State of California
AIR RESOURCES BOARD

Executive Order DG-045

Distributed Generation Certification of

FlexEnergy Energy Systems

Recuperated GT333SM Microturbine

WHEREAS, the Air Resources Board (ARB) was given the authority under California Health and Safety Code section 41514.9 to establish a statewide Distributed Generation (DG) Certification Program to certify electrical generation technologies that are exempt from the permit requirements of air pollution control or air quality management districts;

WHEREAS, this DG Certification does not constitute an air pollution permit or eliminate the responsibility of the end user to comply with all federal, state, and local laws, rules and regulations;

WHEREAS, on July 31, 2015, FlexEnergy Energy Systems applied for a DG Certification of its 330 kW, recuperated GT333SM microturbine and whose application was deemed complete on September 15, 2015;

WHEREAS, the recuperated GT333SM microturbine is manufactured and sold with integrated combined heat and power technology;

WHEREAS, title 17, California Code of Regulations (CCR), section 94203(b) allows for an energy credit at the rate of one megawatt-hour for each 3.4 million British thermal units of heat recovered to be used when calculating emission rates;

WHEREAS, FlexEnergy Energy Systems has demonstrated that the recuperated GT333SM microturbine complies with the minimum efficiency requirement in title 17, CCR, section 94203(b);

WHEREAS, FlexEnergy Energy Systems has demonstrated, according to test methods specified in title 17, CCR, section 94207, that its natural gas fueled recuperated GT333SM microturbine has complied with the following emission standards:

1. Emissions of oxides of nitrogen no greater than 0.07 pounds per megawatt-hour;

2. Emissions of carbon monoxide no greater than 0.10 pounds per megawatt-hour; and

3. Emissions of volatile organic compounds no greater than 0.02 pounds per megawatt-hour.

WHEREAS, FlexEnergy Energy Systems has demonstrated that its recuperated GT333SM microturbine complies with the emission durability requirements in title 17, CCR, section 94203(d);

WHEREAS, I find that the Applicant, FlexEnergy Energy Systems, has met the requirements specified in article 3, title 17, CCR, and has satisfactorily demonstrated that the recuperated GT333SM microturbine meets the DG Certification Regulation 2007 Fossil Fuel Emission Standards;

NOW THEREFORE, IT IS HEREBY ORDERED, that a DG Certification, Executive Order DG-045 is granted.

This DG Certification:

1) Is subject to all conditions and requirements of the ARB's DG Certification Program, article 3, title 17, CCR, including the provisions relating to inspection, denial, suspension, and revocation;

2) Shall be void if any manufacturer's modification results in an increase in emissions or changes the efficiency or operating conditions of a model, such that the model no longer meets the DG Certification Regulation 2007 Fossil Fuel Emission Standards; and

3) Shall expire on the 2 day of February 2021.

Executed at Sacramento, California, this 2 day of February 2016.

Floyd V. Vergara, Esq., P.E.
Chief, Industrial Strategies Division