|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| *TEST CASE DESCRIPTION* | | | | | | | |
|  | | Code | Version | | Title | | |
| Test Case | | 4.2.4 | 2 | | Level transition from L1 to L0+LZB. Standard operating conditions. | | |
|
| Baseline applicable | | Baseline 2 (2.3.0.d) | | | | | |
| Test case author | | ADIF | | | | | |
| Test Objective(s) | | Verify that the transition from level 1 to level L0 + LZB is performed correctly and without abrupt changes in the permitted speed. | | | | | |
| Diagram | |  | | | | | |
| Starting conditions | | Level | | | | 1 | |
| Mode | | | | FS | |
| Train Speed (km/h) | | | | Maximum permitted speed | |
| Additional starting conditions | | | | The train is approaching a BG with level L0 + LZB transition announcement and the signals ahead are in permissive aspect | |
| Sequence of the Test Case | | Checkpoints | | | | | |
| Step | Step description | Interfaces | | Description of what to be tested at the interface | | | OK? |
| 1 | The train receives the level transition announcement via balise group. | DMI (O) | | Level L0 transition announcement is displayed | | |  |
| DMI (I) | |  | | |  |
| JRU | | M\_LEVEL = 2  M\_MODE = 0  Packet 41  D\_LEVELTR = D1  M\_LEVELTR = 0  L\_ACKLEVELTR = L1    L1 = 5 sec. x Vmax (track section)  START DISPLAYING TEXT MESSAGE (1) | | |  |
| 2 (\*) (\*\*) | The train passes a BKW/CDI point with the rear End.  LZB onboard unit enters in “transmission mode”. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | |  | | |  |
| 3 (\*) | The EVC runs the distance “D1-L1” at which the acknowledgement window of the transition to Level 0 is shown to the driver. | DMI (O) | | Level 0 acknowledgement is displayed | | |  |
| DMI (I) | |  | | |  |
| JRU | | START DISPLAYING TEXT MESSAGE (2)  Estimated front end=D1-L1-L\_DOUBTUNDER | | |  |
| 4 (\*) | The driver acknowledges the level transition | DMI (O) | | Level 0 acknowledgement disappears | | |  |
| DMI (I) | | Driver acknowledges the level transition. | | |  |
| JRU | | M\_DRIVERACTIONS = 6  STOP DISPLAYINGTEXT MESSAGE (2) | | |  |
| 5 | The EVC runs the distance "D1" or the balise group with level transition order to Level 0 is read. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | | Packet 41  D\_LEVELTR =32767  M\_LEVELTR = 0 | | |  |
| 6 | The EVC switches to Level 0 (no jumps in the permitted speed are observed at the level transition between the ETCS and the LZB system). | DMI (O) | | Level 0 Symbol  UN Symbol  L0 transition announcement disappears | | |  |
| DMI (I) | |  | | |  |
| JRU | | M\_LEVEL=0  M\_MODE=4  STOP DISPLAYINGTEXT MESSAGE (1) | | |  |
| 7 (\*\*) | LZB system continues with transmission mode. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | |  | | |  |
| Final state | | Level | | 0 | | |  |
| Mode | | UN | | |  |
| Train Speed (km/h) | | Maximum permitted speed | | |  |
| Other parameters | |  | | |  |
| Final Test Result | |  | | | | | |
| Field of Application | | Spain | | | | | |
| Briefing instructions | | This test case shall be executed with the maximum train length  (\*) These steps could be executed in different order.  (\*\*) These steps should be checked in the LZB onboard unit. | | | | | |