3GPP/SMG Meeting #10 Beijing, China 18-21 January 2000

Document R1(00)0216 e.g. for 3GPP use the format TP-99xxx or for SMG, use the format P-99-xxx

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		25.211	CR	029r1	Cı	urrent Versio	on: V 3.1.1			
GSM (AA.BB) or 3G	(AA.BBB) specifica	tion number↑	↑ CR number as allocated by MCC support team							
For submission to: WG1 # 11 for approval X strategic (for SN non-strategic non-strategic use or								nly)		
Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc Proposed change affects: (at least one should be marked with an X) The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc WE UTRAN / Radio X Core Network										
Source:	Texas Instru	iments				Date:	24 Feb 2000)		
Subject:	Modification	s to STTD text								
Work item:	TS 25.211									
Category: A (only one category B shall be marked C with an X) P	Addition of	modification of fe		rlier release	X	Release:	Phase 2 Release 96 Release 97 Release 98 Release 99 Release 00	X		
Reason for change:	Better reada	ability and notatio	n for ST	TD descrip	tion					
Clauses affected	<u>5.3.2.1</u>									
affected:	Other 3G core Other GSM conspecificati MS test speci BSS test speci O&M specific	ons fications cifications	-		Rs: Rs: Rs:					
Other comments:										

<----- double-click here for help and instructions on how to create a CR.

5.3.2.1 STTD for DPCH

The pilot bit pattern for the DPCH channel transmitted on the diversity antenna is given in table 14. The shadowed part indicates pilot bits that are STTD encoded from the corresponding (shadowed) bits in Table 12. For the SF=256 DPCH, if there are only two dedicated pilot bits ($N_{pilot} = 2$ in Tables 12 and 14), they are STTD encoded together with the last two bits (data or DTX) of the second data field (data2) of the slot.

- For N_{pilot} = 8, 16 the shadowed part indicates pilot bits that are obtained by STTD encoding the corresponding (shadowed) bits in Table 12. The non-shadowed pilot bit pattern is orthogonal to the corresponding (non-shadowed) pilot bit pattern in table 12.
- For N_{pilot} = 4, the diversity antenna pilot bit pattern is obtained by STTD encoding both the shadowed and non-shadowed pilot bits in table 12.
- For $N_{pilot} = 2$, the diversity antenna pilot pattern is obtained by STTD encoding the two pilot bits in table 12 with the last two bits (data or DTX) of the second data field (data2) of the slot. Thus for $N_{pilot} = 2$ case, the last two bits of the second data field (data 2) after STTD encoding, follow the diversity antenna pilot bits in Table 14.

STTD encoding for the DPDCH, TPC, and TFCI fields is done as described in section 5.3.1.1.1. For the SF=512 DPCH, the first two bits in each slot, i.e. TPC bits, are not STTD encoded and the same bits are transmitted with equal power from the two antennas. The <u>following remaining</u> four bits are STTD encoded.

Table 14: Pilot pattern of the DPCH channel for the diversity antenna using STTD

	N pilot = 2	Npilot = 4		Npilot = 8			Npilot = 16								
Symbol #		0	1	0	1	2	3	0	1	2	3	4	5	6	7
Slot #0	01	01	10	11	00	00	10	11	00	00	10	11	00	00	10
1	10	10	10	11	00	00	01	11	00	00	01	11	10	00	10
2	11	11	10	11	11	00	00	11	11	00	00	11	10	00	11
3	10	10	10	11	10	00	01	11	10	00	01	11	00	00	00
4	00	00	10	11	11	00	11	11	11	00	11	11	01	00	10
5	01	01	10	11	00	00	10	11	00	00	10	11	11	00	00
6	01	01	10	11	10	00	10	11	10	00	10	11	01	00	11
7	00	00	10	11	10	00	11	11	10	00	11	11	10	00	11
8	11	11	10	11	00	00	00	11	00	00	00	11	01	00	01
9	01	01	10	11	01	00	10	11	01	00	10	11	01	00	01
10	11	11	10	11	11	00	00	11	11	00	00	11	00	00	10
11	00	00	10	11	01	00	11	11	01	00	11	11	00	00	01
12	00	00	10	11	10	00	11	11	10	00	11	11	11	00	00
13	10	10	10	11	01	00	01	11	01	00	01	11	10	00	01
14	10	10	10	11	01	00	01	11	01	00	01	11	11	00	11