

**Amendments and additions to the GCU:  
 Proposal sheet**

**Proposed article 19.5 and new Annexe 6 to Appendix 10**

<p><b>1. Present the problem (with examples and, if possible, figures giving a measure of the scope of the problem):</b></p> <p>Regulation 445/2011 stipulates that the ECM shall keep a full record of the repairs performed on each wagon. The text of GCU article 19.5 no longer meets the specific requirements of Regulation 445/2011, Annexe III, I.7.4 e,f,g,j and II.5.a.iii.</p>	<p><b>2. Show why and where the GCU is lacking in this respect:</b></p> <p>See Regulation 445/2011 Annexe III, I.7.4 e,f,g,j and II.5.a.iii</p>												
<p><b>3. Explain why the described problem can only be solved through the GCU:</b></p> <p>Workshops require that there be a transmission procedure for the information vital to all keepers. Keepers and their ECMs require information concerning the repair work performed on the wagon.</p>	<p><b>4. Outline why the problem should be solved as it is envisaged in the proposed amendment / addition:</b></p> <p>The data structure enables the workshop and the ECMs to exchange this vital information. The coding means that data can be classified irrespective of language.</p>												
<p><b>5. Describe how the proposed amendment or addition will help to solve the problem:</b></p> <p>Advantage for the keeper: identically-structured information received by the various workshops</p> <p>Advantage for the workshop: structure of information identical for all keepers.</p> <p>Both partners only need integrate a single interface once in their systems</p>	<p><b>6. Evaluate the possible positive and negative impacts (operational, costs, administrative, interoperability, safety, competitiveness, etc.), using a scale from 1 (very low) to 5 (very high):</b></p> <table style="width: 100%;"> <tr> <td>Operations:</td> <td style="text-align: right;">+0</td> </tr> <tr> <td>Cost:</td> <td style="text-align: right;">+0</td> </tr> <tr> <td>Administration:</td> <td style="text-align: right;">+0</td> </tr> <tr> <td>Interoperability:</td> <td style="text-align: right;">+5</td> </tr> <tr> <td>Safety:</td> <td style="text-align: right;">+5</td> </tr> <tr> <td>Competitiveness:</td> <td style="text-align: right;">+3</td> </tr> </table>	Operations:	+0	Cost:	+0	Administration:	+0	Interoperability:	+5	Safety:	+5	Competitiveness:	+3
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## **7. - Text proposal (changes in blue)**

19.5 In all cases where the RU carries out - or arranges to have carried out - repair work in application of the provisions of Appendix 10 or Appendix 13, it shall do so with all due care, making use of approved workshops and/or staff and approved materials. The RU or its auxiliary performing the work shall provide detailed information of the work carried out, **using the codes supplied in Appendix 10, Annexe 6.**

### **Appendix 10, Annexe 6: Coding of interventions**

**This list comprises the interventions possible under the GCU. They must be communicated to the keeper by the RU or its auxiliary performing the work, using the coding given in column 2. All interventions are to be communicated, irrespective of the type of damage concerned. Codes shall be indicated on the invoice and/or sent separately to the keeper. Any additional information necessary and measurement values may be communicated with the codes or in a separate list. All reports mentioned shall be sent immediately.**

#### **Structure of the list:**

**Column 1, component: classification of component in accordance with Appendix 10**

**Column 2, AVV/GCU/CUU intervention code: the intervention codes shall be sent to the keeper. Example meaning of code CU12345**

**CU: Indicates that the code belongs to the GCU, Appendix 10**  
**1: Section of the GCU, Appendix 9 or Appendix 10**  
**234: Sequence number**  
**5: Substance of intervention: 0.....inspect**  
**1..... repair, reset (without welding)**  
**2..... exchange**  
**3..... weld**

**Column 3, action: description of action. May, if so desired, be sent with intervention code.**  
**Column 4, other vital information: the measurement values indicated, position-related data, and any reports shall be communicated to the keeper.**

**Column 5, inspection as per Appendix 9: intervention corresponds to damage as described in Appendix 9 to the GCU**

**Column 6, inspection as per Appendix 10: intervention corresponds to damage as described in Appendix 10 to the GCU**

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Component	GCU intervention code	Intervention(s)	Any additional information necessary	Inspection as per Appendix 9	Rules as per Appendix 10
Wheelset	CU10010	Measure wheelset in accordance with points in section A1	axle number, value, measuring point	1.1.1, 1.3.1, 1.4, 1.7.1	1.1-1.6, 1.9, 1.18,1.19
	CU10012	Replace wheelset if values measured not within tolerances	axle number, form Hr, value, measuring points		1.1-1.6, 1.9, 1.18,1.19
	CU10020	Visually inspect wheelset	axle number,	1.2.1,1.3.2,1.6.1, 1.6.3,1.8.2	1.6-1.8,1.10-1.15.1
	CU10022	Replace wheelset following visual inspection	axle number, form Hr	1.5	1.6-1.8,1.10-1.15.1
	CU10150	Check against EVIC	diagnostics list as per EVIC,		1.15.2
	CU10152	Replace wheelset following EVIC inspection	diagnostics list as per EVIC,		1.15.2
	CU10160	Check that tyre is not loose		1.1.2-1.1.6	1.16
	CU10162	Replace wheelset following check that tyre has not come loose	axle number, form Hr		1.16
	CU10170	Measure wheelset in accordance with 1.17 (three-point measurement)	axle number, values		1.17
	CU10172	Replace wheelset if values measured fall outside 1.17 tolerances	axle number, form Hr		1.17
	CU10200	Check there is no loss of grease/oil	axle number, position of axle box	1.8.1	1.20
	CU10201	Wipe clean any lubricant loss as per Annexe 5	axle number, position of axle box		1.20
	CU10281	Reprofile monobloc wheel	axle number, value, measurement report		1.28
	CU10322	Replace wheelset following hot box	axle number, form Hr	1.2.2.2,1.8.3	1.32
Spring	CU20010	Visually inspect leaf-spring suspension	position of axle box,	2.1.1-2.1.4, 2.1.6	2.1, 2.2, 2.4, 2.7
	CU20012	Replace leaf-spring suspension spring	position of axle box, form H, indicate reason for change	2.1.1-2.1.4, 2.1.6	2.1, 2.2, 2.4, 2.7
	CU20030	Check helical springs	position of axle box,	2.5.1, 2.5.2.x	2.3, 4.20-4.23
	CU20032	Replace helical spring	position of axle box, form H, indicate reason for change		2.3, 4.20-4.23
	CU20051	Check distance between spring buckle and fixed part of bogie frame or wagon	position of axle box,	2.1.5, 2.5.6	2.5
	CU20051	Rectify distance between spring buckle and fixed part of bogie frame or wagon	position of axle box,	2.1.5, 2.5.6	2.5
	CU20060	Check for contact marks between spring buckle and fixed part of bogie frame or wagon	position of axle box,	2.4.4,2.5.6	2.6
	CU20061	Rectify causes and paint any contact marks between spring buckle and fixed part of bogie frame or wagon	position of axle box, detail activities	2.4.4,2.5.6	2.6
	CU20080	Check elements composing the elastic suspension	position of axle box,	2.4.2- 2.4.4	2.8
	CU20082	Replace elements composing the elastic suspension	position of axle box, indicate reason for change	2.4.2- 2.4.4	2.8

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	CU20092	Replace suspension spring shaft	position of axle box, indicate reason for change	2.4.3	2.8
Brake	CU30030	Check main brake pipe			3.3
	CU30040	Check disc brake indicator			3.4
	CU30050	Check brake rigging and mechanical parts		3.1.1	3.1-3.2, 3.6, 3.13
	CU30060	Check safety stirrups		3.1.2	3.5
	CU30061	Right/straighten safety stirrup		3.1.2	3.5
	CU30062	Replace safety stirrup		3.1.2	3.5
	CU30070	Check brake blocks		3.2	3.6-3.8
	CU30072	Replace brake blocks		3.2	3.6-3.8
	CU30100	Check brake hoses		3.3.2	3.9-3.10
	CU30102	Replace brake hoses		3.3.2	3.9-3.10, 3.17
	CU30110	Check height of brake hoses relative to rail			3.11
	CU30111	Rectify height of brake hoses relative to rail			3.11
	CU30120	Check cut-off cock		3.3.5	3.12
	CU30121	Replace cut-off cock		3.3.5	3.12
	CU30131	Remove or secure damaged or detached brake parts	indicate which parts have been removed or secured		3.13
	CU30150	Check handbrake		3.5	3.15
	CU30151	Repair handbrake		3.5.1	3.15
CU30190	Perform brake test as per UIC 543-1	brake test report		3.19	
Underframe and bogie	CU40010	Check wagon underframe		4.1.1, 4.1.2	4.1
	CU40020	Check flanges of solebars, headstocks and intermediate cross-bars subject to stress from the coupler		4.1.1, 4.1.2	4.2
	CU40030	Check welding on wagon underframe		4.1.1, 4.1.2	4.3
	CU40033	Repair wagon underframe by welding	indication as per EN 15085-2	4.1.1, 4.1.2	4.3
	CU40040	Check coupler handrails		6.1.7.4	4.4
	CU40041	Right/straighten coupler handrail		6.1.7.4	4.4
	CU40042	Replace coupler handrail		6.1.7.4	4.4
	CU40050	Check steps and handrails		6.1.7.1, 6.1.7.2, 6.1.7.3, 6.1.7.4	4.5
	CU40051	Right/straighten steps or handrail		6.1.7.1, 6.1.7.2, 6.1.7.3, 6.1.7.4	4.5
	CU40052	Replace steps or handrail		6.1.7.1, 6.1.7.2, 6.1.7.3, 6.1.7.4	4.5
	CU40060	Check spark arrestor plates		3.5	4.6, 4.7
	CU40061	Repair spark arrestor plate	position of axle box	3.5	4.6, 4.7
	CU40062	Replace spark arrestor plate	position of axle box	3.5	4.6, 4.7
	CU40080	Check axle guard and tie		4.2.x, 4.3.1, 4.4.x	4.8-4.10
	CU40081	Repair axle guard		4.2.x, 4.3.1	4.8-4.10
	CU40082	Replace axle guard		4.2.x, 4.3.1	4.8-4.10
	CU40102	Replace axle guard tie	position of axle box	4.2.x, 4.3.1	4.8-4.10
CU40110	Check suspension spring brackets		4.5.1	4.11	

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	CU40111	Repair suspension spring brackets		4.5.1	4.11
	CU40112	Replace suspension spring brackets	position of axle box	4.5.1	4.11
	CU40120	Check bogies		4.7.x	4.12-4.15
	CU40130	Check welds on bogie frames	bogie number or position of axle box	4.7.x	4.12-4.15
	CU40133	Repair bogie frame by welding	bogie number or position of axle box	4.7.x	4.12-4.15
	CU40160	Check bogie centre casting	bogie number or position of axle box	4.6.1	4.16
	CU40162	Replace bogie centre casting	bogie number or position of axle box	4.6.1	4.16
	CU40170	Check kingpin	bogie number or position of axle box	4.6.1	4.17
	CU40172	Replace kingpin	bogie number or position of axle box	4.6.1	4.17
	CU40180	Check axle guard guiding surface		4.4.x	4.18
	CU40183	Weld axle guard guiding surface	position of axle box	4.4.x	4.18
	CU40190	Check earthing braid		4.6.2.x	4.19
	CU40192	Replace earthing braid	bogie number or position of axle box	4.6.2.x	4.19
	CU40322	Replace any rivets, screws or bolts which are loose or missing from the axle guard securing	position of axle box		4.32
	CU40331	Clean contact surface of the suspension shock absorber	position of axle box		4.33
	CU40343	Weld wear plate onto bogie	bogie number or position of axle box		4.34
Traction and buffer	CU50010	Measure buffing height	height per buffer	5.1.2	5.1
	CU50030	Check buffers, "starred points"		5.1.1, 5.2.x, 5.3.x, 5.4.x, 5.5.x	5.3, 5.7, 5.8, 5.9
	CU50040	Check buffers: fastening, spring, casing		5.1.1, 5.2.x, 5.3.x, 5.4.x, 5.5.x	5.4, 5.5, 5.6
	CU50032	Replace buffer fastening bolt		5.4.4.x	5.3
	CU50081	Lubricate buffer plates		5.2.3.1	5.8
	CU50110	Check draw hook and screw coupler		5.6.x	5.11, 5.12, 5.13, 5.14, 5.19
	CU50111	Rectify height of screw coupler relative to rail		5.6.3	5.11
	CU50132	Replace screw coupler			5.13
	CU50142	Replace draw hook		5.7.1.x	5.13
	CU50150	Check draw bar		5.8.1	5.15
	CU50170	Check traction		5.6.2	5.17, 5.18
	CU50172	Replace traction		5.6.2	5.17, 5.18
	CU50200	Check screw coupler dummy hook		5.6.2	5.20
	CU50201	Right/straighten screw coupler dummy hook		5.6.2	5.20
	CU50202	Replace screw coupler dummy hook		5.6.2	5.20
	CU50213	Repair draw bar temporarily by welding			5.21
	CU50220	Check shock absorber		5.9.1	5.22
	CU50221	Repair shock absorber		5.9.1	5.22
	CU50042	Replace buffers at one end			5.23

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	CU50252	Replace damaged or distorted anti-crash device		5.5.2	5.26
	CU50262	Replace buffer fitted with damaged or distorted anti-crash device with standard buffer		5.5.2	5.26
Wagon body	CU60020	Check wagon body		6.1.3.x, 6.1.4.x, 6.1.7.9	6.1,6.2
	CU60021	Repair wagon body		6.1.3.x, 6.1.4.x	6.2
	CU60022	Repair wagon body following gauge-fouling		6.1.3.x ,6.1.4.x	6.2
	CU60030	Check heating pipes and other connections			6.3
	CU60031	Rectify minimum height relative to the rail of the heating pipes and other connections			6.3
	CU60040	Check moving parts and the devices used to control them			6.4
	CU60041	Restore moving parts and the devices used to control them to working order			6.4
	CU60050	Check floor		6.1.5.x	6.5
	CU60051	Repair floor		6.1.5.x	6.5
	CU60060	Check sliding doors and collapsible side walls		6.1.6.x	6.6
	CU60061	Restore sliding doors and collapsible side walls to working order		6.1.6.x	6.6
	CU60070	Check door locking		6.1.6.x	6.7
	CU60071	Restore door locking to working order		6.1.6.x	6.7
	CU60080	Check door leak-tightness		6.1.6.x	6.8
	CU60081	Restore door leak-tightness to working order		6.1.6.x	6.8
	CU60090	Check guiding and locking systems		6.1.6.x	6.9
	CU60091	Restore guiding and locking systems to working order		6.1.6.x	6.9
	CU60092	Replace guiding and locking systems		6.1.6.x	6.9
	CU60100	Check steps and handrails		6.1.7.1-6.1.7.4	6.10, 6.11, 6.12
	CU60101	Right/straighten steps and handrails		6.1.7.1-6.1.7.4	6.10, 6.11, 6.12
	CU60102	Replace steps and handrails	indicate parts replaced,	6.1.7.1-6.1.7.4	6.10, 6.11, 6.12
	CU60130	Check label-holder, marking plate, etc.		6.1.7.5,6.1.7.6	6.13
	CU60131	Repair label-holder, marking plate, folding board		6.1.7.5,6.1.7.6	6.13
	CU60132	Replace label-holder, marking plate, folding board	indicate parts replaced,	6.1.7.5,6.1.7.6	6.13
	CU60140	Check markings as per Appendix 11		6.1.x, 6.2.x	6.14
	CU60141	Render markings compliant		6.1.x, 6.2.x	6.14
	CU60150	Check ventilation flaps		6.2.1.x	6.15
	CU60151	Repair ventilation flaps		6.2.1.x	6.15
	CU60152	Replace ventilation flaps		6.2.1.x	6.15
	CU60160	Check control gear and shutter retaining brackets		6.2.2.x	6.16
CU60161	Repair control gear and shutter retaining brackets		6.2.2.x	6.16	
CU60162	Replace control gear and shutter retaining brackets		6.2.2.x	6.16	
CU60170	Check roof cover and guttering		6.2.3	6.17	
CU60171	Repair roof cover and guttering		6.2.3	6.17	
CU60180	Check opening roof		6.2.4.x	6.18	

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CU60181	Repair opening roof		6.2.4.x	6.18
CU60190	Check roof hatches		6.2.4.x	6.19
CU60191	Restore roof hatches to working order			6.19
CU60200	Check side door locking		6.3.1.x	6.20
CU60201	Repair side door locking		6.3.1.x	6.20
CU60210	Check end flap/board locking		6.3.1.x, 6.3.2.x	6.21
CU60211	Repair end flap/board locking		6.3.1.x, 6.3.2.x	6.21
CU60222	Replace closing end parts			6.22
CU60230	Check cantrail		6.3.3.x	6.23
CU60231	Repair cantrail		6.3.3.x	6.23
CU60240	Check drop sides		6.4.1.x	6.24
CU60241	Restore drop side to working order		6.4.1.x	6.24
CU60250	Check hinges, pins and securing devices of drop sides		6.4.2.x	
CU60251	Repair hinges, pins and securing device of drop sides		6.4.2.x	6.25
CU60260	Check stanchions		6.4.3.x	6.26, 6.46
CU60261	Restore stanchions to working order		6.4.3.x	6.26, 6.46
CU60262	Replace stanchions		6.4.3.x	6.26, 6.46
CU60270	Check folding bolsters		6.4.4.x	6.27
CU60271	Repair folding bolsters		6.4.4.x	6.27
CU60280	Check deformation on tank		6.5.1.x, 6.5.2.x	6.28
CU60285	Check tank, "starred points"		6.5.1.x, 6.5.2.x, 6.5.3.x, 6.5.5.3, 6.5.5.6, 6.5.5.7, 6.5.5.8, 6.5.5.9, 6.5.5.10	6.28-6.32, 6.34, 6.35, 6.37
CU60310	Check ladders, platforms and guard rails			6.31
CU60311	Repair ladders, platforms and guard rails			6.31
CU60320	Check tank cladding, sun-roofs and insulation		6.5.3.x	6.32
CU60321	Repair tank cladding, sun-roofs and insulation		6.5.3.x	6.32
CU60330	Check that tanks and their filling and emptying devices do not leak		6.5.5.x	6.33
CU60331	Repair any leaks from tanks and their filling and emptying devices		6.5.5.1	6.33
CU60342	Replace screw cap		6.5.5.3	6.34
CU60350	Check blind flange		6.5.5.6, 6.5.5.7, 6.5.5.8, 6.5.5.9	6.35
CU60351	Tighten blind flange		6.5.5.6, 6.5.5.7, 6.5.5.8, 6.5.5.9	6.35
CU60352	Replace blind flange		6.5.5.6, 6.5.5.7, 6.5.5.8, 6.5.5.9	6.35
CU60360	Check emergency control screw		6.5.5.12	6.36
CU60370	Check indicator on emptying valve		6.5.5.10	6.37
CU60380	Check dome hatch		6.5.6.2	6.38
CU60390	Check mechanical sheeting and locking mechanism		6.6.1	6.38
CU60391	Restore mechanical sheeting and locking mechanism to working order		6.6.1	6.39
CU60400	Check hood locking system		6.6.2.x	6.40
CU60401	Restore hood locking system to working order		6.6.2.x	6.40
CU60410	Check moving headstock		6.6.3.1, 6.6.3.2	6.41

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CU60411	Restore moving headstock to working order		6.6.3.1,6.6.3.2	6.41
CU60420	Check sealing plates, plate bolts, securing chains and chain eyes		6.6.3.3	6.42
CU60421	Restore sealing plates, plate bolts, securing chains and chain eyes to working order		6.6.3.3	6.42
CU60430	Check swivel frame (ACTS)		6.6.4.1, 6.6.4.5, 6.6.4.6	6.43
CU60431	Restore swivel frame (ACTS) to working order		6.6.4.1,6.6.4.5, 6.6.4.6	6.43
CU60440	Check snap locks (ACTS)		6.6.4.2	6.44
CU60441	Restore snap locks (ACTS) to working order		6.6.4.2	6.44
CU60450	Check central lock (ACTS)		6.6.4.4	6.45
CU60451	Restore central lock (ACTS) to working order		6.6.4.4	6.45
CU60470	Check end boards and crossing gangways		6.6.5.3	6.47
CU60471	Repair end boards and crossing gangways		6.6.5.3	6.47
CU60472	Replace end boards and crossing gangways		6.6.5.3	6.47
CU60480	Check upper loading deck and indicator device		6.6.5.4, 6.6.5.5, 6.6.5.6, 6.6.5.7	6.48
CU60500	Check valves and hatches		6.6.6.1, 6.6.6.2	6.50
CU60501	Repair valves and hatches		6.6.6.1, 6.6.6.2	6.50
CU60510	Check locking and discharging system			6.51
CU60511	Repair locking and discharging system			6.51
CU61010	Check locking of container spigots			
CU61011	Repair container spigot locking system			
CU61012	Replace container spigot locking system			
CU61020	Check dividing wall			
CU61021	Repair dividing wall			
CU61030	Check securing systems (e.g. hoops)			
CU61031	Repair securing systems (e.g. hoops)			
CU61040	Check detachable accessories		6.1.7.7,6.1.7.8	
CU61041	Replace detachable accessory with a part from company stocks		6.1.7.7,6.1.7.8	

<b>Definition of terms:</b>	
Check	Act of assessing, verifying or measuring, and of judging and defining corrective measures
Position of axle box	Position of the axle as indicated by the marking on the wagon. If there is no such marking, count from one end (choose which) of the wagon.