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|---|-------------------|--|-------------------------------------|
| <h2 style="margin: 0;">CHANGE REQUEST</h2> | | Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly. | |
| 25.214 | CR | Current Version: | 3.0.0 |
| GSM (AA.BB) or 3G (AA.BBB) specification number ↑ | | ↑ CR number as allocated by MCC support team | |
| For submission to: | TSG RAN #6 | for approval | <input checked="" type="checkbox"/> |
| list expected approval meeting # here ↑ | | for information | <input type="checkbox"/> |
| | | strategic | <input type="checkbox"/> |
| | | non-strategic | <input type="checkbox"/> |
| | | (for SMG use only) | |

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: (U)SIM ME UTRAN / Radio Core Network
 (at least one should be marked with an X)

Source: **NEC** **Date:** **1999-11-24**

Subject: **Revision of power control timing text**

Work item: _____

| | | | |
|---|--|-----------------|--|
| Category: | F Correction <input type="checkbox"/> | Release: | Phase 2 <input type="checkbox"/> |
| | A Corresponds to a correction in an earlier release <input type="checkbox"/> | | Release 96 <input type="checkbox"/> |
| (only one category shall be marked with an X) | B Addition of feature <input type="checkbox"/> | | Release 97 <input type="checkbox"/> |
| | C Functional modification of feature <input checked="" type="checkbox"/> | | Release 98 <input type="checkbox"/> |
| | D Editorial modification <input type="checkbox"/> | | Release 99 <input checked="" type="checkbox"/> |
| | | | Release 00 <input type="checkbox"/> |

Reason for change: **According to the modifications on the downlink slot format introduced by 25.211-CR007, Figure B-1 should be updated. Terminology is also updated.**

Clauses affected: **Annex B**

| | | | |
|------------------------------|--|----------------|---------------------|
| Other specs Affected: | Other 3G core specifications <input checked="" type="checkbox"/> | → List of CRs: | 25.211-CR007 |
| | Other GSM core specifications <input type="checkbox"/> | → List of CRs: | |
| | MS test specifications <input type="checkbox"/> | → List of CRs: | |
| | BSS test specifications <input type="checkbox"/> | → List of CRs: | |
| | O&M specifications <input type="checkbox"/> | → List of CRs: | |

Other comments: _____

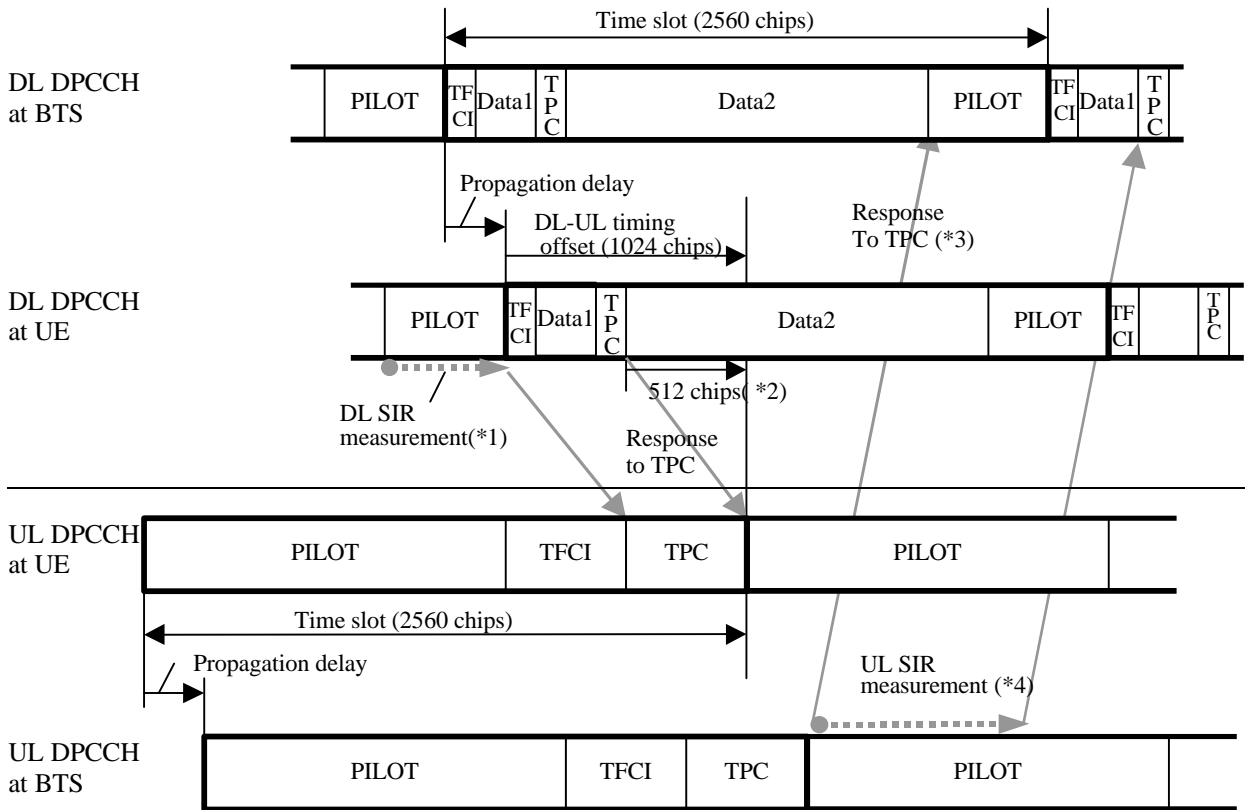
Annex B (Informative): Power control timing

The power control timing described in this annex should be seen as an example on how the control bits have to be placed in order to permit a short TPC delay.

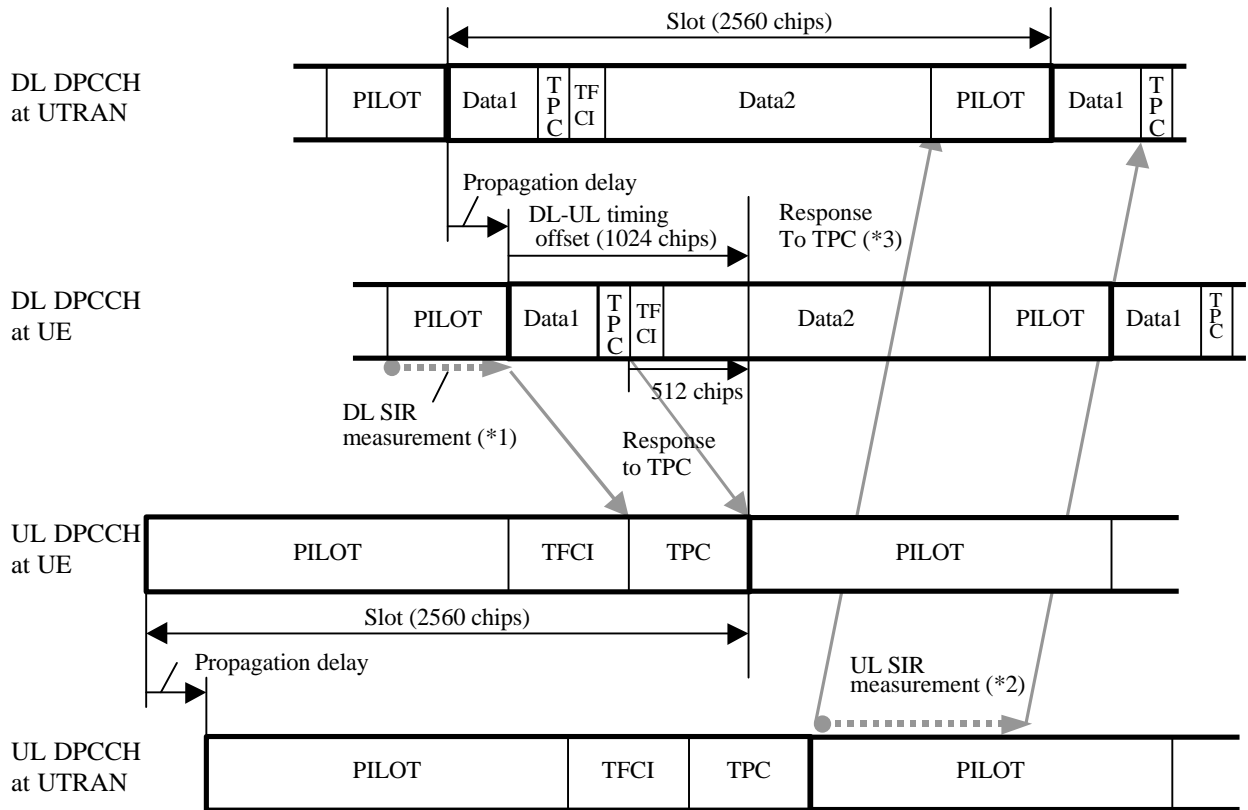
In order to maximise the ~~BTS-UE~~ cell radius distance within which one-slot control delay is achieved, the frame timing of an uplink DPCH is delayed by 1024 chips -from that of the corresponding downlink DPCH measured at the UE antenna.

Responding to a downlink TPC command, the UE -shall change its uplink DPCH output power at the beginning of the first uplink pilot field after the TPC command reception. Responding to an uplink TPC command, ~~BTS-the UTRAN access point~~ shall change its DPCH output power at the beginning of the next downlink pilot field after the reception of the whole TPC command. Note that in soft handover, the TPC command is sent over one slot when DPC_MODE is 0 and over three slots when DPC_MODE is 1. Note also that the delay from the uplink TPC command reception to the power change timing is not specified for ~~BTS~~UTRAN. The UE -shall decide and send TPC commands on the uplink based on the downlink SIR measurement. The TPC command field on the uplink starts, when measured at the UE antenna, 512 chips after the end of the downlink pilot field. ~~BTS-The UTRAN access point~~ shall decide and send TPC commands based on the uplink SIR measurement. However, the SIR measurement periods are not specified either for UE nor ~~BTS~~UTRAN.

Figure B-1 illustrates an example of transmitter power control timings.



*1,4 The SIR measurement periods illustrated here are examples. Other ways of measurement are allowed to achieve accurate SIR estimation.
 *2 Except the case of DL symbol rate=7.5ksps.
 *3 If there is not enough time for BTS to respond to the TPC, the action can be delayed until the next slot.



*1,2 The SIR measurement periods illustrated here are examples. Other ways of measurement are allowed to achieve accurate SIR estimation.

*3 If there is not enough time for UTRAN to respond to the TPC, the action can be delayed until the next slot.