

TOSHIBA

PROPRIETARY

Toshiba Energy Systems & Solutions Corporation

72-34 Horikawa-cho, Saiwai-ku Kawasaki-shi, Kanagawa, 212-8585, Japan

No. TOS-CR-FPG-2019-0003

October 18, 2019

NRC Project Number: PROJ0729

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Document Control Desk
U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, MD 20852-2738

Subject: **Submission of propriety version of FPG-DRT-C51-0006, "Actel's CDR Report," Rev.0**

The purpose of this letter is to submit the proprietary version of FPG-DRT-C51-0006, "Actel's CDR Report," Rev.0.

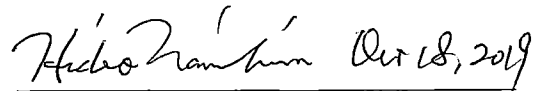
The NRC requested Toshiba to provide the proprietary version of the document mentioned above because the NRC does not have the document in archive.

Toshiba found the propriety version of the document was sent with the Letter TOS-TR-GNL-2007-0004 dated November 3, 2007. However, the propriety version of the document sent by that letter had no proprietary information marking using double brackets ([[and]]) and red-brick font (color) which were used in the non-proprietary version of FPG-DRT-C51-0006, "Actel's CDR Report," Rev.0 that is available to public in ADAMS as [ML080510448]. Toshiba believes that this may be why the NRC does not have the proprietary version of the document in archive.

Based on the findings above, this letter submits the proprietary version of FPG-DRT-C51-0006, "Actel's CDR Report," Rev.0 in Enclosure 2. It has the proprietary information markings using double brackets ([[and]]) and red-brick font which were used in the non-proprietary version of the document. Such proprietary information markings in the proprietary version of the document are provided to show the masked texts and figures in the non-proprietary version of the document. Note that the basis for claiming proprietary information listed in the enclosed affidavit as Enclosure 1 are not annotated with each double bracket proprietary information marking, in the same manner as the non-proprietary version of document. However, the items (a) and (c) are the basis for claiming the designated information as proprietary.

If the NRC has any requests and/or questions, please contact with Jim Powers at 704-548-7910 or by electronic mail at Jim.Powers@toshiba.com.

Sincerely,



Hideo Namihira

Senior Manager

Electrical System Design & Engineering Dept.

Power Systems Division

Toshiba Energy Systems & Solutions Corporation

*Proprietary-Withhold from public disclosure pursuant to 10 CFR 2.390.
Upon removing Enclosure 2, this document can be made public.*

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Enclosures: (1) 10 C.F.R. § 2.390 Supporting Affidavit
(2) FPG-DRT-C51-0006, "Actel's CDR Report," Rev.0 (Proprietary)

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Enclosure 1

Letter No. TOS-CR-FPG-2019-0003
Affidavit for Withholding Confidential and Proprietary Information from Public Disclosure
under 10 CFR § 2.390

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

AFFIDAVIT

I, Hideo Namihira, hereby affirm and state that I am the Senior Manager, Electrical System Design & Engineering Department, Power Systems Division, Toshiba Energy Systems & Solutions Corporation (Toshiba ESS Corporation), and I have been authorized to execute this affidavit on behalf of Toshiba ESS Corporation to file with the Nuclear Regulatory Commission the following application for withholding Toshiba ESS Corporation's confidential and proprietary information from public disclosure; that I am familiar with the content thereof; and that the matters set forth therein are true and correct to the best of my knowledge and belief.

In accordance with 10 CFR § 2.390(b)(ii), I hereby state, depose, and apply as follows on behalf of Toshiba ESS Corporation:

- (A) Toshiba ESS Corporation seeks to withhold from public disclosure the document entitled and identified as "Proprietary" therein:
 - FPG-DRT-C51-0006, "Actel's CDR Report," Rev.0. (Proprietary).
- (B) The Confidential Information is owned by Toshiba ESS Corporation. In my position as the Senior Manager, Electrical System Design & Engineering Department, Power Systems Division, Toshiba ESS Corporation, I have been specifically delegated the function of reviewing the Confidential Information and have been authorized to apply for its withholding on behalf of Toshiba ESS Corporation.
- (C) This document provides Toshiba's lifecycle process and qualification activities for developing and qualifying Non-Rewritable (NRW) Field Programmable Gate Array (FPGA) Based Safety I&C systems to the Nuclear Regulatory Commission. The Confidential Information which is entirely confidential and proprietary to Toshiba ESS Corporation is identified as "Proprietary" in the document.
- (D) Consistent with the provisions of 10 CFR § 2.390(a)(4), the basis for proposing that the Confidential Information be withheld is that it constitutes Toshiba ESS Corporation's trade secrets and confidential and proprietary commercial information.

- (E) Public disclosure of the Confidential Information is likely to cause substantial harm to Toshiba ESS Corporation's competitive position by (1) disclosing confidential and proprietary commercial information about the design, manufacture and operation of the FPGA based I&C platform for nuclear power reactors to other parties whose commercial interests may be adverse to those of Toshiba ESS Corporation, and (2) giving such parties access to and use of such information at little or no cost, in contrast to the significant costs incurred by Toshiba ESS Corporation to develop such information.

Toshiba ESS Corporation has a rational basis for determining the types of information customarily held in confidence by it, and utilizes a system to determine when and whether to hold certain types of information in confidence.

The basis for claiming the information so designated as proprietary is as follows:

- (a) The information reveals the distinguishing aspects of a process (or component, structure, tool, method, etc.) where prevention of its use by any of Toshiba ESS Corporation's competitors without license from Toshiba ESS Corporation constitutes a competitive economic advantage over other companies.
- (b) It consists of supporting data, including test data, relative to a process (or component, structure, tool, method, etc.), the application of which data secures a competitive economic advantage, e.g., by optimization or improved marketability.
- (c) Its use by a competitor would reduce his expenditure of resources or improve his competitive position in the design, manufacture, shipment, installation, assurance of quality, or licensing a similar product.
- (d) It reveals cost or price information, production capacities, budget levels, or commercial strategies of Toshiba ESS Corporation, its customers or suppliers.
- (e) It reveals aspects of past, present, or future Toshiba ESS Corporation or customer funded development plans and programs of potential commercial value to Toshiba ESS Corporation.
- (f) It contains patentable ideas, for which patent protection may be desirable.
- (g) It contains security information that could reasonably be expected to be useful to a potential adversary.
- (h) It contains privacy act and personally identifiable information.

There are sound policy reasons behind the Toshiba ESS Corporation system which include the following:

- (a) The use of such information by Toshiba ESS Corporation gives Toshiba ESS Corporation a competitive advantage over its competitors. It is, therefore, withheld from disclosure to protect the Toshiba ESS Corporation competitive position.
- (b) It is information that is marketable in many ways. The extent to which such information is available to competitors diminishes the Toshiba ESS Corporation ability to sell products and services involving the use of the information.
- (c) Use by our competitor would put Toshiba ESS Corporation at a competitive disadvantage by reducing his expenditure of resources at our expense.
- (d) Each component of proprietary information pertinent to a particular competitive advantage is potentially as valuable as the total competitive advantage. If competitors acquire components of proprietary information, any one component may be the key to the entire puzzle, thereby depriving Toshiba ESS Corporation of a competitive advantage.
- (e) Unrestricted disclosure would jeopardize the position of prominence of Toshiba ESS Corporation in the world market, and thereby give a market advantage to the competition of those countries.
- (f) The Toshiba ESS Corporation capacity to invest corporate assets in research and development depends upon the success in obtaining and maintaining a competitive advantage.
- (g) SECY-04-0191 states that security information should be withheld from public disclosure.
- (h) Personally identifiable information is required to be protected from public disclosure by 10 CFR § 2.390.

Further, on behalf of Toshiba ESS Corporation, I affirm that:

- (i) The Confidential Information is confidential and proprietary information of Toshiba ESS Corporation.

- (ii) The Confidential Information is information of a type customarily held in confidence by Toshiba ESS Corporation, and there is a rational basis for doing so given the sensitive and valuable nature of the Confidential Information as discussed above in paragraphs (D) and (E).
- (iii) The Confidential Information is being transmitted to the NRC in confidence.
- (iv) The Confidential Information is not available in public sources.
- (v) Public disclosure of the Confidential Document is likely to cause substantial harm to the competitive position of Toshiba ESS Corporation, taking into account the value of the Confidential Information to Toshiba ESS Corporation, the amount of money and effort expended by Toshiba ESS Corporation in developing the Confidential Information, and the ease or difficulty with which the Confidential Information could be properly acquired or duplicated by others.

Hideo Namihira

Hideo Namihira
Senior Manager
Electrical System Design & Engineering Dept.
Power Systems Division
Toshiba Energy Systems & Solutions Corporation

Oct 18, 2019

Date