**1- Package Content & Revision History**

**2018 Mazda 2.5L Skyactiv-G Engine Tier 2 Fuel**

The following is a listing of the contents of this ALPHA Map Data Package along with the suggested citation format and revision history of the material. Use of any NCAT documents listed below, included as part of the complete test data package, should reference the suggested citation provided. Note that SAE Papers included in the package should utilize the designated SAE CITATION format.

**SUGGESTED CITATION:**

*2018 Mazda 2.5L Skyactiv-G Engine Tier 2 Fuel – ALPHA Map Package*. Version 2023-08. Ann Arbor, MI: US EPA, National Vehicle and Fuel Emissions Laboratory, National Center for Advanced Technology, 2023.

**TEST PACKAGE CONTENTS:**

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| 1– Package Content & Revision History.docx | Brief overview document listing the contents, revision history & suggested citation format of the package |
| 2– Related NCAT Packages.docx | Listing of related NCAT Test Data and ALPHA Engine Map Packages |
| 3– 2018 Mazda 2.5L Skyactiv-G Engine Tier 2 Fuel – ALPHA Generation Process.html | NCAT summary report describing the process followed to generate a full engine fuel consumption map |
| 4a– 2018 Mazda 2.5L Skyactiv-G Engine Tier 2 Fuel – Deac Enabled - BSFC.pdf | Contour plot of the BSFC results of the mapping over the full operational area of the engine with cylinder deactivation enabled |
| 4b– 2018 Mazda 2.5L Skyactiv-G Engine Tier 2 Fuel – Deac Disabled - BSFC.pdf | Contour plot of the BSFC results of the mapping over the full operational area of the engine with cylinder deactivation disabled |
| 5a- 2018 Mazda 2.5L Skyactiv-G Engine Tier 2 Fuel – Deac Enabled - Efficiency.pdf | Contour plot of the Brake Thermal Efficiency results of the mapping over the full operational area of the engine with cylinder deactivation enabled |
| 5b- 2018 Mazda 2.5L Skyactiv-G Engine Tier 2 Fuel – Deac Disabled - Efficiency.pdf | Contour plot of the Brake Thermal Efficiency results of the mapping over the full operational area of the engine with cylinder deactivation disabled |
| 6- 2018 Mazda 2.5L Skyactiv-G Engine Tier 2 Fuel – Fuel Map Data.xlsx | Data derived using the generated map to confirm expected trends in the output fuel map |
| 7– engine\_2018\_Mazda\_2L5\_  SkyactivG\_Tier2.m | ALPHA output result text file |

**REVISION HISTORY:**

Version 2023-08: Initial release