



International Civil Aviation Organization

North American, Central American and Caribbean Office (NACC)

**Seventh Central American Air Navigation Experts Working Group Meeting
(CA/ANE/WG/7)**

Ninth Central Caribbean Working Group Meeting (C/CAR/WG/9)

ICAO NACC Regional Office, Mexico City, Mexico, 5 to 9 March 2012

Agenda Item 3: Air Navigation Matters

3.3 Specific Developments in Air Navigation

- **ATM**

**ICAO NACC DATABASE (ICARD) /
FIVE-LETTER NAME-CODES (5LNCs)
AND ELIMINATING DUPLICATION OF 5LNC'S**

(Presented by the Secretariat)

SUMMARY

Authorized airspace planners have access to an ICAO database tool that provides the ability to allocate five letter name codes (5LNCs). The ability to query this database and directly allocate 5LNCs greatly enhances the safety and efficiency of airspace planning. It also reduces the duplication of 5LNCs and therefore enhances safety by ensuring a unique 5LNC for airspace planning purposes.

To avoid the duplication of 5LNC's, State/Territory should discard any previously allocated 5LNC's assigned by this office prior to the implementation of ICARD and which have not yet been published.

References:

- ICAO Annex 11, Appendix 2
- EMX0530 - 1 June 2011, requesting States/Territories discard allocated 5LNC's assigned by this office

**Strategic
Objective**

This working paper is related to Strategic Objective A

1. Introduction

1.1 ICAO Annex 11, Appendix 2, paragraph 3.1. states that “*Where a significant point is required at a position not marked by the site of a radio navigation aid, the significant point shall be designated by a **UNIQUE** five-letter pronounceable “name-code”.*”

1.2 In the 1960's, ICAO and the FAA set up a list of 140,000 five letter combinations of five-letter name-codes (5LNCs). This list was then split and distributed to the various ICAO Regional offices throughout the world. These reserve lists have since served as the database for 5LNCs allocation by the ICAO Offices with the objective of world-wide unique allocation to enable unambiguous designation of significant points not linked to the site of a radio navigation aid.

1.3 In route planning and design, two activities are essential:

- the allocation of Route Designators, uniquely identifying individual routes;
- the allocation of 5LNCs codes, uniquely identifying designated point, forming part of a route.

1.4 In a cooperative effort, a system was developed by Eurocontrol, which is called the ICAO Five-Letter Name-Code and Route Designator Database (ICARD) system, which facilitates the management of Five Letter Name Codes (5LNCs). This system, which was designed with the perspective that it is global in scope, was implemented by the EURNAT (1998), MID region (2005), ASIAPAC (2007), NAM/CAR 2008 and globally (2009).

2. NACC ICARD Regional Activities

2.1 As a result of the global deployment of the 5LNCs Database, which is implemented through their ICAO ICARD application, several activities were coordinated regionally. These activities were grouped as Phase I, Phase II and Phase III activities:

Phase I:

This phase consisted mainly in the review of the existing NAM/CAR list of assigned 5LNCs for introduction to the ICARD

- 1) Based on the existing hard-copy of the NAM/CAR list of assigned codes, the NACC Regional Office prepared a preliminary electronic NAM/CAR list of assigned 5LNCs, which incorporated information from the State's AIPs, State's communication and route chart data. This information was posted on the Regional office Website.
- 2) The ICAO NACC Regional Office conducted a review and update of the preliminary electronic NAM/CAR list of assigned 5 LNCs, registered in the ICAO NACC Regional Office. This process required States to confirm and update the information regarding 5LNC codes allocated for their use and the respective coordinates as well as other internal ICAO code confirmations and formalization of assignments. Replies and comments were received until April 24, 2009.
- 3) Based on the replies received, an initial NAM/CAR list of assigned 5LNCs was formulated and, prior to its inclusion into ICARD, other data verification through other sources was made to ensure its validity.
- 4) Updated information to the ICARD System was coordinated with EUROCONTROL and ICAO for its inclusion into the ICARD global system as it applies to the CAR and NAM States, Territories and International Organizations. Other useful information associated to this review and update process was discovered as for example the classification of ICAO and non-ICAO codes.
- 5) The initial NAM/CAR list of assigned 5LNCs was introduced in ICARD.

- 6) An ICAO NACC Regional Office ICARD Data Base Manager was designated along with two alternates to support the operation of this database (nacc-icard@icao.int).

Phase II:

This phase consisted of registering users to the ICARD database and continued revision of the ICARD database, which included identifying duplicated codes and proposing recommendations to resolve these cases.

- 1) Each State/Territory/International Organization, within the NAM/CAR Regions, was required to complete the following two steps:
 - a) A State letter EMX0597 was sent on 18 June 2009 requesting States to nominate one Primary Route Planner as an authorized user of the ICARD system, and one alternate.
 - b) New authorized users were advised to coordinate their registration with the ICAO NACC Regional Office ICARD Data Manager in order to complete the process of becoming an authorized user.
- 2) State Authorized users will Access the ICARD System to allocate 5LNCs in coordination with the NACC Regional Office ICARD Data Manager. Only authorized users can use the application for allocation new codes. The overall objective of the system is to allow contracting States/Territories/International Organizations, the ability to allocate unique 5LNCs as needed to meet airspace planning needs.

Phase III:

As part of the ongoing initiatives to improve ICARD/5LNCs system, EUROCONTROL transitioned the ICARD service to ICAO during the month of September 2010. ICAO is now hosting and operating the system.

- 1) State letter EMX0850 was sent on 24 September 2010 advising current users to re-register and for States to notify the NACC regional office of their respective authorized state user.
- 2) ICARD Registration is a two-step process. The first step is to register for Access to the ICAO Portal, and the second step is to subscribe as a 5LNCs authorized route planner.
- 3) Access to the ICARD application and instructions on how to register have been uploaded to the NACC website and can be accessed at: <http://www.mexico.icao.int/ICARD.html>.
- 4) An ICARD user guide has been developed and is also available on the NACC website address listed above (English only).

3. Discussion

3.1 ICARD has now been implemented worldwide and is currently the only authorized ICAO method for assigning 5LNC's. To ensure the success of ICARD and to avoid the duplication of 5LNC's, ICAO NACC letter EMX0530 was sent 1 June 2011, requesting that your State/Territory discard any previously allocated 5LNC's assigned by this office prior to the implementation of ICARD and which have not yet been published. This is a necessary step in order to ensure that 5LNC's are not duplicated when authorized users now request the allocation of codes using the ICARD database system.

3.2 The ICARD administrators have attempted to minimize any duplication of 5LNC's by updating ICARD with all sources of 5LNC's that were previously assigned. To request 5LNC's, States should now use ICARD.

3.3 States should verify the availability of 5LNC's using ICARD before publishing 5LNC's that were not allocated through the ICARD database. This will minimize the possibility of duplication and will assist States in adhering to the principles of establishing and assigning 5LNC's as stated in Annex 11, Appendix 2.

3.4 The current list of State designated authorized users is presented in the **Appendix** to this paper.

4. Suggested action by the meeting

4.1 The Working Groups (CA/ANE/WG and C/CAR/WG) are invited to note the contents of this working paper and follow up on the previously assigned tasks as indicated below:

- a) designate a State authorized user to access the 5LNCs database system and forward this information to the NACC regional office if not yet completed;
- b) coordinate any problems with the database or the registration process to the ICAO NACC regional database manager (nacc_icard@icao.int);
- c) review ICARD user guide for instructions on how to access and utilize for the allocation of 5LNCs;
- d) provide ongoing feedback on the methods to improve the 5LNCs database system;
- e) request a report of State 5LNCs in ICARD and review against State 5LNCs published in the AIP, and
- f) Release 5LNCs no longer published in State AIPs but still listed as allocated to State
- g) Discard any previously issued list of 5LNC's not allocated through ICARD
- h) Update listing of State designated authorized users presented in attached appendix.

APPENDIX / APÉNDICE
AUTHORIZED ICARD USERS / USUARIOS AUTORIZADOS ICARD

NAME/ NOMBRE	TITLE/ TITULO	DEPARTM ENT/ DEPARTA MENTO	STREET/ CALLE	CITY/ CIUDAD	COUNTRY/ PAIS	TELEPHONE/ TELEFONO	FAX	E-MAIL
Donald McPhail	Director of Air Navigation Services (ANS)	Eastern Caribbean Civil Aviation Authority (ECCAA)	Corner Factory RD & Nugent Ave.,	P.O. Box 1130, St. John's	Antigua and Barbuda	(268) 462-0000	(268) 462-0082	dmcphail@eccaa.aero
Shirley Ford	Chief Aeronautical Information Services Officer	Air Traffic Services Building	Grantley Adams International Airport	Christ Church	Barbados	1 246 428 0952	1 246 420 733	aisbarbados@sunbeach.net
Cedric Murrell		Air Traffic Services Building	Grantley Adams International Airport	Christ Church	Barbados	1 246 428 7377	1 246 420 733	catcobgi@sunbeach.net
Edwin Quirós	Chief AIS	Navegación Aérea	DGAC	San José	Costa Rica	2290-0090	2231-2107	equiros@dgac.go.cr
Uriel Urbizo Fley	Coordinador ATM	ACNA	150 mts from Toncontin Intl Airport	Tegucigalpa	COCESNA	(504) 2343360 ext 1325	(504) 234 2550	uurbizo@cocesna.org
Juan Carlos Trabanino (alterno)	Director ACNA	ACNA	150 mts from Toncontin Intl Airport	Tegucigalpa	COCESNA	(504) 2343360	(504) 234 2550	jtrabanino@cocesna.org
Fidel Ara Cruz	Especialista Principal Aeronavegación	IACC	Calle 23 No. 64, entre Infanta y P. La Rampa	Vedado, Ciudad de la Habana, Cuba	Cuba	(537) 838 1146	(537) 834 4571	fidel.ara@iacc.avianet.cu
Jorge Centella Artola	Especialista Aeronavegación IACC	IACC	Calle 23 No. 64, entre Infanta y P. La Rampa	Ciudad de la Habana	Cuba	(537) 838-1146	(537) 834 4571	jorge.centella@iacc.avianet.cu
Catherine Arnaud	Main	DGAC	Aéroport de Martinique Aimé Césaire-97232 LE LAMENTIN G	French Antilles and French Guyane	France	596/596 422 429	59642270 2	catherine.arnaud@aviation-civile.gouv.fr
Patrick Amouroux	Alternate	DGAC	Aéroport de Martinique Aimé Césaire-97232 LE LAMENTIN G	French Antilles and French Guyane	France	596/596 422 492		patrick.amouroux@aviation-civile.gouv.fr
Jean-Noël Guillaume	Alternate	DGAC	Aéroport de Martinique Aimé Césaire-97232 LE LAMENTIN G	French Antilles and French Guyane	France	596 596 422 428		jean-noel.villaume@aviation-civile.gouv.fr
Jacques Boursiquot	Directeur Adjoint de la Navegation Aérienne	Aéroport Int'l Mais-Gaté,		1346, Port-au-Prince	Haiti	(509) 246-0062	(509) 246-0998	jboursiquot@comcast.net

NAME/ NOMBRE	TITLE/ TITULO	DEPARTM ENT/ DEPARTA MENTO	STREET/ CALE	CITY/ CIUDAD	COUNTRY/ PAIS	TELEPHONE/ TELEFONO	FAX	E-MAIL
Christopher Chambers	Operations Officers	Obstacles evaluation and procedures development	4 Winchester Road,	Kingston 10	Jamaica	(876) 960-3948 Ext. 3121	(876) 920-3144	cchambers@jcaa.gov.jm
Dwight Dietrich (alternate)	Procedures Specialist	Obstacles evaluation and procedures development	4 Winchester Road,	Kingston 10	Jamaica	(876) 960-3948 Ext. 3120	(876) 920-3144	ddietrich@jcaa.jm
Aida Lidia Rosario Lantigua (alterna)	Asistente Oficina de Gestión de Espacio Aéreo y Procedimientos de Vuelo por Instrumentos (ASM/IFP)	ASM/IFP	Av. México, esquina 30 de Marzo	Santo Domingo	Rep. Dom.	(809) 5491-310 Ext. 304 y 305	(809) 549-0326	alderose12@hotmail.com
José Antonio Pérez y Pérez	Encargado Oficina de Gestión de Espacio Aéreo y Procedimientos de Vuelo por Instrumentos (ASM/IFP)	ASM/IFP	Av. México, esquina 30 de Marzo	Santo Domingo	Rep. Dom.	(809)-5491-310 Ext. 304 y 305	(809) 549-0326	joant_perez@yahoo.com
Curtis Davis	Airspace Specialist, Aeronautical Information Management Group	Air Traffic Organization, System Operations	800 Independence Avenue, SW	Washington, DC 20591	United States	(202) 267-7755	(202) 267-5322	curtis.davis@faa.gov
Dick Powell (alternate)	Manager, Aeronautical Information Management Group	Air Traffic Organization, System Operations	800 Independence Avenue, SW	Washington, DC 20591	United States	(202) 267-8790	(202) 493-4266	dick.powell@faa.gov
Anthony Stevens	ATM Regulator	Controlled Airspace Section, Directorate of Airspace Policy	CAA House K6 G2	45-49 Kingsway UK	United Kingdom	(44) 207 453 6553		Anthony.stevens@caa.co.uk
Greg Evans	Quality & Safety Specialist	AIS	1601 Tom Roberts Ave	Ottawa ON	Canada	(613) 248-4893	(613) 248-4023	evansgr@navcanada.ca
Andy Pearson	Supervisor, Instrument Procedure Design	AIS	6110 Midfield Road	Mississauga ON	Canada	(905) 612-5801	(905) 612-5551	PearsoA@navcanada.ca
David Simpson	Supervisor, Instrument Procedure Design	AIS	1601 Tom Roberts Ave	Ottawa ON	Canada	(613) 248-4026	(613) 248-4023	simpsda@navcanada.ca

NAME/ NOMBRE	TITLE/ TITULO	DEPARTM ENT/ DEPARTA MENTO	STREET/ CALLE	CITY/ CIUDAD	COUNTRY/ PAIS	TELEPHONE/ TELEFONO	FAX	E-MAIL
Phillipe Vincent	AIS Specialist	DND-AIS	1601 Tom Roberts Ave	Ottawa ON	Canada	(613) 248-4130		vinceph@navcanada.ca
Dave Legault	Supervisor, Data Collections	AIS	1601 Tom Roberts Ave	Ottawa ON	Canada	(613) 248-4120	(613) 248-4093	legauld@navcanada.ca
Sylvain Larue	Designer		1601 Tom Roberts PO Box 9824, Stn T Gloucester,	Ontario, K1G 6R2	Canada	(613) 425 5508		larues@navcanada.ca
Pierre Deschênes	Senior Designer & Quality Manager	IDS NA	152 Notre-Dame Est, Suite 500	Montreal QC	Canada	514-789-0082 x544		pdeschenes@idsna.com
Gilberto Alexander Cruz	Configuration & Process Controller	IDS NA	152 Notre-Dame Est, Suite 500	Montreal QC	Canada	514-789-0082 x510		gcruz@idsna.com
Enio Pantaleón Hernández Aguilar	Encargado de la oficina PANS-OPS				Guatemala	2321-5023/ 4211-5241		eniowr@gmail.com / mgjapinula@hotmail.com
Bayron Augusto Quiñonez Duarte	Encargado de Garantía de la Calidad y Seguridad Operacional ATS				Guatemala	2321-5018 4045 6594		quinones_bayron@yahoo.com baqd2006@yahoo.com
Alex Hernández	Especialista	MAP/NAV			Honduras	(504) 2233-1104	(504) 2233-0258	halex_hernandez@hotmail.com