

REQUEST FOR PROPOSAL

Consultant Services for the Development and Implementation of a Quality Assurance Audit Program

March, 2019

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1.0 INTRODUCTION

1.1 Purpose

The Terms of Reference defines the scope of work required from the Consultant for the Development and Implementation of a Quality Assurance Audit Program that encompasses all activities authorized under the airport certificate, including all aspects of the airport's Safety Management System, as required by the Canadian Aviation Regulations.

This request for proposal will be for a period required to implement and complete this project.

1.2 Background

- (1) In *Flight 2005: A Civil Aviation Safety Framework for Canada*, Transport Canada (TC) committed to the implementation of SMS in civil aviation organizations. Safety management is a principal element of a sound aviation management program, and a prime factor in the achievement of the goals set out in *Flight 2005*: the reduction of accidents and incidents, and an increased level of public confidence in Canada's air transportation system. The aim is to improve safety through proactive management rather than reactive compliance with regulatory requirements.
- (2) TC, through the Canadian Aviation Regulation Advisory Council (CARAC), has developed a series of rule changes to introduce the regulatory requirements for SMS in civil aviation organizations. Rules affecting airport certificate holders in Part III, Subpart 2 of the CARs came into force in 2008.
- (3) A required component of the SMS is a Quality Assurance program including an operational independent audit function.

2.0 OBJECTIVES

2.1 General

The objectives are to provide professional consulting services to:

- a. Develop a Quality Assurance Audit Plan and conduct a Quality Assurance Audit of all activities authorized under the airport certificate; and,
- b. Ensure the Quality Assurance Program meets the requirements of the Canadian Aviation Regulations
- 2.2 The quality assurance program will need to reflect the size and complexity of the airport. Airports vary in size, type of operation, number of personnel, geography, climate and economic environment. These and other factors will influence the scope of an airport's program.

To be effective the quality assurance program must be tailored to the size, nature and complexity of the operation and activities. The quality assurance program does not need to be more complex than required.

2.3 These services will be broken down into 3 defined phases which include 7 components identified in section 2.4.

Phase 1 - Planning the Audit

The consultant will develop an Audit Planning Schedule for the initial Quality Assurance Audit covering all components required to be audited.

Phase 2 - Conducting the Audit

During this phase, between September 3rd and no later than October 25th, 2019 the consultant will complete a Quality Assurance Audit covering all areas listed in the Quality Assurance Audit Planning Schedule.

Phase 3 - Audit Reports

Upon completion of the Quality Assurance Audit the consultant will prepare a report incorporating audit findings and supporting facts. Corrective action plans will be developed by the airport and not by the consultant.

2.4 Components

| Table A—Quality Assurance Program Areas | | | | |
|---|--|--|--|--|
| Component | | | | |
| 1.Airport Operations Manual | | | | |
| 2.Emergency Response Plan | | | | |
| 3. Obligations of the operator | | | | |
| 4.Safety Management System | | | | |
| 5.TP312 | | | | |
| 6.Wildlife Management Program | | | | |
| 7. Winter Maintenance | | | | |

All components are to be reviewed to meet the latest version of Canadian Aviation Regulations and related standards affecting aerodrome operations.

See Annex "A" through "G" for North Bay Jack Garland Airport Audit Checklists

TP312 5th edition is current at this time.

3.0 SCOPE OF CONSULTING SERVICES

3.1 General Requirements

In completing the above noted projects, the following is a brief description of the general requirements of work to be undertaken:

- Meeting with the airport to review details of the project and establish priorities.
- > Plan and conduct the audit.
- > Prepare a report with findings and recommendations.

4.0 PROJECT SCHEDULING

It is intended that the Consultant retained will enter into a Contract for the provision of services.

The Consultant will work with Airport Staff in establishing priorities and identifying requirements to meet the following completion schedule for each phase.

Full Quality Assurance Audit Completion

No Later Than November 29, 2019

5.0 PROJECT REQUIREMENTS

Proponents are asked to provide services generally referred to as "Consulting Services" for the purpose of the RFP. The successful proponent will be awarded a Contract and be referred to as "Consultant" to the Airport.

5.1 Completion deliverables per phase

- i) At the completion of Phase 1 and Phase 3 provide the Airport two hard copies of the completed phase of the QA Audit program and an electronic copy.
- ii) Electronic format to be PDF.

5.2 Regulation Compliance

Consultant shall review all relevant standards, recommended practices, regulations and publications applicable to the development and implementation of an SMS Program and the quality assurance there within.

6.0 INSTRUCTIONS TO PROPONENTS

6.1 General

Eligible proponents must provide with their proposal:

- 1. Letter of good standing with the Workplace Safety & Insurance Board.
- 2. Letter from Insurance Company stating availability of Professional Liability Insurance.
- 3. Proof of General Liability and Comprehensive Automobile Insurance for all owned vehicles, non-owned vehicles and leased.

The information contained in the proposal must be organized under the same headings and in the same order as outlined in the following section entitled "Mandatory Proposal Components".

6.2 Mandatory Proposal Components

Please order proposal as follows:

- **1.0 Introduction** (Including the following):
- 1.1 Introductory letter describing the proponent's team and indicating the firm's commitment to the project signed and sealed as outlined above.
- 1.2 Letter of good standing with the Workplace Safety and Insurance Board.
- 1.3 Letter from Insurance Company stating availability of an Aviation Professional Liability Insurance specific to this job, the successful Consultant will be required to carry a minimum of \$2,000,000 per occurrence in professional liability insurance and \$5,000,000 in general liability. The insurance coverage cannot be modified without written consent of the Owner. Clauses that limit the liability of the Consultant or the insurance company to the value of the fees paid/payable will not be considered.
- 1.4 Proof of General Liability and Automobile Liability Insurance.

2.0 Corporate Overview (Proponent and Sub-consultants)

- 2.1 History of Firm(s) and experience in general.
- 2.2 Size of firm Number of full time and part time employees, associate sub-consultants.

- 2.3 Related Experience A summary of relevant experience of the proposed project team including prime and sub-consultants, in completing assignments of this type in a similar size, scope, and complexity. The relevant experience should include work in the following areas:
 - Safety Management Systems for Aviation Industry and Airports
 - > Familiarity with Transport Canada
 - Experience and work related to the Canadian Aviation Regulations & Standards
 - Provide details of related projects including names, positions and telephone numbers of client references for at least three (3) relevant projects. Consultant must have completed similar services for a minimum of three (3) projects within the last three (3) years.
- 2.4 Statement of ability to handle this work in conjunction with any existing workloads and established deadlines.

3.0 Project Team Members

3.1 A description of the experience and capabilities of each team member, number of years at the firm, and their role and responsibility during this project (limit one page/member). The relevant experience should be limited to work in the areas indicated above. Team leaders must be involved in projects completed in last 3 years.

4.0 Organization and Methodology

4.1 Provide a schedule to organize the work and the project.

5.0 Submission of Price and Terms of Payment

The Consultant is to provide a cost proposal excluding travel and accommodations.

The Consultant is to provide in the cost proposal a breakdown of the base fee, anticipated disbursements i.e. travel, lodging, and cost per hour of any additional requested work.

6.0 Ownership

All documentation or materials produced pursuant to these Terms of Reference or the Contract Document will become the property of the airport.

7.0 PROPOSAL EVALUATION CRITERIA

The Consultant's proposal shall be evaluated in accordance with the following criteria.

Proposals will be evaluated by the airport on the basis of perceived "best value", as such the lowest price may not mean award. The airport reserves the right to select and award using its sole discretion and to reject any and all proposals as it sees fit.

The Airport Management team will carry out a project assessment and make recommendations. The evaluation will use the criteria set out as outlined below.

Review Process-

Total Value 85 points

Proposal Quality
10 points

-overall organization, quality of proposal

> Understanding of the Assignment 10 points

- Demonstrated understanding of the assignment

Project Team
10 points

- Qualifications and experience of firm & personnel and

Project Manager
10 points

- Experience, familiarity with issues, time commitment

> Methodology 15 points

- Depth, detail, clarity of the submission

- Understanding of local issues

> Control 10 points

- Cost control, reporting and quality control

> Fee proposal 20 points

8.0 SUBMISSION INSTRUCTIONS

8.1 Address for Submission of Proposals

Address for submittal of Proposals: North Bay Jack Garland Airport Corporation

50 Terminal St., Suite #1 North Bay, Ontario

P1B 8G2

Email address: dan.booth@yyb.ca

Clearly mark sealed packages:

PROPOSAL SUBMISSION FOR: North Bay Jack Garland Airport Quality Assurance Program

8.2 Closing Time for Submission of Proposals

Proposals must be received no later than:

3:00 pm, Eastern Standard Time, Monday May 1st, 2019

8.3 Form of Submission

Two (2) bound copies of the Proposal are to be sealed in an envelope clearly marked as noted in item 8.1 above. Proposal will also be accepted in an electronic format as noted in item 8.1 above.

No late deliveries or fax transmissions will be accepted.

8.4 Enquiries from Consultants

Consultants are to direct enquiries during the proposal call period to:

Dan Booth, Operations/SMS Manager (705) 474-3026 ext. 5306 dan.booth@yyb.ca

8.5 Anticipated Respondent Selection Date – June 03, 2019

ANNEX "A"

Safety Management System (SMS)

Airport Operations Manual Checklist

| Name of Airport | CYYB North Bay Jack Garland Airport | | | | | |
|-----------------------|-------------------------------------|--|--|--|--|--|
| Airport Manager/AE | Mr. Jack Santerre | | | | | |
| SMS Manager | Mr. Dan Booth | | | | | |

| Date of Audit | Month DD, YYYY |
|---------------|----------------|
| | |

| Lead Auditor | Mr./Mrs First Name, Last Name | | | | | |
|--------------|-------------------------------|--|--|--|--|--|
| Audit Team | Company Name | | | | | |
| Address | Street No./Name | | | | | |
| | City, Province | | | | | |
| | Postal Code | | | | | |
| | Phone Number | | | | | |

Sections Covered

| 302.08 | | | |
|--------|--|--|--|
| | | | |
| | | | |
| | | | |
| | | | |

| Audit | D | Namulation Continu | Comply? | | | | Audit # / | Comments | |
|-----------|------------|---|---------|----|-----|-----|------------|----------|--|
| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | Comments | |
| | | Airport Operations Manual | | | | | | | |
| | 302.08 (1) | The operator of an airport shall; | | | | | | | |
| 1 | (a) | on the issuance of an airport certificate, provide | | | | | | | |
| | | the Minister with a copy of the airport operations | | | | | | | |
| | | manual, as approved by the Minister pursuant to | | | | | | | |
| | | subsection 302.03(2), and distribute copies of the | | | | | | | |
| | | applicable portions to the persons and institutions | | | | | | | |
| | | referred to in the airport operations manual; | | | | | | | |
| 2 | (b) | maintain the airport operations manual; and | | | | | | | |
| 3 | (c) | submit to the Minister for approval any proposed | | | | | | | |
| | | amendment to the airport operations manual. | | | | | | | |
| | 302.08 (2) | The provisions of this Subpart that apply in respect | | | | | | | |
| | | of the making of an airport operations manual also | | | | | | | |
| | | apply in respect of any amendment to an airport | | | | | | | |
| | | operations manual. | | | | | | | |
| 4 | 302.08 (3) | An airport operations manual shall set out the | | | | | | | |
| | | standards to be met and the services to be | | | | | | | |
| | | provided by an airport operator. | | | | | | | |
| | 302.08 (4) | An airport operations manual shall contain | | | | | | | |
| 5 | (a) | a table of contents; | | | | | | | |
| | (b) | any information relating to the administration of | | | | | | | |
| | | the airport, including; | | | | | | | |
| | | the disport, meddang, | | | | | | | |
| 6 | (b)(i) | a record of any amendments to the airport | | | | | | | |
| | | operations manual, | | | | | | | |
| 7 | (b)(ii) | a list of holders of copies of the airport operations | | | | | | | |
| / | (0)(11) | manual or of portions thereof, | | | | | | | |
| 8 | (b)(;;;) | a description of the procedure for amendment of | | | | | | | |
| ° | (b)(iii) | the airport operations manual, | | | | | | | |
| | | the amport operations manual, | | | | | | | |

Safety Management System (SMS)

Audit Date: Month DD, YYYY

Emergency Plan Checklist

| Name of Airport | CYYB North Bay Jack Garland Airport |
|--------------------|-------------------------------------|
| Airport Manager/AE | Mr. Jack Santerre |
| SMS Manager | Mr. Dan Booth |

| Date of Audit | Month DD, YYYY |
|---------------|----------------|
|---------------|----------------|

| Lead Auditor | Mr./Mrs. First Name, Last Name | | | | | |
|--------------|--------------------------------|--|--|--|--|--|
| Audit Team | Company Name | | | | | |
| Address | Street No./Name | | | | | |
| | City, Province | | | | | |
| | Postal Code | | | | | |
| | Phone Number | | | | | |

Regulations Covered

| | | • | | |
|---------|---------|---|--|--|
| 302.202 | 302.207 | | | |
| 302.203 | 302.208 | | | |
| 302.204 | 302.209 | | | |
| 302.205 | | | | |
| 302.206 | | | | |

| Audit | | Section - | | Cor | nply? | | Audit # / | Commonto |
|-----------|-------------|---|-----|-----|-------|-----|------------|----------|
| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | Comments |
| | | Airport Emergency Plan | | | | | | |
| | | General | | | | | | |
| | 302.202 (1) | After consultation with a representative sample | | | | | | |
| | | of the air operators that use the airport and with | | | | | | |
| | | community organizations that may be of | | | | | | |
| | | assistance during emergency operations at the | | | | | | |
| | | airport or in its vicinity, the operator of an airport | | | | | | |
| | | shall develop and maintain an emergency plan for the purpose of identifying | | | | | | |
| 1 | (a) | the emergencies that can reasonably be | | | | | | |
| _ | (a) | expected to occur at the airport or in its vicinity | | | | | | |
| | | and that could be a threat to the safety of | | | | | | |
| | | persons or to the operation of the airport; | | | | | | |
| 2 | (b) | the measures to activate the emergency plan for | | | | | | |
| | , , | each type of emergency; | | | | | | |
| 3 | (c) | the community organizations capable of | | | | | | |
| | | providing assistance in an emergency; and | | | | | | |
| 4 | (d) | any additional resources available at the airport | | | | | | |
| | | and in the surrounding area. | | | | | | |
| 5 | 302.202 (2) | The operator of an airport shall establish a | | | | | | |
| | | degree of supervision and control sufficient to | | | | | | |
| | | manage the size and complexity of an | | | | | | |
| | | emergency. | | | | | | |
| | 302.202 (3) | The operator of an airport shall | | | | | | |
| 6 | (a) | maintain at the airport, in the format of a | | | | | | |
| | | manual, a copy of an updated version of the | | | | | | |
| | | emergency plan; and | | | | | | |
| 7 | (b) | provide a copy to the Minister on request | | | | | | |
| | | provide a copy to the Minister on request. | | | | | | |
| | 302.202 (4) | The operator of an airport shall | | | | | | |
| 8 | (a) | update the emergency plan as necessary to | | | | | | |

ANNEX "C"

Safety Management System (SMS)

Audit Date: Month DD, YYYY

Obligations of the Operator Checklist

| Name of Airport | CYYB North Bay Jack Garland Airport |
|----------------------|-------------------------------------|
| Airport | Mr. Jack Santerre |
| Manager/AE1. | |
| Letter of good | |
| standing with the | |
| Workplace Safety | |
| & Insurance Board. | |
| 2. Letter from | |
| Insurance Company | |
| stating availability | |
| of Professional | |
| Liability Insurance. | |
| 3. Proof of | |
| General | |
| Liability and | |
| Comprehens | |
| ive | |
| Automobile | |
| Insurance | |
| for all | |
| owned | |
| vehicles, | |
| non-owned | |
| vehicles and | |
| leased. | |
| | |

| SMS Manager | Mr. Dan Booth | | | | | |
|---------------|----------------|--|--|--|--|--|
| | | | | | | |
| Date of Audit | Month DD, YYYY | | | | | |

| Lead Auditor | Mr./Mrs. First Name, Last Name |
|--------------|--------------------------------|
| Audit Team | Company Name |
| Address | Street No./Name |
| | City, Province |
| | Postal Code |
| | Phone Number |

Sections Covered

| 302.07 | | | |
|--------|--|--|--|
| | | | |
| | | | |
| | | | |
| | | | |

| Audit | | | | Com | ply? | | Audit # / | |
|-----------|------------|---|-----|-----|------|-----|------------|----------|
| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | Comments |
| | | Obligations of the Operator | | | | | | |
| | 302.07 (1) | The operator of an airport shall; | | | | | | |
| 1 | (a) | Comply; | | | | | | |
| | | (i) subject to subparagraph (ii), with the standards set out in the aerodrome standards and recommended practices publications, as they read on the date on which the airport certificate was issued, (ii) in respect of any part or facility of the airport that has been replaced or improved, with the standards set out in the aerodrome standards and recommended practices publications, as they read on the date on which the part or facility was returned to service, and (iii) with any conditions specified in the airport certificate by the Minister pursuant to | | | | | | |
| 2 | (b) | subsection 302.03(3); without charge, at the request of a Department of Transport inspector, allow access to airport facilities and provide the equipment necessary to conduct an inspection of the airport; | | | | | | |
| 3 | (c) | review each issue of each aeronautical information publication on receipt thereof and, immediately after such review, notify the Minister of any inaccurate information contained therein that pertains to the airport; | | | | | | |
| 4 | (d) | notify the Minister in writing at least 14 days before any change to the airport, the airport facilities or the level of service at the airport that has been planned in advance and that is likely to affect the accuracy of the information contained in an aeronautical information publication; | | | | | | |
| 5 | (e) | as the circumstances require for the purpose of | | | | | | |

| Audit | | | Comply? | | Audit # / | | | | |
|-----------|------------|--|---------|----|-----------|-----|------------|----------|--|
| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | Comments | |
| 11 | (d) | the closure of any part of the maneuvering area of the airport; and | | | | | | | |
| 12 | (e) | any other conditions that could be hazardous to aviation safety at the airport and against which precautions are warranted. | | | | | | | |
| 13 | 302.07 (3) | Where it is not feasible for an operator to cause notice of a circumstance referred to in subsection (2) to be received at the appropriate air traffic control unit or flight service station, the operator shall give immediate notice directly to the pilots who may be affected by that circumstance. | | | | | | | |

ANNEX "D"

Safety Management System (SMS)

SMS Checklist

| Name of Airport | CYYB North Bay Jack Garland Airport |
|-----------------------|-------------------------------------|
| Airport Manager/AE | Mr. Jack Santerre |
| SMS Manager | Mr. Dan Booth |

| Date of Audit | Month DD, YYYY |
|---------------|----------------|
|---------------|----------------|

| Lead Auditor | Mr./Mrs. First Name, Last Name | | | | | |
|--------------|--------------------------------|--|--|--|--|--|
| Audit Team | Company Name | | | | | |
| Address | Street No./Name | | | | | |
| | City, Province | | | | | |
| | Postal Code | | | | | |
| | Phone Number | | | | | |

Regulations Covered

| 106.01 | 107.03 | 302.504 | | |
|--------|---------|---------|--|--|
| 106.02 | 107.04 | 302.505 | | |
| 106.03 | 302.501 | | | |
| 106.04 | 302.502 | | | |
| 107.02 | 302.503 | | | |

CYYB North Bay Jack Garland Airport

| Audit | Audit Regulation Section | | | Coı | mply? | | Audit # / | Comments |
|-----------|--------------------------|---|-----|-----|-------|-----|------------|----------|
| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | Comments |
| | | Accountable Executive Appointment and Acceptance | | | | | | |
| | 106.01 and 106.02 (1) | The applicant for, or the holder of, a certificate issued under section 302.03 shall | | | | | | |
| 1 | (a) | appoint an individual as accountable executive to be responsible for operations or activities authorized under the certificate and accountable on their behalf for meeting the requirements of these Regulations; | | | | | | |
| 2 | (b) | notify the Minister of the name of the person appointed; and | | | | | | |
| 3 | (c) | ensure that the accountable executive submits to the Minister a signed statement that they accept the responsibilities of their position within 30 days after their appointment. | | | | | | |
| 4 | (2) | No person shall be appointed under subsection (1) unless they have control of the financial and human resources that are necessary for the activities and operations authorized under the certificate. | | | | | | |
| | | Accountability | | | | | | |
| 5 | 106.03 | The responsibility and accountability of the accountable executive appointed under subsection 106.02(1) are not affected by the existence of | | | | | | |
| | (a) | a person responsible for the maintenance control system appointed under paragraph $\frac{406.19(1)(a)}{000000000000000000000000000000000000$ | | | | | | |
| | (b) | a person responsible for maintenance appointed | | | | | | |

| Audit | Danielation | Carting | | Cor | nply? | | Audit # / | Community |
|-----------|-------------|--|-----|-----|-------|-----|------------|-----------|
| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | Comments |
| 54 | 302.505 (3) | The person managing the safety management system may assign the management functions for the safety management system referred to in section 302.501 to another person if the assignment and its scope are described in the airport operations manual. | | | | | | |
| 55 | 302.505 (4) | The person to whom management functions have been assigned under subsection (3) shall notify the person managing the safety management system of any systemic deficiency and of the corrective action taken. | | | | | | |
| 56 | 302.505 (5) | The responsibility of the accountable executive is not affected by the appointment of a person to manage the safety management system under paragraph 302.504(b) or the assignment of management functions to another person under subsection (3). | | | | | | |

Safety Management System (SMS)

Audit Date: Month DD, YYYY

TP312 Inspection Checklist

| Name of Airport | (Airport Identifier) Airport Name |
|--------------------|-----------------------------------|
| Airport Manager/AE | Mr./Mrs. First Name, Last Name |
| SMS Manager | Mr./Mrs. First Name, Last Name |

| Lead Auditor | Mr./Mrs. First Name, Last Name |
|--------------|--------------------------------|
| Audit Team | Company Name |
| Address | Street No./Name |
| | City, Province |
| | Postal Code |
| | Phone Number |

Sections Covered

| 2.1 | 3.1 | 3.6 | 5.2 | 6.2 | 7.4 | 8.7 | 9.4 |
|-----|-----|-----|-----|-----|-----|-----|-----|
| 2.2 | 3.2 | 4.1 | 5.3 | 6.3 | 8.1 | 8.8 | 9.6 |
| 2.3 | 3.3 | 4.2 | 5.4 | 7.1 | 8.3 | 8.9 | 9.7 |
| 2.4 | 3.4 | 4.3 | 5.5 | 7.2 | 8.5 | 9.1 | |
| 2.5 | 3.5 | 5.1 | 6.1 | 7.3 | 8.6 | 9.3 | |

| Audit | | | | Cor | mply? | | Audit # / | _ |
|-----------|------------|--|-----|-----|-------|-----|------------|----------|
| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | Comments |
| | | Aerodrome Data | | | | | | |
| | 2.1 | General | | | | | | |
| | 2.1.1 | Units Of Measurement | | | | | | |
| 1 | 2.1.1.1 | Except as specified, elevations shall be given to the nearest foot (0.5 meter). | | | | | | |
| 2 | 2.1.1.2 | Except as specified, linear dimensions shall be given to the nearest one-half metre. | | | | | | |
| 3 | 2.1.1.3 | Except as specified, geographic coordinates shall be given in latitude and longitude to the nearest second. | | | | | | |
| 4 | 2.1.1.4 | Geographic coordinates shall be measured in accordance with the NAD 83 reference datum. | | | | | | |
| 5 | 2.1.1.5 | Except as specified, bearings shall be given to the nearest degree. | | | | | | |
| | 2.2 | Geographic Data | | | | | | |
| | 2.2.1 | Aerodrome Reference Point | | | | | | |
| 6 | 2.2.1.1 | An aerodrome reference point shall be established for an aerodrome where an outer surface is established. | | | | | | |
| 7 | 2.2.1.2 | The aerodrome reference point shall be located near the initial or planned geometric centre of the aerodrome and shall normally remain where first established. | | | | | | |
| | 2.2.2 | Geometric Centre | | | | | | |
| 8 | 2.2.2.1 | The geometric centre shall be determined for an aerodrome to the nearest 1/10 second. | | | | | | |
| 9 | 2.2.2.2 | The geometric centre shall be re-determined if an aerodrome changes its physical characteristics by new runway construction, a runway closure, or altering the length of an existing runway. Runway Threshold Coordinates | | | | | | |
| 10 | 2.2.3.1 | The geographic coordinates of the runway threshold at the centre line shall be determined | | | | | | |

| Audit | Regulation | Continu | | Cor | mply? | | Audit # / | Commonto |
|-----------|------------|---|-----|-----|-------|-----|------------|----------|
| Selection | | Section | Yes | No | N/A | N/C | Identifier | Comments |
| | | width, and surface type; | | | | | | |
| 42 | (b) | length and width of the clearway, if provided; | | | | | | |
| 43 | (c) | dimensions of the take-off flight path area; | | | | | | |
| 44 | (d) | runway threshold and departure end elevations; | | | | | | |
| 45 | (e) | location, height above mean sea level, and | | | | | | |
| | | nature of objects within the take-off flight path | | | | | | |
| | | area identified as obstacles; | | | | | | |
| 46 | (f) | the date the obstacle survey was completed. | | | | | | |
| 47 | 2.3.4.3 | Any new activity resulting in a change to any of | | | | | | |
| | | the items required in 2.3.4.2 shall be reported to | | | | | | |
| | | the Certifying Authority. | | | | | | |
| 48 | 2.3.4.4 | Obstacle information shall be determined by a | | | | | | |
| | | survey of the take-off flight path area. Except as | | | | | | |
| | | specified in 2.3.4.5, the survey shall be repeated | | | | | | |
| | | at a frequency approved by the Certifying | | | | | | |
| | | Authority upon consideration of the level of | | | | | | |
| | | building activity in the runway departure area | | | | | | |
| | | and shall not exceed 5 years between surveys. | | | | | | |
| 49 | 2.3.4.5 | A survey shall not be required if it can be | | | | | | |
| | | ascertained that there are no new obstacles in | | | | | | |
| | | the take-off flight path area and a report is made | | | | | | |
| | | to the Certifying Authority to this effect. | | | | | | |
| 50 | 2.3.4.6 | The take-off flight path area shall consist of a | | | | | | |
| | | quadrilateral area on the surface of the earth | | | | | | |
| | | lying directly below, and symmetrically disposed | | | | | | |
| | | about, the take-off flight path. The area shall | | | | | | |
| | | commence at the end of the area declared | | | | | | |
| | | suitable for take-off (ie. at the end of the runway | | | | | | |
| | | or clearway as appropriate) and extend to the | | | | | | |
| | | point beyond which no significant obstacles | | | | | | |
| | | exist or to a distance of 10.0km whichever is the | | | | | | |
| | | lesser. The width at the point of origin shall be | | | | | | |
| | | 180m and increase at the rate of 0.25D to a | | | | | | |
| | | maximum of 1800m, where D is the distance | | | | | | |
| | | from the point of origin. | | | | | | |

| Audit | Bara Latina | Section | | Coi | mply? | | Audit # / | Comments |
|-----------|-------------|--|-----|-----|-------|-----|------------|----------|
| Selection | Regulation | | Yes | No | N/A | N/C | Identifier | |
| | (e) | snow banks or drifts adjacent to a runway, a | | | | | | |
| | | taxiway or an apron; | | | | | | |
| | (f) | anti-icing or de-icing liquid chemicals on a | | | | | | |
| | | runway or a taxiway; | | | | | | |
| | (g) | other temporary hazards, including parked | | | | | | |
| | | aircraft; | | | | | | |
| | (h) | failure or irregular operation of part or all of the | | | | | | |
| | | aerodrome visual aids; and | | | | | | |
| | (i) | failure of the normal or secondary power | | | | | | |
| | | supply. | | | | | | |
| | 2.5.2 | Runway Surface Condition Reporting | | | | | | |
| 59 | 2.5.2.1 | Information that a runway or portion thereof | | | | | | |
| | | may be slippery when wet shall be made | | | | | | |
| | | available. | | | | | | |
| | 2.5.3 | Rescue and Fire Fighting | | | | | | |
| 60 | 2.5.3.1 | Information concerning the level of protection | | | | | | |
| | | provided at an aerodrome for aircraft rescue and | | | | | | |
| | | fire fighting purposes shall be made available. | | | | | | |
| 61 | 2.5.3.3 | Significant changes in the level of protection | | | | | | |
| | | normally available at an aerodrome for rescue | | | | | | |
| | | and fire fighting shall be notified to the | | | | | | |
| | | appropriate air traffic services units and | | | | | | |
| | | aeronautical information units to enable those | | | | | | |
| | | units to provide the necessary information to | | | | | | |
| | | arriving and departing aircraft. When such a | | | | | | |
| | | change has been corrected, the above units shall | | | | | | |
| | | be advised accordingly. | 1 | | 1 | | | |

| Audit | Regulation | Regulation Section | | Coı | mply? | | Audit # / | Comments |
|-----------|------------|---|-----|-----|-------|-----|------------|----------|
| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | comments |
| | | Physical Characteristics | | | | | | |
| | 3.1 | Runways | | | | | | |
| | 3.1.1 | General | | | | | | |
| 62 | 3.1.1.11 | Where parallel runways are provided for simultaneous use under visual meteorological conditions only, the minimum distance between their centre lines shall be: | | | | | | |
| | | 210m where the higher code number is 3 or 4; 150m where the higher code number is 2; and 120m where the higher code number 1. | | | | | | |
| 63 | 3.1.1.12 | Where parallel runways are provided for simultaneous operations under instrument meteorological conditions, the minimum separation distance between their centre lines shall be: 1300m for independent parallel approaches; 760m for dependent parallel approaches; | | | | | | |
| | | 760m for independent parallel departures; 760m for segregated parallel operations; except that for segregated parallel operations the specified separation distance: | | | | | | |
| | (a) | may be decreased by 30m for each 150m that the arrival runway is staggered toward the arriving aircraft, to a minimum of 300m; and | | | | | | |
| | (b) | shall be increased by 30m for each 150m that the arrival runway is staggered away from the arriving aircraft. | | | | | | |

| Audit | Danielatian | Cartian | | Cor | mply? | | Audit # / | Comments |
|-----------|-------------|--|-----|-----|-------|-----|------------|----------|
| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | |
| | | be advised of an area or areas suitable for the parking of an aircraft which is known or believed to be the subject of unlawful interference, or which for other reasons needs isolation from normal aerodrome activities. | | | | | | |
| 101 | 3.6.7.2 | The isolated aircraft parking position shall be located at least 100m from other parking positions, buildings, or public use areas. | | | | | | |

| Audit | Dagulation | egulation Section | | Cor | nply? | | Audit # / | Comments |
|-----------|------------|---|-----|-----|-------|-----|------------|----------|
| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | Comments |
| | | Obstacle Restriction and Removal | | | | | | |
| | 4.1 | Obstacle Limitation Surfaces | | | | | | |
| | 4.1.1 | Outer Surface | | | | | | |
| 102 | 4.1.1.1 | The limits of an Outer Surface shall comprise a common plane established at a constant elevation above the assigned elevation of the aerodrome reference point and extending over a horizontal distance: | | | | | | |
| | | of at least 4000m where the code number is 1, 2 or 3; to be determined by an aeronautical study where the code number is 4, but never less than 4000m; measured from the designated aerodrome reference point or points and extending over an area not less than 180° sector along the runway | | | | | | |
| 103 | 4.1.1.3 | centre line. An outer surface shall be established at 45m above the assigned elevation of the aerodrome reference point except, when the common plane is less than 9m above the ground, an imaginary surface shall be established 9 m above the surface of the ground. (see Figure 4-1) | | | | | | |
| | 4.1.2 | Take-Off /Approach Surface | | | | | | |
| 104 | 4.1.2.1 | The limits of the take–off/approach surface shall comprise: | | | | | | |
| | (a) | an inner edge of specified length perpendicular to and evenly divided on each side of the extended centre line of the runway, beginning at the end of the runway strip; | | | | | | |
| | (b) | two sides originating at the ends of the inner | | | | | | |

| Audit | Danielatian | Cartian | | Comply? | | Audit # / | Community | |
|-----------|-------------|---|-----|---------|-----|-----------|------------|----------|
| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | Comments |
| | | the runway for landing. | | | | | | |
| 125 | 4.2.4.5 | New objects or extensions of existing objects shall not be permitted above a take-off/approach surface or a transitional surface except when, in the opinion of the certifying authority, the new object or extension would be shielded by an existing immovable object. | | | | | | |
| | 4.3 | Other Objects | | | | | | |
| | 4.3.1 | General | | | | | | |
| 126 | 4.3.1.3 | Any transportation corridor underlying an Obstacle Limitation Surface shall be considered as an object. As a minimum, 4.3m shall be allowed above the crown of a road and for a railway, 6m above the top of the rails. The height to be allowed above a waterway, river, canal, etc. shall be established by Aeronautical Study. | | | | | | |

| Audit Selection | Regulation | Section | Comply? | | | | Audit # / | Community |
|--------------------|------------|---|---------|----|-----|-----|------------|-----------|
| | | | Yes | No | N/A | N/C | Identifier | Comments |
| | | Visual Aids for Navigation | | | | | | |
| | 5.1 | Indicators and Signalling Devices | | | | | | |
| | 5.1.1 | Wind Direction Indicators | | | | | | |
| 127 | 5.1.1.1 | An aerodrome shall be equipped with at least | | | | | | |
| | | one wind direction indicator. | | | | | | |
| 128 | 5.1.1.2 | A wind direction indicator shall be located so as | | | | | | |
| | | to be visible from aircraft in flight or on the | | | | | | |
| | | movement area and in such a way as to be free | | | | | | |
| | | from the effects of air disturbances caused by | | | | | | |
| | | nearby objects. | | | | | | |
| 129 | 5.1.1.5 | The height of wind direction indicators shall not | | | | | | |
| | | exceed a height of 7.5m when located in the | | | | | | |
| | | runway strip. | | | | | | |
| 130 | 5.1.1.7 | Provision shall be made for illuminating at least | | | | | | |
| | | one wind indicator at an aerodrome intended for | | | | | | |
| | | use at night. | | | | | | |
| | 5.2 | Markings | | | | | | |
| | 5.2.1 | General | | | | | | |
| 131 | 5.2.1.1 | At an intersection of two (or more) runways the | | | | | | |
| | | marking of the more important runway, except | | | | | | |
| | | for the runway side stripe marking, shall be | | | | | | |
| | | displayed and the markings of the other | | | | | | |
| | | runway(s) shall be interrupted. The runway side | | | | | | |
| | | stripe marking of the more important runway | | | | | | |
| | | may be either continued across the intersection | | | | | | |
| | | or interrupted. | | | | | | |
| 132 | 5.2.1.2 | The order of importance of runways for the | | | | | | |
| | | display of runway markings shall be as follows: | | | | | | |
| | | | | | | | | |
| | | 1st – precision approach runway; | | | | | | |
| | | 2nd – non–precision approach runway; and | | | | | | |
| | | 3rd – non–instrument runway. | | | | | | |
| 133 | 5.2.1.3 | At an intersection of a runway and taxiway the | | | | | | |
| | | markings of the runway shall be displayed and | | | | | | |

| Audit | Regulation | Section | | Co | mply? | | Audit # / Identifier | |
|-----------|------------|--|-----|----|-------|-----|-------------------------|----------|
| Selection | | | Yes | No | N/A | N/C | | Comments |
| | | threshold of a paved runway where the width is | | | | | | |
| | | 23m or greater. | | | | | | |
| 148 | 5.2.4.4 | The stripes of the threshold marking shall | | | | | | |
| | | commence 6 m from the threshold. | | | | | | |
| 149 | 5.2.4.5 | Where a runway threshold is located on another | | | | | | |
| | | runway (for example a "T" configuration), the | | | | | | |
| | | threshold marking shall be located at a distance | | | | | | |
| | | from the threshold equal to the width of the | | | | | | |
| | | other runway. | | | | | | |
| 150 | 5.2.4.6 | A runway threshold marking shall consist of a | | | | | | |
| | | pattern of longitudinal stripes of uniform | | | | | | |
| | | dimensions disposed symmetrically about the | | | | | | |
| | | centre line of a runway as shown in Figure 5–3. | | | | | | |
| | | The number of stripes shall be in accordance with | | | | | | |
| | | the runway width as follows: | | | | | | |
| | | Runway width Number of stripes | | | | | | |
| | | 18m 4 | | | | | | |
| | | 23m 6 | | | | | | |
| | | 30m 8 | | | | | | |
| | | 45m 12 | | | | | | |
| | | 60m 16 | | | | | | |
| 151 | 5.2.4.7 | The stripes shall extend laterally to within 3m of | | | | | | |
| | | the edge the runway. The stripes shall be | | | | | | |
| | | separated into two groups separated by at least | | | | | | |
| | | 3.6m. The stripes shall be 30m long and | | | | | | |
| | | approximately 1.80m wide with spacings of | | | | | | |
| | | approximately 1.80m between them. | | | | | | |
| 152 | 5.2.4.8 | , | | | | | | |
| | | with the runway centre line or where a runway | | | | | | |
| | | threshold is permanently displaced from the | | | | | | |
| | | extremity of a runway, a transverse stripe as | | | | | | |
| | | shown in Figure 5–4 shall be added to the | | | | | | |
| | | threshold marking. | | | | | | |
| 153 | 5.2.4.10 | A transverse stripe shall be not less than 1.80m | | | | | | |
| | | wide. | | | | | | |

| Audit Selection | Regulation | Section | | Coi | mply? | | Audit # / Identifier | 0 |
|--------------------|------------|---|-----|-----|-------|-----|-------------------------|----------|
| | | | Yes | No | N/A | N/C | | Comments |
| | 5.2.16 | Information Marking | | | | | | |
| 184 | 5.2.16.4 | The marking shall be yellow. | | | | | | |
| | 5.3 | Lights | | | | | | |
| | 5.3.1 | General | | | | | | |
| 184 | 5.3.1.1 | A non–aeronautical ground light near an aerodrome which might endanger the safety of aircraft shall be extinguished, screened or otherwise modified so as to eliminate the source of danger. | | | | | | |
| 186 | 5.3.1.3 | Elevated approach lights and their supporting structures within 300m from the threshold (but not including the 300m crossbar), or up to a distance from the runway end where the approach lights no longer constitute the major hazard to an aircraft overrunning the runway end to an airborne aircraft inadvertently striking them, whichever distance is less, shall be frangible. | | | | | | |
| 187 | 5.3.1.5 | An elevated approach light fixture shall not penetrate an obstacle limitation surface. | | | | | | |
| 188 | 5.3.1.6 | When an approach light fixture or supporting structure is not in itself sufficiently conspicuous, it shall be suitably marked in accordance with Standards Obstruction Markings, TP 382. | | | | | | |
| 189 | 5.3.1.7 | Elevated runway, stopway and taxiway lights shall be frangible. Their height shall be sufficiently low to preserve clearance for propellers and for the engine pods of jet aircraft. | | | | | | |
| 190 | 5.3.1.8 | Light fixtures inset in the surface of runways, stopways, taxiways and aprons shall be so designed and fitted as to withstand being run over by the wheels of an aircraft without damage either to the aircraft or to the lights themselves. | | | | | | |
| 191 | 5.3.1.10 | The intensity of runway lighting shall be adequate for the minimum conditions of visibility | | | | | | |

| Audit Selection | Regulation | Section | | Co | mply? | | Audit # / Identifier | |
|--------------------|------------|--|-----|----|-------|-----|-------------------------|----------|
| | | | Yes | No | N/A | N/C | | Comments |
| | | independently of the other lights of the approach | | | | | | |
| | | lighting system. | | | | | | |
| 219 | 5.3.5.24 | The lights shall be in accordance with the | | | | | | |
| | | specifications of Appendix B, section B.1.1. | | | | | | |
| 220 | 5.3.5.25 | The lights shall be aligned laterally with their | | | | | | |
| | | beam axis parallel to the extended runway centre | | | | | | |
| | | line. The vertical alignment of lights shall be in | | | | | | |
| | | accordance with Table 5-3 and Figure 5-14. | | | | | | |
| 221 | 5.3.5.26 | The precision approach category I lighting system | | | | | | |
| | | shall have a variable intensity control, either | | | | | | |
| | | medium (3 intensity settings) or high (5 intensity | | | | | | |
| | | settings) in accordance with the specifications of | | | | | | |
| | | Table 5–2. | | | | | | |
| 222 | 5.3.5.27 | A precision approach category II or III lighting | | | | | | |
| | | system shall be installed on the extended centre | | | | | | |
| | | line of the runway extending over a distance of | | | | | | |
| | | 720m as shown in Figure 5-12 and shall consist | | | | | | |
| | | of: | | | | | | |
| | (a) | 24 centre line barrettes placed at longitudinal | | | | | | |
| | | intervals of 30m with the innermost barrette | | | | | | |
| | | located 30m from the threshold; | | | | | | |
| | (b) | 9 side row light barrettes placed on each side of, | | | | | | |
| | | and aligned with the first 9 centre line barrettes | | | | | | |
| | | described in (a). The lateral spacing (or gauge) | | | | | | |
| | | between the innermost light of the side row shall | | | | | | |
| | | be not less than 18m nor more than 22.5m ,and | | | | | | |
| | | preferably 18m, but in any event shall be equal | | | | | | |
| | | to that of the touchdown zone lighting. | | | | | | |
| | (c) | crossbars located 150m and 300m from the | | | | | | |
| | | runway threshold; and | | | | | | |
| | (d) | 15 sequenced flashing capacitor discharge lights | | | | | | |
| | | located on the extended runway centre line with | | | | | | |
| | | each one mounted no greater than 1.5m in front | | | | | | |
| | | of a centre line barrette as described in (a), and | | | | | | |
| | | with the innermost located with the barrette | | | | | | |

| Audit Selection | Regulation | Section | | Coi | mply? | | Audit # / Identifier | |
|--------------------|------------|---|-----|-----|-------|-----|----------------------|----------|
| | | | Yes | No | N/A | N/C | | Comments |
| | | angle of elevation 3.1 degrees. | | | | | | |
| 309 | 5.3.11.22 | Runway threshold and wing bar light shall be | | | | | | |
| | | aligned laterally with their beam axis parallel to | | | | | | |
| | | the runway centre line. | | | | | | |
| 310 | 5.3.11.23 | Runway threshold and wing bar light mountings | | | | | | |
| | | shall be frangible. | | | | | | |
| | 5.3.12 | Runway End Lights | | | | | | |
| 311 | 5.3.12.1 | Runway end lights shall be provided for a runway | | | | | | |
| | | equipped with runway edge lights. | | | | | | |
| 312 | 5.3.12.2 | Runway end lights on a runway less than 45m in | | | | | | |
| | | width shall consist of six lights arranged in two | | | | | | |
| | | groups, and on a runway 45m and greater in | | | | | | |
| | | width, eight lights arranged in two groups. | | | | | | |
| 313 | 5.3.12.3 | Runway end lights shall be placed on a line at | | | | | | |
| | | right angles to the runway axis as near to the end | | | | | | |
| | | of the runway as possible and, in any case, not | | | | | | |
| | | more than 3m outside of the end. | | | | | | |
| 314 | 5.3.12.4 | Runway end lighting shall be placed in two | | | | | | |
| | | groups symmetrically disposed about the runway | | | | | | |
| | | centre line with the outermost runway end lights | | | | | | |
| | | positioned to align with the runway edge lights | | | | | | |
| 315 | 5.3.12.5 | and the remainder spaced at intervals of 3m. Runway end lights shall be fixed unidirectional | | | | | | |
| 212 | 5.5.12.5 | lights showing red in the direction of the runway. | | | | | | |
| | | The intensity and beam spread of the lights shall | | | | | | |
| | | be adequate for the conditions of visibility and | | | | | | |
| | | ambient light in which use of the runway is | | | | | | |
| | | intended. | | | | | | |
| 316 | 5.3.12.6 | Runway end lights on a precision approach | | | | | | |
| | 3.3.22.0 | runway shall be in accordance with the | | | | | | |
| | | specifications of Appendix B, section B.1.9. | | | | | | |
| 317 | 5.3.12.7 | Runway end light mountings shall be frangible. | | | | | | |
| | 5.3.13 | Runway Centre Line Lights | | | | | | |
| 318 | 5.3.13.1 | Runway centre line lights shall be provided on a | | | | | | |
| | | precision approach runway category II or III. | | | | | | |

| Audit | Dogulation | Cashian | | Co | mply? | | Audit # / | Comments |
|-----------|------------|---|-----|----|-------|-----|------------|----------|
| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | Comments |
| 349 | 5.3.17.7 | The intersection of a taxiway with an apron shall | | | | | | |
| | | be indicated by placing two yellow edge lights on | | | | | | |
| | | each side of and adjacent to the taxiway/apron | | | | | | |
| | | intersection. | | | | | | |
| 350 | 5.3.17.8 | The two lights provided in accordance with | | | | | | |
| | | 5.3.17.6 and 5.3.17.7 shall be located so that one | | | | | | |
| | | light is positioned in line with the other edge | | | | | | |
| | | lights. The second shall be positioned not more | | | | | | |
| | | than 0.6m from the first, and aligned to be | | | | | | |
| | | equidistant from the edge(s) of the pavement on | | | | | | |
| | | each side of the first light. | | | | | | |
| 351 | 5.3.17.9 | Taxiway edge lights shall be fixed lights showing | | | | | | |
| | | blue. The lights shall show up to at least 30° | | | | | | |
| | | above the horizontal and at all angles in azimuth | | | | | | |
| | | necessary to provide guidance to a pilot taxiing in | | | | | | |
| | | either direction. At an intersection, exit or curve | | | | | | |
| | | the lights shall be shielded as far as practicable so | | | | | | |
| | | that they cannot be seen in angles of azimuth in | | | | | | |
| | | which they may be confused with other lights. | | | | | | |
| 352 | 5.3.17.10 | Taxiway edge light mountings shall be frangible | | | | | | |
| | 5.3.18 | Stop Bars | | | | | | |
| 353 | 5.3.18.1 | A stop bar shall be provided at every taxi-holding | | | | | | |
| | | position serving a runway when it is intended | | | | | | |
| | | that the runway will be used in runway visual | | | | | | |
| | | range conditions less than a value of the order of | | | | | | |
| | | 1400ft (400m) except where operational | | | | | | |
| | | procedures exist to limit to one at any time the | | | | | | |
| | | number of aircraft on the manoeuvring area. | | | | | | |
| 354 | 5.3.18.5 | Stop bars shall be located across the taxiway at | | | | | | |
| | | the point where it is desired that traffic stop. | | 1 | | | | |
| | | Where the additional lights specified in 5.3.18.4 | | | | | | |
| | | are provided, these lights shall be located not | | | | | | |
| | | less than 3m from the taxiway edge. | | | | | | |
| 355 | 5.3.18.6 | Stop bars shall consist of lights spaced at | | | | | | |
| | | intervals of 3m across the taxiway showing red in | | | | | | |

| Audit | Danielatian | Continu | | Cor | mply? | | Audit # / | 6 |
|-----------|-------------|--|-----|-----|-------|-----|------------|----------|
| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | Comments |
| | | wheels of an aircraft without damage either to | | | | | | |
| | | the aircraft or to the markers themselves. | | | | | | |
| | 5.5.8 | Boundary Markers | | | | | | |
| 462 | 5.5.8.1 | Boundary markers shall be provided at an | | | | | | |
| | | aerodrome where the landing area has no | | | | | | |
| | | runway. | | | | | | |
| 463 | 5.5.8.2 | Boundary markers shall be spaced along the | | | | | | |
| | | boundary of the landing area at intervals of not | | | | | | |
| | | more than 200m, if a pyramid type is used, or | | | | | | |
| | | approximately 90m, if a conical type is used, with | | | | | | |
| | | a marker at any corner. | | | | | | |

| Audit | Danielation | Cartian | | Cor | mply? | | Audit # / | Comments |
|-----------|-------------|--|-----|-----|-------|-----|------------|----------|
| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | Comments |
| | | Visual Aids for Denoting Obstacles | | | | | | |
| | 6.1 | Objects to be Marked and/or Lighted | | | | | | |
| | 6.1.1 | Objects On Movement Areas | | | | | | |
| 464 | 6.1.1.1 | Vehicles and other mobile objects, excluding | | | | | | |
| | | aircraft, on the manoeuvring area of an | | | | | | |
| | | aerodrome are obstacles and shall be marked | | | | | | |
| | | and, if the vehicle and aerodrome are used at | | | | | | |
| | | night or in conditions of low visibility, lighted. | | | | | | |
| 465 | 6.1.1.3 | Elevated aeronautical ground lights within the | | | | | | |
| | | movement area shall be marked so as to be | | | | | | |
| | | conspicuous by day. | | | | | | |
| | 6.1.2 | Objects On Runway Strips | | | | | | |
| 466 | 6.1.2.1 | , , | | | | | | |
| | | marked and if the aerodrome is used at night, | | | | | | |
| | | lighted, excluding visual aids that are by their | | | | | | |
| | | nature visually conspicuous. | | | | | | |
| | 6.1.3 | Other Objects | | | | | | |
| 467 | 6.1.3.4 | A fixed object that extends above an obstacle | | | | | | |
| | | protection surface shall be marked and, if the | | | | | | |
| | | runway is used at night, lighted. | | | | | | |
| 468 | 6.1.3.5 | · · · · · · · · · · · · · · · · · · · | | | | | | |
| | | in Table 3–1, column 5 from the centre line of a | | | | | | |
| | | taxiway or an apron taxiway shall be marked and, | | | | | | |
| | | if the taxiway or apron taxiway is used at night, | | | | | | |
| 150 | 6406 | lighted. | | | | | | |
| 469 | 6.1.3.6 | All elevated objects within the distance specified | | | | | | |
| | | in 3.6.6.1 from the centre line of an aircraft stand | | | | | | |
| | | taxilane shall be marked and, if the aircraft stand | | | | | | |
| | 6.3 | taxilane is used at night, lighted. | | | | | | |
| 470 | 6.2 | Marking Of Objects | | | | | | |
| 470 | 6.2.1.1 | All fixed objects to be marked shall, whenever | | | | | | |
| | | possible, be coloured but if this is not possible, | | | | | | |
| | | markers or flags shall be displayed on or above | | | | | | |

| Audit | De sulation | Continu | | Cor | mply? | | Audit # / | Comments |
|-----------|-------------|---|-----|-----|-------|-----|------------|----------|
| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | Comments |
| | | than 0.9m on a side. | | | | | | |
| 477 | 6.2.2.4 | Flags used to mark mobile objects shall consist of | | | | | | |
| | | a chequered pattern, each square having sides of | | | | | | |
| | | not less than 0.3m. The colours of the pattern | | | | | | |
| | | shall contrast with each other and with the | | | | | | |
| | | background against which they will be seen. | | | | | | |
| | | Orange and white, or alternately, red and white | | | | | | |
| | | shall be used, except where such colours merge | | | | | | |
| | | with the background. | | | | | | |
| | 6.3 | Lighting Of Objects | | | | | | |
| 478 | 6.3.1.1 | All fixed objects to be lighted shall be lighted in | | | | | | |
| | | accordance with the standards contained within | | | | | | |
| | | Transport Canada publication, TP 382E, Standard | | | | | | |
| | | Obstruction Markings Manual. | | | | | | |
| | 6.3.2 | Mobile Objects | | | | | | |
| 479 | 6.3.2.1 | Mobile objects to be lighted shall display flashing | | | | | | |
| | | yellow lights except for vehicles associated with | | | | | | |
| | | an emergency which shall display flashing red, or | | | | | | |
| | | flashing red and flashing yellow. The flash | | | | | | |
| | | frequency shall be between 60 and 90 per | | | | | | |
| | | minute. The effective intensity of the flash shall | | | | | | |
| | | be not less than 40cd of red or yellow light. | | | | | | |
| 480 | 6.3.2.2 | Objects with limited mobility such as aerobridges | | | | | | |
| | | shall be marked with steady red low intensity | | | | | | |
| | | obstruction lighting. | | | | | | |

| Audit | Deculation | Section | | Cor | mply? | | Audit # / | Comments |
|-----------|------------|---|-----|-----|-------|-----|------------|----------|
| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | Comments |
| | | Visual Aids for Denoting Restricted Use Areas | | | | | | |
| | 7.1 | Closed Runways And Taxiways Or Parts Thereof | | | | | | |
| | 7.1.1 | Closed Markings | | | | | | |
| 481 | 7.1.1.1 | A closed marking shall be displayed on a runway | | | | | | |
| | | or taxiway, or portion thereof, which is | | | | | | |
| | | permanently closed to the use of all aircraft. | | | | | | |
| 482 | 7.1.1.3 | On a runway a closed marking shall be placed at | | | | | | |
| | | each end of the runway, or portion thereof, | | | | | | |
| | | declared closed, and additional markings shall be | | | | | | |
| | | so placed that the maximum interval between | | | | | | |
| | | markings does not exceed 300m. On a taxiway a | | | | | | |
| | | closed marking shall be placed at least at each | | | | | | |
| | | end of the taxiway or portion thereof closed. | | | | | | |
| 483 | 7.1.1.4 | The closed marking shall be of the form and | | | | | | |
| | | proportions as detailed in Figure 7–1, Illustration | | | | | | |
| | | A, when displayed on a runway, and proportions | | | | | | |
| | | as detailed in Figure 7–1, Illustration B when | | | | | | |
| | | displayed on a taxiway. The marking shall be | | | | | | |
| | | white when displayed on a runway and shall be | | | | | | |
| | | yellow when displayed on a taxiway. | | | | | | |
| 484 | 7.1.1.5 | When a runway or taxiway or portion thereof is | | | | | | |
| | | permanently closed, all normal runway and | | | | | | |
| | | taxiway markings shall be obliterated. | | | | | | |
| | 7.1.2 | Lighting | | | | | | |
| 485 | 7.1.2.1 | Lighting on a closed runway or taxiway or portion | | | | | | |
| | | thereof shall not be operated, except as required | | | | | | |
| | | for maintenance purposes. | | | | | | |
| 486 | 7.1.2.2 | In addition to closed markings, when the runway | | | | | | |
| | | or taxiway or portion thereof closed is | | | | | | |
| | | intercepted by a usable runway or taxiway which | | | | | | |
| | | is used at night, unserviceability lights shall be | | | | | | |
| | | placed across the entrance to the closed area at | | | | | | |
| | | intervals not exceeding 3m (see 7.4.2). | | | | | | |
| | 7.2 | Non-Load Bearing Surfaces | | | | | | |

| Audit | Day Latin | 0 | | Comply? | | Audit # / | 0 | |
|-----------|------------|---|-----|---------|-----|-----------|------------|----------|
| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | Comments |
| | | intervals sufficiently close so as to delineate the | | | | | | |
| | | unserviceable area. | | | | | | |
| 495 | 7.4.1.3 | Unserviceability markers shall consist of | | | | | | |
| | | conspicuous upstanding devices such as flags, | | | | | | |
| | | cones, or marker boards. | | | | | | |
| | 7.4.2 | Unserviceability Lights | | | | | | |
| 496 | 7.4.2.1 | Unserviceability lights shall be displayed | | | | | | |
| | | wherever any portion of a taxiway, apron or | | | | | | |
| | | holding bay used at night is unfit for the | | | | | | |
| | | movement of aircraft but it is still possible for | | | | | | |
| | | aircraft to bypass the area safely. | | | | | | |
| 497 | 7.4.2.2 | Un-serviceability lights shall be placed at intervals | | | | | | |
| | | sufficiently close so as to delineate the | | | | | | |
| | | unserviceable area. | | | | | | |
| 498 | 7.4.2.3 | An un-serviceability light shall consist of a red | | | | | | |
| | | fixed light. The red fixed light shall have an | | | | | | |
| | | intensity sufficient to ensure conspicuity | | | | | | |
| | | considering the intensity of the adjacent lights | | | | | | |
| | | and the general level of illumination against | | | | | | |
| | | which it would normally be viewed. In no case | | | | | | |
| | | shall the intensity be less than 10cd of red light. | | | | | | |

| Audit | Dogulation | Castian | | Cor | mply? | | Audit # / | Commonts |
|-----------|------------|---|-----|-----|-------|-----|------------|----------|
| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | Comments |
| | | Equipment, Installations and Operations | | | | | | |
| | 8.1 | Electrical Systems | | | | | | |
| | 8.1.1 | Secondary Power Supply | | | | | | |
| 499 | 8.1.1.4 | Requirements for a secondary power supply shall be met by either of the following: | | | | | | |
| | | independent public power, which is a source of power supplying the aerodrome service from a substation other than the normal substation through a transmission line following a route different from the normal power supply route and such that the possibility of a simultaneous failure of the normal and independent public power supplies is extremely remote; or standby power unit(s), which are engine generators, batteries, etc., from which electric power can be obtained. | | | | | | |
| 500 | 8.1.1.7 | For a precision approach runway, a secondary power supply capable of meeting the requirements of Table 8-1 for the appropriate category of precision approach runway shall be provided. | | | | | | |
| 501 | 8.1.1.8 | For a runway intended to be used for take-off with an operating minimum below an RVR of the order of 1400ft (400m), a secondary power supply capable of meeting the relevant requirements of Table 8-1 shall be provided. | | | | | | |
| 502 | 8.1.1.9 | Where secondary power is provided, the following aerodrome visual aids shall be provided with a secondary power source: | | | | | | |
| | (a) | Precision approach category I lighting systems; | | | | | | |
| | (b) | Precision approach category II and III lighting systems; | | | | | | |

| Audit | Desidetie | Continu | | Comply? Audit # / | | Audit # / | 0 | |
|-----------|------------|---|-----|-------------------|-----|-----------|------------|----------|
| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | Comments |
| 544 | 8.9.1.2 | The taxi-holding position marking specified in 8.9.1.1(a) shall be 90° to the intersected runway centre line and located at a distance not less than 60m from the nearest edge of the intersecting runway. | | | | | | |
| 545 | 8.9.1.3 | Where SIRO operations are authorized at night, the signs required in 8.9.1.1(b) shall be illuminated in accordance with 5.4.1.7 and 5.4.1.10. | | | | | | |
| 546 | 8.9.1.5 | Stop bars installed in accordance with 8.9.1.4 shall be capable of being switched on or off by air traffic services. | | | | | | |
| 547 | 8.9.1.6 | Stop bars installed in accordance with 8.9.1.4 shall not be illuminated during periods when the full length of the runway is available. | | | | | | |
| 548 | 8.9.1.7 | When SIRO procedures are authorized, the reduced landing distance available (LDA) on the intersected runway, shall be determined as the distance between the threshold or displaced threshold as applicable, and the taxi-holding position marking. | | | | | | |

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|-----------|--------------|---|-----|-----|-------|-----|------------|----------|
| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | Comments |
| | | Emergency and Other Services | | | | | | |
| | 9.1 | Aerodrome Emergency Planning | | | | | | |
| | | (Refer to CAR) | | | | | | |
| | 9.3 | Disabled Aircraft Removal | | | | | | |
| | 9.3.2 | Removal Of Disabled Aircraft From Operational Areas | | | | | | |
| 549 | 9.3.2.1 | Where a disabled aircraft is on a part of an aerodrome that interferes with the movement of other aircraft, the disabled aircraft shall be moved as quickly as is consistent with the safety of life and property. | | | | | | |
| | 9.4 | Maintenance | | | | | | |
| | 9.4.1 | General | | | | | | |
| 550 | 9.4.1.1 | A maintenance programme including preventive maintenance where appropriate shall be established at an aerodrome to maintain facilities in a condition which does not impair the safety, regularity or efficiency of air navigation. | | | | | | |
| | 9.4.2 | Pavements | | | | | | |
| 551 | 9.4.2.3 | For a runway serving turbojet aeroplanes, measurements of the friction characteristics of a runway surface shall be made periodically with a continuous friction measuring device using selfwetting features. | | | | | | |
| 552 | 9.4.2.4 | Corrective maintenance action shall be taken when: | | | | | | |
| | (a) | runway is below 0.50; or | | | | | | |
| EF2 | (b) | metres or greater in length have an average coefficient of friction less than 0.30. | | | | | | |
| 553 | 9.4.2.5 | Corrective maintenance action shall be | | | 1 | | | |

| Audit | See letter | Control | | Cor | mply? | | Audit # / | 0 |
|-----------|------------|--|-----|-----|-------|-----|------------|----------|
| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | Comments |
| | | local regulations. | | | | | | |
| 561 | 9.6.1.7 | An aircraft stand shall be visually monitored to ensure that the recommended clearances distances are provided to an aircraft using the stand. | | | | | | |
| | 9.7 | Ground Servicing Of Aircraft | | | | | | |
| | 9.7.1 | General | | | | | | |
| 562 | 9.7.1.1 | Fire extinguishing equipment suitable for at least initial intervention in the event of a fuel fire and personnel trained in its use shall be readily available during the ground servicing of an aircraft, and there shall be a means of quickly summoning the emergency response service in the event of a fire or major fuel spill. | | | | | | |
| 563 | 9.7.1.2 | When aircraft refueling operations take place while passengers are embarking, on board or disembarking, ground equipment shall be positioned so as to allow: | | | | | | |
| | (a) | the use of a sufficient number of exits for expeditious evacuation; and | | | | | | |
| | (b) | a ready escape route from each of the exits to be used in an emergency. | | | | | | |

Safety Management System (SMS)

Audit Date: Month DD, YYYY

Airport Wildlife Planning and Management Checklist

| Name of Airport | CYYB North Bay Jack Garland Airport |
|--------------------|-------------------------------------|
| Airport Manager/AE | Mr. Jack Santerre |
| SMS Manager | Mr. Dan Booth |

| Date of Audit | Month DD, YYYY | |
|----------------------|----------------|--|
|----------------------|----------------|--|

| Lead Auditor | mr./Mrs. First Name, Last Name | | | |
|---------------------|--------------------------------|--|--|--|
| Audit Team | Company Name | | | |
| Address | Street No./Name | | | |
| | City, Province | | | |
| | Postal Code | | | |
| | Phone Number | | | |

Sections Covered

| 302.302 | 302.307 | 322.308 | | |
|---------|---------|---------|--|--|
| 302.303 | 302.308 | | | |
| 302.304 | 322.305 | | | |
| 302.305 | 322.306 | | | |
| 302.306 | 322.307 | | | |

| Audit | Danislatian | Continu | | Cor | nply? | | Audit # / | Commonto |
|-----------|-------------|--|-----|-----|-------|-----|------------|----------|
| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | Comments |
| | | Airport Wildlife Planning and Management | | | | | | |
| | 302.302 (1) | Subject to subsection (2), this Division applies to | | | | | | |
| | | airports | | | | | | |
| | (a) | that, within the preceding calendar year, had | | | | | | |
| | | 2 800 movements of commercial passenger- | | | | | | |
| | | carrying aircraft operating under <u>Subpart 4</u> or <u>5</u> | | | | | | |
| | | of Part VII; | | | | | | |
| | (b) | that are located within a built-up area; | | | | | | |
| | (c) | that have a waste disposal facility within 15 km | | | | | | |
| | | of the geometric centre of the airport; | | | | | | |
| | (d) | that had an incident where a turbine-powered | | | | | | |
| | | aircraft collided with wildlife other than a bird | | | | | | |
| | | and suffered damage, collided with more than | | | | | | |
| | | one bird or ingested a bird through an engine; or | | | | | | |
| | (e) | where the presence of wildlife hazards, including | | | | | | |
| | | those referred to in section 322.302 of the | | | | | | |
| | | Airport Standards—Airport Wildlife Planning and | | | | | | |
| | | Management, has been observed in an airport | | | | | | |
| | | flight pattern or movement area. | | | | | | |
| | | (2) Section 302.303 applies to all airports. | | | | | | |
| | | Wildlife Strikes | | | | | | |
| | 302.303 (1) | The operator of an airport shall keep records of | | | | | | |
| | | all wildlife strikes at the airport, including those | | | | | | |
| | () | reported by | | | | | | |
| 1 | (a) | pilots; | | | | | | |
| 2 | (b) | ground personnel; and | | | | | | |
| 3 | (c) | aircraft maintenance personnel when they | | | | | | |
| | | identify damage to an aircraft as having been | | | | | | |
| | | caused by a wildlife strike. | | | | | | |
| 4 | 302.303 (2) | Wildlife remains that are found within 200 feet of | | | | | | |
| | | a runway or an airside pavement area are | | | | | | |
| | | presumed to be a wildlife strike unless another | | | | | | |
| | | cause of death is identified. | | | | | | |

| Audit | Do sulation | Section | Comply? | | | | Audit # / | 0 |
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| Selection | Regulation | | Yes | No | N/A | N/C | Identifier | Comments |
| | | community airport radio station or universal communications (UNICOM); or | | | | | | |
| 62 | (c) | publication of a NOTAM in respect of the airport, whether in combination or not with the procedure referred to in paragraph (a) or (b). | | | | | | |

Safety Management System (SMS)

Audit Date: Month DD, YYYY

Winter Maintenance Checklist

| Name of Airport | CYYB North Bay Jack Garland Airport |
|-----------------|-------------------------------------|
| Airport Manager | Mr. Jack Santerre |
| SMS Manager | Mr. Dan Booth |

| Date of Audit | Month DD, YYYY |
|---------------|----------------|
|---------------|----------------|

| Lead Auditor | Mr./Mrs. First Name, Last Name | | | | | |
|--------------|--------------------------------|--|--|--|--|--|
| Audit Team | Company Name | | | | | |
| Address | Street No./Name | | | | | |
| | City, Province | | | | | |
| | Postal Code | | | | | |
| | Phone Number | | | | | |

Sections Covered

| 302.402 | 302.407 | 322.403 | 322.408 | |
|---------|---------|---------|---------|--|
| 302.403 | 302.408 | 322.404 | 322.409 | |
| 302.404 | 302.409 | 322.405 | | |
| 302.405 | 302.410 | 322.406 | | |
| 302.406 | 302.411 | 322.407 | | |

| Audit | See Jarre | Control | | Co | mply? | | Audit # / | |
|-----------|-------------|---|-----|----|-------|-----|------------|----------|
| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | Comments |
| | | Airport Winter Maintenance and Planning | | | | | | |
| | 302.402 (1) | Sections 302.403 to 302.410 apply in respect of | | | | | | |
| | | airports where aircraft are operated in an air | | | | | | |
| | | transport service under Subpart 4 or 5 of Part VII. | | | | | | |
| | 302.402 (2) | Sections 302.403 to 302.410 do not apply in | | | | | | |
| | | respect of an airport that is certified | | | | | | |
| | (a) | as a result of its location in a built-up area; or | | | | | | |
| | (b) | in the public interest. | | | | | | |
| | 302.402 (3) | Despite subsection (2), sections 302.403 to | | | | | | |
| | | 302.410 apply in respect of airports referred to in | | | | | | |
| | | subsection (2) where aircraft are operated in an | | | | | | |
| | | air transport service under Subpart 4 or 5 of Part | | | | | | |
| | | VII. | | | | | | |
| | | Airport Winter Maintenance Plan | | | | | | |
| 1 | 302.403 (1) | The operator of an airport shall, after | | | | | | |
| | | consultation with a representative sample of the | | | | | | |
| | | air operators that use the airport, develop and | | | | | | |
| | | maintain an airport winter maintenance plan. | | | | | | |
| | 302.403 (2) | The operator of the airport shall | | | | | | |
| 2 | (a) | keep at the airport, in the format of a manual, a | | | | | | |
| | | copy of an updated version of its airport winter | | | | | | |
| | | maintenance plan; and | | | | | | |
| 3 | (b) | make a copy of it available to the Minister on | | | | | | |
| | | request by the Minister. | | | | | | |
| | 302.403 (3) | The operator of the airport shall | | | | | | |
| 4 | (a) | review the airport winter maintenance plan | | | | | | |
| | | every year; | | | | | | |
| 5 | (b) | amend it as necessary, after consultation with a | | | | | | |
| | | representative sample of the air operators that | | | | | | |
| | | use the airport; and | | | | | | |
| 6 | (c) | submit any amendments made under paragraph | | | | | | |
| | | (b) to the Minister, on request by the Minister. | | | | | | |

| Audit | Danielatian | Continu | | Co | mply? | | Audit # / | Carramanta |
|-----------|-------------|---|-----|----|-------|-----|------------|------------|
| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | Comments |
| | | (vii) visibility of lights installed as visual aids associated with the primary runway; (viii) visibility and legibility of mandatory signs on taxiways(s) in (iii); and (ix) the approach aids, including glide path site. | | | | | | |
| 56 | (b) | Priority II Areas - Secondary Runway System winter maintenance shall include the following: (i) the full length of at least one secondary runway; (ii) the width of the secondary runway(s) required to support the operational requirement of the airport movements during the storm; (iii) taxiway(s), including entrance and exit access areas, to accommodate traffic to and from the secondary runway(s); (iv) visibility of lights installed as visual aids associated with the secondary runway(s) and taxiways; and (v) visibility and legibility of mandatory signs on the additional taxiways(s) in (iii). | | | | | | |
| 57 | (c) | Priority III Areas - as soon as ground conditions permit, post-storm winter maintenance shall include the following,: (i) Pre- threshold Areas (A) Width - the width of the runway plus the profile outlined in Diagram I; (B) Length - the distance from the end of | | | | | | |

| Audit | Danislatian | ion Continu | | Comply? | | | | | Audit # / | 0 |
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| Selection | Regulation | Section | Yes | No | N/A | N/C | Identifier | Comments | | |
| 120 | (b) | ensure the identification and use of the applicable radio frequencies; | | | | | | | | |
| 121 | (c) | ensure that standard terminology is established to transmit information; and | | | | | | | | |
| 122 | (d) | immediately forward CFRI readings of 0.30 or less to the communications provider referred to in (a). | | | | | | | | |
| 123 | 322.409 (2) | The plan shall establish procedures to control the flow of vehicles, during Winter Maintenance operations at the airport, that ensures the safety of other vehicles, aircraft and individuals. | | | | | | | | |