

State of California  
AIR RESOURCES BOARD  
Executive Order DG-005  
Distributed Generation Certification of  
Ingersoll-Rand Energy Systems  
70LM Microturbine, version WD

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 April 14, 2004, Ingersoll-Rand Energy Systems applied for a DG Certification of its 70KW, 70LM Microturbine, version WD, which application was deemed complete on May 28, 2004;

WHEREAS, the 70LM Microturbine, version WD, is manufactured and sold integrated with combined heat and power technology;

WHEREAS, Ingersoll-Rand Energy Systems has demonstrated that its 70LM Microturbine, version WD, complies with the minimum efficiency requirement in section 94203 (a);

WHEREAS, Ingersoll-Rand Energy Systems has demonstrated, according to test methods specified in Title 17, California Code of Regulations (CCR), section 94207, that its natural gas-fueled 70LM Microturbine, version WD, has complied with the following emission standards:

1. Emissions of oxides of nitrogen no greater than 0.7 pound per megawatt hour;
2. Emissions of carbon monoxide no greater than 6.0 pound per megawatt hour;
3. Emissions of volatile organic compounds no greater than 1.0 pound per megawatt hour; and
4. Emissions of particulate matter no greater than an emission limit corresponding to natural gas with a fuel sulfur content of no more than 1 grain per 100 standard cubic feet;

WHEREAS, Ingersoll-Rand Energy Systems has demonstrated that its 70LM Microturbine, version WD, complies with the emissions durability requirements in Title 17, CCR, sections 94203 (c);

WHEREAS, I find that the Applicant, Ingersoll-Rand Energy Systems, has met the requirements specified in article 3, Title 17, CCR, and has satisfactorily demonstrated that the 70LM Microturbine, version WD, meets the 2003 DG Certification emission standards for technologies integrated with combined heat and power technology;

NOW THEREFORE, IT IS HEREBY ORDERED, that a DG Certification, Executive Order DG-005, executed at Sacramento, California on July 15, 2004 is hereby 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 the model is not manufactured and sold integrated with combined heat and power technology;
- 3) shall be void if any manufacturer's modification results in the model no longer meeting the minimum efficiency requirements in section 94203 (a);
- 4) 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 2003 DG Certification emission standards for technologies integrated with combined heat and power technology; and
- 5) shall expire on December 31, 2006.

Catherine Witherspoon  
Executive Officer  
by

/S/

Peter D. Venturini, Chief  
Stationary Source Division