TSG-RAN Working Group 1 meeting #9 TSGR1#9(S Dresden, GermanyNovember 30 – December 3, 1999		
Agenda item:	AH 16	
Source:	Ericsson	
Title:	CR 25.215-005: Physical channel BER of	on DPCCH
Document for:	Decision	

The aim of this document is to incorporate one new measurement, Physical channel BER on DPCCH for UTRAN in TS 25.215.

During the WG1#8 meeting in New York document "R1-99g80 Physical channel BER on DPCCH in UTRA/FDD" was presented, proposing to introduce the Physical channel BER measured on DPCCH for UTRAN.

At the New York meeting support was given for the proposal. However, some concerns and questions on the measurement were also raised. These concerns and questions have now been addressed in offline discussions, so hopefully the measurement can be agreed at this meeting.

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Column field	Comment
Definition	Contains the definition of the measurement.
Range/mapping	Gives the range and mapping to bits for the measurements quantity.

5.2.1 RSSI

Definition	Received Signal Strength Indicator, the wide-band received power within the UTRAN uplink carrier channel bandwidth in an UTRAN access point. The reference point for the RSSI measurements shall be the antenna connector.
Range/mapping	

5.2.2 SIR

Definition	Signal to Interference Ratio, is defined as the RSCP divided by the ISCP. Measurement shall be performed on the DPCCH after RL combination in Node B. The reference point for the SIR measurements shall be the antenna connector.
Range/mapping	

5.2.3 Transmitted carrier power

Definition	Transmitted carrier power, is the total transmitted power on one carrier from one UTRAN access point. Measurement shall be possible on any carrier transmitted from the UTRAN access point. The reference point for the total transmitted power measurement shall be the antenna connector. In case of Tx diversity the total transmitted power for each branch shall be measured.
Range/mapping	

5.2.4 Transmitted code power

Definition	Transmitted code power, is the transmitted power on one carrier, one scrambling code and one channelisation code. Measurement shall be possible on any channelisation code transmitted from the UTRAN access point. The reference point for the transmitted code power measurement shall be the antenna connector. In case of Tx diversity the transmitted code power for each branch shall be measured.
Range/mapping	

5.2.5 Transport channel BLER

Definition	Estimation of the transport channel block error rate (BLER). The BLER estimation shall be based on evaluating the CRC on each transport block. Measurement shall be possible to perform on any transport channel after RL combination in Node B. BLER estimation is only required for transport channels containing CRC.
Range/mapping	

5.2.6 Physical channel BER

Definition	Measured on the DPDCH: The physical channel BER is an estimation of the average bit error rate (BER) before channel decoding of the DPDCH data after RL combination in Node B.
	Measured on the DPCCH: The Physical channel BER is an estimation of the average bit error rate (BER) on the DPCCH after RL combination in Node B.
	It shall be possible to report a physical channel BER estimate <u>, for both DPDCH and DPCCH</u> , at the end of each TTI for the transferred TrCh's, e.g. for TrCh's with a TTI of x ms a x ms averaged physical channel BER shall be possible to report every x ms.
Range/mapping	