

**11th Air Navigation Conference (AN-Conf/11)  
Preparatory Seminar**

**Unified CAN/MEX/USA Position  
for ICAO AN-Conf/11**

Areas of Joint Support by Canada, Mexico, and the United States

Lima, Peru, 18-22 August 2003

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**General Goals for the Lima  
AN-Conf/11 Preparatory Seminar**

- ✦ Provide Background on actions to date
- ✦ Brief CAR/SAM States/International Organizations on results of CAN/MEX/USA Meeting (July 29-30, 2003)
- ✦ Present CAN/MEX/USA Objectives for AN-Conf/11
- ✦ Note unified positions for AN-Conf/11 Working Papers
- ✦ Discuss joint strategy in preparing for the conference: This would include monitoring new papers on ICAO Website and working to solve issues with existing strategy between POC's (weekly)
- ✦ Seek support for CAN/MEX/USA positions from CAR/SAM States/International Organizations
- ✦ Identify areas of support, and co-author / co-sponsor responsibilities for papers

**Background**

- ✦ The North American Aviation Trilateral (NAAT), under the auspices of the North American Free Trade Agreement (NAFTA) established the Canada/Mexico/USA CNS/ATM Working Group (CMU CNS/ATM/WG)
- ✦ CMU CNS/ATM WG developed the CMU CNS/ATM Implementation and Transition Plan
  - ✦ This will be incorporated into the NAM ANP
- ✦ Secretariat services are provided by the NACC Regional Office

**Background**

- ✦ NAAT/9 Meeting requested CMU CNS/ATM WG to meet and develop joint positions on AN-Conf/11 Agenda Items and continue working towards a common goal of achieving global interoperability
- ✦ CMU/WG Executive Steering Group Meeting held in Mexico City 29-30 July 2003

**CMU CNS/ATM Executive Steering  
Group Meeting - Summary**

- ✦ Reviewed CNS/ATM Implementation and Transition Plan
  - ✦ Revisions are expected as a result of AN-Conf/11
- ✦ Reviewed CAN/MEX/USA Objectives for AN-Conf/11
- ✦ Discussed Working Papers for AN-Conf/11
  - ✦ Developed a CAN/MEX/USA consensus on various Working Papers
- ✦ Action Items for Canada, Mexico and the USA
  - ✦ Follow-up work including review of papers unavailable at the CMU/WG Meeting (July 29-30, 2003)

**General CAN/MEX/USA Objectives  
for the AN-Conf/11**

- ✦ Gain acceptance of the global ATM Operational Concept
- ✦ Gain support for continued importance of international interoperability/compatibility and harmonization
- ✦ Ensure global approach for development of Safety Management and Regulation programs with improved security for ATM systems
- ✦ Reconfirm GNSS as a viable means of navigation in all phases of flight with a common understanding of vulnerability

### General CAN/MEX/USA Objectives for AN-Conf/11

- ✈ Maintain VDL Mode 3 as the next generation communication data link for voice and data per COM/OPS DIV '95
- ✈ Accept Mode S Extended Squitter as the initial (next 10+ years) standardized global ADS-B technology
- ✈ Continue work towards protection of aeronautical frequencies

### Canada/Mexico/USA Position

#### ✈ ATM

#### ✈ Agenda Item 1: Global ATM Operational Concept

- ✈ (WP) Canada/Mexico/USA Support for ICAO Global ATM Operational Concept
  - ✈ Endorsement of the Global ATM Operational Concept
  - ✈ Notes the consistency with the US National Airspace System (NAS) Concept of Operation and Vision for the Future of Aviation approved by the RTCA Free Flight Steering Committee
  - ✈ Expresses appreciation of the progress made by the Air Traffic Management Concept Panel (ATMCP)
  - ✈ Recommends additional work to support the general use of the ATM Operational Concept

### Canada/Mexico/USA Position

#### ✈ ATM

#### ✈ Agenda Item 1: Global ATM Operational Concept

- ✈ (WP/66) CMU supports the ADS-B Concept of Use
  - ✈ Endorses the ADS-B Concept of Use document progressed in the ICAO Operational Data Link Panel (OPLINKP)
  - ✈ The ADS-B Concept of Use document describes the role of ADS-B as one of the enablers of the future global CNS/ATM system
  - ✈ Supports promoting global interoperability of ADS-B operations for the near term and beyond

### Canada/Mexico/USA Position

#### ✈ ATM

#### ✈ Agenda Item 1: Global ATM Operational Concept

- ✈ (WP/41) CMU endorses Initial ADS-B Applications for Global Interoperability
  - ✈ Discusses ADS-B technologies that have been under development for more than a decade as well as the concepts for the initial use of ADS-B that have begun to mature in some States and Regions over the past few years
  - ✈ Recognizing that multiple ADS-B link technologies exist, a global strategy is needed to facilitate the early introduction of ADS-B capabilities
  - ✈ Proposes a strategy to achieve goals towards global applications

### Canada/Mexico/USA Position

#### ✈ ATM

#### ✈ Agenda Item 2: Safety and Security in ATM

- ✈ (WP) CMU endorses development of Global Strategy for Runway Incursion Risk Management
  - ✈ Recommends that ICAO develop a common definition of a runway incursion
  - ✈ Prepare standardized runway incursion terminology and develop a database for exchange of information as an essential step towards achieving global risk reduction and improving Risk Management of Runway Incursions

### Canada/Mexico/USA Position

#### ✈ ATM

#### ✈ Agenda Item 2: Safety and Security in ATM

- ✈ (WP) CMU supports the Development of Global Strategy for Runway Incursion Risk Management
  - ✈ Suggests a methodology for the characterization of runway incursions and their severity
  - ✈ Both Canada and Mexico, in general support the paper, particularly the need for a database and exchange of runway incursion information. This support will be voiced at the AN-Conf/11. Pending are the issues of the definition and methodology for determining category and severity of incursions.

## Canada/Mexico/USA Position

### ✦ ATM

#### ✦ Agenda Item 4: Capacity Enhancement Measures

- ✦ (WP) CMU endorses US Air Traffic Control Capacity Enhancement – Air Traffic Flow Management (ATFM) Real World Gains
- ✦ Full agreement with recommendations

- ✦ (WP) CMU endorses Harmonization of Flight Level Assignment Methodology Across Flight Information Region Boundaries

- ✦ Agreement to use standard ICAO conversion tables for meters to feet.

## Canada/Mexico/USA Position

### ✦ CNS

#### ✦ Agenda Item 5: Electromagnetic Spectrum

- ✦ (WP/63) CMU endorses improving ICAO's Spectrum Planning and Policy Process
  - ✦ Proposes a staged approach for creating a single frequency spectrum planning and policy mechanism in ICAO
  - ✦ Present lack of a single mechanism to consolidate all spectrum elements results in fragmentation of work and increased resource requirements to participate in the separate groups

## Canada/Mexico/USA Position

### ✦ CNS

#### ✦ Agenda Item 5: Electromagnetic Spectrum

- ✦ Future vision is to have one Aeronautical Frequency Spectrum mechanism in ICAO that would be on an equivalent level with the Communication and Navigation Panels. This new mechanism would consolidate and integrate all CNS spectrum efforts for all ICAO panels.

## Canada/Mexico/USA Position

### ✦ CNS

#### ✦ Agenda Item 6: Aeronautical Navigation Issues

- ✦ (WP/) CMU endorses the Need for Reliable Free GNSS Service
  - ✦ Takes into account the needs of developing States that have limited Air Navigation Infrastructure, which could obtain great benefits from GNSS services but cannot afford to pay for them
  - ✦ Recommends that GNSS services be provided free of direct user charges.

## Canada/Mexico/USA Position

### ✦ CNS

#### ✦ Agenda Item 7: A-G & G-G Communications

- ✦ (WP) CMU endorses Strategy for Global Interoperability for ADS-B
  - ✦ Endorses Mode S Extended Squitter as initial (next 10+ years) standardized global ADS-B technology
  - ✦ Recognizes that multiple ADS-B link technologies exist, support a global strategy to facilitate the early introduction of ADS-B capabilities
  - ✦ Proposes a strategy to achieve goals towards global applications.

## Summary

Canada, Mexico and the USA are:

- ✦ Maintaining a strong working relationship to ensure success in attaining the objectives at AN -Conf/11.
- ✦ Continuing to coordinate a unified CAN/MEX/USA Position on AN-Conf/11 agenda items and working papers
- ✦ Sharing tri-lateral work to date with the CAR/SAM States/International Organizations in preparation for the AN-Conf/11
- ✦ Working to obtain CAR/SAM States /International Organizations support on positions for the AN - Conf/11