TSG RAN Meeting #25 **RP-040286**
Palm Springs, US, 7 - 9 September 2004

Title **CRs (Rel-5 and Rel-6 Category A) to TS25.133**
Source **TSG RAN WG4**
Agenda Item **7.5.5**

RAN4 Tdoc	Spec	CR	R	Cat	Rel	Curr Ver	Title	Work Item
R4-040552	25.133	688	1	F	Rel-5	5.11.0	Removal of square brackets from requirements for number of reporting criteria for traffic volume measurements in cell_FACH state	TEI5
R4-040553	25.133	689	1	A	Rel-6	6.6.0	Removal of square brackets from requirements for number of reporting criteria for traffic volume measurements in cell_FACH state	TEI5
R4-040561	25.133	691	1	F	Rel-5	5.11.0	FDD/FDD Hard Handover test case clarification	TEI5
R4-040562	25.133	692	1	A	Rel-6	6.6.0	FDD/FDD Hard Handover test case clarification	TEI5

3GPP TSG RAN WG4 (Radio) Meeting #32 **R4-040552**

Prague, Czech Republic 16 - 20 August 2004

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CHANGE REQUEST

⌘ **25.133** **CR** **688** ⌘ **rev** **1** ⌘ Current version: **5.11.0** ⌘

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

Title:	⌘	Removal of square brackets from requirements for number of reporting criteria for traffic volume measurements in cell_FACH state
Source:	⌘	RAN WG4
Work item code:	⌘	TEI5
Date:	⌘	30/08/2004
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:

Ph2	*(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)*
Rel-7	*(Release 7)*

Reason for change:	⌘	Currently there is no requirements for how many reporting criteria the UE should support for traffic volume measurement in CELL_FACH state .
Summary of change:	⌘	It is defined that the UE has to support 2 reporting criteria for traffic volume measurements in CELL_FACH state Isolated Impact Analyses: Since currently there is not a requirement for the number of traffic volume reporting criteria that a UE has to support, some there may be different assumptions in a UE and a network. Hence, the CR may have an impact either on network or UE implementation
Consequences if not approved:	⌘	Maximum number of reporting criteria for traffic volume measurements in cell_FACH state is not defined. This may cause interoperability problems between a UE and network.

Clauses affected:	⌘	8.5.2

		Y	N			
Other specs affected:	⌘		X	Other core specifications	⌘	
			X	Test specifications		
			X	O&M Specifications		
Other comments:	⌘	Equivalent CRs in other Releases: CR689r1 cat. A to 25.133 Rel-6				

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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.

8.5.2 Requirements

In this section reporting criteria can be either event triggered reporting criteria or periodic reporting criteria.

Table 8.15: Requirements for reporting criteria per measurement category

Measurement category	E_{cat}	Note
Traffic volume measurements	~~1~~ 2	

3GPP TSG RAN WG4 (Radio) Meeting #32 **R4-040553**

Prague, Czech Republic 16 - 20 August 2004

CR-Form-v7.1

CHANGE REQUEST

⌘ **25.133** **CR** **689** ⌘ **rev** **1** ⌘ Current version: **6.6.0** ⌘

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

Title:	⌘	Removal of square brackets from requirements for number of reporting criteria for traffic volume measurements in cell_FACH state
Source:	⌘	RAN WG4
Work item code:	⌘	TEI5
Date:	⌘	30/08/2004
Category:	⌘	**A**
Release:	⌘	Rel-6

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:
Ph2 *(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)*
Rel-7 *(Release 7)*

Reason for change:	⌘	Currently there is no requirements for how many reporting criteria the UE should support for traffic volume measurement in CELL_FACH state
Summary of change:	⌘	It is defined that the UE has to support 2 reporting criteria for traffic volume measurements in CELL_FACH state Isolated Impact Analyses: Since currently there is not a requirement for the number of traffic volume reporting criteria that a UE has to support, some there may be different assumptions in a UE and a network. Hence, the CR may have an impact either on network or UE implementation
Consequences if not approved:	⌘	Maximum number of reporting criteria for traffic volume measurements in cell_FACH state is not defined. This may cause interoperability problems between a UE and network.

Clauses affected:	⌘	8.5.2			
Other specs	⌘	Y: ☐ N: ☒	Other core specifications	⌘	

affected:		X	Test specifications
		X	O&M Specifications
Other comments:	⌘	Equivalent CRs in other Releases: CR688r1 cat. F to 25.133 Rel-5	

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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.

8.5.2 Requirements

In this section reporting criteria can be either event triggered reporting criteria or periodic reporting criteria.

Table 8.15: Requirements for reporting criteria per measurement category

Measurement category	E_{cat}	Note
Traffic volume measurements	~~1~~ 2	

3GPP TSG RAN WG4 (Radio) Meeting #32 **R4-040561**

Prague, Czech Republic 16 - 20 August 2004

CR-Form-v7

CHANGE REQUEST

⌘ **25.133** **CR** **691** ⌘ **rev** **1** ⌘ Current version: **5.11.0** ⌘

*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:	⌘	FDD/FDD Hard Handover test case clarification.
Source:	⌘	RAN WG4
Work item code:	⌘	TEI5
Date:	⌘	30/08/2004
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 current test case is unnecessarily difficult to implement and could also be made more efficient.
Summary of change:	⌘	Correction of the HHO test cases: A.5.2.1.1: Redefined the start of period T3 and allowed the handover command to be sent earlier after the UE has reported the necessary event. A.5.2.1.2: Allowed T2 to be shorter than 5 seconds. Modified test requirements to take account of new definition of T3 A.5.2.2.1: Redefined the start of period T3 and allowed the handover command to be sent earlier after the UE has reported the necessary event. A.5.2.2.2: Allowed T2 to be shorter than 10 seconds. Modified test requirements to take account of new definition of T3 The change does not affect the UE implementation or what is being tested.
Consequences if not approved:	⌘	The test case implementation will be unnecessarily difficult and take longer than necessary to execute.

Clauses affected:	⌘	A.5.2.1.1, A.5.2.1.2, A.5.2.2.1, A.5.2.2.2

		Y	N			
Other specs affected:	⌘		X	Other core specifications	⌘	
		X		Test specifications		TS 34.121
			X	O&M Specifications		

Other comments:	⌘	This CR is applicable for UE's supporting Rel-5 or later. Equivalent CRs in other Releases: CR692r1 cat. A to 25.133 v6.6.0

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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.

A.5.2 FDD/FDD Hard Handover

A.5.2.1 Handover to intra-frequency cell

A.5.2.1.1 Test Purpose and Environment

The purpose of this test is to verify the requirement for the hard handover delay in CELL_DCH state in the single carrier case reported in section 5.2.2.1.

The test parameters are given in Table A.5.0 and A.5.0A below. In the measurement control information it is indicated to the UE that event-triggered reporting with Event 1A and 1B shall be used, and that CPICH Ec/Io and SFN-CFN observed timed difference shall be reported together with Event 1A. The test consists of three successive time periods, with a time duration of T1, T2 and T3 respectively. At the start of time duration T1, the UE may not have any timing information of cell 2.

UTRAN shall send a Physical Channel reconfiguration with activation time "now" with a new active cell, cell 2. The Physical Channel reconfiguration message shall be sent to the UE - ~~,so that the whole message is available at the UE the RRC procedure delay prior to the beginning of T3.in~~ during period T2, after the UE has reported event 1A. ~~The RRC procedure delay is defined [16].~~ T3 is defined as the end of the last TTI containing the physical channel reconfiguration message.

Table A.5.0: General test parameters for Handover to intra-frequency cell

Parameter		Unit	Value	Comment
DCH parameters			DL and UL Reference Measurement Channel 12.2 kbps	As specified in TS 25.101 section A.3.1 and A.2.1
Power Control			On	
Target quality value on DTCH		BLER	0.01	
Initial conditions	Active cell		Cell 1	
	Neighbouring cell		Cell 2	
Final condition	Active cell		Cell 2	
Reporting range		dB	3	Applicable for event 1A and 1B
Hysteresis		dB	0	
W			1	Applicable for event 1A and 1B
Reporting deactivation threshold			0	Applicable for event 1A
Time to Trigger		ms	0	
Filter coefficient			0	
T1		s	5	
T2		s	≤5	
T3		s	5	

Table A.5.0A: Cell specific test parameters for Handover to intra-frequency cell

Parameter	Unit	Cell 1			Cell 2		
		T1	T2	T3	T1	T2	T3
CPICH_Ec/Ior	dB	-10			-10		
PCCPCH_Ec/Ior	dB	-12			-12		
SCH_Ec/Ior	dB	-12			-12		
PICH_Ec/Ior	dB	-15			-15		
DPCH_Ec/Ior	dB	Note1	Note1	Note3	N/A	N/A	Note1
OCNS		Note2	Note2	Note2	-0.941	-0.941	Note2
$\hat{I}_{or}/I_{oc}$	dB	0	6.97		-Infinity	5.97	
I_{oc}	dBm/3.84 MHz	-70					
CPICH_Ec/Io	dB	-13			-Infinity	-14	
Propagation Condition		AWGN					
Note 1: The DPCH level is controlled by the power control loop Note 2: The power of the OCNS channel that is added shall make the total power from the cell to be equal to I_{or}. Note 3: The DPCH may not be power controlled by the power control loop.							

A.5.2.1.2 Test Requirements

The UE shall start to transmit the UL DPCCH to Cell 2 less than 190~~10~~ ms from the beginning of time period T3.

The rate of correct handovers observed during repeated tests shall be at least 90%.

A.5.2.2 Handover to inter-frequency cell

A.5.2.2.1 Test Purpose and Environment

The purpose of this test is to verify the requirement for the inter frequency hard handover delay in CELL_DCH state as specified in section 5.2.2.1.

The test consists of three successive time periods, with a time duration T1, T2 and T3. The test parameters are given in tables A.5.0B and A.5.0C below. In the measurement control information it is indicated to the UE that event-triggered reporting with Event 1A and 2C shall be used. The CPICH Ec/I0 of the best cell on the unused frequency shall be reported together with Event 2C reporting. At the start of time duration T1, the UE may not have any timing information of cell 2.

UTRAN shall send a Physical Channel reconfiguration with activation time "now" with one active cell, cell 2.

The Physical Channel reconfiguration message shall be sent to the UE during period T2, after the UE has reported event 2C. ~~so that the whole message is available at the UE the RRC procedure delay prior to the beginning of T3. The RRC procedure delay is defined [16].~~ T3 is defined as the end of the last TTI containing the physical channel reconfiguration message.

Table A.5.0B: General test parameters for Handover to inter-frequency cell

Parameter		Unit	Value	Comment
DCH parameters			DL and UL Reference Measurement Channel 12.2 kbps	As specified in TS 25.101 section A.3.1 and A.2.1
Power Control			On	
Target quality value on DTCH		BLER	0.01	
Compressed mode			A.22 set 1	As specified in TS 25.101 section A.5.
Initial conditions	Active cell		Cell 1	
	Neighbour cell		Cell 2	
Final conditions	Active cell		Cell 2	
Threshold non used frequency		dB	-18	Absolute Ec/I0 threshold for event 2C
Reporting range		dB	4	Applicable for event 1A
Hysteresis		dB	0	
W			1	Applicable for event 1A
W non-used frequency			1	Applicable for event 2C
Reporting deactivation threshold			0	Applicable for event 1A
Time to Trigger		ms	0	
Filter coefficient			0	
T1		s	5	
T2		s	≤10	
T3		s	5	

Table A.5.0C: Cell Specific parameters for Handover to inter-frequency cell

Parameter	Unit	Cell 1			Cell 2		
		T1	T2	T3	T1	T2	T3
UTRA RF Channel Number		Channel 1			Channel 2		
CPICH_Ec/Ior	dB	-10			-10		
PCCPCH_Ec/Ior	dB	-12			-12		
SCH_Ec/Ior	dB	-12			-12		
PICH_Ec/Ior	dB	-15			-15		
DPCH_Ec/Ior	dB	Note 1	Note 1	Note3	N/A	N/A	Note 1
OCNS		Note 2			-0.941	-0.941	Note 2
$\hat{I}_{or}/I_{oc}$	dB	0			-Infinity	-1.8	-1.8
I_{oc}	dBm/3.84 MHz	-70					
CPICH_Ec/Io	dB	-13			-Infinity	-14	-14
Propagation Condition		AWGN					
Note 1: The DPCH level is controlled by the power control loop Note 2: The power of the OCNS channel that is added shall make the total power from the cell to be equal to I_{or}. Note 3: The DPCH may not be power controlled by the power control loop.							

A.5.2.2.2 Test Requirements

The UE shall start to transmit the UL DPCCH to Cell 2 less than 220~~140~~ ms from the beginning of time period T3.

The rate of correct handovers observed during repeated tests shall be at least 90%.

3GPP TSG RAN WG4 (Radio) Meeting #32 **R4-040562**

Prague, Czech Republic 16 - 20 August 2004

CR-Form-v7

CHANGE REQUEST

⌘ **25.133** **CR** **692** ⌘ **rev** **1** ⌘ Current version: **6.6.0** ⌘

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

Title:	⌘	FDD/FDD Hard Handover test case clarification.
Source:	⌘	RAN WG4
Work item code:	⌘	TEI5
Date:	⌘	30/08/2004
Category:	⌘	**A**
Release:	⌘	Rel-6

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 current test case is unnecessarily difficult to implement and could also be made more efficient.
Summary of change:	⌘	Correction of the HHO test cases: A.5.2.1.1: Redefined the start of period T3 and allowed the handover command to be sent earlier after the UE has reported the necessary event. A.5.2.1.2: Allowed T2 to be shorter than 5 seconds. Modified test requirements to take account of new definition of T3 A.5.2.2.1: Redefined the start of period T3 and allowed the handover command to be sent earlier after the UE has reported the necessary event. A.5.2.2.2: Allowed T2 to be shorter than 10 seconds. Modified test requirements to take account of new definition of T3 The change does not affect the UE implementation or what is being tested.
Consequences if not approved:	⌘	The test case implementation will be unnecessarily difficult and take longer than necessary to execute.

Clauses affected:	⌘	A.5.2.1.1, A.5.2.1.2, A.5.2.2.1, A.5.2.2.2

Other specs affected:	⌘	Y	N		⌘	
			X	Other core specifications		
		X		Test specifications		TS 34.121
			X	O&M Specifications		

Other comments:	⌘	This CR is applicable for UE's supporting Rel-5 or later. Equivalent CRs in other Releases: CR691r1 cat. F to 25.133 v5.11.0

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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.

A.5.2 FDD/FDD Hard Handover

A.5.2.1 Handover to intra-frequency cell

A.5.2.1.1 Test Purpose and Environment

The purpose of this test is to verify the requirement for the hard handover delay in CELL_DCH state in the single carrier case reported in section 5.2.2.1.

The test parameters are given in Table A.5.0 and A.5.0A below. In the measurement control information it is indicated to the UE that event-triggered reporting with Event 1A and 1B shall be used, and that CPICH Ec/Io and SFN-CFN observed timed difference shall be reported together with Event 1A. The test consists of three successive time periods, with a time duration of T1, T2 and T3 respectively. At the start of time duration T1, the UE may not have any timing information of cell 2.

UTRAN shall send a Physical Channel reconfiguration with activation time "now" with a new active cell, cell 2. The Physical Channel reconfiguration message shall be sent to the UE - ~~,so that the whole message is available at the UE the RRC procedure delay prior to the beginning of T3.in~~ during period T2, after the UE has reported event 1A. ~~The RRC procedure delay is defined [16].~~ T3 is defined as the end of the last TTI containing the physical channel reconfiguration message.

Table A.5.0: General test parameters for Handover to intra-frequency cell

Parameter		Unit	Value	Comment
DCH parameters			DL and UL Reference Measurement Channel 12.2 kbps	As specified in TS 25.101 section A.3.1 and A.2.1
Power Control			On	
Target quality value on DTCH		BLER	0.01	
Initial conditions	Active cell		Cell 1	
	Neighbouring cell		Cell 2	
Final condition	Active cell		Cell 2	
Reporting range		dB	3	Applicable for event 1A and 1B
Hysteresis		dB	0	
W			1	Applicable for event 1A and 1B
Reporting deactivation threshold			0	Applicable for event 1A
Time to Trigger		ms	0	
Filter coefficient			0	
T1		s	5	
T2		s	≤5	
T3		s	5	

Table A.5.0A: Cell specific test parameters for Handover to intra-frequency cell

Parameter	Unit	Cell 1			Cell 2		
		T1	T2	T3	T1	T2	T3
CPICH_Ec/Ior	dB	-10			-10		
PCCPCH_Ec/Ior	dB	-12			-12		
SCH_Ec/Ior	dB	-12			-12		
PICH_Ec/Ior	dB	-15			-15		
DPCH_Ec/Ior	dB	Note1	Note1	Note3	N/A	N/A	Note1
OCNS		Note2	Note2	Note2	-0.941	-0.941	Note2
$\hat{I}_{or}/I_{oc}$	dB	0	6.97		-Infinity	5.97	
I_{oc}	dBm/3.84 MHz	-70					
CPICH_Ec/Io	dB	-13			-Infinity	-14	
Propagation Condition		AWGN					
Note 1: The DPCH level is controlled by the power control loop Note 2: The power of the OCNS channel that is added shall make the total power from the cell to be equal to I_{or}. Note 3: The DPCH may not be power controlled by the power control loop.							

A.5.2.1.2 Test Requirements

The UE shall start to transmit the UL DPCCH to Cell 2 less than 190~~10~~ ms from the beginning of time period T3.

The rate of correct handovers observed during repeated tests shall be at least 90%.

A.5.2.2 Handover to inter-frequency cell

A.5.2.2.1 Test Purpose and Environment

The purpose of this test is to verify the requirement for the inter frequency hard handover delay in CELL_DCH state as specified in section 5.2.2.1.

The test consists of three successive time periods, with a time duration T1, T2 and T3. The test parameters are given in tables A.5.0B and A.5.0C below. In the measurement control information it is indicated to the UE that event-triggered reporting with Event 1A and 2C shall be used. The CPICH Ec/I0 of the best cell on the unused frequency shall be reported together with Event 2C reporting. At the start of time duration T1, the UE may not have any timing information of cell 2.

UTRAN shall send a Physical Channel reconfiguration with activation time "now" with one active cell, cell 2.

The Physical Channel reconfiguration message shall be sent to the UE during period T2, after the UE has reported event 2C. ~~so that the whole message is available at the UE the RRC procedure delay prior to the beginning of T3. The RRC procedure delay is defined [16].~~ T3 is defined as the end of the last TTI containing the physical channel reconfiguration message.

Table A.5.0B: General test parameters for Handover to inter-frequency cell

Parameter		Unit	Value	Comment
DCH parameters			DL and UL Reference Measurement Channel 12.2 kbps	As specified in TS 25.101 section A.3.1 and A.2.1
Power Control			On	
Target quality value on DTCH		BLER	0.01	
Compressed mode			A.22 set 1	As specified in TS 25.101 section A.5.
Initial conditions	Active cell		Cell 1	
	Neighbour cell		Cell 2	
Final conditions	Active cell		Cell 2	
Threshold non used frequency		dB	-18	Absolute Ec/I0 threshold for event 2C
Reporting range		dB	4	Applicable for event 1A
Hysteresis		dB	0	
W			1	Applicable for event 1A
W non-used frequency			1	Applicable for event 2C
Reporting deactivation threshold			0	Applicable for event 1A
Time to Trigger		ms	0	
Filter coefficient			0	
T1		s	5	
T2		s	≤10	
T3		s	5	

Table A.5.0C: Cell Specific parameters for Handover to inter-frequency cell

Parameter	Unit	Cell 1			Cell 2		
		T1	T2	T3	T1	T2	T3
UTRA RF Channel Number		Channel 1			Channel 2		
CPICH_Ec/Ior	dB	-10			-10		
PCCPCH_Ec/Ior	dB	-12			-12		
SCH_Ec/Ior	dB	-12			-12		
PICH_Ec/Ior	dB	-15			-15		
DPCH_Ec/Ior	dB	Note 1	Note 1	Note3	N/A	N/A	Note 1
OCNS		Note 2			-0.941	-0.941	Note 2
$\hat{I}_{or}/I_{oc}$	dB	0			-Infinity	-1.8	-1.8
I_{oc}	dBm/3.84 MHz	-70					
CPICH_Ec/Io	dB	-13			-Infinity	-14	-14
Propagation Condition		AWGN					
Note 1: The DPCH level is controlled by the power control loop Note 2: The power of the OCNS channel that is added shall make the total power from the cell to be equal to I_{or}. Note 3: The DPCH may not be power controlled by the power control loop.							

A.5.2.2.2 Test Requirements

The UE shall start to transmit the UL DPCCH to Cell 2 less than 220~~140~~ ms from the beginning of time period T3.

The rate of correct handovers observed during repeated tests shall be at least 90%.