Doc 8071, Vol. II
Corrigendum
(English, Russian and Spanish)
30/4/08

MANUAL ON TESTING OF RADIO NAVIGATION AIDS

VOLUME II
TESTING OF SATELLITE-BASED RADIO NAVIGATION SYSTEMS

CORRIGENDUM

1. Replace existing pages 4-5, 4-6 and 4-15 with the attached new pages dated 30/4/08.

2. Record the entry of this Corrigendum on page (*ii*).

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Table II-4-2A. Summary of minimum ground test requirements — GBAS functional requirements

Parameter	*Annex 10 Volume I reference*	*Doc 8071 Volume II reference*	*Measurand*	*Tolerance*	*Uncertainty*	*Periodicity*[6]
Accuracy		4.2.6 to 4.2.8				
Pseudorange Domain (GAD Assessment)	App. B 3.6.7.1.1	4.2.9 to 4.2.11.2	Ground sub-system contribution to the corrected pseudorange error	Compliance with broadcast GAD curves <0.05m	N/A N/A	N/A[4]
Position Domain Functional Test	(none)	4.2.12	Position	<4m vertical <16m lateral	0.5m	N/A[5]
Continuity	App. B 3.6.7.1.3	4.2.13 to 4.2.17	Continuity	See 4.2.13	See 4.2.13	See 4.2.13
Broadcast s-i-s integrity parameters						
Ground Pseudorange Uncertainty		4.2.18 to 4.2.19	σ_{pr_gnd} B	N/A	See 4.2.18	N/A
Tropospheric Delay and Residual Tropospheric Uncertainty		4.2.20	N_R, h_0, σ_N	Exact match to data provided	N/A	N/A[3]
GCID indication		[see 4.2.23]	Message Data Content	Exact match to intended value	N/A	N/A
Residual Ionospheric Uncertainty		4.2.21	$\sigma_{vert_iono_gradient}$	Exact Match to data provided	N/A	N/A[3]
Reference Antenna Phase Centre position accuracy	App. B 3.6.7.2.3.3	4.2.22	Survey and antenna phase centre error	<8 cm	1 cm	N/A[2]
Data content	App. B 3.6.4	4.2.23	Message Data Content	Exact Match	N/A	N/A[1]
Resistance to Interference (Ranging Signal)	App. B 3.7	4.2.24	Interference Power Level	See 4.2.13	3 dB	S, Sp
FAS data points accuracy	App. B 3.6.7.2.4.1	4.2.25	FAS data point error	0.4 m horizontal 0.25 m vertical	0.05 m 0.05 m	C/Sp
Monitoring						
Integrity monitoring for GNSS ranging sources	App. B 3.6.7.2.6	4.2.34 to 4.2.36	[TBD]	[TBD]	[TBD]	[TBD]

Notes:
1. *Message data content is confirmed during ground tests. Some States may choose to also accomplish this confirmation during commissioning flight testing.*
2. *Positioning of reference antennas should be confirmed prior to commissioning, whenever an antenna is removed and reinstalled, moved or replaced, and whenever the location of the reference antenna is suspected to have moved.*
3. *Whenever new data are provided.*
4. *Pseudorange accuracy should be confirmed prior to commissioning, and whenever siting of reference antennas changes or the multipath environment of the antennas changes. Position measurement should be confirmed prior to commissioning, and as required thereafter (e.g. change in database or antenna location).*
5. *As required.*
6. *See 1.15 of this volume for additional guidance on adjusting the periodicity.*

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