MINISTRY OF TOURISM
TRANSPORTATION AND LABOUR

DIRECTIE LUCHTVAART ARUBA
DEPARTMENT OF CIVIL AVIATION ARUBA

Our number:

ELT PROTOCOL ARUBA

Oranjestad, 25 May 2011

Ref.: ELT Protocol DCA-ARUBA

The purpose of this letter is to inform the **OPERATOR** of useful information concerning the coding when programming the ELT.

All beacons registered in **ARUBA** shall be coded according to the **Aviation User Protocol** or if the beacon can be programmed with location position data, they may use the **User Location Protocol**.

The ELT digital message shall contain the registration marking (P4-…) of the belonging aircraft for **identification** as issued by **Department of Civil Aviation Aruba.**

Country Code	User protocols				Location Protocols							
	Serial User			Aviation User	User Location				Standard Location			National Location
	ELT with Serial #	Aircraft Operator Designator and Serial Number	Aircraft 24 bit Address	Aircraft Nationality and Registration Marking	ELT with Serial Number	Aircraft Operator Designator and Serial Number	Aircraft 24 bit Address	Aircraft Nationality and Registration Marking	ELT with Serial Number	Aircraft Operator Designator and Serial Number	Aircraft 24 bit Address	Serial Number Assigned by Competent Administration
307	N	N	N	Y	N	N	N	Y	N	N	N	N

DEPARTMENT OF CIVIL AVIATION ARUBA

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The ***AVIATION USER PROTOCOL*** using the aircraft ***Registration marking*** has the following structure:

Aviation User Protocol								
Bits	25	26	27 – 36	37 – 39	40 – 81	82 - 83	84	85
---	0	1	0100110011	0 0 1	Aircraft Registration Marking (42 bits = up to 7 alphanumeric characters)	ELT NUMBER	R	L

Bits Usage

25 format flag **(= 0) short message format**
26 protocol flag **(=1) user protocols or user-location protocols**
27-36 country code for Aruba; **307 (=0100110011)**
37-39 user protocol code **(=001) Aviation User Protocol**
40- 81 aircraft registration marking, containing up to 7 alphanumeric characters, is encoded using the modified –Baudot code. Registration marking format shall be as follows; **P4-*****
82-83 Specific ELT number where "00" indicates the first ELT on the aircraft coded with this protocol and "01", "10" and "11" identify additional ELTs on the same aircraft, all coded with the **Aviation User protocol**.
84-85 **auxiliary radio-locating device type**(s), (RL) set to "01" if a 121.5 MHz radio-locating transmitter is included in the beacon.

Aircraft operators replacing ELT have to install ELT coded with the **"Aviation User Protocol"** according the **"User protocol"** or the **"user location protocol"** according the **"Location Protocol"**

When programming or reprogramming any ELT of your aircraft, a new INS 16.008R1 form has to be submitted to the Department of Civil Aviation Aruba for record purposes.

Reprogramming any ELT makes the existing 15 digit hex code label obsolete. A new 15 digit hex code label must replace the old one, as ELT labeling must reflect the programming inside. If reprogramming the ELT also changes the country of origin and 3 digit country code, a new country and country code label must replace the old one before the ELT is returned to service.
The operator shall have the ELT tested and data recorded **(INS 16.008R1)**, for proper programming of the **country code** and the **aircraft registration** in the ELT, before installing in the aircraft.

For further information regarding this protocol, please contact the Department of Civil Aviation Aruba.
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