Work Instruction - Operations

TRAIN DATA RADIO FAILURE WORK INSTRUCTION

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@Hitachi Rail Honolulu JV

Work Description: This work	instruction describes the steps to handle train data radio failure	
Scope: This work instruction i	is written specifically for OCC operating staff of Honolulu Rail Trai	nsit.
References: HNL-09510 Minim	mum Operating Conditions Work Instruction, HNL-09527 Fault Re	eporting Process Work Instruction
PPE and precautions	Competencies or qualifications	Licenses or permits required
Nil	Train Controller, Engineering & Fault Controller, Information Controller, Train & Stations Manager, OCC Supervisor, Train Operator	Nil
Tools and equipment require	ed	
Nil		

Complete Data Radio Failure on a Train



Note

Each E-Car has a Transportation Mobile Unit (TMU) connected to the on-board communication system network. This on-board dual architecture TMUs (one from each E-Car) within a train provides a redundant radio system such that a single TMU failure will not affect the data radio communication. Data radio failures are detected and notified at OCC by ATS and Communications workstations. In case of a complete failure (i.e. both TMUs fail), the following functionalities will not be available on the train:

- On Board PA/PIS
- On Board ECP (T-Tel)
- On Board CCTV streaming to OCC
- ATC Radio commands

In this circumstance, the train shall be manned by a Train Operator until such time the train is removed from service (see HNL-09510 Minimum Operating Conditions Work Instruction).

Train Controller

You must

- Tell all OCC operating staff of the data radio communication failure on the train
- If there is no Train Operator on board, dispatch a Train Operator to get on the train at the specific station
- Tell the Train Operator to stay on board and be responsible to aid passengers in the absence of onboard PA/PIS, T-Tel, CCTV, until the train is taken out of service
- On instructions from the OCC Supervisor:
 - Arrange a replacement train with the Yard Controller
 - Confirm the train is empty before taking the train off service and to the Yard
- Log the event in the Train Controller Log

OCC Supervisor

You must:

- Decide the best strategy to continue the degraded service or replace the faulty train in accordance with HNL-09510 Minimum Operating Conditions Work Instruction
- Log the event in the OCC Supervisor Daily Report

Information Controller

You must:

- Wait until the Train Operator is on board the train then tell the Train Operator (via voice radio) to make local announcements as required communicate with the Train Operator via voice radio
- With the assistance from the Train Operator, check and confirm CCTV, PA/PIS, ECP/T-TEL on the affected train are inoperable
- Log the event in the Information Controller Log

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

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Train Operator

You must:

- On instructions from the Train Controller, get on board the specified train from the specified station (if not already on board the train)
- Aid passengers in the absence of onboard PA/PIS, CCTV, T-TEL
- Provide feedback to Information Controller on the functionality tests of the onboard PA/PIS, T-TEL, CCTV
- If the train data radio failure is confirmed, in coordination with OCC disembark all passengers at the designated station
- Monitor conditions on board the train and inform the Train Controller of any anomaly
- On instructions from the Train Controller, accompany the train to the Yard or exit the train at the specified station

Engineering & Fault Controller

You must:

- Record the fault in the MMIS according to HNL-09527 Fault Reporting Process and coordinate with the maintenance team for maintenance intervention
- Monitor the fault rectifying progress and keep the OCC Supervisor and Information Controller informed

Data Radio Failure on (a part of) the Wayside



Note

When a Data Radio Failure occurs in a section of the wayside, the following functionalities will not be available for all the trains moving in that section:

- On Board PA/PIS
- On Board ECP
- On Board CCTV streaming to OCC
- ATC Radio commands

Data Radio Failures are detected and notified at OCC by ATS and Communications workstations.

Train Controller

You must:

- Tell all OCC operating staff of the data radio communication failure on the section of the wayside train
- Make certain that trains moving through the affected section are manned by Train Operators so for trains with no Train Operator on board, dispatch a Train Operator to get on that train accordingly at the specific station
- Tell the Train Operators to stay on board in the affected section and be responsible to aid passengers in the absence of onboard PA/PIS, T-Tel, CCTV, at that specific section until otherwise being notified
- Log the event in the Train Controller Log

OCC Supervisor

You must:

- Decide the best strategy to continue the degraded service in accordance with HNL-09510 Minimum Operating **Conditions Work Instruction**
- Log the event in the OCC Supervisor Daily Report

Information Controller

You must:

- Coordinate with the Train Operators (via voice radio) to make local announcements as required communicate with the Train Operator via voice radio
- Log the event in the Information Controller Log

Train Operator

You must:

- On instructions from the Train Controller, get on board the specified train from the specified station (if not already on board the train)
- Aid passengers in the absence of onboard PA/PIS, CCTV, T-TEL when trains moving through the affected section
- Monitor conditions on board the train and inform the Train Controller of any anomaly

Engineering & Fault Controller

You must:

- Record the fault in the MMIS according to HNL-09527 Fault Reporting Process and coordinate with the maintenance team for maintenance intervention
- Monitor the fault rectifying progress and keep the OCC Supervisor and Information Controller informed

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Data Radio Failure on the entire Mainline (System-wide)



Note

When a Data Radio Failure occurs along the wayside, the following functionalities will not be available **for all the trains** within the Mainline:

- On Board PA/PIS
- On Board ECP
- On Board CCTV streaming to OCC
- ATC Radio commands

Data Radio Failures are detected and notified at OCC by ATS and Communications workstations.

In such a circumstance, train service can only be maintained via Train Operators manning all the trains

Train Controller

You must:

- Tell all OCC operating staff of the data radio communication failure on the entire mainline
- Make certain each train on the mainline is manned by a Train Operator so for trains with no Train Operator on board, dispatch a Train Operator to get on that train accordingly at the specific station
- Tell the Train Operators to stay on board and be responsible to aid passengers in the absence of onboard PA/PIS, T-Tel, CCTV, at that specific section until otherwise being notified
- Log the event in the Train Controller Log

OCC Supervisor

You must:

- Decide the best strategy to continue the degraded service in accordance with HNL-09510 Minimum Operating Conditions Work Instruction
- Log the event in the OCC Supervisor Daily Report

Information Controller

You must:

- Coordinate with the Train Operators (via voice radio) to make local announcements as required communicate with the Train Operator via voice radio
- Log the event in the Information Controller Log

Train Operator

You must:

- On instructions from the Train Controller, get on board the specified train from the specified station (if not already
 on board the train)
- Aid passengers in the absence of onboard PA/PIS, CCTV, T-TEL until otherwise being notified
- Monitor conditions on board the train and inform the Train Controller of any anomaly

Engineering & Fault Controller

You must:

- Record the fault in the MMIS according to HNL-09527 Fault Reporting Process and coordinate with the maintenance team for maintenance intervention
- Monitor the fault rectifying progress and keep the OCC Supervisor and Information Controller informed