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Hybrid Electric Vehicles – Engineering Approval

Evaluation Program

混合动力电动汽车 定型试验规程

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Foreword

Annex A, Annex B of this Standard is normative annex.

This Standard was proposed by National Technical Committee on Road Vehicles of Standardization Administration of China.

This Standard was under the jurisdiction of N National Technical Committee on Road Vehicles of Standardization Administration of China.

Draft units of this Standard are China Automotive Technology and Research Center, Tianjin Qingyuan Electric Vehicle Co., Ltd and Technical Center of FAW Group Corporation

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Hybrid Electric Vehicles - Engineering Approval Evaluation Program

1 Scope

This standard specifies the implement conditions, test items, test methods, basis of evaluation and contents of test reports of new products design and approval evaluation test of hybrid electric vehicles.

This standard is applicable to hybrid electric vehicles.

2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

- GB/T 12538 Motor vehicles—Height of gravity center—Measuring method
- GB/T 12673 Motor vehicles—Basic dimensions—Measuring method
- GB/T 12674 Motor vehicles—Weight parameter—Measuring method
- GB/T 19751 Hybrid electric vehicles safety specification
- GB/T 19752 Hybrid electric vehicle-Power performance-Test method
- GB/T 19753 Test Methods for Energy Consumption of Light-duty Hybrid Electric Vehicles
- GB/T 19754 Test methods for energy consumption of heavy-duty hybrid electric vehicles
- GB/T 19755 Measurement methods for emissions from light-duty hybrid electric vehicles

3 Implementing Conditions

3.1 The following conditions shall be provided by fore the evaluation:

- a) Product technical conditions and specifications;
- b) Operation and maintenance instruction manual;
- c) Test reports or technical documents that can proof that the sample vehicle for evaluation conforms to the test requirements of compulsory standards already issued by the State;
- d) Test reports relevant to main vehicle assembly (battery system, electric machine and its controller system, engine, vehicle-mounted charging system and others);
- e) Other necessary materials and technical documents.

3.2 The vehicle for evaluation shall conform to requirements of the design drawing and technical documents.

3.3 Number of vehicle samples for the engineering approval evaluation: 2.

3.4 After having the above conditions, the manufacturer can apply to relevant department for the engineering approval evaluation, which shall be carried out by the engineering approval evaluation institute approved by the state. For the engineering approval evaluation, the outline shall be compiled according to this Standard. In the test process, if one of the following situations happens, the test unit shall terminate the evaluation.

- a) It needs to change greatly to conform to the requirements of compulsive standard (see Annex A) test item;

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