

Level of Service

Terms of Reference

Review of Navigation Requirements

in the vicinity of

Lloydminster, Peace River, and Rocky Mountain House,
Alberta

NAV CANADA
Level of Service
151 Slater Street
Ottawa, ON K1P 5H3

October 2024

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1. Purpose

The objective of this Terms of Reference is to initiate an Aeronautical Study (the “Study”) to review the requirements for the Lloydminster (YLL) Non-Directional Beacon (NDB) and Peace River (YPE) and Rocky Mountain House (YRM) Very High Frequency (VHF) Omnidirectional Range (VOR)/Distance Measuring Equipment (DME), in the province of Alberta.

2. Scope of Study

The Study will assess the requirements for the following Navigation Aids (NAVAID):

- Lloydminster (YLL) NDB
- Peace River (YPE) VOR/DME
- Rocky Mountain House (YRM) VOR/DME

The study will include formal stakeholder consultations to determine if any issues exist and what mitigations may be required if a recommendation is made to decommission the Lloydminster, Peace River, and/or Rocky Mountain House NAVAIDs.

3. Background

The Lloydminster NDB and Peace River VOR/DME are associated with conventional instrument approach procedures (IAPs). Area Navigation (RNAV) IAPs are published at both aerodromes with lower minimum descent altitudes (MDAs) than the conventional IAPs.

The Peace River and Rocky Mountain House VORs are associated with low-level airways. If required, these airways could be redesigned and published as low-level fixed RNAV routes, to maintain safe and efficient enroute operations.

Utilization of the global navigation satellite system (GNSS) to support RNAV IAP and air routes for aircraft navigation has significantly reduced reliance on ground-based NAVAIDs. Customers and stakeholders have shown a preference to navigation using GNSS as opposed to conventional ground-based NDB and VOR.

4. Methodology

The Study will identify, assess, and analyze information gathered through data collection and user and stakeholder consultation. The Study will:

- 1) Confirm stakeholder requirements for the services under review,
- 2) Analyze the concerns and issues raised by the stakeholders,
- 3) Develop possible solutions and options,
- 4) Conduct a Hazard Identification and Risk Assessment on issues, as required,
- 5) Present recommendations for Executive Management and Board of Directors approval,

- 6) Coordinate with the appropriate managers who would be involved with the technical and operational implementation of any proposed service change and,
- 7) Coordinate with Transport Canada.

5. Human Resources

The Study team will be multidisciplinary, with representation as required from crucial operational, technical and support areas.

The Study team will ensure that consultation with affected or interested stakeholders is sufficient before making recommendations to senior management.

The Study team will conduct a risk analysis and may call upon stakeholders to contribute to assessing some risk scenarios.

Team Leader: Manager, Level of Service

Contributors:

- Specialist, Level of Service,
- Managers/Staff in Edmonton Flight Information Region,
- Aeronautical Information Management,
- NAV CANADA Technology Group,
- NAV CANADA Corporate Performance,
- NAV CANADA Stakeholder and Industry Relations and,
- Others as required.

6. Work Management Plan

Terms of Reference approval: October 2024

When conducting the Study*, the following will be undertaken:

- 1) Develop a Communication and Consultation Plan – Fall 2024
- 2) Study commencement – Fall 2024
- 3) Consultation – Fall 2024
- 4) Assess consultation input – Winter 2025
- 5) Conduct Issues Hazard Identification and Risk Assessment – Winter 2025
- 6) Finalize Aeronautical Study report – Spring 2025
- 7) Executive Management and Board of Directors approval – Spring 2025

If a change proposal is approved:

- 8) Issue a Notice of Proposal – Spring 2025
- 9) Circulate concluded assessment to Transport Canada for safety review – Summer 2025

Following Transport Canada concurrence:

- 10) Coordinate implementation plan and dates with appropriate departments – TBD
- 11) Prepare the Aeronautical Information Management submission – TBD
- 12) Prepare and publish an Aeronautical Information Circular – TBD
- 13) Prepare and publish Notice –TBD
- 14) Implement – TBD
- 15) Monitoring / Post-Implementation Reviews – TBD

* Study timelines may be subject to adjustment.

7. Materiality of the changes

Some proposed service delivery options may represent a material change to a significant group of users. If this is the case, formal notifications per the Civil Air Navigation Services Commercialization Act will apply.

8. Finance Resources

Service design changes may generate an engineering support requirement. These requirements will be identified as the study progresses in support of initiating project planning for implementing engineering-related recommendations from the study.

9. Consultations

An appropriate consultation plan will be prepared. It will include formal stakeholder consultations to determine if any issues exist and what mitigations may be required if changes are recommended to provide air traffic services and airspace classification or structure.

Aviation organizations representing airports, general aviation, business aviation and others, as appropriate, will be consulted during the Study. A list of users and stakeholders consulted will be attached to the Study.

Should you have any questions or wish to provide input to the Study, you may do so by emailing studies.etudes@navcanada.ca or by writing to:

Courier/Civic Address	Mailing Address
NAV CANADA Level of Service 151 Slater Street Ottawa, ON K1P 5H3	NAV CANADA Level of Service PO Box 3411, Station T Ottawa, ON K1P 5L6

10. Safety Management Plan

NAV CANADA will prepare a project safety management plan that identifies implementation responsibilities resulting from the Study, including mitigation and monitoring actions to implement any service change.

11. Authority

This document has been issued under the authority of the Assistant Vice President, Stakeholder and Industry Relations.