


<b>Work Instruction - Operations</b>	<b>HITACHI</b>
<b>VEHICLE ATC SYSTEM (MICROCAB II) FAILURE WORK INSTRUCTION</b>	 <b>Hitachi Rail Honolulu JV</b>

<b>Work description:</b> This work instruction describes the handling of Vehicle ATC (Microcab II) failures.		
<b>Scope:</b> This work instruction is written specifically for the OCC operating staff of Honolulu Rail Transit		
<b>References:</b> HNL-09547 Manual Train Operation Work Instruction		
<b>PPE and precautions</b>	<b>Competencies or qualifications</b>	<b>Licenses or permits required</b>
Nil	OCC Supervisor, Train Controller, Information Controller, Engineering & Fault Controller, Train Operator, Station Operator	Train Operator qualified to operate the passenger train
<b>Tools and equipment required</b>		
Nil		

<b>1. Failure of a single VATC unit</b>	
<i>Train Controller</i>	You must: <ol style="list-style-type: none"> <li>1) Inform the Engineering &amp; Fault Controller of the failure</li> <li>2) Inform the OCC Supervisor of the failure</li> </ol>
<i>Engineering &amp; Fault Controller</i>	You must: <ol style="list-style-type: none"> <li>1) Inform the maintainer to arrange immediate maintenance intervention</li> <li>2) Keep an eye on the ATS repair progress</li> <li>3) Inform the OCC Supervisor, Train Controllers and the Yard Controller about the latest VATC repair progress</li> </ol>
<i>OCC Supervisor</i>	You must: <ol style="list-style-type: none"> <li>1) Follow the fault rectifying progress closely</li> </ol>

<b>2. Failure of all VATC units</b>	
<i>Train Controller</i>	You must: <ol style="list-style-type: none"> <li>1) Hold other trains at stations to prevent from bunching up near the failed train</li> <li>2) Inform the Engineering &amp; Fault Controller of the failure</li> <li>3) Inform the OCC Supervisor of the failure</li> <li>4) Send a Train Operator to board the failed train</li> <li>5) Ensure a safe path is established for the Train Operator to reach the failed train if it is not berthed at station</li> <li>6) Guide the Train Operator, once onboard the train, to reset the Emergency Brake (EB) and the VATC (Microcab II) units</li> <li>7) If the VATC (Microcab II) units recover after the reset, inform the Train Operator to remain onboard for a full round-trip in case the failure arises again which leads to the train to be removed</li> <li>8) If the VATC (Microcab II) units does not recover after the reset, remove the failed train from service:               <ol style="list-style-type: none"> <li>a) Inform the Engineering &amp; Fault Controller of the situation</li> <li>b) Inform the OCC Supervisor of the situation</li> <li>c) Set a route and authorize the Train Operator to operate the train in BYPASS mode to the nearest station if the train is not berthed at station</li> <li>d) Detrain passengers at the station</li> <li>e) Set a route and authorize the Train Operator to operate the train in BYPASS mode to the nearest pocket track or the Yard</li> </ol> </li> <li>9) Log the event in the Train Controller Log</li> </ol>

<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>Train Operator</i>	<p>You must follow the instructions of the Train Controller to:</p> <ol style="list-style-type: none"> <li>1) Access the failed train safely</li> <li>2) Reset the EB and the VATC (Microcab II) units on the failed train</li> <li>3) Remain on the recovered train for a full round-trip to ensure the train is working</li> <li>4) Operate the failed train in BYPASS mode to the nearest station for passenger detrainment</li> <li>5) Detrain passengers from the failed train</li> <li>6) Remove the train from service; operate the failed train in BYPASS mode to the nearest pocket track/Yard</li> </ol>
<i>Engineering &amp; Fault Controller</i>	<p>You must:</p> <ol style="list-style-type: none"> <li>1) Inform the maintainer to arrange immediate maintenance intervention</li> <li>2) Keep an eye on the ATS repair progress</li> <li>3) Inform the OCC Supervisor, and the Train Controllers about the latest VATC (Microcab II) repair progress</li> </ol>
<i>OCC Supervisor</i>	<p>You must:</p> <ol style="list-style-type: none"> <li>1) Follow the fault rectifying progress closely</li> <li>2) Keep the OCC Manager informed on the recovery process of the failed VATC (Microcab II)</li> <li>3) Inform the Information Controller to make regular public announcements on service delays to trains and stations</li> <li>4) If the VATC (Microcab II) units recover, inform the Information Controller to: <ol style="list-style-type: none"> <li>a) Make public announcements on service resumption of normal train service to trains and stations</li> <li>b) Log the event in the OCC Supervisor Daily Report</li> </ol> </li> </ol>
<i>Information Controller</i>	<p>You must, on instructions from the OCC Supervisor:</p> <ol style="list-style-type: none"> <li>1) Make public broadcast announcements on service delays to trains and stations</li> <li>2) Make regular announcements to update trains and stations affected</li> <li>3) Make public announcements on service resumption of normal train service to trains and stations</li> <li>4) Log the event in the Information Controller Log</li> </ol>
<i>Station Operators</i>	<p>You must:</p> <ol style="list-style-type: none"> <li>1) On instructions from the OCC Supervisor, assist passenger detrainment and ensure the train is emptied</li> <li>2) Log the event in the Station Operator Log</li> </ol>



#### **Warning**

Where required, Train Controller **MUST** arrange a safe path and all protection arrangements necessary for the Train Operator to safely access the train.



#### **Warning**

While directing the Train Operator to operate a train manually, Train Controller/Yard Controller and the Train Operator **MUST** follow the HNL-09547 Manual Train Operations Work Instruction – Authorization to Proceed accordingly.



#### **Note**

The handling described in this work instruction applies equally to Yard Controller inside the Yard

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