TSG RAN Meeting #17 **RP-020492**
Biarritz, France, 3 - 6 September, 2002

Title **CRs (Rel-5) to TS 25.104 and TS 25.141 "Correction of the CPICH measurement"**
Source **TSG RAN WG4**
Agenda Item **7.4.5**

RAN4 Tdoc	Spec	CR	R	Cat	Rel	Curr Ver	Title	Work Item
R4-021282	25.104	142		F	Rel-5	5.3.0	Correction to CPICH measurement period	TEI5
R4-021283	25.141	242		F	Rel-5	5.3.1	Correction to CPICH accuracy measurement	TEI5

3GPP TSR RAN WG4 Meeting #24 **R4-021282**

Helsinki, Finland 12 - 16 August 2002

CR-Form-v7

CHANGE REQUEST

⌘ **25.104** **CR** **142** ⌘ **rev** ⌘ Current version: **5.3.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME ☐ Radio Access Network ☒ Core Network ☐

Title:	⌘	Correction to CPICH measurement period
Source:	⌘	RAN WG4
Work item code:	⌘	TEI5
Date:	⌘	21/08/2002
Category:	⌘	**F**
Release:	⌘	Rel-5

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*

Reason for change:	⌘	The definition of CPICH power includes a mesurement requirement for averaging over one frame. Apart from modulation accuracy requirements where it is essentail, there are no other cases of measurement periods being defined in the core spec. The figure of one frame is also out of step with other similar measurements.
Summary of change:	⌘	The requirement fo measuring over one frame is deleted.
Consequences if not approved:	⌘	The measurement method is unnecessarily constrained. Isolated impact analysis: Matters relating to measurement methods do not impact the core requirement or network operation.

Clauses affected:	⌘	6.4.4			
Other specs affected:	⌘	**Y** / **N**	Other core specifications	⌘	25.141
		☐ / ☒			
		☒ / ☐	Test specifications		
		☐ / ☒	O&M Specifications		
Other comments:	⌘				

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm.
Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

6.4.4 Primary CPICH power

Primary CPICH power is the code domain power of the Common Pilot Channel ~~averaged over one frame~~.
Primary CPICH power is indicated on the BCH.

6.4.4.1 Requirement

Primary CPICH code domain power shall be within ± 2.1dB of the Primary CPICH code domain power indicated on the BCHe.

3GPP TSR RAN WG4 Meeting #24 **R4-021283**

Helsinki, Finland 12 - 16 August 2002

CR-Form-v7

CHANGE REQUEST

⌘ **25.141** **CR** **242** ⌘ **rev** ⌘ Current version: **5.3.1** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME ☐ Radio Access Network ☒ Core Network ☐

Title:	⌘	Correction to CPICH accuracy measurement
Source:	⌘	RAN WG4
Work item code:	⌘	TEI5
Date:	⌘	21/08/2002
Category:	⌘	**F**
Release:	⌘	Rel-5

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*

Reason for change:	⌘	The measurement period is not specified in the test specification. The figure of one frame specified in 25.104 seems out of step with all other measurements and a figure of one slot seems more appropriate than one frame. Also, references to PCCPCH are removed since there are no requirements for PCCPCH code domain power accuracy and by including this non-continuous channel with the PCPICH, the measurement results will be incorrect.
Summary of change:	⌘	A measurement period of one slot is added. Reference to the PCCPCH is deleted.
Consequences if not approved:	⌘	The measurement as defined would include power from the PCCPCH and possible fail the PCPICH accuracy requirement. Isolated impact analysis: Matters relating to measurement methods do not impact the core requirement or network operation.

Clauses affected:	⌘	6.2.2			
Other specs affected:	⌘	**Y**	**N**		⌘
			X	Other core specifications	
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘				

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3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

6.2.2 CPICH power accuracy

6.2.2.1 Definition and applicability

CPICH power accuracy is defined as the maximum deviation between the Primary CPICH code domain power indicated on the BCH and the Primary CPICH code domain power measured at the TX antenna interface. The requirement is applicable for all BS types.

6.2.2.2 Minimum Requirement

The measured Primary CPICH code domain power shall be within ±2.1dB of the Primary CPICH code domain power indicated on the BCH. The normative reference for this requirement is in TS 25.104 [1] subclause 6.4.4

6.2.2.3 Test purpose

The purpose of the test is to verify, that the BS under test delivers Primary CPICH code domain power within margins, thereby allowing reliable cell planning and operation.

6.2.2.4 Method of test

6.2.2.4.1 Initial conditions

Test environment: normal; see subclause 4.4.1.

RF channels to be tested: B, M and T; see subclause 4.8

1) Connect BS to code domain analyser as shown in annex B.

2) Disable inner loop power control.

3) Set-up BS transmission at maximum total power as specified by the supplier. Channel set-up shall be according to Test Model 2 subclause 6.1.1.2.

6.2.2.4.2 Procedure

- Measure the code domain power ~~in the PCCPCH and~~ of the PCPICH in one timeslot according to annex E.

6.2.2.5 Test Requirement

The measured CPICH power shall be within ±2.9dB of the ordered absolute value.

NOTE: If the above Test Requirement differs from the Minimum Requirement then the Test Tolerance applied for this test is non-zero. The Test Tolerance for this test is defined in subclause 4.2 and the explanation of how the Minimum Requirement has been relaxed by the Test Tolerance is given in Annex F.