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August 31st, 2012

United States Nuclear Regulatory Commission
11555 Rockville Pike,
Rockville, Maryland 20852

Attention: Document Control Desk

Subject: Amendment for Fast Performance Controller Platform of HFC-6000 Safety Evaluation Report (TAC No. MD8462)

Reference: HFC-6000 Safety Control System

Ladies and Gentlemen:

The Topical Report of Doosan HF Controls (HFC) HFC-6000 Safety System, ML080780170, was reviewed by Nuclear Regulatory Commission (NRC). In April 2011, NRC issued a Safety Evaluation (SE) of the system, ML110831014, approving the system to be used in safety-related applications in US nuclear power plants in accordance with the SE guidance. A set of HFC-6000 standard safety equipment is listed in the SE. There are open items related in HFC equipment qualification tests listed in the SE. HFC had followed up the open item issues and resolved them with supporting documents submitted to NRC in June 2011, ML111990323.

In September, 2011, HFC submitted an amendment request to the approved SE to include a set of enhanced equipment for the HFC-6000 platform (ML11297A039 to 042). The set of enhanced equipment was later put into Korean Nuclear Power Plants with an augmented HFC controller platform for supporting their nuclear safety applications. For purpose of this letter is to request another amendment to the SE for including an augmented Fast Performance Controller (FPC) to be included in the SE. This HFC-FPC08, has been put into operation in 20 Korean nuclear power plant units. Enclosed with this letter are supporting documents for this Fast Performance Controller (FPC) platform. Two versions of the documents: proprietary and non-proprietary are submitted. HFC is requesting the Commission to withhold the information in the proprietary version. The non-proprietary version of the documents is made available for the public. The justification for the withholding is described in the document, "Justification for Proprietary Information Affidavit" in accordance with 10 CFR 2.390. In addition, the marking of the proprietary information and the non-proprietary information within the documents is listed in the document, "Proprietary Information Notice". The following table lists the documents in this submittal for the amendment process.

T007
NRR

Document Num.	Description	Rev.
RR901-003-01	Amendment for HFC-6000 Fast Performance Controller Platform	B
RR901-003-02	HFC-6000 Fast Performance Controller Performance Envelope	B
RR901-003-03	FMEA for the HFC-6000 Fast Performance Controller Platform	B
RR901-003-04	Reliability and Availability Analysis Report for the HFC-6000 Fast Performance Controller Platform	B
RR901-003-05	EPRI TR 107330 RTM HFC-6000 Fast Performance Controller	A
RR901-003-06	Radiation Exposure Evaluation of HFC-6000 Fast Performance Controller Platform	A
DS901-000-81	HFC-FPC08 Hardware Design Specification	A
DS901-000-85	HFC-FPC08 ICL Master FPGA Design Specification	C
DS901-000-91	HFC-ILR06R Hardware Design Specification	B
DS901-001-14	HFC-ILR06T Hardware Design Specification	A
DS901-001-17	FPC08 Controller Software Design Specification	D
DS901-001-20	HFC-HSIM Design Specification	B
DS901-001-25	HFC-HSIM FPGA Design Specification	A
DS903-000-51	AFS-CSM-01 Design Specification	C
DS903-000-55	AFS-CSM01 FPGA Design Specification	B
TP901-301-02	ERD1192 Integration Test Plan	B
TP901-301-04	ERD1192 TSAP Validation Test Procedure FPC08	B
TP901-301-06	ERD1192 Operability Test Remote 3 FPC08	B
TP901-301-08	ERD1192 Prudency Test Remote 3 FPC08	A

Your Truly,

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Enclosures:
1- The hard copies of documents in two versions:
   Proprietary and Non-Proprietary
2- Justification for Proprietary Information Affidavit
3- Proprietary Information Notice
4- A CD of the submitted documents in PDF format for references.

CC: Jonathan Rowley, NRC
U.S. Nuclear Regulatory Commission
Office of Nuclear Reactor Regulation
Division of Policy and Rulemaking, Special Projects Branch
MS: O-12D1