MT02/JC16/0910.doc

Agenda Item 9.3

FRENCH BEACON TESTS – INDIAN RESULTS

1. ACTION REQUIRED

The Joint Committee is invited to note Indian LUTs location accuracy results of French tests undertaken from 21 May to 01 June 2002.

2. COMMENTS

Two test beacons co-located with the Toulouse reference beacon (43.5605N 001.48083 E) transmitted signals simulating a Class 2 and a proposed Class 3 - 406 MHz beacon.

Beacon with HEX ID: 9C7EED2174D35D0, was programmed to transmit at the upper limits of C/S T.001 Class 2 beacons for slope and residual frequency deviation, i.e. slope: **0.4 Hz/min, residual: 1.2 Hz**.

Beacon, with HEX ID: 9C7EED2174D74D0, was programmed to transmit at the upper limits of the proposed specifications for Class 3 beacons, i.e. slope: **2 Hz/min, residual: 6 Hz**.

A summary of the results is provided in Table-1 and Table-2 below as per TG-2/2002, Low Cost 406 MHz Beacons Report in paragraph 6.2.1.

From: 21/05/2002 to 24/05/2002

Nominal Solutions			**Marginal Solutions**		
Error Location Range (km) & AR Resolution	Location/ AR Accuracy Required	Location/ AR Accuracy Achieved	Error Location Range (km) & AR Resolution	Location/ AR Accuracy Required	Location/ AR Accuracy Achieved
0 – 5 km Class 2 (Bangalore)	95%	89%	0 – 10 km Class 2 (Bangalore)	60%	95%
0-5 km Class 2 (Lucknow)	90%	49%	0-10 km Class 2 (Lucknow)	60%	90%
0 – 5 km Class 3 (Bangalore)	**95%**	**48%**	**0–10 km Class 3 (Bangalore)**	**60%**	**90%**
0 – 5 km Class 3 (Lucknow)	**90%**	**49%**	**0–10 km Class 3 (Lucknow)**	**60%**	**68%**
0 – 10 km Class 2 (Bangalore)	98%	97%	0–20 km Class 2	80%	100%
0-10 km Class 2 (Lucknow)	98%	75%	0-20 km Class 2	80%	100%
0 – 10 km Class 3 (Bangalore)	**95%**	**78%**	**0–20 km Class 3**	**80%**	**100%**
0-10 Km Class 3 (Lucknow)	**95%**	**75%**	**0-20 km Class 3**	**80%**	**100%**
AR Class 2 (Bangalore)	90%	87%	AR Class 2 (Bangalore)	60%	95%
AR Class 2 (Lucknow)	90%	77%	AR Class 2 (Lucknow)	60%	95%
AR Class 3 (Bangalore)	**90%**	**78%**	**AR Class 3 (Bangalore)**	**60%**	**80%**
AR Class 3 (Lucknow)	**90%**	**77%**	**AR Class 3 (Lucknow)**	**60%**	**83%**

Table 1 – Test Results Of Indian LUTs

From: 27/05/2002 to 01/06/2002

Nominal Solutions			**Marginal Solutions**		
Error Location Range (km) & AR Resolution	Location/ AR Accuracy Required	Location/ AR Accuracy Achieved	Error Location Range (km) & AR Resolution	Location/ AR Accuracy Required	Location/AR Accuracy Achieved
0 – 5 km Class 2 (Bangalore)	95%	94%	0–10 km Class 2 (Bangalore)	60%	77%
0-5 km Class 2 (Lucknow)	90%	94%	0-10 km Class 2 (Lucknow)	60%	77%
0 – 5 km Class 3 (Bangalore)	**95%**	**62%**	**0–10 km Class 3 (Bangalore)**	**60%**	**25%**
0 – 5 km Class 3 (Lucknow)	**90%**	**64%**	**0–10 km Class 3 (Lucknow)**	**60%**	**25%**
0 – 10 km Class 2 (Bangalore)	98%	98%	0 – 20 km Class 2 (Bangalore)	80%	92%
0-10 km Class 2 (Lucknow)	98%	94%	0-20 km Class (Lucknow)	80%	94%
0 – 10 km Class 3 (Bangalore)	**95%**	**92%**	**0–20 km Class 3 (Bangalore)**	**80%**	**67%**
0-10 Km Class 3 (Lucknow)	**95%**	**91%**	**0-20 km Class 3 (Lucknow)**	**80%**	**75%**
AR Class 2 (Bangalore)	90%	100%	AR Class 2 (Bangalore)	60%	77%
AR Class 2 (Lucknow)	90%	100%	AR Class 2 (Lucknow)	60%	89%
AR Class 3 (Bangalore)	**90%**	**84%**	**AR Class 3 (Bangalore)**	**60%**	**41%**
AR Class 3 (Lucknow)	**90%**	**80%**	**AR Class 3 (Lucknow)**	**60%**	**50%**

Table 2 – Test Results Of Indian LUTs