



Cold Weather Exposure Test Event: Car Wash

1 Introduction

Note: Nothing in this standard supercedes applicable laws and regulations.

Note: In the event of conflict between the English and domestic language, the English language shall take precedence.

1.1 Purpose. To wash the vehicle using either an automatic car wash or a power spray gun, under actual winter conditions, in a cold weather environment. This procedure is designed to be performed as part of GMW15016 Cold Weather Exposure Test, not as a stand-alone procedure.

1.2 Applicability. Refer to parent specification GMW15016.

2 References

Note: Only the latest approved standards are applicable unless otherwise specified.

2.1 External Standards/Specifications.

None

2.2 GM Standards/Specifications.

GMW15016

3 Resources

3.1 Facilities. General Motors Cold Weather Development Centers (Kapuskasing, Canada; Hei He, China; Arjeplog, Sweden).

3.1.1 Calibration. The test facilities and equipment shall be in good working order and shall have a valid calibration label.

3.1.2 Alternatives. Alternative test facilities and equipment may also be used. However, all measuring variables as specified in this standard shall be determined correctly with respect to their physical definition.

3.2 Equipment. Refer to parent specification GMW15016.

3.3 Test Vehicle/Test Piece. Refer to parent specification GMW15016.

3.4 Test Time. Not applicable.

3.5 Test Required Information. Not applicable.

3.6 Personnel/Skills. Refer to parent specification GMW15016.

4 Procedure

4.1 Preparation. Refer to parent specification GMW15016.

4.2 Conditions. This event is to be performed when the ambient temperature is -20 °C (-4 °F) or below.

4.2.1 Environmental Conditions. Not applicable.

4.2.2 Test Conditions. Deviations from the requirements of this standard shall have been agreed upon. Such requirements shall be specified on component drawings, test certificates, reports, etc.

4.3 Instructions. This event is to be executed after a Rural, Highway, City or Extended Trip event. The previous driving schedule must be completed in its entirety up to, and including, returning to the test site. The vehicle

GM Confidential

© Copyright 2014 General Motors Company All Rights Reserved

July 2014

Page 1 of 3

must have been parked at the designated location and all cycles performed prior to the vehicle departing to the car wash location.

4.3.1 Proceed to the designated automatic car wash location and wash vehicle following normal car wash instructions and methods as provided by the facility. Use underbody wash, if available.

If the vehicle is high security or camouflaged, it may be washed with a high pressure spray wand. If the test site is not equipped with an automatic car wash or an automatic car wash is unavailable, the vehicle may be washed with a high pressure spray wand.

Care should be taken that the spray nozzle is far enough away from the vehicle as to not damage any parts when directing the spray to body joints, seams, window seals, vehicle underbody, etc.

4.3.2 Return to the test site and return the vehicle to its designated parking position. **Shift to Park** on automatic transmission (**Shift to Reverse** on manual transmission). Apply parking brake regardless of transmission type. Record time and odometer on the data sheet.

Note: Data sheets are specific to the proving ground where the test is being executed and are not included in this standard.

Install provided placard on vehicle steering wheel to note for driver to cycle sunroof and sunshade during next driving cycle.

4.3.3 Turn off the ignition and remove key from the ignition. Lock all doors with power locks, if so equipped, otherwise lock using manual lock buttons. Ensure that interior and exterior lighting is off. Record all comments on data sheet.

4.3.4 Place keys and data sheets in designated locations.

END OF CYCLE

5 Data

5.1 Calculations. Not applicable.

5.2 Interpretation of Results. Not applicable.

5.3 Test Documentation. Not applicable.

6 Safety

This standard may involve hazardous materials, operations, and equipment. This standard does not propose to address all the safety problems associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

7 Notes

7.1 Glossary. Not applicable.

7.2 Acronyms, Abbreviations, and Symbols. Not applicable.

8 Coding System

This standard shall be referenced in other documents, drawings, etc., as follows:

Test to GMW15214.

GM Confidential

© Copyright 2014 General Motors Company All Rights Reserved

July 2014

Page 2 of 3

Documents
Document Sharing Hub