STATEMENT OF CONSIDERATIONS

REQUEST BY CREE, INC. (CREE) FOR AN ADVANCE WAIVER OF DOMESTIC AND FOREIGN PATENT RIGHTS UNDER NREL SUBCONTRACT NFT-2-22426-01; W(A)-2012-00:

The Petitioner, Cree, has requested a waiver of d imestic and foreign patent rights for all subject inventions arising from its participation under the above referenced subcontract entitled "Gearbox Design for U.S.-Sourced, Next Generation Dr vetrain for Land-Based and Offshore Wind Turbines," Cree is a subcontractor to the National Renewable Energy Laboratory (NREL). Under its subcontract with NREL, Cree is performing work funded under DE-FOA-0000439, U.S. Wind Power: Next Generation Drivetrain Development. Under this award, NREL is leading the NREL Drivetrain Partnership.

The objective of the subcontract is for Cree to assist NREL and NREL Drivetrain Partners in the development of the topology for a power electronic system based on SiC power technology. Cree will provide information regarding SiC power devices needed to inform a mass, cost, and performance assessment. The NREL Drivetrain Partners lip's objective is to leverage nationally-recognized laboratory, university, and industry partners to develop and commercialize an innovative, U.S.-sourced, scalable, next generation drivetrain technology for land-based and offshore wind turbines and for the retrofit of existing turbines. The expected outcome of the project is the design, construction, and testing of a 1.5 MW sub-scale prototype of a next generation drivetrain that exceeds DOE's goals for innovition, cost of energy, torque density, and reliability.

The total project cost of the subcontract with NRE L is \$62,500, with Cree providing a total cost share of \$12,500, or 20%. This waiver is contingent upon the Petitioner maintaining the above cost sharing percentage over the course of the agreement.

The technology developed under this subcontract is directly aligned with Cree's core business. Cree must own enabling intellectual property hat may be developed under this subcontract to maintain its competitive advantage and to ustify the investment required for commercialization of the subject inventions. Cree is a leading producer of SiC-based diodes and transistors. Cree is the owner of or exclusive licensee of over 800 domestic patents, and over 1300 related foreign patents concerning semiconductor technology, and invests substantial portions of its annual revenue in research and development activities. Cree is a leader in implementing wide bandgap semiconductor devices such as SiC and GaN. Cree's annual revenues for Fiscal Year 2011 were over \$987 million. Power ele tronics represented 10% of Cree's revenues for Fiscal Year 2011. Cree's Research Triangle Park facility alone has a staff of more than 100 full-time employees dedicated to power research, development, and manufacturing. Cree has previously executed a number of government research contracts that led, with additional support from internal R&D funding, to new product releases.

Cree has committed to technology leadership by investing over \$71 million of internal R&D funds in Fiscal Year 2009 alone in research and development related to semiconductor devices. In addition to its cost share commitment for this subcontract, Cree will continue to

dedicate through R&D investments funded by Cree or otler non-governmental sources a substantial effort towards the commercialization of the technology developed under this subcontract.

Petitioner has agreed that this waiver shall be subject to the march-in and preference for U.S. industry provisions, as well as the U.S. Government license, comparable to those set out in 35 U.S.C. 202-204. Further, Petitioner has agreed to the U.S. competitiveness provisions as attached to this Statement. In brief, Petitioner has agreed that products embodying intellectual property developed under this agreement shall be substantially manufactured in the United States, and that Petitioner will not license, assign, or otherwise transfer any waived invention to any entity unless that entity agrees to these same requirements.

Referring to item 10 of the waiver petition, granting this waiver is not anticipated to have any adverse impact on competition because Cree's owner thip of any patent rights that arise from its performance under the subcontract will not result in Chee obtaining a sole dominant position in the industry, nor allow Cree to prevent competitors from commercializing other inventions that have a similar commercial effect. Rather, the ownership of these patent rights will allow Cree to continue to compete in this space.

Considering the foregoing, it is believed that gran ing this waiver will provide Petitioner with the necessary incentive to invest its resources in commercializing the results of the agreement in a manner that will make the above technology available to the public in the shortest time. Therefore, upon evaluation of the waiver petition and in view of the objectives and considerations set forth in 10 CFR 784, all of which have been considered, it is recommended that the requested waiver be granted.

Juffa Cook 1 Toody

Deputy Chief Counsel for Intellectual Property Golden Fiel I Office

Date: 4/12

Based upon the foregoing Statement of Considerations and representations in the attached waiver petition, it is determined that the interests of the U nited States and the general public will best be served by a waiver of patent rights of the scope det rmined above, and therefore the waiver is granted. This waiver shall not apply to any modification or extension of the agreement, where through such modification or extension, the purpose, scor e, or cost of the agreement has been substantially altered.

CONCURRENCE:

APPRC VAL:

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Technologies

John Lucas

Assistant General Counsel for Technology Transfer and Intellectual Property

EE-2B

Date: 3/2/2013

Date: 4/3/2003

U.S. COMPETITIVENESS

The Contractor agrees that any products embodying any waived invention or produced through the use of any waived invention will be manufactured substantially in the United States, unless the Contractor can show to the satisfaction of DOE that it is not commercially feasible to do so. In the event DOE agrees to foreign manufacture, there will be a requirement that the Government's support of the technology be recognized in some appropriate manner, e.g., recoupment of the Government's investment, etc. The Contractor further agrees to make the above condition binding on any assignee or licensee or any entity otherwise acquiring rights to any waived invention, including subsequent assignees or licensees. Should the Contractor or other such entity receiving rights in any waived invention undergo a change in ownership amounting to a controlling interest, then the waiver, assignment, license, or other transfer of rights in any waived invention is suspended until approved in writing by LIOE.