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| *TEST CASE DESCRIPTION* | | | | | | | |
|  | | Code | Version | | | Title | |
| Test Case | | 3.17.8 | 1 | | | Level transition from L2 to LSTM LZB. | |
|
| Baseline applicable | | Baseline 2 (2.3.0.d) | | | | | |
| Test case author | | ADIF | | | | | |
| Test Objective(s) | | Verify that the transition from level 2 to level STM LZB is performed correctly. | | | | | |
| Diagram | |  | | | | | |
| Starting conditions | | Level | | | 2 | | |
| Mode | | | FS | | |
| Train Speed (km/h) | | | Maximum permitted speed | | |
| Additional starting conditions | | | The train is approaching the level transition to LZB at the maximum speed of the line and the last lineside signal in the Level 2 area displays proceed aspect and all the marker boards at the level LZB area are also in proceed aspect.  A level 2 movement authority beyond the transition border is stored onboard (\*). | | |
| 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 or by RBC. | DMI (O) | | Level STM LZB transition announcement | | |  |
| DMI (I) | |  | | |  |
| JRU | | (LRBG1)  (If received from RBC Message 3/24/33)  Packet 41  D\_LEVELTR = D1  M\_LEVELTR = 1  L\_ACKLEVELTR = L1  NID\_STM  START DISPLAYING TEXT MESSAGE (1) | | |  |
| 2 | The EVC runs the distance “D1-L1” at which the acknowledgement window of the transition to Level STM LZB is shown to the driver. | DMI (O) | | Level STM LZB acknowledgement is displayed | | |  |
| DMI (I) | |  | | |  |
| JRU | | START DISPLAYINGTEXT MESSAGE (2)  Estimated front end=D1-L1-L\_DOUBTUNDER | | |  |
| 3 | The train passes over a CDI and enters in LZB transmission. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | |  | | |  |
| 4 | The driver acknowledges the level transition. | DMI (O) | | Level STM LZB acknowledgement disappears | | |  |
| DMI (I) | | Driver acknowledges the level transition. | | |  |
| JRU | | M\_DRIVERACTIONS = 10  STOP DISPLAYINGTEXT MESSAGE (2) | | |  |
| 5 | The train runs the distance "D1" or the balise group with level transition order to LSTM LZB is read. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | | (LRBG2)  Packet 41  D\_LEVELTR =32767  M\_LEVELTR = 1  NID\_STM = 10 (LZB) | | |  |
| 6 | The EVC switches to Level STM LZB (the permitted speed does not decrease abruptly). | DMI (O) | | Level STM Symbol  SN Symbol  Constant Vpermitted  LSTM LZB transition announcement disappears | | |  |
| DMI (I) | |  | | |  |
| JRU | | M\_LEVEL=1  M\_MODE=13  STOP DISPLAYING TEXT MESSAGE (1) | | |  |
| 7 | The train reports its position to the RBC due to the level transition. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | | Message 136  Packet 0  M\_LEVEL=1 | | |  |
| 8 | The EVC runs the distance of the train from the transition border. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | | Message 136  Packet 0/1  Estimated front end (LRBG2) = L\_TRAIN + L\_DOUBTOVER | | |  |
| 9 | The RBC sends an order to terminate the communication session and the termination of the communication session is performed. | DMI (O) | | Radio Connection Symbol disappears | | |  |
| DMI (I) | |  | | |  |
| JRU | | Message 3/24/33  Packet 42  Q\_RBC=0  Message 156  Message 39 | | |  |
| 10 | STM LZB continues with transmission mode. | DMI (O) | |  | | |  |
| DMI (I) | |  | | |  |
| JRU | |  | | |  |
| Final state | | Level | | STM | | |  |
| Mode | | SN | | |  |
| Train Speed (km/h) | | NR | | |  |
| Other parameters | |  | | |  |
| Final Test Result | |  | | | | | |
| Field of Application | | Spain | | | | | |
| Briefing instructions | | (\*) In any case to enter the LZB area the EVC must have information of the new area. This information can be transmitted as MA and track description of the new area.  In case the train is equipped with L0+LZB instead of STM LZB, the test case shall be performed to verify de transition from L2 to L0+ LZB. | | | | | |