Sciences and Applications

OMC Organisation mondiale du commerce

OMF Order Management Facility

OMM Organisation météorologique mondiale

OMP Operations Management Plan

OMT Operations and Maintenance Technician

OMT Ortho-Mode Transducer
OMUX Output Multiplexer

ONERA Office national d'études et de recherches aérospatiales

ONG Organisation non gouvernementale

ONR Office of Naval Research

OOS Out-Of-Band Out of Scope

OOSA On-Orbit Servicing & Assembly

OPBO Output Power Back-Off

OPF Output Filter

OPIC Office de la propriété intellectuelle du Canada

OPR Operations Planning Review OPR Office of Prime Responsibility

OPS Operations

OQPSK Offset Quadrature Phase Shift Keying

ORACLE Ozone Research by Advanced Cooperative Lidar Experiment

ORAN Optical Regional Advanced Network
ORAN Optical Regional Advanced Network

ORBITALS Outer Radiation Belt Injection, Transport, Acceleration, and Loss Satellite

ORF Orbit Reference Frame

ORIS Organized Research Information System

ORROperations Readiness ReviewORSOpérateur en robotique du SEMORSOperations Requirements Specification

ORU<br/>OSOrbital Replacement Unit<br/>Operating SystemOSAT<br/>OSCOn-Site Acceptance Test<br/>Orbital Sciences Corporation

OSDNR Other Signal Dependent Noise Ratio

OSHA Occupational Safety and Health Administration
OSIRIS Optical Spectrograph and Infra-Red Imaging System

OSMOperational Space MedicineOSSOn-Orbit Spacecraft ServicingOSSOrganisme de service spécial

OSTC The Belgian Federal Office for Scientific, Technical and Cultural Affairs

OT Observation de la Terre

OTA Optical Technology Advancement

OTAN Organisation du Traité de l'Atlantique Nord

OTCM Orbital Replacement Unit (ORU) Tool Change-Out Mechanism

OTCME Orbital Replacement Unit (ORU) Tool Change-Out Mechanism Emulator

OTPORU Temporary PlatformOTPOther Transfer PaymentsOTPOperational Transition Plan

OTPG<br/>OTPGOperations Transition Planning Group<br/>Operations Transfer Planning Group<br/>Objectively Verifiable Indicator<br/>Operations Validation Test

OWS Order Workstation

### ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

P/FPlatformP/LPayloadP/NPart NumberP2PPeer-to-peer

PAPerformance AssurancePAProduct AssurancePAProgram AuthorityPAPrivacy Act

PAAProgram Activity ArchitecturePAAPower Amplifier AssemblyPACProgramme Activity CentrePACPréavis d'adjudication de contrat

PAC Paine Corporation

PAC-CPacific Central Ocean RegionPADProject Approval DocumentsPADPrecise Attitude DeterminationPADProduct Acceptance Document

PAF Payload Attach Fitting
PAG Personnel Advisory Group
PALL Potential Antenna Locations List
PAMA Permanent Assigned Multiple Access

PAME Project Approval and Management Framework
PAPC Planification et approbation préalable des contrats

PAR Performance Assurance Requirements
PAR Product Assurance Requirement

PAR Parts Application Review

PARD Plan d'action de réduction du déficit

PARI Programme d'aide à la recherche industrielle

PASL Plan d'action du Saint-Laurent Prince Albert Satellite Station

PATS Programme d'applications des télécommunications par satellites

PAV/ODMP Performance Analysis and Verification/Orbit Determination Maneuver Planning

PAYE Accounts Payable at Year-End

PB Play Back

PB-EO Program Board - Earth Observation
PBMS Microgravity Science Programme Board

PBN Procurement Business Number

PB-NAV Program Board on Satellite Navigation

PBTMPlayback TelemetryPBXPrivate Branch ExchangePCPersonal Computer

PCA Planification de la continuité des activités

PCB Printed Circuit Board Payload Command Data

PCD Power Conditioning and Distribution
PCG Protein Crystallization Growth

PCGR Principes comptables généralement reconnus

PCI Peripheral Component Interconnect

PCIOG Payload Certification, Integration and Operations Group

PCIS Position and Classification Information System

PCM Pulse Code Modulation
PCM Power Control Module

PCMAF People Component of the Management Accountability Framework

PCO Privy Council Office

PCP Payload Characterization Parameters

PCR Program Clock Reference

PCRA Project Complexity and Risk Assessment

PCSG Programme canadien de surveillance géospatiale

PCSP Polar Continental Shelf Project

PCSS Programme canadien de la station spatiale

PCT Patent Corporation Treaty
PCU Payload Command Unit
PCU Power Control Unit

PCW Polar Communication and Weather Mission

PDProject DefinitionPDPays en développementPDAPersonal Digital Assistant

PDAOT Programme de développement des applications en observation de la Terre

PDD Project Definition Document
PDEM Pyro Drive Electronics Module

PDFPostdoctoral FellowsPDFPortable Document FormatPDGFPower and Data Grapple Fixture

PDHT Payload Data Handling and Transmission
PDIR Preliminary Design and Implementation Review

PDMPower Distribution ModulePDRPreliminary Design ReviewPDSProcessing and Delivery SystemPDSProcessing and Delivery SubsystemPDSProcessing and Distribution SystemPDTProgramme de diffusion des technologies

PDTS Programme de développement des technologies spatiales

PDTU Programmable Data Transfer Unit

PDU Power Distribution Unit
PE Protocole d'entente

PEARL Polar Environment Atmospheric Research Laboratory

PEC Performance Evaluation Criterion

PEI Prince Edward Island

PEMPlastic Encapsulated ModulePEPPerformance Enhancing ProxiesPEPPerformance Enhanced Protocol

PER Packet Error Rate

PER Policy and External Relations

PERT Performance Evaluation and Review Technique

PFD Power Flux Density

PFDP Payload Flight Demonstration Program
PFLC Predictors For Lossless Compression

PFM Proto Flight Model

PFTT Partenaires fédéraux en transfert de technologie

PGIPhotosur Geomat InternationalPHAsPotentially Hazardous AsteroidsPHEPropellant Handlers Equipment

PHEMOS Polar Highly Elliptical / Molniya Orbit Science
PHEMT Pseudomorphic High Electron Mobility Transistor

P-HEMT Power High Electron Mobility Transistor

PHOENIX First mission to explore a polar region of Mars at ground level

PHQ Personnel hautement qualifié

Principal Investigator

Plug In

Propriété intellectuelle
Propriété intellectuelle
Privacy Impact Assessment

PIC Planning Implementation Committee
PIC Programmable Interrupt Controller

PICASSO-CENA ESSP Mission, co-manifested with Cloudsat

PICG Programme des initiatives connexes du gouvernement

PID Packet Identification

PIGB Programme international concernant la géosphère et la biosphère

Personally Identifiable Information

PILTPayment in Lieu of TaxesPIMPassive IntermodulationPINDParticle Impact Noise DetectionPINSPublic Information Subcommittee

PIP Payload Integration Plan Propulsion Piping

PIPOR Program for International Polar Oceans Research
PIPSC Professionnal Institute of the Public Service of Canada
PIRN Preliminary/Proposed Interface Revision Notice

PJBD Permanent Joint Board on Defence

PJSE Programme d'été des jeunes scientifiques

PKCS Public Key Certification Standard

Planck ESA mission instrument to map the entire sky

PLD Programmable Logic Device PLDU Payload Distribution Unit

PLF Payload Fairing PLM Payload Module

PLN Plan

PLR Protection Level Router
PLR Packet Loss Ratio
PLR Packet Level Router

PLRP Pavillion Lake Research Project
PLSE Pulsed Load Simulator Electronics

PLT **Physical Layer Tester** PM **Processor Module** PM **Project Management Progress Meeting** PM PM **Phase Modulation** PM **Inventory Management** Pressurized Mating Adapter 3 PMA 3 Preliminary Mission Analysis Review **PMAR** 

PMB Project Management Board

PMCSProgram Management Control SystemPMDPropellant Management DevicePMDISPerceptual Motor Deficit in SpacePMEPetite et moyenne entreprise

PMF Performance Measurement Framework

PMI Project Management Institute
PMI Payload Module Miscellaneous
PMM Program Management Meeting

Procurement, Material Management and Real Property Community

PMO Project Management Office
PMO Prime Minister's Office
P-Module Processor Module

PMPPerformance Management ProgramPMPPayload Module Later PanelsPMPParts, Materials and ProcessesPMPProject Management ProcessPMPProgram Management Plan

PMPL Preferred Materials and Processes List
PMRC Programme mondial de recherche sur le climat

PMSC Payload Mission Support Centre
PMSC Project Manager Support Committee

PNB Produit national brut

PNUE Programme des Nations Unies pour l'environnement

POProduct OrderPOProject OfficerPOPurchase Order

POC Payload Operation Centre

POCPoint of ContactPOCPower Over CoaxPOCProof of Concept

POCC POD Payload Operations Control Center Precise Orbit Determination

PoE Power-Over-Ethernet

POEM Polar Orbiting Earth Mission

POIC Payload Operations Integration Centre
POIP Payload Operations & Implementation Plan

POL Point of Load

POP Plan opérationnel pluriannuel

POP Polar Outflow Probe (Small microsatellite)

POR Pacific Ocean Region

POST Payload Operations Support Toolkit

Post-EPS Polar meteorological satellites replacing replace MetOp between 2018-2020

P-P Peak to Peak

PP&C Production Planning & Control Preliminary Project Approval

PPAM Program Product Assurance Manager

PPAR Projet sur la protection des astronautes contre les radiations

PPC Personnel Psychology Centre
PPC&S Program Policy, Control, and Support
PPCC Polar Plateform Coordinating Committee

PPIMD Programme de productivité de l'industrie du matériel de défense

PPL Preferred Parts List Parts Per Million

PPMProject Procurement ManagerPPMOUParticipating Provinces MOUPPPPolicies, Procedures and Practices

PPP Public Private Partnership

PPP Politiques, procédures et pratiques

PPP Preliminary Project Plan

PPRA Project Profile and Risk Assessment

pps Pulses Per Second

PPUR Programme de promotion des utilisations de RADARSAT

PR Product Recipient

PRAB Program Review Advisory Board

PRAS Planning, Reporting and Accountability Structure

PRB Program Review Board

PRBSPseudo-Random Binary SequencePRCProcurement Review CommitteePRCProcurement Review CommitteePREFParameter Reference Number

PRET Performance Readiness Evaluation Tool

PRF Pulse Repetition Frequency
PRI Personal Record Identifier
PRI Pulse Repetition Interval

PRIME Phobos Reconnaissance and International Mars Exploration

PRMProgram Review MeetingPRMProgress Review MeetingPRNPseudo-Random Noise

PRNU Photo Response Non Uniformity
PRO Provincial Research Organization
PROBA Project for On board Autonomy
PROBA-2 Project for On board Autonomy

PRODEX Scientific Experiment Development Programme

PROM Programmable Read-Only Memory

PROSPECT Protein Space Enhanced Crystallization Technique

PRP Propulsion (Subsystem)
PRPL Propulsion Platform

PRRPreliminary Requirements ReviewPRSProduct Requirement SpecificationPRTLPre-retirement Transition Leave

PS Public Safety Canada (formerly PSEPC)

PS Project System
PSA Parts Stress Analysis

PSAB Procurement Strategy for Aboriginal Business

PSACPublic Service Alliance of CanadaPSAPPublic Safety Answering PointPSCProgramme spatial canadienPSCPayload Support Centre

PSC Procurement Strategy Committee
PSC Public Service Commission

PSCS Public Service Compensation System

PSD Power Spectral Density

PSDE1 Payload and Spacecraft Development and Experimentation

PSDE2 Program for Space Development Electronics

PSDM Position Sensing Device Module

PSDPA Public Servants Disclosure Protection Act

PSEA Public Service Employment Act

PSEM programme du Système d'entretien mobile (MSS)
PSEPC Public Safety & Emergency Preparedness Canada

PSER Public Service Employment Regulations
PSG Politique sur la sécurité du gouvernement

PSH Payload Support Hardware
PSHCP Public Service Health Care Plan

PSHRMAC Public Service Human Resources Management Agency of Canada
PSIGC PSJSPF Programme de stages pour les jeunes dans le secteur public fédéral

PSKPhase Shift KeyingPSLPotential Supplier ListPSLRPeak Sidelobe RatioPSLTPlan spatial à long terme III

PSMA Public Service Modernization Act

PSMIP Public Service Management Insurance Plan

PSR Pre-Shipment Review

PSRR Preliminary System Requirements Review

PSS Payload Support Structure

PSS Procedures, Specifications and Standards

PSS Personal Satellite Service

PSSAPublic Service Superannuation ActPSSTPublic Service Staffing TribunalPSTNPublic Switched Telephone Network

PSW Payload Module Shear Web Pressure Transducer

PTBN price-to-be-negotiated

PTC Partenariat technologique Canada

PTC Product Test Case

PTe Système d'information sur les plans de travail (PTe)

PTF Platform

PTFEPolytetraflouroethylene (Teflon)PTICProgram Track Interface ComputerPTOCPayload Telescience Operations CentrePTPProgrammable Telemetry Processor

PTP Product Test Plan
PTS Propellant Tank Support
PTS Project Tracking System
PTS Production Test System
PUP Partner Utilization Plan

PUP Payload Module Upper Platform
PVT Programming Validation Tool
PWA Printed Wiring Assembly

PWGSC Public Works and Government Services Canada

PWM Pulse Width Modulation

PYH Pyro Harness

#### ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

QA Quality Assurance

QAM Quadrature Amplitude Modulation
QCI Quality Conformance Inspection
QCM Quartz Crystal Microbalance

QCSFO Quebec Council of Senior Federal Officials

QDEMQuadrature DemodulatorQFCQuebec Federal CouncilQMQualification ModelQoSQuality of ServiceQPLQualified Products ListQPPQuebec Pension Plan

QPSK Quadrature Phase-Shift Keying

QSL Qualification Status List

QTS Qualification Test Specification

QUELD
Queen's University Experiment in Liquid Diffusion (Isothermal Furnace Unit)
Microsatellite platform designed and built by CSA engineers and students, in

QV partnership with industry Quantification vectorielle

### ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

Right Hand Circular polarization
R & D
Research and Development

R & D3 Research and Development Degree of Difficulty

R&O Repair and Overhaul Range and Range Rate Reliability Analysis

RAAN Right Ascension of Ascending Node RABC Radio Advisory Board of Canada

RACC Reception, Archiving, and Cataloguing Controller

RAD Réseau d'analyse de données
RAD Rapid Application Development
RADAR Radio Detection and Ranging

RADI-N 1 Joint Russia-CSA study for collecting radiation exposure data
RADI-N 2 Joint Russia-CSA study for collecting radiation exposure data

RADIUS Research Association for Development and Industrialized uses of Space

RAE
Revue d'aptitude aux essais
RAF
RADARSAT Anomaly Form
RAF
Reception and Archiving Facility
RAID
Redundant Array of Independent Disks
RAM
Responsibility Assignment Matrix

RAM Random Access Memory

RAMP Rapid Mapping Project Proposal

RAMUA RADARSAT Advanced Modes Utilization Activities

RAO Robotics and Automation for Orion
RAPD Resource Allocation Process Document

RAPIER Robotic Assistant & Precursor Investigation and Exploration Rover

RAR Resource Availability Report Range Ambiguity Ratio

RARI Robot and Automatic Research Institute

RAS Remote Access to System
RAS Reception and Archiving System
RASC Royal Astronomical Society of Canada

RAV Revue d'aptitude au vol

RAVENS Recurrent Auroral Visualization of Extended Northern Storms

RAW Raw Signal Data Product
RBAF Risks-Based Audit Framework
RBD Reliability Block Diagrams
RBDC Rate-Based Demand Assignment

RBDC Rate-Based Definant Assignment RBDC Result-based Management Remote Boot System Revue de conception

RC Responsibility Center - Client Centre

RC&M Remote Control & Monitor Revue critique de conception RCC **RCE** Réseaux de centres d'excellence **RCM** Revue de confirmation de mission RCM Resource Configuration Manager RADARSAT Constellation Mission RCM **RCMP** Royal Canadian Mounted Police RCN Région de la capitale nationale

Revue de conception préliminaire et de mise en oeuvre

RCPM Revue de conception préliminaire et de mise en oeuvre RCPM Revue de conception préliminaire et de mise en oeuvre

RCS Reaction Control System

RCST Return-Channel Satellite Terminal RCT Réseau canadien de la technologie

RCT Reaction Control Thrust RD Reference Document RD Record of Decisions

RDDC Recherche et développement pour la défense Canada

RDDP Radar Data Development Program

RDIMS Records, Document, Information Management System

RDMRevue de définition de missionRDMRadiation Design MarginRDSMReceive Data Stream Module

RE Radiated Emissions

REACH Robotics Evaluation and Characterization
REMSAT Real-time Emergency Management via Satellite

REP History Area Report

RESOLVE Regolith and Environment Science and Oxygen and Lunar Volatile Extraction

REXReceiver/ExciterRFRadio FrequencyRFRadiofréquence

RFC Reconfigurable Frame Correlator
RFC Risk Follow-up Committees
RFC Request for Clarification
RFCM Rain Fade Countermeasures
RFD Request For Deviation

RFES Radio Frequency Electronics Subsystem

RFI Request for Information

RFIM Radio Frequency Interconnect Module RFIS RADARSAT Flood Information System

RFP Request for Proposal Reguest For Standing Offer

RESPP Request for Short Preliminary Proposals

RFT Request for Training
RFW Request For Waiver
RGA Residual Gas Analyser
Receiver General Interface

Réseau des gestionnaires intermédiaires

RH Ressources humaines

RHA Radiation Hardness Assurance

RHC Right-Hand Circular

RHCP Right-Hand Circular Polarization

RHDSC Ressources humaines et développement social du Canada

RHPP Radiation Health Protection Project

RHU Radioisotope Heater Units

RIAS Reliability Information Analysis Centre
RIAS Risk Information & Assessment System

RIDReview Items DispositionRIDReview Item DiscrepancyRIDSReview Item Disposition System

RIF Rover Integrated Facility

Radar and Imaging For the Land/Littoral Environment

RIG Rate Integrating Gyro

Relative ionospheric opacity meter

Riomètre Instrument de mesure de l'opacité ionosphérique

Revue des impératifs du système

RISC Resource Intelligence Service Consulting
RITS Requirements Information Tracking System

RL Réseau local

RLFA Right Looking Fixed Antenna

RLSS Return Link Subsystem/Return Link Satellite System

RLU Return Link Unit
RM Reconfiguration Module

RMA Release Mechanical Assembly

RMA Reliability, Maintainability and Availability RMA Reliability, Maintainability, and Analysis

RMAF Results-based Management and Accountability Framework

RMCRevue de confirmation de missionRMERèglement sur les marchés de l'ÉtatRMFResult-based Management FrameworkRMPSRRemote-Multi-Purpose Support RoomRMRRapport ministériel sur le rendement

RN Receipt Numbers

RNCan Ressources Naturelles Canada RNSS Radio Navigation Satellite Service

ROI Return on Investment

ROK Republic of Korea (South Korea)
ROM Rough Order of Magnitude

ROM Read-Only Memory

ROPES Rapid Object-Oriented Process for Embedded Systems
ROSE Real-time Object-oriented Simulation Environment

ROSM Robotic Orion/Orbital Service Module

ROST Robotic Offset Tool Receive Only Terminal

Concept de rover (intégration à l'architecture d'exploration lunaire publiée de la

ROVER LUNAIRE NASA)

RPH Reference Pointing Hold

RPP Rapport sur les plans et les priorités

RPU Receiver Processing Unit RR Readiness Review

RRCG Rapport sur le rendement des conventions de gestion

RRS Récepteur de référence au sol

RS Radiated Susceptibility
RS Reed-Solomon
RS-1 RADARSAT-1

RS-1 RADARSAT-1 RS-2 RADARSAT-2

RS-2AS RADARSAT-2 Application Software

RS2ATES RADARSAT-2 Antenna Test Equipment Software
RS-2BGP Bureau de gestion du projet RADARSAT-2

RS-2C RADARSAT-2 Crypto

RS-2OS RADARSAT-2 Onboard Software

RS-2PMO RADARSAT-2 Project Management Office

RS-2SS RADARSAT Spacecraft Simulator

RS-2UEA RADARSAT-2 Uplink Encryption and Authentication

RSA Russian Space Agency

<u>RSAT</u> RADARSAT

RSD Représentant du service à la clientèle RSD Réseau de stockage de données

RSDAS RADARSAT Shoreline Data Acquisition Service

RSEL Robotic Systems Evaluation Laboratory

RSER Récepteur du sous-système électronique radiofréquence

**RADARSAT International** RSO Radar à synthèse d'ouverture **RSO** Resident Space Object RSS Root Sum Square

RSS Really Simple Syndication

**RSS-GeMS** Real-Time Spacecraft Simulator for the Generic Multi-Mission Microsatellite Bus

**RST** Ruggedized Satellite Terminal

<u>RT</u> Real-Time

**RTA** Research and Technology Agency

**RTE** Real-Time Extended

**RTG** Radioisotope Thermoelectric Generator

RTL Robotic Tape Library

Requirements Traceability Matrix **RTM** Real-Time Operating System **RTOS** 

Real-Time Reduced RTR Run Time System RTS RTS Relative Time Sequence Real-Time Sync Detector **RTSD** Real Time Streaming Protocol **RTSP** 

RTT Round-Trip Time

**RTV** Room Temperature Vulcanizer

RU Remote Unit

**RUDP** RADARSAT User Development Program **RVMP** Rose for Validation of Mission Plans

RW Reaction Wheel

**RWA** Reaction Wheel Assembly **Robotic Workstation RWS RWS Reaction Wheel Support** 

<u>RX</u> Receive Receiver

#### ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

<u>s</u> <u>S</u> <u>S</u> <u>S</u> et C Second South

Standard beam

Subventions et contributions S&AP Sécurité et Assurance produit S&C Subventions et contributions S&MA Safety & Mission Assurance S&PA Safety and Product Assurance S&T Science and Technology

**S&T MCIP** Science and Technology Management Committee for the Industry Portfolio

S&TS Sciences et technologies spatiales

S/A Solar Array S/C Spacecraft Satellite S/L

Signal to Noise Ratio

Subsystem Software

Scientific Authority Solar Array Scientific Atlanta Selective Availability

SASpectrum AnalyserSASupporting ArrangementSAASSAR Antenna Analysis SoftwareSACComité consultatif scientifique

SAC Satellite Access Control

SACC Standard Acquisition Clauses and Conditions

SAD System Acceptance Document
SADA Solar Array Drive Assembly
SADE Solar Array Drive Electronics

SADI Strategic Aerospace and Defence Initiative

SADM Solar Array Drive Mechanism

SAEA Stratégie d'approvisionnement auprès des entreprises autochtones

SAEAC Space and Atmospheric Environment Advisory Committee SAFISY Space Agency Forum for the International Space Year

SAFT Safety

SAG Space Advisory Group

SAGEF Société d'assistance et de gestion financière

SAHR Solar Array H.D. Reinforcement SSRMS Arm Host Software

SAIC Science Applications International Corporation
SAILS Space Applications of Industrial Laser Systems
SAMS Space Acceleration Measurement System

SAMVQ Successive Approximation Multi-Stage Vector Quantisation

SAN Storage Area Network

SAND Spectral Analysis of Dryland Degradation for Global Desertification Assessment

SAOCOM Satellites for Observation and Communications

SAP Systems, Applications and Products
SAPA SAR Antenna Panel Assembly
SAPL Services d'appui partagés localement
SAPP Special Assignment Professional Program

SAR Synthetic Aperture Radar SAR System Action Request

SARA SAR Antenna Radiating Assembly
SARBACAN SART Search and Rescue Transponder

SAS Satellite Attitude Sensor SAS Scisat Ace Simulator Satellite Acquisition Services

SAS Sun Analogue Sensor

SASA S-Band Antenna and Support Assembly
SASP Science and Applications Satellite Program
SASU Software Application Support Plus Upgrades

SATSite Acceptance TestSATSystem Acceptance TestSATCOMSatellite CommunicationsSatNetSatellite Networks (Advantech)

SAW Surface Acoustic Wave SAW Solar Array Wing

SAWA Solar Array Wing Assembly

SAWIN Southern African Water Information Network

SB Single Beam Mode Spacecraft Bus S-Band Omni Antenna

SBDA Science-Based Departments and Agencies SBIS Surface-Based Infrared Spectrometer

SBIS Surface-Base Infrared Sensor

SBP Service Module Bottom Platform

SBT S-Band Transponder

SBTM S-Band Transponder with SP-L/PM Modulator

SC Software Configuration
SC Service Canada
SCA Solar Cell Assembly

SCACE Single Channel Agile Converter Equipment Supervisory, Control, and Data Acquisition

SCAN ScanSAR Mode

SCAP Satellite Communications Applications Program

SCAS Software Corrective Action System

SCCSatellite Control CentreSCCStress Corrosion CrackingSCCSpace Cooperation Committee

SCCG Space Components Coordination Group

SCCOSoret Coefficient in Crude OilSCCOSoret Coefficient in Crude OilSCDSpecification Control DrawingSCDSingle Carrier Demodulator

SCDS Système de classification des dossiers par sujet

SCEIO Société canadienne pour l'étude de l'intelligence par ordinateur

SCEP Shielded Coil Electrodynamic Propulsion

SCF Service canadien des forêts
SCF Spacecraft Control Facility
SCG Service canadien des glaces

SCISAT Space Science Satellite focusing on polar ozone budget and dynamics

SCMSpinal Changes in MicrogravitySCMSoftware Configuration ManagementSCMPSpacecraft Control and Management Plan

SCN ScanSAR Narrow Beam Product SCOE Special Checkout Equipment

SCOPE Cross-Scale Coupling in Plasma Universe
SCOSTEP Scientific Committee on Solar-Terrestrial Physics

SCP Short-Circuit Protection
SCPC Single Channel Per Carrier

SCPS Space Communication Protocol Specification

SCRSoftware Change RequestSCRBSatellite Control Readiness BoardSCSSpacecraft Control System

SCT Secrétariat du Conseil du Trésor du Canada

SCU Spacecraft Control Unit
SCW ScanSAR Wide Beam Product
Sustainable Development

SD Sales distribution
SDB Spacecraft Database
SDD Software Design Document

SDD Stratégie du developpement durable

SDF Software Development File
SDF Software Development Folder
SDFEE Science Data Front-End Electronics

SDIScience Data InterfaceSDMStructural Development ModelSDMSystem Definition ManualSDNRSignal Dependent Noise Ratio

SDOM Station Development and Operations Meeting

SDP Software Development Plan

**SDPS** Drill and Sample Preparation and Distribution System

SDR Special Design Review SDR System Design Review **SDR** Segment Design Review SDR Software-Defined Radio

**SDRAM** Synchronous Dynamic Random Access Memory

**SDRL** Subcontract Data Requirements List

SDS Scientific Data Simulator

**SDS** Sustainable Development Strategy **SDTO** Station Development Test Objective

Software Enhancement <u>SE</u> SE Sensor Electronics SE SE Shielding Effectiveness

Single Event

**SEA** Strategic Environmental Assessment **SEAC** Space Exploration Advisory Committee

**SEBO** Single Event Burn-Out **SECOM** Securité des Communications

**SECS** Seconds

SED SED Systems, a division of Calian Ltd

SEE Single Event Effect **SEE-JITTER** In preparation

SEEM Sensor Electronics Electrical Model SEF Systems Engineering Forum

SEG Stratégie d'exportation de la géomatique

Single Event Gate Rupture SEGR

**SEIDAM** System of Experts for Intelligent Data Management

SEL Single Event Latch-up SEM Système d'entretien mobile

**SEMP** System for Evaluating and Maintaining MRO Performance

**SEMP** Systems Engineering Management Plan **SEMS** Systems Engineering Master Schedule

Sentinel-1 Polar orbiting satellite platforms of ESA's Sentinel Program Sentinel-2 Polar orbiting satellite platforms of ESA's Sentinel Program Sentinel-3 Polar orbiting satellite platforms of ESA's Sentinel Program Sentinel-5 Precursor Polar orbiting satellite platforms of ESA's Sentinel Program

SEP Signal Event Phenomena **SEP** SNECMA - Division SEP SER **SAAB Ericsson Space SER** Symbol Error Rate

**SERABSAT** Security and Emergency Response Advanced Broadband Satellite

<u>SES</u> Software Exchange Service SET Single Event Transient

Search for Extraterrestrial Intelligence SETI

SEU Single Event Upset

Systems Engineering Working Group SEWG

Space Exploration - True Opportunities North **SEXTON** 

**SFCG Space Frequency Coordination Group SFCS** Subject File Classification System

**SFDIR** System Failure Detection, Isolation and Recovery

**SFFO** Senior Full-Time Financial Officers

**SFMRC** Seaman Family Magnetic Resonance Centre of Calgary

SFN Single Frequency Network **SFO** Senior Financial Officer Selected for Operations **SFO** SFT Salary Forecasting Tool

SFU Simon Fraser University

SGBD Système de gestion de base de données

SGC SAR Georeferenced Coarse Resolution Product

Système de gestion des dossiers, des documents et de l'information

SGED Système de gestion électronique de documents SGF SAR Georeferenced Fine Resolution Product

SGH Standard Gain Horn

SGI Silicon Graphic Incorporated

SGIC Système de gestion informelle des conflits

SGL Space Geodynamics Laboratory

SGRR Structure de gestion des ressources et des résultats (politique)

SGX SAR Georeferenced Extra-Fine Resolution Product

SHM Shared Memory
SHO System Hand-Over

SHT Spacecraft Handling Trolley
SI Structured Inspection

SI Silicon

SI System International

SI SI-GE ALLOYS
SIA
Silicon in Silicon-Germanium Alloys
Satellite Industry Association

SIB Serial Ingest Board

SIC Successive Interference Cancellation
SICG Senior International Coordination Group

SID Structure Identifier

SIF Stratégie d'information financière

SIFAC Space Industry Forum in Atlantic Canada SIFM Système intégré des finances et du matériel

SIG Système d'information géographique

SIGC Système d'information et de gestion des congés

SIM Simulation Subsystem

SIMS Suprathermal Ion Mass Spectrometer

SIN Supplier Information Note Session Initiation Protocol

SIPT Système intégré du personnel de Transports Canada

SIQAS SAR Image Quality Analysis Software

 SIR
 Stage Integration Review

 SIR
 Signal-to-Interference Ratio

 SIT
 Strategic Implementation Team

 SIT
 SPDM Integration Team

 SIT
 Satellite Interactive Terminal

SITT Spectrum, Information Technologies and Telecommunications

SJAC Society of Japanese Aerospace Companies

SLA Stakeholder List SLA Slew Activity

SLA Service Level Agreement
SLAG Service Line Advisory Groups

SLCSingle Look ComplexSLCSuper Low CostSL-HKSatellite HousekeepingSL-JJapanese Spacelab missionSLPService Module Lateral PanelsSLPRService Line Performance Report

SLSAC Space Life Sciences Advisory Committee SLSTP Space Life Sciences Training Program

SM Support Measures
SW Switch Matrix

SMStructural ModelSMService Module

SMA Shaped Memory Alloys
SMA Sub-Miniature A Connector
SMA Sous-ministres adjoints

SMAF Staffing Management Accountability Framework

SMAPSoil Moisture Active and PassiveSMATSTVF MAnipulator TestbedSMCStation Management ControlSMCService météorologique du Canada

SMDSM Système mondial de détresse et de sécurité en mer

SME Small and Medium-Sized Enterprises

SME "Subject Matter Expert" - an expert in a given area.

SMEXSmall Explorer MissionSMIService Module MiscellaneousSMIFSpecial Measures Innovation Fund

SMIS Spectromètre de masse à ions suprathermiques

SMM Senior Management Meeting SMO Stable Master Oscillator

SMOC Système mondial d'observation du climat

SMOS Soil Moisture and Ocean Salinity

SMOUWG Shuttle MIR Operations and Utilization Working Group

SMP System for monitoring and maintaining robotic operator performance for the Mobile

SMP Servicing System
SMP Service Module Panel
SMS Salary Management System

SMS SIT (Satellite Interactive Terminal) Management System

SMSD Salle multifonctionnelle de soutien à distance SMSR Service Module Supports and Reinforcement

SMT STVF Manipulator Test Bed Spacecraft Management Unit

SNE SNECMA Moteurs

SNIPSpace Network Interoperability PanelSNMPSimple Network Management ProtocolSNOCSatellite Network Operations Centre

SNOWSAT Cloud/precipitation radar instrument on a small satellite

SNR Signal-to-Noise Ratio

SNSB Swedish National Space Board

SO Standing Offer

SOA Satellite Operating Agency
SOA Special Operating Agency
SOAP Simple Object Access Protocol

SOAR Science And Operational Applications Research for Radarsat-2

SOAR Solar Occultation for Atmospheric Research

SOB<br/>SOCSystem Operations BoardSOCSpacecraft Operations ConsoleSOCSpacecraft Operations Control

SOF SOFRANCE

SOFBALL Structure of Flame Balls at Low Lewis-Number

SOHO Small Office Home Office SOI Standing Offer Index

SOIQ Statement of Interest and Qualification

SOL Safety of Life

Soil Moisture Mapping Using Multi-Polarization and Multi-Angle SAR

SOP System Operations Panel System Operations Plan

SOP Standard Operating Procedures
SOR Statement of Requirement

SORIC Stellar Optics Research International Corporation

SOSC Space Operations Support Centre SOSP Satellite Operations Security Plan

SOT Select on Test

SOUND Science Objectives and User's Needs Definition

SOVT System Operation Validation Tests

SP Source Packet Special Project

SP Sécurité publique du Canada (anciennement SPPCC)

SP2TSingle-Pole Double-ThrowSP4TSingle-Pole Four-ThrowSP8TSingle-Pole Eight-ThrowSPASoftware Product AssuranceSPASwath Planner Application

SPAC Senior Project Advisory Committee (Space Station Program

SPCHA Sectorial Pattern Corrugated Horn Antenna

<u>SPCI</u> Square Peg Communications Inc. <u>SPDM</u> Special Purpose Dexterous Manipulator

SPDS Drill and Sample Preparation and Distribution System (EXOMARS rover)

<u>SPF</u> Strategic Partnership Framework

SPF Single Point of Failure

SPG SAR Precision Geocorrected product
SPI Système de planification intégrée
SPI Schedule Performance Index

SPICA

JAXA /ESA mission to discover the origins of galaxies, stars and planets

Study of the sky in the FIR and measurement of the polarization of the cosmic

SPIDER microwave background

SPIE Society of Photo-Optical Instrumentation Engineers

<u>SPIP</u> Station Program Implementation Plan <u>SPIRE</u> Spectral and Photometric Imaging Receiver

SPL Special Purpose Ledger SP-L/PM Split Phase Modulation

SPMP Software Project Management Plan Space Program Overview Committee

SPOCC Space Planning, Operations, Computing and Communications

SPOT Système pour l'observation de la Terre

SPP Short Preliminary Proposal

SPPP Short Preliminary Program Proposal

SPR Software Problem Report

<u>SPRT</u> Systems Problem Resolution Team

SPS Strategic Planning System Space Power System

SPSSpacecraft Planning Sub SystemSPSStandard Positioning SystemSPSPSatellite Production Security PlanSPSSSpacecraft Power Sub System

<u>SPST</u> Société pour la promotion de la science et de la technologie

SPT SPDM Project Team

SPV Superviseur Supervisor

SQAP Standard Quad-polarization beam SQAP Software Quality Assurance Plan

SQR Senior Quarterly Review

SQUIS Spot Quicklook Imaging System

SR Stazione di Ricezione SR Second Review

SRAM Simham Research Associates
SRAM Static Random Access Memory

SRB System Review Board

SRC Starsys Research Corporation
SRCL Security Requirements Checklist
SRD System Requirements Document

SRL Space Radar Laboratory

SRMP Solar Radio Monitoring Program

SRP Safety Review Panel

SRRSystem Requirements ReviewSRRSoftware Requirements ReviewSRSSoftware Requirements SpecificationSRTStructure de répartition du travailSS&TSpace Science and TechnologySSASpace Situational Awareness

SSAC Système de Suivi de l'Apprentissage Continu Space Station Approved Electrical Parts List

SSB Setting Selector Bus

SSBUV Shuttle Solar Backscatter Ultra Violet

SSCSwedish Space CorporationSSCSerial Synchronous ChannelSSCSynoptic Slave ComputerSSCBSpace Station Control BoardSSCCSpace Station Control CentreSSESpace Science and Exploration

SSESC Space Station Environment Steering Committee

SSF Space Station Freedom
SSFF Space Station Furnace Facility

SSG SAR Systematic Geocorrected product

SSG Space Systems Group

SSHRC Social Sciences and Humanities Research Council

SSI Serial Synchronous Interface

SSID Service Set Identifier

SSIP Space Systems Intranet Project
SSJC Space Science Joint Committee
SSM Special Sensor Microwave
SSM Small Space Manipulator
SSM Second Surface Mirrors

SSMI Special Sensor Microwave Imager

SSMM Solid State Mass Memory Sun Synchronous Orbit

SSOU Space Station Operations and Utilization

SSP Summer Session Programs
SSPA Solid State Power Amplifier

Society of Satellite Professionals International

Software Specification Reviews

SSR Solid State Recorder
SSR Stakeholder Survey Report

SSRMS Space Station Remote Manipulator System SSRR Space Segment Requirements Review

SSS Small Satellite SAR Sun Sensor Support

SSS Simulated Spacecraft Sidewall Spacecraft Support Structure

SSSAAS Space Station Science & Applications Advisory Subcommittee

SSSAC Senior Space Science Advisory Committee

SSSM Solid-State Switch Matrix

Services fédéraux des affaires scientifiques, techniques et culturelles

SS-TDMA Satellite-Switched Time Division Multiple Access

SSTF Space Station Training Facility
SSU Space Station Utilization

SSUDACI Space Station User Development Atlantic Canada Initiative

Service Module Shear Web

ST Space Technology

STA Science and Technology Agency
STAB Space Technology Advisory Board

STACI Space Technology Atlantic Canada Initiative
STAE Space Technology and Applications Exhibition

STAIFSpace Technology and Applications International ForumSTARSystem of Telepresence for Anthropomorphic RenderingSTARSatellite Telecommunications Advanced Research

STAS Space Transportation Architecture Study

STB Space Technology Branch
STC Satellite Transport Container

STC System Test Case STCP Short-Term Cost Plan

STCP Space Technology Contracting-Out Program

STD Standard

STD State Transition Diagram

STDP Space Technology Development Program

STE Special Test Equipment

STEAR Strategic Technologies for Automation and Robotics (program)

STEM Storable Tubular Extendible Mechanism

STEM Système de génie tissulaire

STEP Stratosphere-Troposphere Exchange Processes

STFD Space Technology Flight Demonstrator STFS Science and Technology Foresight

STG Space Task Group

SECURITÉ des technologies de l'information

STK Satellite Tool Kit

STOL Spacecraft Test and Operations Language

STP System Test Plan
STPL State Plane
STR Structure S/S

STRAC Solar Terrestrial Relations Advisory Committee

<u>STRP</u> Space Technology Research Program Space Transportation Systems

STS-114 114th mission in the history of the Space Shuttle Program

STS-115 Delivering new truss segments and solar arrays to the ISS

Delivering and installing of the S5 truss segment to the ISS

STS-119/15A 125th mission in the Space Shuttle Program

STS-121 Continuing the analysis of safety improvements and building upon those tests

STS-123 1 J/A (DEXTRE) 25th assembly mission to the ISS

STS-124 Using the Canadarm2 robotic arm for assembling the final Kibo laboratory

STS-126 Last mission of the Endeavour Space Shuttle

Delivering the last permanent component of the JAXA contribution to the ISS

STS-127 Program

STS-128/17A Assembly mission to resupply the ISS STS-129 ISS home improvement mission

STS-131 Delivering of the Leonardo Multi-Purpose Logistics Module to the ISS and installing

an ammonia tank at the outside of ISS

STS-132 Flight ULF4Mission aimed at installing the Russian-built MRM-1 module on the ISS

STS-133/ULF5 Mission aimed at delivering to the ISS the Permanent Multipurpose Module and the

Express Logistics Carrier 4

STT Star Tracker

STT Satellite Transportable Terminals

STTA Star Tracker Assembly
STTE Star Tracker Electronics
STTS Star Trackers Support

STVF SPDM Task Verification Facility

SUM Software User Manual

SUP Service Module Upper Flange
SuperDARN Super Dual Auroral Radar Network

SUT S-Band User Terminal Schedule Variance

SVS Outil d'amélioration de la vision des astronautes dans l'espace

<u>SW</u> Software

SWARM Satellites measuring the strength and direction of the Earth magnetic field

SWCI Software Configuration Item

SWIFT Stratospheric Wind Interferometer For Transport studies

SWL Sampling Window Length

SWOT Surface Water Ocean Topography satellite (NASA/CNES)

SWST Sampling Window Start Time

SYMOFROS Symbolic Modelling of Flexible Robots and Simulation

Sync Synchronizer

System Requirements Identifier in Requirements naming convention

### ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

T&Cs Terms and Conditions
T&DH Timing and Data Handling

T&LTravel & LivingT&RTracking & ReceptionT/RTransmit/Receive

Time Zero (In the context of a rocket launch, the "T minus Time" is the time before

launch)

T-3 A dedicated phone connection supporting 672 channels, (64 Kbps each).

TA Tasking Authority

<u>TAA</u> Technology Assistance Agreement

TAM IAI Taman Division

<u>TanDEM-X</u>
<u>TASCC</u>
TerraSAR-X add-on for Digital Elevation Measurement
Tandem Accelerator Superconducting Cyclotron

TAT Turn Around Time

TB Terabyte

TB Treasury Board of Canada

TBATo be announcedTBALThermal BalanceTBCTo be confirmedTBDTo be determinedTBMTreasury Board Manual

TBRTo Be ReleasedTBRTo Be ReviewedTBRTo Be Revised

TBS Treasury Board of Canada Secretariat

TBWTo Be WrittenTCTelecommandTCThermocoupleTCTraffic ChannelTCTurbo Coding

TCA Thrust Chamber Assembly TCC Test Conductor Console

TCCE Tribunal canadien du commerce extérieur

TCM Timing Control Module

TCP/IP Transmission Control Protocol/Internet Protocol

TCRTelemetry Command and RangingTCSTelemetry and Command StationTCSThermal Control SubsystemTCTFTelecommand Transfer Frame

TD Thermal Doublers
TDE Total Dose Effect

TDEA Triple Data Encryption Algorithm
TDES Triple Data Encryption Standard

TDFP Tribunal de la dotation de la fonction publique

TDMA Time Division Multiple Access

TDOFM Technology Development Opportunity Funding Mechanism

TDP Technology Diffusion Program
TDP Technology Development Program

TDR Test Data Review

TDRSS Tracking and Data Relay Satellite System
TDSA Telefunction Data Server Architecture
TDWG Technical Data Working Group

TE Test Equipment

TEB Terrestrial Ecosystems Branch

<u>TEKES</u> Finnish Funding Agency for Technology and Innovation

TEL TELDIX Gmbh

<u>TES</u> Thermal Enclosure System Test Sequence Language

TF Thermal Fillers

TGS Transportable Ground Station

THA Tool Holder Assembly

THEMIS Time History of Events and Macroscale Interactions during Substorms

THRE Thermistor-Ext. Range
THRN Thermistor-Nominal Range
TI Technologie de l'information

TIA Telecommunications Industry Association
TICD Thermal Interface Control Document
TICFIRE Thin Ice Clouds in Far IR Experiment

TIDTotal Incident DoseTIFTunable Image FilterTIFFTagged Image File FormatTIMTechnical Interchange MeetingTIMTechnical Information Manager

TIME-X Timing of X-Rays by unconventional stellar aspect mission

<u>TIPS</u> Transport Integrated Personnel System

(Satellite)Telecommunications Infrastructure, Terminals, Applications and

TITAN Networking

TLMC TTCS Local Monitor and Control

TLT Test Loop Translator

TLTP Teaching and Learning Technology Project

<u>TLTP</u> Telecommunications Long Term Plan (ESA)

TM Telemetry

TM/TC Telemetry/Telecommand

TMA-6/10S Mission aimed at conducting experiments and technology demonstrations for

European researchers

TME Test and Measuring Equipment Temps du méridien de Greenwich

TMG Thermal Model Generator

TML Total Mass Loss
TMS Thermal Miscellaneous

TN Technical Note

TOC TT&C Operations Console

TOFB-I TDEA Output Feedback Mode Interleaved TOGA Tropical Ocean and Global Atmosphere TOMS Total Ozone Mapping Spectrometer

TOOLS Technologies Opportunities Organizations and Linkages for Success

TOPBP Total Output Power Back Off

TOR Terms of Reference Type of Service

TOVS Tiros Operational Vertical Sounder

TP Transition Plan

TPA Thermal Plasma Analyzer
TPC Technology Partnership Canada

TPL Test Plan

TPM Technical Performance Measurement (System)

TPP Transfer Payment Program

TPR Test Procedure

TPS Tactical Planning System

TPSGC Travaux publics et Services gouvernementaux Canada

TPT Transport

TQF Thermal Qualification Facilities

TRAC Test of Reaction and Adaptation Capability of human manual skills during

spaceflights

TRACTEUR

Terrainable Reconfigurable Autonomy-Capable Tool-using Exploration and Utility

Rover

TRAM Test Results Analysis Module

TRB Test Review Board

TRD Technical Requirements Document

TRE Torso Rotation Experiment

TRE Test Result

TREES Tropical Ecosystem Environment Observation by Satellites

TRH TT&C RF Harness

TriDAR Vision system built to support rendez-vous and docking operations

TriDAR DTO

Système de vision de support d'opérations d'amarrage /rendez-vous à bord de vols

spatiaux en mode DTO

TRIM Total Risk Integrated Methodology
TRL Technology Readiness Level
TRM Transmit/Receive Module

TRMCTTCS Remote Monitor and ControlTRMEMTransmit/Receive Module Electrical ModelTRMMTropical Rainfall Measurement MissionTRPTechnological Research Programme

TRQ Tranquillisation

TRR Test Readiness Review

TRS Transportable Radarsat Station

TRSSS Thailand Remote Sensing Satellite System

<u>TS</u> Test Sequence

TSA Thermal/Suprathermal Analyzer

TSAR Programme de Technologies stratégiques en automatisation et en robotique

TSETether System ExperimentTSFTechnical Specification FileTSGTechnology Strategies GroupTSGMTransmit Signal Generator ModuleTSIMTotal Solar Irradiance Mission

T-SIT Transportable Satellite Imaging Terminal

TSM Telemetry Status Monitor
TSR Third Safety Review
TT Technology Transfer

TT&C Telemetry, Tracking and Command TT&C Telemetry, Tracking and Control

TTCEP Time-Tagged Command Execution Period TTCS Telemetry, Tracking and Command Stations Telemetry, Tracking & Control System

TTCS Telemetry, Tracking, and Command Subsystem
TTOS Telemetry and Telecommand Operations Simulator

TVACThermal and VacuumTVMTiming Value MessageTWNThe Wonder NetworkTWTTravelling Wave TubesTWTX-Band TWT (incl. h.v.c.)TWTATraveling Wave Tube Amplifier

TX Transmit
TX Transmitter

TXV Thermal Expansion Valve

### ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

U&ST Équipe d'utilisateurs et de scientifiques

U.S. Users and Science Team
U.S. United States of America
UAF University of Alaska Fairbanks

<u>UARS</u> Upper Atmospheric Research Satellite

UAV Unmanned Arial Vehicle
UCM Up-Converter Module
UCR Upper Cone Ring

UCS Universal Classification Standards
UDRF U.S. Data Reception Facility

UDROC U.S. Data Reception Operation Centre

UFRBUltra-Fine Resolution BeamUHFUltra High FrequencyUIGUser Interface Guide

UIT Union Internationale des Télécommunications

UK United Kingdom
UL Under Writer Lab
ULSs Up-Link Stations

UMDBUser Mission Data BaseUMLUnified Modeling LanguageUMPUtilization Management Plan

UMTS Universal Mobile Telecommunication System

<u>UN</u> United Nations

<u>UN COPUOS</u> United Nations Committee on the Peaceful Uses of Outer Space

UNCLOS United Nations Convention on Laws of the Sea

<u>UNDP</u> United Nations Development Program

<u>UNEP</u> United Nations Environment Programme

UNFCCC United Nations Framework Convention on Climate Change

UNGA United Nations General Assembly

UOP User Operations Panel UP Unsolicitated Proposal

UPBS Unsollicited Proposal Brokerage Services

UPS Universal Polar Stereographic UPS Uninterruptible Power Supply

UQPSK Unbalanced Quadrature Phase Shift Keying

URD User Requirements Document
URL Uniform Resource Locator
USA United States of America
USB Universal Serial Bus

USD US Dollars

USG United States Government

USML United States Microgravity Laboratory mission series
USMP United States Microgravity Payload mission series

USNO U.S. Naval Observatory

USOC United States Operations Centre
USRA University Space Research Association
USSF United States Space Foundation

UT Universal Time
UT User Terminal

UTC Universal Time Co-ordinated

UTIAS University of Toronto Institute for Aerospace Studies

UTM Universal Transverse Mercator
UTR Uniform Temperature Reference
UTTC United Tri-Tech Corporation

UTWG Utilization Technology Working Group

UUT Unit Under Test

<u>UV</u> Ultra-violet reflectance spectroscopy

UVA Unité de vision artificielle UVAI Ultraviolet Auroral Imager

<u>UVAMC</u> Ultra Violet Auroral Monitoring Camera

<u>UVIT</u> Ultra-Violet Imaging Telescope

imaging telescope

UV-VIS-NIR Spectrometer based on the TROPOMI developed by the Netherland

Astronomical research multi-wavelength space borne observatory with an ultra-violet

UWB Ultra-Wideband

### ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

V Volt

**UVIT-ASTROSAT** 

VACCO Industries Inc (an IT firm of El Monte, CA)

VAFBVandenburg Air Force BaseVAGVeille de l'atmosphère du globeVAMSVertical Axis Measurement System

<u>VAP</u> Value-Added Processor <u>VAR</u> Value-Added Reseller

Vascular Cardiovascular health consequences of long-duration space flight project

<u>VBDA</u> Volume-Based Demand Assignment

VC Virtual Channel

VCAUVirtual Channel Assembly UnitVCDUVirtual Channel Data UnitVCFVisuo-Motor Coordination Facility

VCID Virtual Channel Identifier

VCMVariable Coding and ModulationVCRVerification Cross ReferenceVCRMVerification Cross Reference Matrix

VDAVapor Diffusion ApparatusVDCVolts Direct CurrentVDNVoice and Data NetworkVGVérificateur général

VH Vertical polarization on transmit, Horizontal polarization on receive

VHDL Virtual Hardware Description Language

VHF Very High Frequency

VHSIC Very High Speed Integrated Circuit

VICTOIRE Virtual Collaboration Tool and Information Retrieval Engine

VIDAVideo Data ApplicationsVIPV-Band Investigation Project

VIRTIS Visible and Infrared Thermal Imaging Spectrometer

VIS Visible reflectance spectroscopy

VIVO Video In, Video Out

VLBIVery Long Baseline InterferometryVLSIVery Large-Scale IntegrationVMEVirtual Memory ExtensionVMEVersa Module Eurocard

Veille météorologique mondiale
VMS

Veille météorologique mondiale
Virtual Memory System

VMSVirtual Memory SystemVNIRVisible and Near Infra-RedVoIPVoice over Internet ProtocolVOSRVehicle-on-Stand ReviewVPVertical PolarizationVPNVirtual Private NetworkVPSVariable Phase Shifters

VRML Virtual Reality Modeling Languages

 VSA
 Vector Signal Analyzer

 VSAT
 Very Small Aperture Terminal

 VSE
 Vision Systems for Exploration

 VSOP
 VLBI Space Observation Programme

 VSTR
 Vehicle Subsystem Turnover Review

VSWR Voltage Standing Wave Ratio

VU Visible Ultraviolet

Vertical polarization on transmit, Vertical polarization on receive

WP Verification and Validation Plan

### ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

W Watt

W3C World Wide Web Consortium
WAAS Wide Area Augmentation System
WaMI Waves Michelson interferometer

WAN Wide Area Network
WBDH Wide Band Data Handler
WBS Work Breakdown Structure

WCA Worst Case Analyses
WCDD Worst Case Deposited Dose

WCDMA Wideband Code Division Multiple Access
WCRP World Climate Research Programme

WDG Watchdog

WED Department of Western Economic Diversification

WED Western Economic Development

WEDOS World Environment and Disaster Observation System

WFA Work Force Adjustment

WFIRST Wide Field Infrared Survey Telescope

WG SW Waveguide Switch

WGCV Working Group on Calibration and Validation

WGD Working Group on Data

WGISS Working Group on Information Systems and Services

WGL Waveguide Load

WiMAX PoE WiMAX Power-Over-Ethernet

WISE Women International Space Simulation for Exploration

WLANWireless Local Area NetworkWMWarehouse ManagementWMANWireless Municipal Area NetworkWMOWorld Meteorological OrganizationWOCEWorld Ocean Circulation Experiment

 WP
 Work Package

 WP
 Work Plan

 WR
 Western Range

WRAN Wireless Regional Access Network
WRC World Radiocommunication Conference

WRRWeighted Round RobinWRTWith Respect ToWSWorkstationWSBWide-Swath Beam

WSEN Western Space Education Network

WSSD World Summit on Sustainable Development

WTO World Trade Organization WWW World Weather Watch

#### ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

XB TWTA X-Band Traveling Wave Tube Amplifier

XBAA X-Band Antenna Assembly

XBF X-Band Filter
XBFE X-Band Front End
XBHM X-Band Hybrid Matrix

XBTA X-Band Transmission Assembly

XC Executive Committee

XML Extensible Markup Language

XRX-Ray RadiographyXSDXML Structure DefinitionsXSLExtensible Stylesheet Language

XSLT XSL for Transformations

### ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

YL Yield Loads

YSSP Young Space Scientists Program

# ABCDEFGHIJKLMNOPQRSTUVWXYZ\*

ZOE Zone of Exclusion