| **Signalling Like for Like Renewal Work Instruction** | | | | | | **WO No.** | |
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| **Page 1 of 2** | |
| **Scope:** | |  | | | | **Date:** | |
| **Team Leader:** | | | |  | **Axle Counter Type:** |  | |
| **Activity:** | | | | **FADC R2 COMxxx BOARD LIKE FOR LIKE RENEWAL** | | | |
| **Reference:** PR S 4009, PR S 40051, MN S 41589 | | | | | | | |
| **Activity No.** | **Task No.** | | **WORK DESCRIPTION** | | | | **Completed**  **Name/Sign** |
|  |  | | **APPARATUS INSPECTION & PREPARATION** | | | |  |
| **1** | **1A** | | Ensure the new COMxxx board is of correct type and version. | | | |  |
|  | **1B** | | Ensure the new COMxxx board is free from damage. | | | |  |
| **2** | **2A** | | Confirm which COMxxx board has failed by observing:   * fast flashing of status LED on front panel * no PWR LED on front panel. | | | |  |
|  | **2B** | | Plug the ASD cable into the serial interface port on the faulty COMxxx board. | | | |  |
|  | **2C** | | Use the ASD tool to determine the fault with the COMxxx and confirm if the COMxxx needs to be replaced. | | | |  |
|  | **2D** | | Document the failed COMxxx board on the circuit diagram. | | | |  |
|  | **2E** | | Conduct an apparatus inspection of the condition of all remaining installed boards. | | | |  |
|  |  | | **SAFEWORKING & DISCONNECTION FROM INTERLOCKING** | | | |  |
| **3** | **3A** | | Determine if the Frauscher FAdC R2 equipment and any associated signalling are required to be booked out of use. | | | |  |
|  | **3B** | | If required, disconnect the affected Frauscher FAdC R2 equipment and associated signalling, in accordance with *PR S 40009 Disconnection of Signalling Apparatus.* | | | |  |
|  |  | | **DISCONNECTION, REMOVAL AND INSTALLATION** | | | |  |
| **4** | **4A** | | Disconnect the hotlink cable from the failed COMxxx board. | | | |  |
|  | **4B** | | Disconnect the network cable/s from the failed COMxxx board. | | | |  |
|  | **4C** | | Unscrew the locking tab at the base of the failed COMxxx board. | | | |  |
|  | **4D** | | Lift the locking tab to release the failed COMxxx board. | | | |  |
|  | **4E** | | Carefully remove the COMxxx board. Ensure the board is pulled out in a continuous direction. | | | |  |
| **5** | **5A** | | Confirm DIP switch settings on the new COMxxx board are identical to the removed faulty COMxxx board. | | | |  |
|  | **5B** | | Remove the CF card from the faulty COMxxx board and place into new COMxxx board. | | | |  |
| **NOTE** | | | If the CF card is damaged or faulty, the configuration files should be retrieved from a central database and reinstated to a new CF card. | | | | |
|  | **5C** | | Network cable connections should be reinstated according to the network diagram for that location. | | | |  |
| **FADC R2 COMxxx BOARD LIKE FOR LIKE RENEWAL** | | | | | | | **Page 2 of 2** |
| **6** | **6A** | | Carefully install the new COMxxx board. Ensure the new board is aligned and follows the chassis tracks. | | | |  |
|  | **6B** | | Push the locking tab to lock the new COMxxx board in place. | | | |  |
|  | **6C** | | Tighten (do not over tighten) the screw within the locking tab at the base of the new COMxxx board. | | | |  |
| **7** | **7A** | | Reconnect the network cable connections according to the approved circuit design. | | | |  |
|  |  | | **CERTIFICATION** | | | |  |
| **8** | **8A** | | Verify that the new COMxxx board has been installed in the correct position and the LED are illuminated correctly. | | | |  |
| **9** | **9A** | | Confirm replacement of the COM board was successful using the ASD tool. | | | |  |
| **NOTE** | | | If the COMxxx board was in an error state/faulty for an extended period of time the AEBs in that location will also be in an error state (due to no configuration file being available from the faulty COM board). The AEBs will require a power cycle. | | | | |

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| **I certify \_\_\_\_\_\_ COMxxx board at \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ location has been inspected and tested and is fit for service.**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Print Name Position**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_**  **Signature Date** |