GM WORLDWIDE ENGINEERING STANDARDS	Test Procedure	GMW15212

Cold Weather Exposure Test Event: 36 Hour Extended Soak

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 subject a vehicle to an extended soak period experienced 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. Refer to parent specification GMW15016.

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 following completion of one of the other events used in GMW15016.

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4.3.1 Vehicle shall be parked in the specified extended cold soak parking area at the end of the previous event. No interior heaters, block heaters, battery blankets, or other supplemental heating or starting aids are to be used. These devices may be used at the request of the test coordinator but must be documented.

4.3.2 Record vehicle number, date and time, ambient temperature, odometer, time of start of soak period and test operator's name on test vehicle data sheet. Document if any ancillary heating devices are used as stated in 4.3.1.

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

4.3.3 Turn off the ignition and remove key from the ignition.

4.3.4 Install on steering wheel of vehicle "On Test – Do Not Start or Move" placard. Exit vehicle and ensure all windows are closed and that all interior and exterior lighting features are off. Lock all doors using primary power lock switch, if provided. Otherwise, use interior manual lock buttons. Return key and test data sheets to designated areas.

4.3.5 Allow vehicle to soak undisturbed for 36 h prior to the next event. The next event is required to be a Rural, Highway, City or Extended Trip event.

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 GMW15212.

9 Release and Revisions

This standard was originated in March 2006. It was first approved by the PUMA Test Advisory Group in December 2006. It was first published in December 2006.

Issue	Publication Date	Description (Organization)
1	DEC 2006	Initial publication.
2	AUG 2011	Update Template/References. (Global Proving Ground Durability Test Development Team)
3	JUL 2014	Converted document to External Restricted. Changed "module" to "event." (Global Proving Ground Durability Test Development Team)

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