Project Title: High Efficiency Multiport Power Conversion for Aerospace Application: Integrated Converter-Generator Design

Objectives: Develop an Integrated Converter-Generator for Aerospace Application

Task No. BP5- 4.23C
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WBG Technology Impact

1. Unique WBG insertion opportunity due to the high switching frequency requirements in proposed low-inductance high-speed machines.

2. Impacts high volume, highly polluting application which uses low-efficiency diesel generators as the state-of-the-art solution.

3. Reduction in system size and weight; improvement in efficiency; lower cost through system integration and elimination of connectors and harnesses.

Accomplishments/Outcomes