

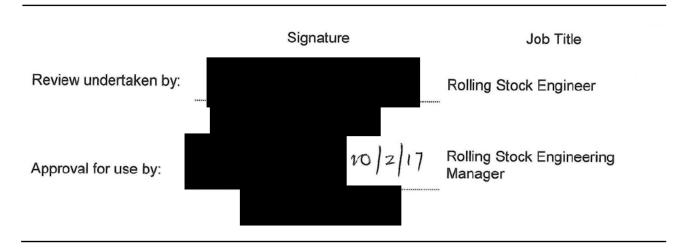
Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL VMMR B92

## VEHICLE MAINTENANCE MINIMUM REQUIREMENTS – B92

#### LEAD DOCUMENT / STAR CHART

# DOCUMENT APPLIES TO B90 / B92 / B2000 VEHICLES ONLY

Issue 4 30/03/2016





Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL VMMR B92

#### Original document issue information

#### APPROVAL AND AUTHORISATION



This specification is issued by DLRL. The specification (including the data and information relating there to) is not to be used, disseminated, reproduced, copied or adapted, either in whole or in part without the express written approval of the DLRL company secretary.

The drawings, part numbers and technical specifications relating to the supplier's product in this publication are the copyright of the supplier and may not be reproduced in any form without its express written permission, subject to any rights granted to TfL or its subsidiary DLRL.

© Copyright DLRL

Docklands Light Railway

### VEHICLE MAINTENANCE MINIMUM REQUIREMENTS

Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL **VMMR B92** 

#### **CONTENTS**

| 1. | Purpose   | 5  |
|----|---|----|
| 2. | Application   | 6  |
| 3. | Scope   | 7  |
| 4. | Definitions and Abbreviations   | 8  |
| 5. | Star Chart  | 9  |
|    | Section 01 - Shoegear   | 9  |
|    | Section 02 - Batteries  | 10 |
|    | Section 03 – Earth Return Units   | 11 |
|    | Section 04 – SCD and SCD Locker   | 12 |
|    | Section 05 – General Sides, Ends & Underframe Inspection                | 13 |
|    | Section 06 – Traction Equipment (1)                                     | 14 |
|    | Section 07 - Tachometers  | 15 |
|    | Section 08 - Convertor  | 16 |
|    | Section 09 – Articulation Joint (Roof)                                  | 17 |
|    | Section 10 – Coach Level and Height Adjustment                          | 18 |
|    | Section 11 – Brake Equipment  | 18 |
|    | Section 12 - Couplers   | 19 |
|    | Section 13 – Compressor, Air Delivery and Pressure Vessels              | 22 |
|    | Section 14 – Flange Lubricators   | 24 |
|    | Section 15 – General Underframe and Inspections / Renewal of Components | 25 |
|    | Section 16 – Traction Equipment (2)                                     | 26 |
|    | Section 17 - Wheelsets  | 27 |

#### Docklands Light Railway

### VEHICLE MAINTENANCE MINIMUM REQUIREMENTS

#### **VMMR B92**

#### Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|    | Section | on 18 – Brake and Auxiliary Air Systems | 27 |
|----|---------|---|----|
|    | Section | on 19 – Motor Bogie                     | 29 |
|    | Section | on 20 – Articulation Bogie              | 29 |
|    | Section | on 21 – Door System                     | 29 |
|    | Section | on 22 – Electronic Racks                | 32 |
|    | Section | on 23 – Heating and Ventilation System  | 33 |
|    | Section | on 24 – Bogie Inspection / Tyre Turning | 34 |
|    | Section | on 25 – General Internal Inspection     | 35 |
|    | Section | on 26 – Electrical Systems - General    | 37 |
|    | Section | on 28 – Front End Doors                 | 40 |
|    | Section | on 29 – Articulation Joint (Internal)   | 41 |
|    | Section | on 30 - Testing                         | 42 |
| 6. | Refer   | ence Documents                          | 44 |
|    | 6.1     | Reference Drawings                      | 44 |
|    | 6.2     | Reference Documents                     | 44 |
| 7  | Chan    | ne Logs                                 | 45 |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL VMMR B92

#### 1. Purpose

This document exists to support the requirements of rolling stock assets as set out in the Franchise Agreement.

- 1.1. DLRL Vehicle Maintenance Minimum Requirements (VMMR) outline the requirements for a Maintenance Plan. They set out what maintenance needs to be performed but not how the maintenance is to be performed, unless an established good practice has already been established. The intervals at which maintenance must be completed are not specified either, except that some maximum limits are given and there is a requirement that the interval should be set so as to ensure continued compliance to the essential requirements. Further, as explained in MR-700, VMMR's are neither exhaustive nor prescriptive: suppliers meeting these documents are not guaranteed to deliver system safety or performance; suppliers may apply to vary them.
- 1.2. DLRL VMMR's focus on **output measures** (not input ones), however some **essential** requirements are specified, such as:
  - critical limits / backstop on how often certain activities must be carried out e.g. bogies to be overhauled within x thousand miles, but not precisely when; and not how to group different maintenance activities together efficiently
  - critical processes of how to carry out particular activities e.g. where experience
    has derived a best practice approach, which DLRL passes on as part of its
    knowledge management role, in order to mitigate known DLRL reputational
    risks.
- 1.3. DLRL VMMR's provide a baseline:
  - against which DLRL audits of work done can be carried out to assess franchise compliance;
  - such that related documents can be assessed for compliance (e.g. suppliers' maintenance recommendations); and
  - which can be enhanced over time e.g. best practice emerges from investigations.

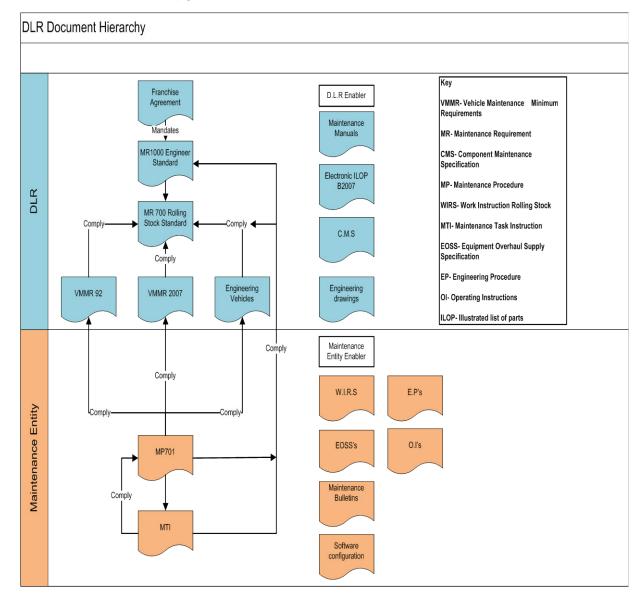


Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL VMMR B92

#### 2. Application

This VMMR applies to DLRL's Franchisee through the Maintenance Standard for Rolling Stock, MR700. **MR700** sets out management requirements on the franchisee, and mandates **Vehicle Maintenance Minimum Requirements** (VMMR) which set out the requirements for the Maintenance Plan, specifying what minimum requirements are to be maintained and giving limits on by when critical activities must be performed.

Each VMMR section may call up **Maintenance Specifications** (MS) which are discrete self-contained documents for use by overhaul contractors, consistent with best practice (i.e. for traction motors, bogies, couplers, compressors and wheelsets). VMMR may also call up **Project Specifications** (PS) which set out specifications to which the rolling stock is modified/ refurbished / upgraded.





Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL VMMR B92

#### 3. Scope

This Vehicle Maintenance Minimum Requirements document applies to DLR's B90 / B92 / B2000 light rail vehicles only for the purpose of this document it will reference B92 as all vehicle types are comparable. It specifies what the minimum requirements are to be maintained (mandating MS and referencing BT Manuals as required) and gives limits on by when critical activities must be performed (e.g. gearbox overhaul must be carried out prior to a certain number of vehicle km's run, brake pads must be renewed such that minimum limits are not exceeded in service).

Fundamentally, VMMR's specify <u>what</u> is to be done, with some key limits on <u>when</u>. They do not generally set out <u>how</u> maintenance is to be performed or grouped together logically into exam block cards or whether regimes should be balanced or cumulative; nor yet the level of granularity of maintenance by individual component (e.g. franchisees may find that condition monitoring and life item approaches elicit best performance and most efficient life cycle costs).

#### VMMR 92

- Within the VMMR are a number of sections. Each section represents a system, assembly or sub assembly of the vehicle, example Section 1 Shoegear, Section 12 Couplers.
- The Sections are represented in the VMMR 92 via a star chart, specifying key limits at which a maintenance activity is mandatory.
- Other Maintenance activities within the star chart are indicated by "As Required" giving the franchisee the scope to undertake the maintenance activities at the best optional interval, documented evidence of the periodicity chosen will be required to demonstrate the decision / justification.

#### Each VMMR:

- Lists MS in a star chart, specifying the limits when each overhaul is to be undertaken;
- In the absence of a MS, identifies the best documentation available typically an extract from the OEM maintenance manual, applied at the periodicity specified therein;
- Specifies requirements of where data is to go in the asset management system (i.e.
  electronic records), even where work is undertaken according to a MS, since overhaul
  providers may be supply chain partners who may not have access to the asset
  management system, whereas the Franchisee who delivers the VMMR does. See
  also Section 10 Records below.



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL **VMMR B92** 

#### 4. Definitions and Abbreviations

All periodicities are in km. A tolerance exists on each exam of 900km (an average of 3 days duty service), the tolerance is not cumulative and is applied to an exam but does not change the original drop dead position of the next exam, i.e. if the 900km tolerance is used on a an exam past the 13,500 km point the next exam is due in 13,500km minus the 900km overrun.

Please see MR1000 and MR700 for definitions and abbreviations.



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL **VMMR B92** 

#### 5. Star Chart

This Star Chart indicates maintenance requirements:

|            | Periodicity (km)                            | 13,500      | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|------------|---|-------------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| Section 01 | Shoegear                                    |             |        |        |         |         |         |         |           |           |           |           |
| 01.01      | Carbon Shoes and Mou                        | nting       |        |        |         |         |         |         |           |           |           |           |
| 01.01.01   | Gauge Collector Shoes                       | As Required |        |        |         |         |         |         |           |           |           |           |
| 01.01.02   | Examine Collector Shoes                     | As Required |        |        |         |         |         |         |           |           |           |           |
| 01.01.03   | Renew Collector Shoes (NEW)                 |             |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 01.01.04   | Examine Shoe Backplate / Mounting Bushes    |             |        | •      |         | As R    | equir   | ed      |           |           |           |           |
| 01.01.05   | Renew Shoe Backplate / Mounting Bushes      |             |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 01.02      | Wishbone Arms Plank Type                    | Shoe        | gear   |        | •       |         |         |         |           |           |           |           |
| 01.02.01   | Clean Wishbone Arms / Plank Type Shoegear   |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 01.02.02   | Examine Wishbone Arms / Plank Type Shoegear |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 01.03      | Shoegear Air Cylind                         | · ·         |        |        |         |         |         |         |           |           |           |           |
| 01.03.01   | Check Condition of Air Cylinders            |             |        | *      | *       | *       | *       |         |           |           |           |           |
| 01.03.02   | Renew Air Cylinders                         |             |        |        |         |         |         | *       |           | *         |           | *         |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|            | Periodicity (km)                            | 13,500      | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|------------|---|-------------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 01.03.03   | Cylinder Leak Test                          |             |        |        |         | As R    |         | •       |           |           |           |           |
| 01.04      | Electrical Equipmen                         | ıt          |        |        |         |         |         |         |           |           |           |           |
| 01.04.01   | Clean Shoe Equipment                        |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 01.04.02   | Examine Shoe Shunts Cables                  | *           | *      | *      | *       | *       |         |         |           |           |           |           |
| 01.04.03   | Examine Bell Insulator                      | As Required |        |        |         |         |         |         |           |           |           |           |
| 01.04.04   | Examine Flash Guards                        | As Required |        |        |         |         |         |         |           |           |           |           |
| 01.04.05   | Examine Fuse Box                            | As Required |        |        |         |         |         |         |           |           |           |           |
| 01.04.06   | Renew Shoe Shunt Cable                      |             |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 01.05      | Post-Exam Tests                             | •           | •      | •      |         | •       |         |         |           |           |           |           |
| 01.05.01   | Output Pressure Test of the Manostat Valves |             | As     | requi  | red     |         | *       | *       | *         | *         | *         | *         |
| Section 02 | Batteries                                   |             |        |        |         |         |         |         |           |           |           |           |
| 02.01      | Battery (including Cells and                | l Cab       | les)   |        |         |         |         |         |           |           |           |           |
| 02.01.01   | Check Battery Cells                         |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 02.01.02   | Check Battery Terminals                     |             |        | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 02.01.03   | Examine Battery Cables                      |             | •      |        |         | As R    | equir   | ed      |           |           |           |           |
| 02.01.04   | Battery Stand Up Test                       |             |        |        | *       | *       | *       | *       | *         | *         | *         | *         |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|            | Periodicity (km)  | 13,500 | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|------------|---|--------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 02.01.05   | Renew Battery Cells   |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 02.02      | Battery Box   |        |        |        | •       |         |         |         |           |           |           |           |
| 02.02.01   | Examine/Clean Battery Tray Runners and Latches  |        |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 02.02.02   | Battery Tray Guide Runners (Please note - this was not an original 864,000Km requirement)         |        |        |        |         |         |         |         |           | *         |           | *         |
| 02.02.03   | Battery Box   |        |        |        | •       | As R    | equir   | ed      |           |           |           |           |
| 02.02.04   | Examine Battery Case for Corrosion (Please note - this was not an original 864,000Km requirement) |        |        |        |         |         |         |         |           | *         |           | *         |
| 02.02.05   | Paint Interior of Battery Box (Please note - this was not an original 864,000Km requirement)      |        |        |        |         |         |         |         |           | *         |           | *         |
| 02.03      | K606 Auxiliary Contactor  | / Cas  | e      |        |         |         |         |         |           |           |           |           |
| 02.03.01   | Examine K606 Contactor Case   |        |        |        |         | *       |         |         |           |           |           |           |
| 02.03.02   | Renew K606 Contactor  |        |        |        |         |         |         | *       |           | *         |           | *         |
| 02.04      | Renew K612 Relay  |        |        |        |         |         | •       |         |           |           |           |           |
| 02.04.01   | Renew K612 Relay  |        |        |        |         |         |         | *       |           | *         |           | *         |
| Section 03 | Earth Return Units  |        |        |        |         |         |         |         |           |           |           |           |
| 03.01      | 600A Unit   |        |        |        |         |         |         |         |           |           |           |           |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|            | Periodicity (km)                | 13,500 | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|------------|---------------------------------|--------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 03.01.01   | Examine Brush and Brush Springs |        |        | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 03.01.02   | Examine Earth Return Braid      |        |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 03.01.03   | Renew Earth Return Braid        |        |        | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 03.01.04   | Renew Earth Return Unit         |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 03.01.05   | Renew Mounting Plates           |        |        |        |         |         |         | *       |           | *         |           | *         |
| 03.01.06   | Examine Renew Fixings           |        |        |        | *       | *       |         |         |           |           |           |           |
| 03.02      | 300A Unit                       | •      | •      |        |         |         |         |         |           |           |           |           |
| 03.02.01   | Examine Brush and Brush Springs |        |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 03.02.02   | Examine Earth Return Braid      |        |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 03.02.03   | Renew Earth Return Braid        |        |        | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 03.02.04   | Renew Earth Return Unit         |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 03.02.05   | Renew Mounting Plates           |        |        |        |         |         |         | *       |           | *         |           | *         |
| 03.02.06   | Renew Fixings                   |        |        |        | *       | *       |         |         |           |           |           |           |
| 03.03      | Security of Units               | -      | •      |        |         |         |         |         |           |           |           |           |
| 03.03.01   | Check Security of fixings       | *      | *      | *      |         |         |         |         |           |           |           |           |
| Section 04 | SCD and SCD Locke               | r      |        |        |         |         |         |         |           |           |           |           |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|            | Periodicity (km)                     | 13,500      | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000   | 2,592,000 |  |  |  |  |  |  |
|------------|--------------------------------------|-------------|--------|--------|---------|---------|---------|---------|-----------|-----------|-------------|-----------|--|--|--|--|--|--|
| 04.01      | Short Circuit Device (S              | CD)         |        |        |         |         |         |         |           |           |             |           |  |  |  |  |  |  |
| 04.01.01   | Clean / Examine S.C.D                |             |        |        |         | As R    | equir   | ed      |           |           |             |           |  |  |  |  |  |  |
| 04.01.02   | Renew Short Circuit Device           | * * * * *   |        |        |         |         |         |         |           | *         | *           |           |  |  |  |  |  |  |
| 04.02      | SCD Locker                           |             |        |        |         |         |         |         |           |           |             |           |  |  |  |  |  |  |
| 04.02.01   | Clean Locker                         | As Required |        |        |         |         |         |         |           |           | As Required |           |  |  |  |  |  |  |
| 04.02.02   | Examine Locker Door                  | As Required |        |        |         |         |         |         |           |           |             |           |  |  |  |  |  |  |
| Section 05 | General Sides, Ends & Underfran      |             |        |        |         |         |         |         |           |           |             |           |  |  |  |  |  |  |
| 05.01      | Equipment Cases, Brackets            | , Fixi      | ngs    |        |         |         |         |         |           |           |             |           |  |  |  |  |  |  |
| 05.01.01   | Examine Underframe Equipment Cases   |             |        |        |         | As R    | equir   | ed      |           |           |             |           |  |  |  |  |  |  |
| 05.01.02   | Examine Underframe Mounting Brackets |             |        |        |         | As R    | equir   | ed      |           |           |             |           |  |  |  |  |  |  |
| 05.01.03   | Examine Underframe Fixings           |             |        |        |         | As R    | equir   | ed      |           |           |             |           |  |  |  |  |  |  |
| 05.01.04   | Examine Levelling Rod Arms           |             |        |        |         | As R    | equir   | ed      |           |           |             |           |  |  |  |  |  |  |
| 05.02      | Side Skirts                          | •           |        |        |         |         |         |         |           |           |             |           |  |  |  |  |  |  |
| 05.02.01   | Examine Side Skirts                  |             |        |        |         | As R    | equir   | ed      |           |           |             |           |  |  |  |  |  |  |
| 05.02.02   | Examine Skirt Brackets               | As Required |        |        |         |         |         |         |           |           |             |           |  |  |  |  |  |  |
| 05.02.03   | Examine Skirt Locks                  |             |        |        |         | As R    | equir   | ed      |           |           |             |           |  |  |  |  |  |  |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|            | Periodicity (km)  | 13,500      | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|------------|---|-------------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 05.02.04   | Secondary Security of Vehicle Skirts Check (Cable Ties) |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 05.03      | Piping, Cables, Clear                                   | ts          |        |        |         |         |         |         |           |           |           |           |
| 05.03.01   | Examine Cables and Cleats                               |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 05.03.02   | Examine Underframe Piping                               |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 05.04      | Earth Bonds   |             |        |        |         |         |         |         |           |           |           |           |
| 05.04.01   | Check Earth Bonds                                       | As Required |        |        |         |         |         |         |           |           |           |           |
| Section 06 | Traction Equipment (                                    | 1)          |        |        |         |         |         |         |           |           |           |           |
| 06.01      | Motor, Brake and Line Con                               | tacto       | ors    |        |         |         |         |         |           |           |           |           |
| 06.01.01   | Test Magnet Valve Operation                             |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 06.01.02   | Examine Mainline Contacts                               |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 06.01.03   | Examine Arc Chutes                                      |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 06.01.04   | Examine Flexible Braids                                 |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 06.01.05   | Renew Type BKA22 Contactors                             | * * * *     |        |        |         |         |         |         |           | *         |           |           |
| 06.01.06   | Test Contact Resistance                                 | As Required |        |        |         |         |         |         |           |           |           |           |
| 06.01.07   | Renew Solenoid Valves and Quick Dump Valves             |             |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 06.02      | Compressor Contacto                                     | tors        |        |        |         |         |         |         |           |           |           |           |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|            | Periodicity (km)   | 13,500      | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|------------|--|-------------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 06.02.01   | Test Compressor Contactor Operation  |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 06.02.02   | Examine Arc Chutes   |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 06.02.03   | Test Contact Resistance (of Compressor Aux Contacts)                         |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 06.02.04   | Renew Compressor Contactor   |             |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 06.02.05   | Renew Equipment Governor   |             |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 06.03      | Blower Motors and Heating C  | onta        | ctors  |        |         |         |         |         |           |           |           |           |
| 06.03.01   | Replace Blower Motors and Heating Contactors                                 |             |        |        |         |         |         | *       |           | *         |           | *         |
| 06.04      | Line, Feed and Armature Overl  | load        | Relay  | s      |         |         |         |         |           |           |           |           |
| 06.04.01   | Renew Line, Feed and Armature Overload Relays                                |             |        |        |         |         |         | *       |           | *         |           | *         |
| 06.05      | Other  |             |        |        |         |         |         |         |           |           |           |           |
| 06.05.01   | Clean Equipment Cases and Bays   |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 06.05.02   | Renew Equipment Case Rubber Seals & Gaskets (Main case A&B and battery case) |             |        |        |         |         |         |         |           | *         |           |           |
| 06.05.03   | Examine Field Control Unit Modules   |             |        |        | •       | As R    | equir   | ed      |           |           |           |           |
| 06.05.04   | Post Exam Testing  | As Required |        |        |         |         |         |         |           |           |           |           |
| Section 07 | Tachometers  |             |        |        |         |         |         |         |           |           |           |           |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|           | Periodicity (km)                                 | 13,500      | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|-----------|--|-------------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 07.01     | Tachometer & Mountin                             | ngs         |        | •      | •       |         |         | •       |           |           |           |           |
| 07.01.01  | Examine Tachometer                               |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 07.01.02  | Examine Tachometer Cable                         |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 07.02     | Litton Connector                                 | r           |        |        |         |         |         |         |           |           |           |           |
| 07.02.01  | Check Litton Connector                           | As Required |        |        |         |         |         |         |           |           |           |           |
| 07.03     | Tachometer Renewal and Testin                    |             |        |        |         |         |         |         |           |           |           |           |
| 07.03.01  | Removal of Existing Tachometer                   | As Required |        |        |         |         |         |         |           |           |           |           |
| 07.03.02  | Mechanical Fitting of the Hasler Pulse Generator |             |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 07.03.03  | Mounting the Anti Rotational Stay                |             |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 07.03.04  | Securing the Cable                               |             |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 07.03.05  | Testing the Vehicle Wiring                       |             |        |        |         |         | *       | *       | *         | *         | *         | *         |
| Section 8 | Convertor  |             |        |        |         |         |         |         |           |           |           |           |
| 08.01     | Fan  |             |        |        |         |         |         |         |           |           |           |           |
| 08.01.01  | Renew Convertor Fan                              |             |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 08.01.02  | Clean Convertor Case (Interior)                  |             | •      | •      | •       | As R    | equir   | ed      |           |           |           |           |
| 08.02     | Overhaul   |             |        |        |         |         |         |         |           |           |           |           |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|           | Periodicity (km)                               | 13,500 | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|-----------|--|--------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 08.02.01  | Overhaul Convertor                             |        |        |        |         |         |         |         |           | *         |           | *         |
| 08.02.02  | Renew Convertor Case Seals                     |        |        |        |         |         |         |         |           | *         |           | *         |
| Section 9 | Articulation Joint (Ro                         | of)    |        |        |         |         |         |         |           |           |           |           |
| 09.01     | Centre Bearing                                 |        |        |        |         |         |         |         |           |           |           |           |
| 09.01.01  | Examine Centre Bearing                         |        |        |        |         | *       |         |         |           |           |           |           |
| 09.01.02  | Renew Centre Bearing                           |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 09.02     | Roof Linkage                                   | •      | •      | •      |         | •       |         |         |           |           | •         |           |
| 09.02.01  | Examine Security and Condition of Roof Linkage |        |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 09.02.02  | Renew Roof Springs                             |        |        |        |         |         |         | *       |           | *         |           | *         |
| 09.02.03  | Lubricate Roof Linkage                         |        |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 09.02.04  | Centralise Porch                               |        |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 09.02.05  | Renew Roof Dampers                             |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 09.03     | Sliding Pad and Cabl                           | es     | •      | •      |         | •       |         |         |           |           |           |           |
| 09.03.01  | Examine Roof Cable and Sheathing (+ RSM 505)   |        |        | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 09.03.02  | Renew Sliding Pad                              |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 09.04     | Aerial   | •      |        |        |         |         |         |         |           |           |           |           |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|            | Periodicity (km)                                    | 13,500 | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|------------|---|--------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 09.04.01   | Examine Aerial                                      |        | •      |        |         | As R    | equir   |         |           |           |           |           |
| 09.04.02   | Examine Cable Conduit                               |        |        |        |         | As R    | equir   | ed      |           |           |           |           |
| Section 10 | Coach Level and Height Ad                           | justn  | nent   |        |         |         |         |         |           |           |           |           |
| 10.01      | Motor Bogies  |        |        |        |         |         |         |         |           |           |           |           |
| 10.01.01   | Check Motor Bogies Coach Heights                    |        |        |        | *       | *       | *       | *       | *         | *         | *         | *         |
| 10.01.02   | Adjust Coach Level and Height                       |        |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 10.01.03   | Check / Reset Gaps of Height Stops                  |        |        |        | *       | *       | *       | *       | *         | *         | *         | *         |
| 10.02      | Arctic Bogie  |        |        |        |         |         |         |         |           |           |           |           |
| 10.02.01   | Check Trailer Bogies Coach Heights                  |        |        |        | *       | *       | *       | *       | *         | *         | *         | *         |
| 10.02.02   | Adjust Coach Level and Height                       |        | •      |        |         | As R    | equir   | ed      |           |           |           |           |
| 10.02.03   | Reset Gaps of Height Stops                          |        |        |        | *       | *       | *       | *       | *         | *         | *         | *         |
| 10.03      | Motor and Arctic Levelling                          | Valv   | es     |        |         |         |         |         |           |           |           |           |
| 10.03.01   | Renew Levelling Valve                               |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 10.03.02   | Renew Levelling Valve Flexible Piping Trailer Bogie |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
| Section 11 | Brake Equipment                                     |        |        |        |         |         |         |         |           |           |           |           |
| 11.01      | Brake Tests   |        |        |        |         |         |         |         |           |           |           |           |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|            | Periodicity (km)                       | 13,500 | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|------------|--|--------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 11.01.01   | Brake Force Test                       |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 11.01.02   | Static Brake Test                      |        |        |        |         | *       | *       | *       | *         | *         | *         | *         |
| 11.02      | Brake Pads                             | •      | •      |        |         |         |         |         |           |           |           |           |
| 11.02.01   | Examine/Renew Brake Pads               | *      | *      | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 11.02.02   | Test Pad to Disc Clearance             | *      | *      | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 11.03      | Brake Isolating Cock                   | (S     | •      |        |         |         |         | •       |           |           |           |           |
| 11.03.01   | Examine Brake Cylinder Isolating Cocks | *      | *      | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 11.04      | Callipers, Linkages                    | •      |        |        |         |         |         |         |           |           |           |           |
| 11.04.01   | Examine Brake Callipers                | *      | *      | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 11.05      | Brake Discs                            |        |        |        |         |         |         |         |           |           |           |           |
| 11.05.01   | Examine Condition of Brake Discs       | *      | *      | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 11.05.02   | Test Security of Brake Discs           |        | *      | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 11.06      | Spring Applied Brake                   | es     | •      |        |         |         |         |         |           |           |           |           |
| 11.06.01   | Test Spring Applied Brakes             | *      | *      | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| Section 12 | Couplers                               |        |        |        |         |         |         |         |           |           |           |           |
| 12.01      | Electrical Head                        |        |        |        |         |         |         |         |           |           |           |           |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|          | Periodicity (km)  | 13,500 | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|----------|---|--------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 12.01.01 | Examine Electrical Head Cover (Lid)                         |        |        | *      | *       | *       | *       |         |           |           |           |           |
| 12.01.02 | Examine Electrical Box (Casing)                             |        |        | *      | *       | *       | *       |         |           |           |           |           |
| 12.01.03 | Examine Electrical Head (Seals)                             | *      | *      | *      | *       | *       | *       |         |           |           |           |           |
| 12.01.04 | Examine Electrical Contact Pins                             |        |        | *      | *       | *       | *       |         |           |           |           |           |
| 12.01.05 | Examine Contact Block                                       |        |        |        | *       | *       | *       |         |           |           |           |           |
| 12.01.06 | Test Coupler Head Locking                                   |        |        | *      | *       | *       | *       |         |           |           |           |           |
| 12.01.07 | Test Coupler Limit Switch                                   |        |        | *      | *       | *       | *       |         |           |           |           |           |
| 12.01.08 | Heavy Overhaul of Electrical Head (see DLR –ENG-SPC-MS-754) |        |        |        |         |         |         | *       |           | *         |           | *         |
| 12.02    | Mechanical Head   | I      | •      | •      |         |         |         | •       |           | •         |           |           |
| 12.02.01 | Examine Mechanical Head for Damage, Wear                    |        |        | *      | *       | *       | *       |         |           |           |           |           |
| 12.02.02 | Check Movement of Mechanical Head                           | *      | *      | *      | *       | *       | *       |         |           |           |           |           |
| 12.02.03 | Check Coupler Lock Backlash Gauge                           |        |        | *      | *       | *       | *       |         |           |           |           |           |
| 12.02.04 | Coupler Height  |        |        | *      | *       | *       | *       |         |           |           |           |           |
| 12.02.05 | Lubricate Mechanical Coupler                                |        |        | *      | *       | *       | *       |         |           |           |           |           |
| 12.02.06 | Heavy Overhaul of Mechanical Head (see DLR –ENG-SPC-MS-754) |        |        |        |         |         |         | *       |           | *         |           | *         |
| 12.03    | Coupler Electrical Harness                                  |        | •      | •      | •       | •       | •       | •       | •         |           |           |           |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|          | Periodicity (km)  | 13,500   | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|----------|---|--|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 12.03.01 | Damage and Wear Electrical Harness                      |  |        |        |         | As R    | equi    | ed      |           |           |           |           |
| 12.03.02 | Check Electrical Harness Height                         |  |        |        |         | As R    | equi    | ed      |           |           |           |           |
| 12.04    | Coupler Pneumatic Pipes & Pneumatic Connector           |  |        |        |         |         |         |         |           |           |           |           |
| 12.04.01 | Pneumatic Pipe Damage and Wear                          | As Required                                      |        |        |         |         |         |         |           |           |           |           |
| 12.04.02 | Pneumatic Pipe Height                                   |  |        |        |         | As R    | equi    | ed      |           |           |           |           |
| 12.04.03 | Renew Pneumatic Pipes                                   | <del>                                     </del> |        |        |         |         |         |         | *         | *         |           |           |
| 12.05    | Pneumatic Connector                                     | •  | l      | ı      | · ·     | 1       | l       | •       |           |           |           |           |
| 12.05.01 | Inspect Pneumatic Connector                             |  |        |        |         | As R    | equi    | ed      |           |           |           |           |
| 12.05.02 | Overhaul Pneumatic connector (see DLR –ENG-SPC-MS-754)  |  |        |        |         |         |         | *       |           | *         |           | *         |
| 12.06    | Self-Centring Device                                    | 1  |        | I      | I       |         | ı       |         |           |           |           |           |
| 12.06.01 | Self-Centring Device Test                               |  |        |        |         | As R    | equi    | ed      |           |           |           |           |
| 12.06.02 | Self-Centring Device Overhaul (see DLR –ENG-SPC-MS-754) |  |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 12.07    | Muff Coupling   |  |        |        |         |         |         |         |           |           |           |           |
| 12.07.01 | Muff Coupling Damage and Wear                           | As Required                                      |        |        |         |         |         |         |           |           |           |           |
| 12.07.02 | Muff Coupling Torque Settings                           | As Required                                      |        |        |         |         |         |         |           |           |           |           |
| 12.08    | Earth Leads   | 1  |        |        |         |         |         |         |           |           |           |           |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|            | Periodicity (km)                                       | 13,500                           | 27,000 | 54,000 | 108,000 | 216,000 | 432,000    | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|------------|--|----------------------------------|--------|--------|---------|---------|------------|---------|-----------|-----------|-----------|-----------|
| 12.08.01   | Damage and Security                                    |                                  |        |        | •       | As R    | equir      | ed      |           |           |           |           |
| 12.08.02   | Renew Earth Leads                                      |                                  |        |        |         | As R    | equir      | ed      |           |           |           |           |
| 12.09      | Deformation Tube                                       |                                  |        |        |         |         |            |         |           |           |           |           |
| 12.09.01   | Damage, Wear and Security                              |                                  |        |        |         | As R    | equir      | ed      |           |           |           |           |
| 12.09.02   | Electrical Harness Bracket                             |                                  |        |        |         | As R    | equir      | ed      |           |           |           |           |
| 12.10      | Uncoupling Cylinde                                     | nder                             |        |        |         |         |            |         |           |           |           |           |
| 12.10.01   | Uncoupling Cylinder Overhaul (see DLR -ENG-SPC-MS-754) |                                  |        |        |         |         |            | *       |           | *         |           | *         |
| Section 13 | Compressor, Air Delivery and Pre                       | ssur                             | e Ves  | sels   |         |         |            |         |           |           |           |           |
| 13.01      | Compressor   |                                  |        |        |         |         |            |         |           |           |           |           |
| 13.01.01   | Top Up and Record Oil added to Compressor              | *                                | *      | *      | *       | *       | See<br>758 | DLR     | R-ENC     | G-SP      | C-MS      | S-        |
| 13.01.02   | Compressor Cover Securing Clips                        |                                  |        |        | •       | As R    | equir      | ed      |           |           |           |           |
| 13.01.03   | Renew Air Filter                                       | * * * See DLR-ENG-SPC-MS-<br>758 |        |        |         |         |            |         |           |           |           | S-        |
| 13.01.04   | Examine Safety Valve                                   | As Required                      |        |        |         |         |            |         |           |           |           |           |
| 13.01.05   | Renew Safety Valve                                     | As Required                      |        |        |         |         |            |         |           |           |           |           |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|          | Periodicity (km)                                   | 13,500          | 27,000 | 54,000 | 108,000 | 216,000   | 432,000    | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |  |  |
|----------|--|-----------------|--------|--------|---------|-----------|------------|---------|-----------|-----------|-----------|-----------|--|--|
| 13.01.06 | Examine Compressor Motor Drain Pin                 |                 |        |        |         | As R      | equir      | ed      |           |           |           |           |  |  |
| 13.01.07 | Renew Compressor Sump Oil Drain and Filter         |                 |        |        | *       | *         | See<br>758 |         | -ENC      | G-SP(     | C-MS      | }-        |  |  |
| 13.01.08 | Renew Cylinder Head Valves                         |                 |        |        |         | *         | See<br>758 |         | R-ENC     | G-SP(     | C-MS      | 3-        |  |  |
| 13.01.09 | Examine Compressor Mounting Clearances             |                 |        |        | *       | *         | See<br>758 | DLR     | C-MS      | 3-        |           |           |  |  |
| 13.01.10 | Examine Compressor Motor Brushes                   |                 |        | *      | *       | *         | See<br>758 | DLR     | C-MS      | }-        |           |           |  |  |
| 13.01.11 | Motor Bearings Check and Grease                    |                 |        | •      |         | As R      | equir      | ed      |           |           |           |           |  |  |
| 13.01.12 | Renew Compressor Mounts and Flexible Delivery Hose |                 |        |        |         |           | See<br>758 |         | -ENC      | G-SP(     | C-MS      | 3-        |  |  |
| 13.01.13 | Renew Compressor Governor                          |                 |        |        |         |           | See<br>758 |         | -ENC      | G-SP(     | C-MS      | 3-        |  |  |
| 13.01.14 | Compressor silencer check - security               | *               | *      | *      | *       | *         |            |         |           |           |           |           |  |  |
| 13.01.15 | Replace compressor fail unit                       |                 |        |        |         | On I exam |            |         |           |           |           |           |  |  |
| 13.02    | Air Dryer  | yer             |        |        |         |           |            |         |           |           |           |           |  |  |
| 13.02.01 | Examine/Clean Automatic Drain Valves               | yer As Required |        |        |         |           |            |         |           |           |           |           |  |  |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|            | Periodicity (km)   | 13,500   | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|------------|--|--|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 13.02.02   | Renew Automatic Drain Valves                               |  |        |        | *       | *       | *       | *       | *         | *         | *         | *         |
| 13.02.03   | Examine/Renew Air Dryer Inlet and Outlet Filters           |  |        |        | *       | *       | *       | *       | *         | *         | *         | *         |
| 13.02.04   | Examine Humidity Indicator                                 |  |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 13.02.05   | Examine Air Dryer Body (for Winter Operation)              | Dryer Body (for Winter Operation)  As Required |        |        |         |         |         |         |           |           |           |           |
| 13.02.06   | Renew Desiccant Canisters                                  |  |        |        |         | *       | *       | *       | *         | *         | *         | *         |
| 13.02.07   | Renew Air Dryer  |  |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 13.03      | Main Reservoir   | •  | •      | •      | •       |         |         | •       |           |           |           |           |
| 13.03.01   | Examine Main Reservoir ADV                                 |  |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 13.03.02   | Renew Main Reservoir ADV                                   |  |        |        |         |         |         | *       |           | *         |           | *         |
| 13.03.03   | Renew Main Reservoir Safety Valve                          |  |        |        |         |         |         | *       |           | *         |           | *         |
| 13.04      | Compressor Air Tes   | t  |        |        |         | •       | •       |         |           |           |           |           |
| 13.04.01   | Compressor Stand Up Test                                   |  |        |        | *       | *       | *       | *       | *         | *         | *         | *         |
| 13.05      | Pressure Vessels   |  |        |        |         | •       | •       |         |           |           |           |           |
| 13.05.01   | Examine & Test Pressure Vessels (5% of the Fleet Annually) |  |        |        | *       | *       | *       | *       | *         | *         | *         | *         |
| 13.05.02   | Clean/Paint visually Inspect Pressure Vessels              |  |        |        |         |         |         |         |           | *         |           |           |
| Section 14 | Flange Lubricators   |  |        |        |         |         |         |         |           |           |           |           |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|            | Periodicity (km)  | 13,500                  | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|------------|---|-------------------------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 14.01      | Flange Lube Applicat                                    | tor                     |        |        | ı       |         |         |         |           |           |           |           |
| 14.01.01   | Examine and Adjust Mountings / Fixings                  |                         |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 14.01.02   | Check Lubricator Stick Level                            |                         |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 14.01.03   | Renew Applicator Spring                                 | * * * * *               |        |        |         |         |         |         | *         | *         |           |           |
| 14.01.04   | Gauge Applicator to Wheel                               | As Required             |        |        |         |         |         |         |           |           |           |           |
| Section 15 | General Underframe and Inspections / Re                 | / Renewal of Components |        |        |         |         |         |         |           |           |           |           |
| 15.01      | Earth Bonds & Wheel Sh                                  | nunts                   | ;      |        |         |         |         |         |           |           |           |           |
| 15.01.01   | Examine Condition of Earth Bonds                        |                         |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 15.01.02   | Examine Condition of Wheel-to- tyre Shunts              | *                       | *      | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 15.01.03   | Measure Internal Wheel Shunt Resistance (Internal only) |                         |        |        | *       | *       | *       | *       | *         | *         | *         | *         |
| 15.02      | Cables, Cleats, Connections & F                         | lexib                   | le Pip | ing    |         |         | •       |         |           |           |           |           |
| 15.02.01   | Examine Cables & Cable Cleats                           |                         |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 15.02.02   | Examine Air Connectors                                  |                         |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 15.02.03   | Examine Hoses, Flow Cut off Valve and Flexible Piping   | As Required             |        |        |         |         |         |         |           |           |           |           |
| 15.02.04   | Renew All Flexible Piping                               | * * * * *               |        |        |         |         |         |         |           |           | *         |           |
| 15.03      | Fixings   | •                       | •      | -      | •       | •       | •       | •       |           |           |           |           |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|            | Periodicity (km)   | 13,500 | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|------------|--|--------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 15.03.01   | Examine Condition and Security of Fixings                        |        |        | •      | •       | As R    | equir   | •       |           |           |           |           |
| 15.04      | Seals and Padlocks   | •      |        |        |         |         |         |         |           |           |           |           |
| 15.04.01   | Examine Coupler Isolating Cocks                                  |        |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 15.04.02   | Check Operation of Coupler Isolating Cocks                       |        |        |        |         | *       | *       | *       | *         | *         | *         | *         |
| 15.04.03   | Examine Isolating Cocks (more info)                              |        |        |        | •       | As R    | equir   | ed      |           |           |           |           |
| 15.04.04   | Check Operation of Isolating Cocks                               |        |        |        |         | *       | *       | *       | *         | *         | *         | *         |
| Section 16 | Traction Equipment (   | (2)    |        |        |         |         |         |         |           |           |           |           |
| 16.01      | Traction Motors  |        |        |        |         |         |         |         |           |           |           |           |
| 16.01.01   | Examine Traction Motors  |        | *      | *      | *       | *       |         |         |           |           |           |           |
| 16.01.02   | Examine Brush Box and Springs                                    |        | *      | *      | *       | *       |         |         |           |           |           |           |
| 16.01.03   | Examine Commutator Cover Seals                                   |        | *      | *      | *       | *       |         |         |           |           |           |           |
| 16.01.04   | Renew Traction Motor Brushes                                     |        |        |        | *       | *       |         |         |           |           |           |           |
| 16.01.05   | Clean PTFE Sleeve  |        |        |        | *       | *       |         |         |           |           |           |           |
| 16.01.06   | Grease Traction Motor Bearings                                   |        |        |        | *       | *       |         |         |           |           |           |           |
| 16.01.07   | Renew Traction Motor (see DLR-ENG-SPC-MS-753 MS Traction Motors) |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 16.02      | Blower Motors  |        |        |        |         |         |         |         |           |           |           |           |



Castor Lane, Poplar London, E14 0BL

Docklands Light Railway Ltd.

|            | Periodicity (km)  | 13,500          | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|------------|---|-----------------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 16.02.01   | Examine Blower Motor  |                 | *      | *      | *       | *       |         |         |           |           |           |           |
| 16.02.02   | Examine Commutator Seals                                    |                 | *      | *      | *       | *       | *       |         |           |           |           |           |
| 16.02.03   | Clean PTFE Sleeves  |                 |        |        | *       | *       | *       |         |           |           |           |           |
| 16.02.04   | Lubricate Bearings  |                 |        |        | *       | *       | *       |         |           |           |           |           |
| 16.02.05   | Clean Blower Motor Air Intake Panels                        |                 |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 16.02.06   | Renew Blower Motor  |                 |        |        |         |         |         | *       |           | *         |           | *         |
| 16.02.07   | Renew Blower Pressure Switches                              |                 |        |        |         |         |         | *       |           | *         |           | *         |
| 16.03      | Inertia Air Filter Unit                                     | S               |        |        |         |         |         |         |           |           |           |           |
| 16.03.01   | Renew Inertia Air Filter Units                              |                 |        | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| Section 17 | Wheelsets   |                 |        |        |         |         |         |         |           |           |           |           |
| 17.01      | Wheelset Overhaul ( See DLR-ENG-SPC-MS-752)                 |                 |        |        |         | As re   | equire  | ed      |           |           |           |           |
| Section 18 | Brake and Auxiliary Air Sy                                  | ysten           | าร     |        |         |         |         |         |           |           |           |           |
| 18.01      | Combined Air Filter / Air Regu                              | julator Units   |        |        |         |         |         |         |           |           |           |           |
| 18.01.01   | Clean/Examine All Combined Air Filter / Air Regulator Units | * * * * * * * * |        |        |         |         |         |         |           | *         |           |           |
| 18.02      | Main Reservoir Pressure Switches                            |                 |        |        |         |         |         |         |           |           |           |           |
| 18.02.01   | Check/Recalibrate Low Main Reservoir Pressure Switches      |                 |        | *      | *       | *       |         |         |           |           |           |           |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|          | Periodicity (km)   | 13,500 | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|----------|--|--------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 18.02.02 | Renew Main Reservoir Pressure Switches                         |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 18.03    | CLAU2 Brake Units  |        | •      | •      |         | •       |         |         |           |           |           |           |
| 18.03.01 | Renew CLAU2 Motor Bogie and Trailer Bogie Brake Units          |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 18.03.02 | Renew CLAU2 Emergency Brake Unit                               |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 18.04    | Strainer Check Valve   | s      |        |        |         |         |         |         |           |           |           |           |
| 18.04.01 | Renew Strainer Check Valves (D2, H1 and G1)                    |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 18.05    | Wheel Slide Dump Val   | ves    |        |        |         |         |         |         |           |           |           |           |
| 18.05.01 | Renew Wheel Slide Dump Valves                                  |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 18.06    | Brake Cylinder Pressure S                                      | witch  | nes    | •      | •       | •       |         |         |           |           |           |           |
| 18.06.01 | Renew Brake Cylinder Pressure Switches                         |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 18.07    | Replace AFCOV, Check Valves & Articula                         | ation  | Pneu   | matic  | Pipes   | 5       |         | I.      |           |           |           |           |
| 18.07.01 | Renew Air Flow Cut Off Valve (AFCOV) D19                       |        |        |        |         |         |         | *       |           | *         |           | *         |
| 18.07.02 | Renew A and B Safety Check Valves D20.                         |        |        |        |         |         |         | *       |           | *         |           | *         |
| 18.07.03 | Renew Articulation Pneumatic Hoses, B11, D11 & D24             |        |        |        |         |         |         | *       |           | *         |           | *         |
| 18.08    | Parking Brake Strainer E2, Regulator E                         | 5 & 0  | Check  | Valv   | e E6    |         |         | ı       |           |           |           |           |
| 18.08.01 | Renew Parking Brake Strainer E2, Regulator E5 & Check Valve E6 |        |        |        |         |         |         | *       |           | *         |           | *         |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|            | Periodicity (km)   | 13,500 | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|------------|--|--------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 18.09      | Uncoupled Magnet Valve with S  | olend  | oid Va | lve    |         |         |         |         |           |           |           |           |
| 18.09.01   | Renew Uncoupled Magnet Valve with Solenoid Valve   |        |        |        |         |         |         | *       |           | *         |           | *         |
| Section 19 | Motor Bogie  |        |        |        |         |         |         |         |           |           |           |           |
| 19.01      | Motor Bogie Overhaul (See DLR-ENG-SPC-MS-755 )   |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 19.01.01   | Motor bogie frame shot blast, MPI, weld repair & repaint to ITLR-T35435-<br>001 Issue 3 15/06/2015 |        |        |        |         |         |         |         |           | *         |           |           |
| Section 20 | Articulation Bogie   |        |        |        |         |         |         |         |           |           |           |           |
| 20.01      | Articulation Bogie Overhaul (See DLR-ENG-SPC-MS-756)   |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
| Section 21 | Door System  |        |        | •      |         | •       | •       | •       | •         |           |           |           |
| 21.01      | Door Functions   |        |        |        |         |         |         |         |           |           |           |           |
| 21.01.01   | Test Door Control Panel  | *      | *      | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 21.01.02   | Selective Door Opening Examine / Test  | *      | *      | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 21.02      | Door Pushbuttons   |        |        |        | •       |         |         |         |           |           |           |           |
| 21.02.01   | Test Door Push Button Interior / Exterior  | *      | *      | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 21.02.02   | Clean Exterior Door Push Button Contacts   |        |        |        | *       | *       | *       |         | *         |           | *         |           |
| 21.02.03   | B90 & B92 Vehicles Renew Door Push Buttons internal and external S309                              |        |        |        |         |         |         |         |           |           | *         |           |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|          | Periodicity (km)  | 13,500 | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|----------|---|--------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 21.02.04 | B2000 Renew Door Push Buttons internal and external S309    |        |        |        |         |         |         |         |           | *         |           |           |
| 21.02.05 | Renew Internal Door Push Buttons S308                       |        |        |        |         |         |         |         |           | *         |           | *         |
| 21.03    | Crew Access & Passenger Emergence                           | y Re   | lease  | Valve  | es      | •       |         |         | •         | l.        |           |           |
| 21.03.01 | Renew PERV Shuttle Valves (B2000 vehicles only)             |        |        |        |         |         |         |         |           | *         |           |           |
| 21.03.02 | Test Passenger Emergency Release Valve (PERV)               |        | l      | ı      | •       | As R    | equir   | ed      |           | I.        |           |           |
| 21.03.03 | Test Crew Valve Access Operation                            |        |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 21.03.04 | Renew Crew Valve / Nylon Bush (I2 B2000)                    |        |        |        |         |         |         |         | *         | *         |           |           |
| 21.04    | Door Air Pressure   | •      | l      | ı      | •       | •       |         |         |           | I.        |           |           |
| 21.04.01 | Door Air Pressure Examine/Test                              |        |        | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 21.04.02 | Renew Door EP Valves  |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 21.04.03 | Renew or Overhaul (seal kit) Door Actuator depending on km. |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 21.04.04 | Door Actuator Fixed and Moving Contact Block                |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 21.05    | Door Locks  |        |        |        | l       |         |         |         |           | I         |           |           |
| 21.05.01 | Examine Out of Service Door Lock                            |        |        | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 21.05.02 | Renew Door Out of Service Micro Switch                      |        |        |        |         |         |         | *       |           | *         |           | *         |
| 21.06    | Door Electrics  | 1      | 1      | 1      | ı       | 1       | 1       | 1       | 1         | 1         |           |           |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|          | Periodicity (km)                                | 13,500 | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|----------|---|--------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 21.06.01 | Examine Door Electrical Cable Looms & Air Pipes |        |        | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 21.06.02 | Test K642 Relay                                 |        |        |        | *       | *       | *       |         |           |           |           |           |
| 21.06.03 | Renew K642/643 Relay                            |        |        |        |         |         |         | *       |           | *         |           | *         |
| 21.07    | Door Leaves and Mecha                           | nism   |        | •      |         |         | •       | •       |           |           |           |           |
| 21.07.01 | Test Door Interlock                             |        |        | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 21.07.02 | Examine Door Leaf Seals                         |        |        | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 21.07.03 | Examine Door Mechanism (General)                |        |        | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 21.07.04 | Examine Drive Belt                              |        |        |        | *       | *       | *       | *       | *         | *         | *         | *         |
| 21.07.05 | Renew Drive Belt and Pulleys                    |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 21.07.06 | Renew bi-part Door Maglock                      |        |        |        |         |         |         |         |           | *         |           |           |
| 21.08    | Door Guides                                     | •      | ı      |        | 1       | 1       | •       | •       | 1         |           | l.        |           |
| 21.08.01 | Clean Door Guides                               |        |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 21.09    | Door Operating Pane                             | el     |        |        |         |         |         |         |           |           |           |           |
| 21.09.01 | 3 Position Key Switch (S202)                    |        |        |        |         |         |         |         |           | *         |           |           |
| 21.09.02 | Renew 'Close This Door' Pushbutton (S305)       |        |        |        |         |         |         |         |           | *         |           |           |
| 21.09.03 | Renew 'Close Other doors' Pushbutton (S306)     |        |        |        |         |         |         |         |           | *         |           |           |



**VMMR B92** 

Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|            | Periodicity (km)                        | 13,500      | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|------------|---|-------------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 21.09.04   | Renew 'Release Doors' Pushbutton (S307) |             |        |        |         |         |         |         |           | *         |           |           |
| 21.09.05   | Renew 'Microphone' Pushbutton (S329)    |             |        |        |         |         |         |         |           | *         |           |           |
| Section 22 | Electronic Racks                        |             |        |        |         |         |         |         |           |           |           |           |
| 22.01      | ECU                                     |             |        |        |         |         |         |         |           |           |           |           |
| 22.01.01   | Examine ECU Cupboard & Equipment        | As Required |        |        |         |         |         |         |           |           |           |           |
| 22.01.02   | Renew ECU Relay/ Control Modules        |             |        |        |         |         |         | *       |           | *         |           | *         |
| 22.01.03   | Examine Ventilation Fan                 |             |        |        | *       | *       | *       |         |           |           |           |           |
| 22.01.04   | Renew Ventilation Fan                   |             |        |        |         |         |         | *       |           | *         |           | *         |
| 22.01.05   | Accelerometer Calibration Test          |             |        |        | *       | *       | *       | *       | *         | *         | *         | *         |
| 22.01.06   | Renew Input Buffer Cards                |             |        |        |         |         |         | *       |           | *         |           | *         |
| 22.01.07   | Clean ECU Cupboard                      |             |        |        | *       | *       | *       | *       | *         | *         | *         | *         |
| 22.02      | VOBC                                    |             |        |        |         |         |         |         |           |           |           |           |
| 22.02.01   | Examine VOBC Cupboard & Equipment       | *           | *      | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 22.02.02   | Renew VOBC Relays K7, RK**, F7          |             |        |        |         |         |         | *       | *         | *         | *         | *         |
| 22.02.03   | Examine Ventilation Fan                 |             |        |        | *       | *       | *       |         |           |           |           |           |
| 22.02.04   | Renew Ventilation Fan                   |             |        |        |         |         |         | *       |           | *         |           | *         |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

| Periodicity (km) |                                       |  |  |   | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|------------------|---------------------------------------|--|--|---|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 22.02.05         | Download VOBC                         | * 13,500<br>* 27,000<br>* 54,000<br>* 432,000<br>* 432,000<br>* 1,296,0<br>* 1,728,0 |  |   |         |         |         |         |           |           |           | *         |
| 22.02.06         | Clean VOBC Cupboard                   |  |  |   | *       | *       | *       | *       | *         | *         | *         | *         |
| 22.03            | ссту                                  |  |  |   |         |         |         |         |           |           | •         |           |
| 22.03.01         | Test CCTV                             | As Required  |  |   |         |         |         |         |           |           |           |           |
| Section 23       | Heating and Ventilation System        |  |  |   |         |         |         |         |           |           |           |           |
| 23.01            | Heaters                               |  |  |   |         |         |         |         |           |           |           |           |
| 23.01.01         | Clean Vacuum Heaters                  |  |  |   |         | As R    | equir   | ed      |           |           |           |           |
| 23.01.02         | Examine Heater Connections and Cables |  |  |   |         | As R    | equir   | ed      |           |           |           |           |
| 23.01.03         | Clean Heater Covers                   |  |  |   |         | As R    | equir   | ed      |           |           |           |           |
| 23.01.04         | Renew Heater Fans                     |  |  |   |         |         | *       |         | *         |           | *         |           |
| 23.01.05         | Renew Pressure Sensors                |  |  |   |         |         | *       |         | *         |           | *         |           |
| 23.01.06         | Examine Heater Safety Signage         |  |  | • |         | As R    | equir   | ed      |           |           |           |           |
| 23.01.07         | Test Operation of Heaters             |  |  |   |         | As R    | equir   | ed      |           |           |           |           |
| 23.02            | Thermostats                           |  |  |   |         |         |         |         |           |           |           |           |
| 23.02.01         | Test Aspiration Fan                   |  |  |   |         | As R    | equir   | ed      |           |           |           |           |
| 23.02.02         | Vacuum Aspirations Fan Housing        |  |  |   |         | As R    | equir   | ed      |           |           |           |           |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|            | Periodicity (km)  | 13,500                                | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |  |  |
|------------|---|---------------------------------------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|--|--|
| 23.02.03   | Renew Aspiration Fan  | * * * * * * * *                       |        |        |         |         |         |         |           |           |           | *         |  |  |
| 23.03      | Contactor Box   |                                       |        |        |         |         |         |         |           |           |           |           |  |  |
| 23.03.01   | Inspect Contactor Box   | As Required                           |        |        |         |         |         |         |           |           |           |           |  |  |
| 23.03.02   | Replace Fuses   |                                       |        |        |         |         | *       | *       | *         | *         | *         | *         |  |  |
| 23.03.03   | Replace contactor box Seals   | As Required                           |        |        |         |         |         |         |           |           |           |           |  |  |
| Section 24 | Bogie Inspection / Tyre Turning   |                                       |        |        |         |         |         |         |           |           |           |           |  |  |
| 24.01      | Wheelsets   |                                       |        |        |         |         |         |         |           |           |           |           |  |  |
| 24.01.01   | Examine Flange Heights and Thickness (see DLR-ENG-SPC-MS-752)                                   | *                                     | *      | *      | *       | *       | *       | *       | *         | *         | *         | *         |  |  |
| 24.01.02   | Check Wheel Tread (see DLR-ENG-SPC-MS-752)  | *                                     | *      | *      | *       | *       | *       | *       | *         | *         | *         | *         |  |  |
| 24.01.03   | Wheel Rollover (see DLR-ENG-SPC-MS-752)   | *                                     | *      | *      | *       | *       | *       | *       | *         | *         | *         | *         |  |  |
| 24.01.04   | Wheel Diameter Difference across Axles  | *   *   *   *   *   *   *   *   *   * |        |        |         |         |         |         |           |           |           |           |  |  |
| 24.01.05   | Inspection of tyres for renewal   |                                       |        |        |         |         |         | *       |           | *         |           | *         |  |  |
| 24.01.06   | Tyre turning (see DLR-ENG-SPC-MS-752) please note the maximum is 126,000Km between tyre turning |                                       |        |        | *       | *       | *       | *       | *         | *         | *         | *         |  |  |
| 24.02      | Axles   |                                       |        | •      | •       | •       |         |         |           |           |           |           |  |  |
| 24.02.01   | Examine Axle Bearings   | As Required                           |        |        |         |         |         |         |           |           |           |           |  |  |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|            | 13,500                                       | 27,000      | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |   |  |  |
|------------|--|-------------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|---|--|--|
| 24.02.02   | Lubricate Axle Bearings                      | As Required |        |         |         |         |         |           |           |           |           |   |  |  |
| 24.02.03   | Renew Axle Bearings                          |             |        |         |         |         |         |           |           |           | *         |   |  |  |
| 24.03      | Dampers                                      |             |        |         |         |         |         |           |           |           |           |   |  |  |
| 24.03.01   | Examine Vertical and Horizontal Dampers      | *           | *      | *       | *       | *       | *       | *         | *         | *         | *         | * |  |  |
| 24.04      | Primary Suspension                           |             |        |         |         |         |         |           |           |           |           |   |  |  |
| 24.04.01   | Examine Primary Suspension                   | *           | *      | *       | *       | *       | *       | *         | *         | *         | *         | * |  |  |
| 24.04.02   | Examine Primary Suspension Torque Indicators | *           | *      | *       | *       | *       | *       | *         | *         | *         | *         | * |  |  |
| 24.05      | Gearboxes and Final D                        | rive        |        |         |         |         |         |           |           |           |           |   |  |  |
| 24.05.01   | Examine Gearbox and Final Drive              |             |        |         |         | As R    | equir   | ed        |           |           |           |   |  |  |
| 24.05.02   | Examine Final Drive Coupling                 |             |        |         |         | As R    | equir   | ed        |           |           |           |   |  |  |
| 24.05.03   | Gearbox Inspection using Ultraviolet Light   | *           | *      | *       | *       |         |         |           |           |           |           |   |  |  |
| 24.05.04   | Ultrasonic Testing of the Gearbox            |             |        |         |         | *       | *       | *         | *         | *         | *         | * |  |  |
| 24.05.05   | Gearbox oil sampling                         |             |        | *       | *       | *       | *       | *         | *         | *         | *         | * |  |  |
| Section 25 | General Internal Inspec                      | tion        |        |         |         |         |         |           |           |           |           |   |  |  |
| 25.01      | Floor, Furniture & Interior                  | Pane        | els    |         |         |         |         |           |           |           |           |   |  |  |
| 25.01.01   | Examine Floor Tiles and Trimmings            |             |        |         |         | As R    | equir   | ed        |           |           |           |   |  |  |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|          | Periodicity (km)                      | 13,500      | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |  |
|----------|---------------------------------------|-------------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|--|
| 25.01.02 | Examine Seat Frames, Squabs and Backs | As Required |        |        |         |         |         |         |           |           |           |           |  |
| 25.01.03 | Examine Panels and Mouldings          | As Required |        |        |         |         |         |         |           |           |           |           |  |
| 25.01.04 | Examine Handrails                     | As Required |        |        |         |         |         |         |           |           |           |           |  |
| 25.01.05 | Examine Draft Screens                 | As Required |        |        |         |         |         |         |           |           |           |           |  |
| 25.01.06 | Examine EDP's                         |             |        | *      | *       | *       | *       | *       | *         | *         | *         | *         |  |
| 25.01.07 | Examine EDP's Joystick                |             |        | *      | *       | *       | *       | *       | *         | *         | *         | *         |  |
| 25.02    | Interior Lights                       |             |        |        |         | •       |         |         |           |           |           |           |  |
| 25.02.01 | Examine Lighting Covers               |             |        |        |         | As R    | equir   | ed      |           |           |           |           |  |
| 25.02.02 | Lighting Tubes and Lamps              |             |        |        | *       | *       | *       | *       | *         | *         | *         | *         |  |
| 25.03    | Articulation Cabinet                  | s           |        | ı      | •       |         |         |         | •         | l.        |           |           |  |
| 25.03.01 | Examine / Clean Articulation Cabinets |             |        |        |         | As R    | equir   | ed      |           |           |           |           |  |
| 25.03.02 | Articulation Cabinet Locks            |             |        |        |         | As R    | equir   | ed      |           |           |           |           |  |
| 25.04    | Glass & Seals                         |             |        |        |         |         |         |         |           |           |           |           |  |
| 25.04.01 | Examine Windows and Seals             |             |        |        |         | As R    | equir   | ed      |           |           |           |           |  |
| 25.04.02 | Examine Hopper Windows                |             |        |        |         | As R    | equir   | ed      |           |           |           |           |  |
| 25.05    | Fire Extinguishers                    |             |        |        |         |         |         |         |           |           |           |           |  |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|            | Periodicity (km)  | 13,500  | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|------------|---|---------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 25.05.01   | Examine Fire Extinguishers                                      |         | •      | •      |         | As R    | equir   | ed      |           |           |           |           |
| 25.06      | Interior / Exterior Vehicle S                                   | Signa   | ge     |        |         |         |         |         |           |           |           |           |
| 25.06.01   | Examine / Replace Signage                                       |         |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 25.07      | Emergency Equipme   | nent    |        |        |         |         |         |         |           |           |           |           |
| 25.07.01   | Examine Emergency Equipment                                     |         |        |        |         | As R    | equir   | ed      |           |           |           |           |
| Section 26 | Electrical Systems - Ger  | General |        |        |         |         |         |         |           |           |           |           |
| 26.01      | A End Relay Rack / Conta  | actor   | s      |        |         |         |         |         |           |           |           |           |
| 26.01.01   | Renew A End Relays / Examine Co                                 | ntact   | ors (F | AP A   | )       |         |         |         |           |           |           |           |
|            | K206 & K213 on Relay Card Type C                                |         |        |        |         |         |         | *       |           | *         |           | *         |
|            | K220 on Relay Cards Type B                                      |         |        |        |         |         | *       | *       | *         | *         | *         | *         |
|            | K218, K236, K201, K208, K207, K239 & K214 on Relay Cards Type B |         |        |        |         |         |         | *       |           | *         |           | *         |
|            | K216, K217, K205, K202 & K234 on Relay Cards Type B             |         |        |        |         |         |         | *       |           | *         |           | *         |
|            | K204 & K203 on Relay Cards Type B                               |         |        |        |         |         | *       | *       | *         | *         | *         | *         |
|            | K241 A End Rack under FAP                                       |         |        |        |         |         | *       | *       | *         | *         | *         | *         |
|            | K613 A End Rack under FAP                                       |         |        |        |         |         |         |         |           | *         |           |           |
|            | K608 Door open delay relay A End Rack under FAP                 |         |        |        |         |         |         | *       |           | *         |           | *         |



VMMR B92

Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|          | Periodicity (km)  | 13,500 | 27,000 | 54,000 | 108,000      | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|----------|---|--------|--------|--------|--------------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 26.01.02 | Examine Contactors A End Rack under FAB K601, K602, K603, K605, K607, K609, K610 & K616 |        |        |        |              |         |         | *       |           |           |           | *         |
| 26.01.03 | Renew Contactors A End Rack under FAB K601, K602, K603, K605, K607, K609, K610 & K616   |        |        |        |              |         |         |         |           | *         |           |           |
| 26.02    | B End Relay Rack 1  |        |        | 1      | l .          | 1       | •       |         | l         | l.        |           |           |
| 26.02.01 | Renew B End Relay Rack 1 / Examine  | Cont   | actor  | s (FAI | <b>P B</b> ) |         |         |         |           |           |           |           |
|          | K206 & K213 on Relay Card Type C  |        |        |        |              |         |         | *       |           | *         |           | *         |
|          | K220 on Relay Card Type B   |        |        |        |              |         | *       | *       | *         | *         | *         | *         |
|          | K218, K236, K201, K208, K207, K239 & K214 on Relay Cards Type B                         |        |        |        |              |         |         | *       |           | *         |           | *         |
|          | K216, K217, K205, K202 & K234 on Relay Cards Type B                                     |        |        |        |              |         |         | *       |           | *         |           | *         |
|          | K204 & K203 on Relay Cards Type B   |        |        |        |              |         | *       | *       | *         | *         | *         | *         |
|          | K241 B End Rack under FAP   |        |        |        |              |         | *       | *       | *         | *         | *         | *         |
|          | K613 B End Rack under FAP   |        |        |        |              |         |         |         |           | *         |           |           |
|          | K608 B End Rack under FAP   |        |        |        |              |         |         | *       |           | *         |           | *         |
| 26.02.02 | Examine Contactors B End Rack under FAP K600, K601, K602, K603, K605, K607, K609 & K610 |        |        |        |              |         |         | *       |           |           |           | *         |
| 26.02.03 | Renew Contactors B End Rack under FAP K600, K601, K602, K603, K605,                     |        |        |        |              |         |         |         |           | *         |           |           |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|          | Periodicity (km)   | 13,500 | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|----------|--|--------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
|          | K607, K609 & K610  |        |        | 4,     |         |         | ,       | - w     |           |           | .,        |           |
| 26.03    | B End Relay Rack 2 (F                                    | AP B)  |        | ·      |         |         |         |         | 1         |           | I         |           |
| 26.03.01 | Renew Relay B End Relay R                                | ack 2  | FAP E  | 3      |         |         |         |         |           |           |           |           |
|          | K228,K242,K302 on Relay Card Type B                      |        |        |        |         |         |         | *       |           | *         |           | *         |
|          | K611A,K611B, K614 A,K614B Type E relay cards             |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
|          | K225 on relay control K213                               |        |        |        |         |         |         | *       |           | *         |           | *         |
| 26.04    | Articulation Relay F                                     | ack    |        |        | 1       | 1       | •       | •       | 1         |           | I.        |           |
| 26.04.01 | Renew Articulation Rela                                  | ay Rac | k      |        |         |         |         |         |           |           |           |           |
|          | K235, K223 & K221 on Relay Card Type B                   |        |        |        |         |         |         | *       |           | *         |           | *         |
|          | K219 on Relay Card Type B                                |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
|          | K211, K212, K226, K227, K230, K231 on Relay Cards Type A |        |        |        |         |         |         | *       |           | *         |           | *         |
|          | K229 & K240 on Relay Card Type B                         |        |        |        |         |         | *       | *       | *         | *         | *         | *         |
|          | K224 on Relay Card Type B                                |        |        |        |         |         |         | *       |           | *         |           | *         |
|          | K222 on Relay Card Type D                                |        |        |        |         |         |         | *       |           | *         |           | *         |
|          | K3201  |        |        |        |         |         |         | *       |           | *         |           | *         |
| 26.05    | Cupboard under Emergency Driving                         | Posit  | ion A  | & B E  | End     |         | 1       | 1       |           | ı         | ı         |           |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|            | Periodicity (km)                             | 13,500      | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|------------|--|-------------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 26.05.01   | Renew Shunt light flashing Relay K301        | *           |        |        |         |         |         |         |           |           |           |           |
| 26.06      | Vehicle Health Monit                         | or          |        |        |         |         | •       |         |           |           |           |           |
| 26.06.01   | Examine Condition and Security of Connectors |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 26.06.02   | Examine / Lubricate Rack                     |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 26.06.03   | Examine CPU Indication                       |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 26.06.04   | Clean Equipment Cupboard                     |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 26.06.05   | Examine / Renew Cupboard Lock                |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 26.06.06   | Test VHM Settings                            |             |        |        |         | *       | *       | *       | *         | *         | *         | *         |
| 26.07      | Incident Recorder                            | •           | •      | •      |         | •       | •       |         |           |           |           |           |
| 26.07.01   | Examine Condition and Security of Connectors |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 26.07.02   | Examine / Lubricate Rack                     |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 26.07.03   | Clean Equipment Cupboard                     |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 26.07.04   | Examine/ renew Cupboard Lock                 | As Required |        |        |         |         |         |         |           |           |           |           |
| 26.07.05   | Test IR Settings                             |             |        |        |         |         |         |         |           |           |           |           |
| Section 28 | Front End Doors                              |             |        |        |         |         |         |         |           |           |           |           |
| 28.01      | End Doors                                    |             |        |        |         |         |         |         |           |           |           |           |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|            | Periodicity (km)                        | 13,500      | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|------------|---|-------------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 28.01.01   | Examine Leading Door                    |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 28.01.02   | Check/Adjust Leading Door Closing Force |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 28.01.03   | Lubricate/Check Lock                    |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 28.01.04   | Test Door Lock and Handle               |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 28.01.05   | Examine Latch                           |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 28.01.06   | Renew Front End door Maglocks           |             |        |        |         |         |         |         |           | *         |           |           |
| 28.02      | Leading Door Test                       | •           | •      | •      |         |         | •       | •       |           |           |           |           |
| 28.02.01   | Leading Door Inhibit Test               | *           | *      | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| Section 29 | Articulation Joint (Inter               | rnal)       |        | •      | •       |         |         | •       | •         |           |           |           |
| 29.01      | Turntable & Floor Plat                  | tes         |        |        |         |         |         |         |           |           |           |           |
| 29.01.01   | Lift Floor Plates                       |             |        |        |         | As R    | equir   | ed      |           |           |           |           |
| 29.01.02   | Examine Rollers and Ball Units          |             |        |        | *       | *       | *       |         | *         |           | *         |           |
| 29.01.03   | Renew Rollers and Ball Units            |             |        |        |         |         |         | *       |           | *         |           | *         |
| 29.01.04   | Renew Swivel Plate Rubber joints        | As Required |        |        |         |         |         |         |           |           |           |           |
| 29.02      | Underframe                              | •           |        |        |         |         |         |         |           |           |           |           |
| 29.02.01   | .01 Examine Slew Ring Fixings           |             |        |        |         | *       |         |         |           |           |           |           |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|            | Periodicity (km)   | 13,500      | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|------------|--|-------------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 29.02.02   | Examine Pivots and Bushes Fixings                              |             |        |        | *       | *       | *       | *       | *         | *         | *         | *         |
| 29.02.03   | Examine Underframe   |             |        |        |         |         | *       | *       | *         | *         | *         | *         |
| 29.03      | Articulation Looms   |             |        |        |         |         |         |         |           |           |           |           |
| 29.03.01   | Examine High Voltage Cables & Cable Running Pads               |             |        |        | *       | *       | *       | *       | *         | *         | *         | *         |
| 29.03.02.  | Renew PTFE Wear Strips   |             |        |        |         |         | *       | *       | *         | *         | *         | *         |
| Section 30 | Testing  |             |        |        |         |         |         |         |           |           |           |           |
| 30.01      | Tests  |             |        |        |         |         |         |         |           |           |           |           |
| 30.01.01   | Test EDP   | *           | *      | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 30.01.02   | Test Door Protection   |             | *      | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 30.01.03   | EDP with Emergency Shunt Selected, Door Inhibit Released, Test |             | *      | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 30.01.04   | Articulation Control Panel Test                                | *           | *      | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 30.01.05   | Lighting Test  | *           | *      | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 30.01.06   | General Checks   | *           | *      | *      | *       | *       | *       | *       | *         | *         | *         | *         |
| 30.01.07   | System Tests when Lowered from Jacks                           | As Required |        |        |         |         |         |         |           |           |           |           |
| 30.01.08   | Final Check of Skirts  | As Required |        |        |         |         |         |         |           |           |           |           |
| 30.01.09   | ATO and EP107 Testing  |             |        |        |         |         |         | *       |           | *         |           | *         |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

|          | Periodicity (km) | 13,500 | 27,000 | 54,000 | 108,000 | 216,000 | 432,000 | 864,000 | 1,296,000 | 1,728,000 | 2,160,000 | 2,592,000 |
|----------|------------------|--------|--------|--------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| 30.01.10 | Deep Clean       |        |        |        |         | As R    | equir   | ed      |           |           |           |           |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL **VMMR B92** 

### 6. Reference Documents

#### 6.1 Reference Drawings

| Drawing Number | Drawing Title             | Section /<br>Job No. |
|----------------|---------------------------|----------------------|
|                | B92 Electrical Schematics |                      |
|                | B92 Air Schematics        |                      |

#### 6.2 Reference Documents

| Reference<br>Number | Document Title   | Section /<br>Job No. |
|---------------------|--|----------------------|
| Volumes 1 – 6       | Bombardier Maintenance Manuals                             |                      |
| Work Instructions:  |  |                      |
| WIRS 004            | Coupler Replacement  |                      |
| WIRS 007            | Door Operational Test                                      |                      |
| WIRS 008            | Replacing BN Rack Relays                                   |                      |
| WIRS 009            | Accelerometer Testing                                      |                      |
| WIRS 013            | Traction Rod Removal                                       |                      |
| WIRS 015            | VOBC Data Dumping  |                      |
| WIRS 016            | I Exam Contactor Replacement                               |                      |
| WIRS 017            | Flange Lube Gauging  |                      |
| WIRS 025            | Instruction for Torque Wrench Usage                        |                      |
| WIRS 026            | Self-Centering Device Testing                              |                      |
| WIRS 030            | VHM / IR Maintenance                                       |                      |
| WIRS 031            | Skirt Sticker Application                                  |                      |
| WIRS 033            | Car Height Measurement                                     |                      |
| WIRS 036            | Rewire of Artic Bogie Antenna to remove Litton Plug        |                      |
| WIRS 038            | Setting Car Heights  |                      |
| WIRS 040            | Fitting Secondary Suspension Packing Spacers without Jacks |                      |
| WIRS 049            | Compensating Valve Check                                   |                      |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL **VMMR B92** 

| Reference<br>Number | Document Title  | Section /<br>Job No. |
|---------------------|---|----------------------|
| WIRS 050            | Bochum 54 Wheel / Tyre Assembly                       |                      |
| WIRS 051            | Bochum 84 Wheel / Tyre Assembly                       |                      |
| WIRS 062            | Add Fluorescent Dye to Gearbox                        |                      |
| WIRS 068            | Fitting Hasler Pulse Generator                        |                      |
| WIRS 069            | B2007 Front Door Check                                |                      |
| WIRS 082            | Setting Height of Modified Adjustable Middle Antennae |                      |
| MTI 713             | Train Preparedness                                    |                      |

### 7. Change Logs

All changes, major or minor, are to be captured via the change log.

#### VMMR B92 Issue 2 Change Log

| Section  | Page | Reason for Change  | Date     | Author of<br>Change |
|----------|------|--|----------|---------------------|
| 2        | 5    | Document Hierarchy chart updated following review ILOP & software configuration folders added. | 12/04/13 | J. Glover           |
| 04.02.02 | 6    | Scd Locker door seal examine and renew if damaged added  | 14/05/13 | J. Glover           |
| 22.02.02 | 8    | K7 relay added, renewal Km periodicity changed from 864,000to 432,000                          | 05/06/13 | J. Glover           |
| 24.05.04 | 14   | Ultrasonic testing of the gear box added at 216,000Km Interval                                 | 26/07/13 | J. Glover           |
| 24.05.05 | 14   | Gearbox oil sampling/ mag plug inspection added at 54'0000Km                                   | 24/06/13 | J. Glover           |
| 24.01.05 | 6    | Inspection of tyres for renewal at 864,000Km interval  | 28/06/13 | J. Glover           |
| 12.01.08 | 8    | Document number change MR 754 CMS Couplers now DLR-ENG-SPC-CMS-754                             | 09/07/13 | J. Glover           |
| 12.02.06 | 13   | Document number change MR 754 CMS Couplers now DLR-ENG-SPC-CMS-754                             | 09/07/13 | J. Glover           |
| 12.05.02 | 17   | Document number change MR 754 CMS Couplers now DLR-ENG-SPC-CMS-754                             | 09/07/13 | J. Glover           |
| 12.06.02 | 19   | Document number change MR 754 CMS Couplers now DLR-ENG-SPC-CMS-754                             | 09/07/13 | J. Glover           |



VMMR B92

Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

| Section  | Page | Reason for Change  | Date     | Author of<br>Change |
|----------|------|--|----------|---------------------|
| 12.10.01 | 21   | Document number change MR 754 CMS Couplers now DLR-ENG-SPC-CMS-754   | 09/07/13 | J. Glover           |
| 17       | n/a  | Document number change MR 752 CMS Wheelsets now DLR-ENG-SPC-MS-752   | 09/07/13 | J. Glover           |
| 16       | n/a  | Document number change MR 753 CMS Traction<br>Motors now DLR-ENG-SPC-CMS-753   | 09/07/13 | J. Glover           |
| 19       | n/a  | Document number change MR 755 CMS Motor Bogie now DLR-ENG-SPC-CMS-755  | 09/07/13 | J. Glover           |
| 20       | n/a  | Document number change MR 756 CMS Motor Bogie now DLR-ENG-SPC-CMS-756  | 09/07/13 | J. Glover           |
| 25.04.01 | 12   | Examine window rubbers change on condition added   | 09/07/13 | J. Glover           |
| 25.01.02 | 2    | Examine seat squab for fire retardant seat mesh visible through seat squab   | 10/07/13 | J. Glover           |
| 21.07.06 | 21   | Renew Bi -part- door Maglocks at 1,728,000Km interval  | 15/07/13 | J. Glover           |
| 28.01.06 | 6    | Renew front end door Maglocks at 1,728,000Km interval  | 15/07/13 | J. Glover           |
| 29.01.04 | 7    | Additional task Renew Swivel Plate (turn table floor plate) Rubber joints at 1,728,000 Km  | 24/07/13 | J. Glover           |
| 21.03.01 | 10   | Inserted Renew PERV shuttle valve on B2000 vehicles only, numbering dropped down one example 23.01.01 is now 23.01.02 in the 21.03 section | 24/07/13 | J. Glover           |
| 13.05.02 | 26   | Additional task Clean/Paint Visually Inspect Pressure Vessels  | 24/07/13 | J. Glover           |
| 26.01.02 | 8    | Additional relay added K616 Compressor sync contactor  | 24/07/13 | J. Glover           |
| 26.01.03 | 8    | Additional task added to renew contactor relays K601,602,603,605,607,609,610,616 1,728,000 Km interval                                     | 24/07/13 | J. Glover           |
| 26.02.03 | 10   | Additional task added to renew contactor relays K600,601,602,603,605,607,609,610 at 1,728,000 km interval                                  | 24/07/13 | J. Glover           |
| 01.04.04 | 6    | Examine shoe back plate /mounting bushes changed from the 13,500 interval to as required.  | 25/07/13 | J. Glover           |
| 24.05.03 | 11   | Gearbox Inspection using Ultraviolet Light changed from as required to 216,000Km Interval.   | 25/07/13 | J. Glover           |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL **VMMR B92** 

| Section  | Page | Reason for Change  | Date     | Author of Change |
|----------|------|--|----------|------------------|
| 24.01.06 | 6    | Wheel tyre turning added at 108,000Km interval with a maximum of 126,000Km to the profile as stipulated in DLR-ENG-SPC-MS -752 | 25/07/13 | J. Glover        |
| 24.05.03 | 12   | Gearbox Inspection using Ultraviolet light changed from 216,000Km to 13,500Km  | 25/07/13 | J. Glover        |

### VMMR B92 Issue 3 Change Log

| Section  | Page | Reason for Change  | Date     | Author of Change |
|----------|------|--|----------|------------------|
| 13.01    | 4    | DLR-ENG-SPC-CMS-758 B90/92/200 VRS2 compressor component maintenance specification added under reference documents           | 02/09/13 | J. Glover        |
| 13.01.01 | 4    | Heavy Maintenance see DLR-ENG-SPC-CMS-758 added  | 02/09/13 | J. Glover        |
| 13.01.03 | 6    | Heavy Maintenance see DLR-ENG-SPC-CMS-758 added  | 02/09/13 | J. Glover        |
| 13.01.07 | 9    | Heavy Maintenance see DLR-ENG-SPC-CMS-758 added  | 02/09/13 | J. Glover        |
| 13.01.08 | 10   | Heavy Maintenance see DLR-ENG-SPC-CMS-758 added  | 02/09/13 | J. Glover        |
| 13.01.09 | 11   | Heavy Maintenance see DLR-ENG-SPC-CMS-758 added  | 02/09/13 | J. Glover        |
| 13.01.10 | 12   | Heavy Maintenance see DLR-ENG-SPC-CMS-758 added  | 02/09/13 | J. Glover        |
| 13.01.12 | 14   | Heavy Maintenance see DLR-ENG-SPC-CMS-758 added  | 02/09/13 | J. Glover        |
| 13.01.13 | 15   | Heavy Maintenance see DLR-ENG-SPC-CMS-758 added  | 02/09/13 | J. Glover        |
| 21.02.04 | 9    | Renew Internal DOOR PUSH Buttons S308 & S309 added   | 09/09/13 | J. Glover        |
| 06.05.02 | 14   | Renew case seals changed from 864,000Km Interval to be completed once in the life time of the vehicle at 1,728.000Km         | 11/09/13 | J. Glover        |
| 07.01.03 | 5    | Renew Tacho generator removed as it was already stipulated under tacho meter 07.01   | 25/09/13 | J. Glover        |
| 21.02.03 | 10   | S309 door push button renew at 216,000Km on B90 & B92 Vehicles. All push buttons were changed in 2012 prior to the Olympics. | 30/09/13 | J. Glover        |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL **VMMR B92** 

| Section  | Page | Reason for Change   | Date     | Author of<br>Change |
|----------|------|---|----------|---------------------|
| 21.02.04 | 10   | S309 door push button renew at 1,728,000 km on B2000 vehicles. All push buttons were changed in 2012 prior to the Olympics.                     | 30/09/13 | J. Glover           |
| 06.05.02 | 15   | Main case equipment case seal and gasket part numbers added   | 30/09/13 | J. Glover           |
| 17       | NA   | Number Change all documents with the reference CMS have been changed to MS, <b>Example</b> DLR – ENG-SPC-CMS-752 Changed to DLR-ENG-SPC-MS-752. | 16/10/13 | J. Glover           |

#### VMMR B92 Issue 4 Change Log

| Section  | Page | Reason for Change  | Date     | Author of Change |
|----------|------|--|----------|------------------|
| 02.02.02 |      | Corrects the periodicity                                   | 30/03/16 | S.E. Taylor      |
| 02.02.05 |      | Corrects statement in line with 02.02.04                   | 30/03/16 | S.E. Taylor      |
| 02.03.01 |      | Deleted 'at an appropriate interval' star chart updated    | 30/03/16 | S.E. Taylor      |
| 06.02.05 |      | Corrected description                                      | 30/03/16 | S.E. Taylor      |
| 06.04    |      | Corrected spelling mistakes                                | 30/03/16 | S.E. Taylor      |
| 07.03    |      | Corrects Tacho periodicity                                 | 30/03/16 | S.E. Taylor      |
| 07.03.05 |      | Corrects requirement for testing                           | 30/03/16 | S.E. Taylor      |
| 11.01.01 |      | Corrects brake force test periodicity and reason for test  | 30/03/16 | S.E. Taylor      |
| 11.01.02 |      | Corrects brake force test periodicity and reason for test  | 30/03/16 | S.E. Taylor      |
| 11.05.02 |      | Corrects exam periodicity                                  | 30/03/16 | S.E. Taylor      |
| 13.04.01 |      | Corrects km periodicity                                    | 30/03/16 | S.E. Taylor      |
| 16.04    |      | Corrects description and item                              | 30/03/16 | S.E. Taylor      |
| 19.01    |      | Amended as per Variation CV2015-0026                       | 08/09/16 | S.E. Taylor      |
| 19.01.01 |      | Amended as per Variation CV2015-0026                       | 08/09/16 | S.E. Taylor      |
| 23.03.03 |      | Constrains periodicity within life of components           | 30/03/16 | S.E. Taylor      |
| 25.01.07 |      | Deletes an impossible task, joy sticks replaced when worn. | 30/03/16 | S.E. Taylor      |
| 26.02.02 |      | Corrects description error                                 | 30/03/16 | S.E. Taylor      |
| 26.02.03 |      | Corrects description error                                 | 30/03/16 | S.E. Taylor      |



Docklands Light Railway Ltd. Castor Lane, Poplar London, E14 0BL

| Section  | Page | Reason for Change                  | Date     | Author of<br>Change |
|----------|------|------------------------------------|----------|---------------------|
| 26.03.01 |      | Corrects description error         | 30/03/16 | S.E. Taylor         |
| 29.01.04 |      | Replaced on condition              | 30/03/16 | S.E. Taylor         |
| 30.01.08 |      | Exam sequence corrected to I not H | 30/03/16 | S.E. Taylor         |