**1- Package Content & Revision History**

**Generic IPM 150kW EDU**

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:**

*Generic IPM 150kW EDU – ALPHA Map Package*. Version 2023-04. 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 |
| 3a– Generic IPM 150kW EDU – ALPHA Generation Process.html | NCAT summary report describing the process followed to generate full efficiency and power loss maps |
| 3b– Generic IPM 150kW EDU – Derived Input Data File.xlsx | Input data numerically derived based on a function with coefficients identified using averaged power consumption data from several confidential source data files |
| 4a– Generic IPM 150kW EDU – Efficiency.pdf | Contour plot of the Efficiency results of the mapping over the full operational area |
| 5a– Generic IPM 150kW EDU – Power Loss.pdf | Contour plot of the Power Loss results of the mapping over the full operational area |
| 6– Generic IPM 150kW EDU – Electrical Power Consumption Data.xlsx | Electrical power consumption and efficiency data over the operating range of the emotor extracted from the NCAT generated final power loss and efficiency contour plots (Package Contents 4a and 5a) |
| 7– emachine\_generic\_IPM\_150kW\_EDU.m | ALPHA output result text file |

**REVISION HISTORY:**

Version 2023-04: Initial release