**Table 13.3.1.1.3.2-1: Time instances of cell power level and parameter changes**

| | Parameter | Unit | Cell 1 | Remark |
|---|---|---|---|---|
| T0 | RS EPRE | dBm/15kHz | $P_{default}$ | Power level from 36.508 clause 6.2.2.1. $P_{default}$ as serving cell. |
| T1 | RS EPRE | dBm/15kHz | $P_{off}$ | $P_{off}$ as as non-suitable "Off" cell. |
| T2 | RS EPRE | dBm/15kHz | $P_{default}$ | $P_{default}$ as serving cell. |

**Table 13.3.1.1.3.2-2: Main behaviour**

| St | Procedure | Message Sequence | | TP | Verdict |
|---|---|---|---|---|---|
| | | U - S | Message | - | - |
| 1 | The SS transmits one IP packet to the UE on the DRB associated with the default EPS bearer context on Cell 1. | <-- | IP packet | - | - |
| 2 | The SS reduce DL RS TX power level of Cell 1 from "T0" to "T1" in table 13.3.1.1.3.2-1. | - | - | - | - |
| 3 | The SS waits for 1.5s. T310 is 2s. | - | - | - | - |
| 4 | The SS recovers DL RS TX power level of Cell 1 from "T1" to "T2" in table 13.3.1.1.3.2-1. | - | - | - | - |
| 5 | Check: Does the UE loop back the IP packet on the DRB associated with the default EPS bearer context on Cell 1?( Note 1) | --> | IP packet | 1 | P |
| Note 1: Triggered when timer T_delay_modeB (IP PDU delay time) expires and pending uplink data exist in buffered PDCP SDUs according to [25] clause 5.4.4.3. | | | | | |

13.3.1.1.3.3 Specific message contents

**Table 13.3.1.1.3.3-1: ACTIVATE TEST MODE (preamble, Table 13.3.1.1.3.2-2)**

| Derivation Path: 36.508, Table 4.7A-1, condition UE TEST LOOP MODE B |
|---|

**Table 13.3.1.1.3.3-2: CLOSE UE TEST LOOP (preamble, Table 13.3.1.1.3.2-2)**

| Derivation Path: 36.508, Table 4.7A-3, condition UE TEST LOOP MODE B | | | |
|---|---|---|---|
| **Information Element** | **Value/remark** | **Comment** | **Condition** |
| UE test loop mode B LB setup | | | |
| IP PDU delay | 0 0 0 0 0 1 0 1 | 5 seconds | |

**Table 13.3.1.1.3.3-3: SystemInformationBlockType2 (preamble and all steps, Table 13.3.1.1.3.2-2)**

| Derivation path: 36.508 table 4.4.3.3-1 | | | |
|---|---|---|---|
| **Information Element** | **Value/Remark** | **Comment** | **Condition** |
| SystemInformationBlockType2 ::= SEQUENCE { | | | |
| ue-TimersAndConstants { | | | |
| t310 | ms2000 | | |
| } | | | |
| } | | | |

## 13.3.1.2 Intra-system connection re-establishment / Re-establishment of a new connection when further data is to be transferred

13.3.1.2.1 Test Purpose (TP)

(1)

```
with { UE in E-UTRA RRC_CONNECTED state }
ensure that {
```

```
  when { UE detects radio link failure on expiry of timer T310 }
   then { UE starts timer T311 and UE initiates the RRC Connection re-establishment procedure }
            }
```

(2)

```
with { UE in E-UTRA RRC_CONNECTED state }
ensure that {
  when { UE detects radio link failure and successfully completes the RRC Connection re-
establishment procedure and has data available for transmission }
   then { UE use the DRB configured by network side and resume the data transfer }
            }
```

#### 13.3.1.2.2 Conformance requirements

Refer to TS 36.523-1 clause 8.5.1.1.2.

#### 13.3.1.2.3 Test description

##### 13.3.1.2.3.1 Pre-test conditions

System Simulator:

- 2 cells on same E-UTRA frequency:
  - Cell 1 (default parameters) serving cell
  - Cell 2 intra-frequency cell

UE:

None.

Preamble:

- The condition SRB2-DRB(1,0) is used for step 8 in 4.5.3A.3 according to [18].
- The UE is in state Loopback Activated (state 4) on Cell 1 according to [18] using the UE TEST LOOP MODE B.

13.3.1.2.3.2 Test procedure sequence

**Table 13.3.1.2.3.2-2: Main behaviour**

| St | Procedure | Message Sequence | | TP | Verdict |
|---|---|---|---|---|---|
| | | U - S | Message | - | - |
| 1 | The SS transmits one IP packet to the UE on the DRB associated with the default EPS bearer context on Cell 1. | <-- | IP packet | - | - |
| 2 | The SS changes the power level of cell 1 to non-suitable "Off" and changes the power level of cell 2 to suitable according to TS 36.508 subclause 6.2.2.1 in order that the radio link quality of Cell 1 is degraded. | - | - | - | - |
| 3 | Check: Does the UE initiate an RRC connection re-establisment procedure and transmit an *RRCConnectionReestablishmentRequest* message on Cell 2? | --> | *RRCConnectionReestablishment Request* | 1 | P |
| 4 | The SS transmits *RRCConnectionReestablishment* message | <-- | *RRCConnectionReestablishment* | - | - |
| 5 | UE transmits an *RRCConnectionReestablishmentComplete* message | --> | *RRCConnectionReestablishment Complete* | - | - |
| 6 | The SS transmits *RRCConnectionReconfiguration* message | <-- | *RRCConnectionReconfiguration* | - | - |
| 7 | UE transmits an *RRCConnectionConfigurationComplete* message | --> | *RRCConnectionReconfigurationC omplete* | - | - |
| 8 | Check: Does the UE loop back the IP packet on the DRB associated with the default EPS bearer context on Cell 2? | --> | IP packet | 2 | P |

13.3.1.2.3.3 Specific message contents

None.

# 13.4 Mobility

## 13.4.1 Intra-system mobility

### 13.4.1.2 Inter-frequency mobility / E-UTRA to E-UTRA packet

#### 13.4.1.2.1 Test Purpose (TP)

(1)

```
with { UE has a default EPS bearer context }
ensure that {
  when { UE receives downlink data on the radio bearer associated with the default EPS bearer
context }
    then { UE delivers the downlink data to upper layers }
          }
```

(2)

```
with { UE has a default EPS bearer context }
ensure that {
  when { uplink data are submitted for transmission }
    then { UE transmits the uplink data on the radio bearer associated with the default EPS bearer
context }
            }
```

(3)

```
with { UE has a default EPS bearer context and successful completion of the inter-frequency handover
}
```