|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| *TEST CASE DESCRIPTION* | | | | | | | |
|  | | Code | Version | | Title | | |
| Test Case | | 4.1.1 | 2 | | Level transition from L0 + LZB to L2. Signal at proceed aspect. | | |
|
| Baseline applicable | | Baseline 3 | | | | | |
| Test case author | | ADIF | | | | | |
| Test Objective(s) | | Verify that the transition from level L0 + LZB to level 2 is performed correctly. | | | | | |
| Diagram | |  | | | | | |
| Starting conditions | | Level | | | | 0 | |
| Mode | | | | UN | |
| Train Speed (km/h) | | | | Maximum permitted speed | |
| Additional starting conditions | | | | The train is approaching the level transition to Level 2 at the maximum speed of the line and the signal at the transition border displays proceed aspect. | |
| Sequence of the Test Case | | Checkpoints | | | | | |
| Step | Step description | Interfaces | | Description of what to be tested at the interface | | | OK? |
| 1 | The EVC receives the order to connect with the RBC via balise group. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | | Packet 42  NID\_RBC  NID\_RADIO | | |  |
| Q\_RBC = 1  Q\_SLEEPSESSION = 0 | | |
| 2 | The EVC starts to establish safe radio connection. | DMI (O) | | Safe radio connection “Connection Up” symbol is displayed. | | |  |
| DMI (I) | |  | | |  |
| JRU | | Message 155  Message 32  Message 159 | | |  |
| Message 129  Message 8  DMI\_SYMB\_STATUS  ST03 | | |
| 3 (\*) (\*\*)  (\*\*\*) | The LZB equipment runs the distance at which the acknowledgement of the transition to “End of LZB” is shown to the driver. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | |  | | |  |
| 4 (\*) (\*\*)  (\*\*\*) | The driver acknowledges the “End of LZB”. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | |  | | |  |
| 5 (\*) | The train receives the level transition announcement via balise group or RBC. | DMI (O) | | Level 2 transition announcement is displayed | | |  |
| DMI (I) | |  | | |  |
| JRU | | (LRBG1)  (if received from RBC Message 3/24/33)  Packet 41 | | |  |
| D\_LEVELTR = D1  M\_LEVELTR = 3  DMI\_SYMB\_STATUS  LE12  START DISPLAYING TEXT MESSAGE | | |
| 6 | The EVC receives a MA from the RBC. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | | Message 3  Packet 15  Packet 21 | | |  |
| Packet 27 | | |
| 7 | The EVC runs the distance "D1" or the balise group with level transition order to L2 is read. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | | Packet 41  D\_LEVELTR = 32767 | | |  |
| M\_LEVELTR = 3 | | |
| 8 | Transition to L2 is performed. | DMI (O) | | Level 2 Symbol | | |  |
| FS Symbol  Vpermitted does not decrease  Level 2 transition announcement disappears | | |
| DMI (I) | |  | | |  |
| JRU | | M\_LEVEL= 3  M\_MODE = 0 | | |  |
| DMI\_SYMB\_STATUS  LE04, MO11  STOP DISPLAYING TEXT MESSAGE | | |
| 9 | The EVC reports to the RBC the train position due to the level transition. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | | Message 136  Packet 0 | | |  |
| M\_LEVEL=3 | | |
| 10 (\*\*)  (\*\*\*) | LZB equipment changes to “No transmission” mode.  Train continues in L2 + LZB without transmission | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | |  | | |  |
| Final state | | Level | | 2 | | |  |
| Mode | | FS | | |  |
| Train Speed (km/h) | | Maximum permitted speed | | |  |
| Other parameters | |  | | |  |
| Final Test Result | |  | | | | | |
| Field of Application | | Spain | | | | | |
| Briefing instructions | | (\*) These steps could take place at any different order  (\*\*) In case that the LZB continues into the line, the train will continue with LZB in Transmission mode and these steps will not take place.  (\*\*\*) These steps should be checked in the LZB onboard unit. | | | | | |