Requirements for urban buses (RUB) in New Zealand

Summary of changes made to the RUB document 2020

September 2020

| **RUB 2014** | **RUB 2020** |
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| **Front page photo** | Updated with photo of Island Bay no 1 bus. |
| **Contents page** | **Contents page** being updated as document progresses. |
| **Record of amendments** | **Record of amendments** – updated for RUB review 2020. |
| **Abbreviations** | **Abbreviations** – updated to ‘abbreviations/definitions’ with:   * new Australian Design Rules for technical specifications and definitions included to align with the Public Service Vehicle Rule * new ‘Waka Kotahi NZ Transport Agency’ definition to ‘NZTA/Transport Agency’ abbreviation * new abbreviation ‘Waka Kotahi’ with definition ‘Waka Kotahi NZ Transport Agency’ |
| **1.** | No change to title. |
| **1.1 Introduction** | * Updated **1.1.2** to include **evolution of the RUB** and to include information on effectiveness, from RUB project definition document. * Updated **1.1.3 – Strategic context** to include 2018 GPS priorities. * **1.1.4 Implementation** remains unchanged. * Added **1.1.5 Verification of RUB requirements** as requirement for inspection organisations and vehicle inspectors appointed by Waka Kotahi to conduct inspections and certifications for entry into service or in-service periodic inspections. |
| **1.2 Scope** | * No change to **1.2.1 Regional Council/Auckland Transport contracted urban bus services** * Updated **1.2.2 – What does ‘new to service’ mean?** |
| **1.2.3 Special exemption for some existing bus orders.** | **1.2.3 Does the RUB apply to new, used and existing vehicles in the fleet?** |
| **1.2.4 Exemption for contracted school and rural services** | Updated **1.2.4 Special exemptions for some existing buses. Exemptions for school buses** to include new dates for RUB. |
| **1.2.5 Land transport rules** | Updated **1.2.5 RUB compliance and variation for rural services or inter-city commuter services**. Took out reference to school buses, added Very Small Bus, inter-city services. Instead of an exemption, made a variation for rural or inter-city commuter services. |
| **1.2.6 RUB and the Transport Agency’s procurement rules** | **1.2.6 Land transport rules** – took this paragraph out and provided a link to LTR.  **Note: Procurement moved to Appendix: Section 7.5** |
| **1.2.7 Does the RUB apply to new, used and existing vehicles in the fleet?**  to this section as it relates to new and existing age of buses. | Moved to 1.2.3. |
| **1.2.8 Regular reviews of the RUB** | Changed to **1.2.7 Regular reviews of the RUB** – no changes made. |
| **1.2.9 Interpretation and good practice - deleted** |  |
| **1.2.10 Items not included - moved to bottom appendix.** |  |
| **1.3 Definitions concerning buses** | **1.3 Bus sizes** – amended within section and definitions moved up to abbreviations/definitions. |
| **1.4 Process for seeking a variation** | Moved to **Appendix: Section 7.5**. |
| **2. Design and performance** | No change to title. |
| **2.1 Introduction** | **2.1 Introduction** – no change. |
| **2.2 Maximum vehicle age and fleet average age profile** | **2.2 Maximum vehicle age and fleet average age profile** – remains at 20 years and midlife defined as 10 years. |
| **2.3 Engine** | **2.3 Performance** – now includes specs relating to:   * Acceleration – changed to **Minimum: 0-50 km/h ≤ 18 seconds**. * Transmission – moved from Section 2.4 * Suspension – moved from Section 2.5 * Stability and steering moved from Section 2.6 * Vehicle Braking – moved from Section 2.7 * Hold brake/interlock – added * General safety, fire resistance – added   **Deleted Interpretation section.** |
| **2.4 Transmission** – moved to Section 2.3 | **2.4 Environmental** – new section created:   * Emissions – changed to Euro VI C-stage * Use of defeat or cheat devices are prohibited. Ongoing compliance with standard. * Contains specs on external and internal noise also. |
| **2.5 Suspension** – moved to Section 2.3 |  |
| **2.6 Stability and steering** – moved to Section 2.3 |  |
| **2.7 Braking** – moved to Section 2.3 |  |
| **3. Access** | **3 Vehicle entrance and exit**   * changed to reflect entry and exit to the vehicle. |
| **3.1 Introduction to the priority seating area** – moved to Section 4.3 | **3.1 Ramp**   * legal requirements, measurements, design features and signage. |
| **3.2 Doors – moved to Section 3.3** | **3.2 Ticketing/fare collection area**   * changed to incorporate ticketing technology and placement of machine for disabled people. |
| **3.3 Step height/depths** – moved to Section 3.4 | **3.3 Doors**   * changed to reflect different bus sizes. |
| **3.4 Floors** – moved to Section 4.5 | * 1. **Step height/depths** * kneeling is a requirement, except for VSB (Very Small Buses). |
| **3.5 Aisle width** – moved to Section 4.6 | **3.5 Step and plinth edges**   * moved specs on slip resistant and contrasting colour performance to Appendix. |
| **3.6 Seating configuration** – deleted |  |
| **3.7 Seating design** – moved to Section 4.7 |  |
| **3.8 Luggage/stroller/prams/mobility devices** – moved to Section 4.3 |  |
| **4. Vehicle interior, entrance and exit** | **4. Vehicle interior** |
| **4.1 Introduction** | **4.1 Driver compartment**   * includes info on comfort and onboard security. |
| **4.2 Step and plinth edges** – moved to Section 3.5 | **4.2 Driver operational communication** |
| **4.3 Stanchions/handrails** – moved to Section 4.8 | **4.3 Priority seating area**   * diagram changed to include two wheelchair spaces and 2 sideways-facing, single fold-up seats for mothers with children or carers. * priority seats put behind Double-barrelled hand holds to ensure safety. |
| **4.4 Grab handles on seat backs and elsewhere** – moved to Section 4.9 | **4.4 Wheelchairs**   * measurements changed to improve wheelchair manageability |
| **4.5 Lighting** -- moved to Section 4.10 | **4.5 Floors** |
| **4.6 Security and safety** – moved to Section 4.11 | **4.6 Aisle width** |
| **4.7 Heating, ventilation and air conditioning** – moved to Section 4.12 | **4.7 Seating design**   * specifies measurements and material. |
| **4.8 Demisting** – moved to Section 4.13 | **4.8 Stanchions/handrails**   * measurements and placement in DD stairwell improved following fatalities. * includes pictures showing best practice. |
|  | **4.9 Grab handles on seat backs and elsewhere** |
|  | **4.10 Internal lighting** |
|  | **4.11 Security and safety**  Information on:   * digital video recorders * number and placement of CCTV cameras * audio recordings * driver’s monitor * telematics systems * reversing system * blind spot camera system * tree guards * counting system for DD buses |
|  | **4.12 Heating, ventilation and air conditioning (HVAC)** |
|  | **4.13 Demisting** |
|  | **4.14 USB Power Ports** |
| **5. Communication** | **5. Communication** |
| **5.1 Introduction** | **5.1 Requirements**   * relating to communication with passengers and the driver. |
| **5.2 Bus stopping signals** | **5.2 “Bus stopping” electronic signs and buttons**   * updated to include placement and picture of stop button with braille. |
| **5.3 External destination display** – made into a table, interpretation deleted | **5.3 External destination display** |
| **5.4 Internal information** – made into a table | **5.4 Exterior Promotional Area** |
| **5.5 Driver operational communication** – moved to Section 4.2 | **5.5 Internal information – audio-visual announcements** |
| **6. Facilities for passengers with impairments** – moved to Section 4.3 | **6. Existing buses** |
| **6.1 Introduction** – section moved up to Section 4.3 | **6.1 Introduction** |
| **6.2 Priority seating area** – moved to Section 4.3 | **6.2 Existing bus standards** |
| **6.3 Wheelchairs** – moved to Section 4.4 | **6.3 Midlife refurbishment requirements** |
| **6.4 Boarding and alighting** – moved to Section 3 |  |
| **6.5 Ramp** – moved to Section 3.1 |  |
| **7. Driver compartment** – moved to Section 4.1 | **7. Appendix**  7.1 Items not included  7.2 Visual contrast (for floors and stanchions)   * updated references to the ‘Blind Foundation’ to ‘Blind Low Vision NZ’ to reflect their rebrand * updated Blind Foundation’s accessible signage guidelines link   7.3 Bicycle racks  7.4 Noise measurements  7.4.1 External noise measurement for vehicles in motion  7.4.2 Air brake noise measurement: Microphone positions from UN/ECE Reg. 51 |
|  | **7.5 Process for seeking a variation to these requirements**  7.5.1 RUB and the Waka Kotahi procurement rules  7.5.2 Rule  7.5.3 Guidelines  7.6 Bus condition assessment |
| **8. Existing buses** – moved to Section 6 |  |
| **8.1 Introduction** – moved to Section 6.1 |  |
| **8.2 Existing bus standards** – moved to 6.2 |  |
| **Appendix 1: Procurement variation application template** – moved to Section 7.5 |  |
| **Appendix 2: Procurement variation – internal memo seeking approval template** – moved to Section 7.5 |  |