The text reproduced below was prepared by the expert from the International Organization of Motor Vehicle Manufacturers (OICA) in order to introduce provisions for electric heating systems. The modifications to the current text of the Regulation are marked in bold or strikethrough characters.

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*/ In accordance with the programme of work of the Inland Transport Committee for 2006-2010 (ECE/TRANS/166/Add.1, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance performance of vehicles. The present document is submitted in conformity with that mandate.

GE.09-
A. PROPOSAL

Paragraph 5.3., amend the title to read:

"5.3. Vehicle Installation Requirements for Combustion Heaters and for Electric Heaters"

Paragraph 5.3.1.1., amend to read:

"5.3.1.1. Subject to paragraph 5.3.1.2., combustion heaters shall be installed according to the requirements of paragraph 5.3."

Paragraph 5.3.2., amend to read:

"5.3.2. Positioning of combustion heater"

Paragraph 5.3.2.2., amend to read:

"5.3.2.2. The combustion heater shall not constitute a risk of fire, even in the case of overheating. This requirement shall be deemed to be met if the installation…"

Paragraph 5.3.2.4., amend to read:

"5.3.2.4. The label referred to in Annex 7, paragraph 1.4., or a duplicate, must be positioned so that it can be easily read when the combustion heater is installed in the vehicle."

Paragraph 5.3.3., amend to read:

"5.3.3. Fuel supply of Combustion Heaters"

Paragraph 5.3.4., amend to read:

"5.3.4. Exhaust system of Combustion Heaters"

Paragraph 5.3.5., amend to read:

"5.3.5. Combustion air inlet of Combustion Heaters"

Paragraph 5.3.8., amend the title to read:

"5.3.8. Automatic control of the combustion heating system"
Insert a new paragraph 6.1.5., to read:

"6.1.5. "Electric heater" means a device using an electric element to increase the temperature of the interior of the vehicle. Electrical devices which are installed in addition to the main heating system (e.g. additional Positive Temperature Coefficient (PTC)) are not considered as electric heaters according to this Regulation. Besides electric devices installed in components for the sole purpose of heating that component are not considered as electric heaters according to this Regulation."

Paragraph 6.2.1., the table, add a new line, to read:

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<table>
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<tr>
<th>Heating system</th>
<th>Vehicle category</th>
<th>Annex 4 Air quality</th>
<th>Annex 5 Temperature</th>
<th>Annex 6 Exhaust</th>
<th>Annex 8 LPG safety</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid fuel heater</td>
<td>M</td>
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<td>Yes</td>
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<td>Yes</td>
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<td></td>
<td>N</td>
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<td>Yes</td>
<td>Yes</td>
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</tr>
<tr>
<td>See Note 2</td>
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<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Electric heater</td>
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<tr>
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<td>O</td>
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</tbody>
</table>
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B. JUSTIFICATION

Certain types of vehicle, e.g. trolleybuses which do not have an internal combustion engine for their propulsion, use electrical heating devices for heating the passenger compartment. Applications for approvals pursuant to Regulation No. 122 for vehicles fitted with this type of heating system have been refused by some Approval Authorities as the Regulation does not include prescriptions for this type of heating system.

It is therefore felt necessary to introduce technical provisions for these systems into Regulation No. 122.