

## PF TRACK CIRCUIT FAILURE WORK INSTRUCTION

**Work description:** This work instruction describes the handling of P.F. Track Circuit failures.

**Scope:** This work instruction is written specifically for the OCC operating staff of Honolulu Rail Transit.

**References: Nil**

PPE and precautions	Competencies or qualifications	Licenses or permits required
Nil	OCC Supervisor, Train Controller, Information Controller, Engineering & Fault Controller, Train Operator	Nil

### Tools and equipment required

Nil

### Power Frequency (PF) Track Circuit Failures

### Train Controller

You must:

- 1) Inform the Engineering & Fault Controller of the PF track circuit failure
- 2) Inform the OCC Supervisor of the PF track circuit failure
- 3) Arrange a safe path for the maintainers to reach the failed PF track circuit for inspection
- 4) On instructions from the OCC Supervisor to clear a train from the failed area:
  - a) set a safe path for the Train Operator to reach the train safely
  - b) arrange a Train Operator to get on board the train
  - c) operate the train in BYPASS mode to move away from the failed PF track circuit and switch area
- 5) On instructions from the OCC Supervisor to make the area safe for the maintainer:
  - a) hold all trains at stations and not allow any trains to enter the failed area
  - b) cut off the traction power at the failed area
  - c) upon the maintainers returned to station, release all trains from being held and restore the traction power in the failed area
- 6) Log the event in the Train Controller Log

### Engineering & Fault Controller

You must:

- 1) Inform the maintainer to arrange a signaling technician to proceed to the failed PF track circuit for inspection
- 2) Coordinate with the Train Controller to allow the maintainer to access the track for inspection and back if required
- 3) Keep track of the inspection/repair progress
- 4) Inform the OCC Supervisor and the Train Controller about the latest inspection/repair progress

*OCC Supervisor*

You must:

- 1) Follow the inspection/fault rectifying progress closely
- 2) Assess the recommendations from the maintainer
- 3) If clearing a train from the failed area is recommended, instruct the Train Controller to clear the train away from the failed area
- 4) If the switch associated with the failed PF track circuit needs to be in normal position, then instruct the Train Controller to make the area safe for the maintainer to operate and to secure the switch(es) to normal positions manually
- 5) If resetting the PF track circuit is recommended then instruct the Train Controller to make the area safe for the maintainer to reset the PF track circuit
- 6) Instruct the Information Controller to make regular public announcements on service delays to trains and stations
- 7) Follow the fault rectifying progress closely

<b>Approved By:</b>	<input type="checkbox"/> Director, Operations and Maintenance	<input type="checkbox"/> Department Manager	<input type="checkbox"/> Manager, HSE (Operations and Maintenance)
<b>Signature:</b>			
<b>Date:</b>			

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<i>Information Controller</i>	8) If the PF track circuit recovers then instruct the Information Controller to make public announcements on resumption of normal train service to trains and stations 9) Log the event in the OCC Supervisor Daily Report
	You must, on instructions from the OCC Supervisor: 1) Make public broadcast announcements on service delays to trains and stations 2) Make regular announcements to update trains and stations affected 3) Log the event in the Information Controller Log
<i>Train Operator</i>	You must, on instructions from the Train Controller: 1) Access the track to get to the train which is stranded in between stations 2) Operate the train in BYPASS mode and drive the train to the nearest station