Work Instruction - Operations

DYNAMIC DEPARTURE TEST WORK INSTRUCTION

HITACHI

Hitachi Rail Honolulu JV

Work Description: The purpose of this document is to establish a departure tests procedure aimed at making sure that the train is safe, reliable, and efficient for passenger service. Responsibilities of Operations personnel are described in HNL-09419 Roles and Responsibility of Operation Personnel
Scope: This document is applicable for the Operation and Maintenance Services on the HRH
References: HNL-09510 - Minimum Operating Conditions Work Instruction, HNL-09419 - Roles and Responsibility of Operation Personnel, HNL-09512 Train Handover Between Operations and Maintenance Work Instruction, HNL-09729 Train Handover Between Operations and Maintenance Form, HNL- 09528 Train Movement in Manual Area Work Instruction

PPE and precautions	Competencies or qualifications	Licenses or permits required
Nil	Railcar Leading Technician, Train Controller, Railcar Technician	Nil

Tools and equipment required
Nil

Responsibilities	Responsibilities of Operations personnel are described in HNL-09419 Roles and Responsibilities of Operation Personnel.

Vehicle Equipment Inspection after Maintenance	The Vehicle Equipment Inspection shall be performed in the Vehicle Inspection Tracks located in the OSB. The maintenance technician shall make sure that the following devices/equipment are in good order: • Emergency Driving Panel • Emergency Handles • Handrails • Fire Extinguishers • Interior/Exterior Lightings • Fire Detection Units • The train systems status shall meet the minimum operating conditions stated in HNL-09510 - Minimum Operating Conditions
Dynamic Departure Tests after Maintenance	After maintenance, a train needs to undergo a successful dynamic departure test on the test track. In particular, the dynamic departure test is strictly required in the event the following train systems have been maintained: • Traction system • Braking system • Doors • ATC • Boogies • Emergency driving panel
Railcar leading Technician	The Railcar Leading Technician shall: • Instruct the maintenance technician about the activities to be performed on the Test Track • Inform the Train Controller about the need to move the train from the OSB shop to the Test Track • Agree with the Train Controller upon the required course of action on the basis of the outcomes of the tests
Train Controller	The Train Controller shall: • Authorize the occupancy of the Westyard transition platform • Once confirmed that the train is in AUTO mode and A-end is master, move the train towards the platform 1 of the test track • Oversee the Dynamic Departure test as required

Approved By: **Signature:** **Date:**	☐ Director, Operations and Maintenance	☐ Department Manager	☐ Manager, HSE (Operations and Maintenance)

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Railcar Technician

The Railcar technician shall:

- Once the Train Controller authorizes the occupancy of the Westyard transition platform, move the train to the Westyard transition platform according to the applicable procedure HNL- 09528 Train movements in manual area
- Once the train is in place, put it in AUTO mode and then reset the ATC
- Confirm that the Train is in AUTO mode from the ADU
- Confirm that both ATC racks are on and that A-end is master
- Assist the test based on the instructions coming from the Railcar Leading technician
- Inform the Leading technician about the outcomes
- After the tests, wait for instructions from the Railcar Leading Technician

The following table highlights the detailed interaction between OCC and Railcar Technician during a Dynamic Departure Test:

Step	Railcar Technician	Train Controller
1	Request Train Controller to issue DDT command	-
2	As vehicle receives the DDT command, make sure that: • The Departure test LED will blink on ADU • The ATC racks change mastership (if this does not happen inform OCC)	-
3	Request OCC to release the train	Upon technician request, release any active hold
4	The vehicle will proceed the Platform 2 of Test Track	-
5	During the travel, the vehicle will initiate an over speed condition and the vehicle will stop. If the vehicle does not initiate the over speed condition, the DDT is failed. Move the train back to platform 1 of test track, reset the vehicle and start over from step 3. Or else, continue with step 6	Report the progress status of DDT test.
6	Request OCC to send a data radio hold release command to release the vehicle. After released, the vehicle will continue to move towards Platform 2 of Test Track	Issue data radio hold release command
7	Once the vehicle stops in Test Track Platform 2, the doors will open. Wait for the vehicle to flip vehicle ends. Check this on ADU whether the lead is changed towards Test Track Platform 1	-
8	Request OCC to close the doors	Issue TWC door close command
9	Press the release/depart button or request control to release the vehicle	-
10	Upon reaching Platform 1, the vehicle doors will open	-
11	Once vehicle doors opened, ask OCC the status of DDT test	Report the status of DDT test.
12	If DDT is passed the train can be handed over to operations according to the relevant process within HNL-09512 Train Handover Between Operations and Maintenance Work Instruction. If DDT is failed, the train shall be brought back to the OSB shop for further troubleshooting.	-

Verdicts

A "Failed" verdict shall be given for each vehicle that fails any element of the departure test. A failed vehicle shall not be placed in service until corrective action is taken and a new departure test is passed.