

September 16, 2008

Mr. Allen Hsu
HF Controls Corporation
1624 West Crosby Road
Suite 124
Carrollton, TX 75006

SUBJECT: ACCEPTANCE FOR REVIEW OF HF CONTROLS CORPORATION'S
TOPICAL REPORT, PP901-000-01, REVISION C, "HFC-6000 SAFETY
SYSTEM" (TAC MD8462)

Dear Mr. Hsu:

By letter dated March 5, 2008 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML080780169), HF Controls Corporation (HFC) submitted for U.S. Nuclear Regulatory Commission (NRC) staff review Topical Report (TR), PP901-000-01, Revision C, "HFC-6000 Safety System Topical Report." This submittal included documentation submitted previously by letter dated November 15, 2007 (ADAMS Accession No. ML073390048). The NRC staff has performed an acceptance review of the HFC-6000 Safety System Topical Report. We have found that HFC has provided sufficient information to accept this TR and initiate the review. However, additional information is needed to complete the comprehensive review of the TR. As discussed in the meeting held on August 18, 2008, our acceptance of this TR is conditional upon the receipt of the following additional information (that was used to develop the HFC-6000 platform) by September 30, 2008:

1. Commercial grade dedication documentation for the pre-developed software:
 - a. Software qualification report [VV0410] describing the "records of the original design and QA process" (ref. TR, p. 10-3) or documenting the "re-engineering process" (ref. TR, p.10-6) that was employed by HFC.
 - b. Software requirements specification [700901-09].
 - c. Software design description [ADS0401, 700907-01, 700907-02].
 - d. Software verification and validation (V&V) plan [WI-ENG-022].
 - e. Software configuration management plan [WI-ENG-003].
 - f. V&V reports for the HFC-6000 software.
 - g. Summary of the HFC-6000 code inspection reports.
 - h. Summary of the critical characteristics identified through technical evaluation as part of the commercial grade dedication of the HFC-6000 PDS and the verification methods used to confirm acceptability.
 - i. Summary of the original software quality assurance process and practices in place at the time the PDS used by the HFC-6000 was developed.

2. Supporting documentation for the communication protocols (i.e., C-Link, ICL, and UCP) described in the TR:
 - a. Design specification documents for software/logic/communication components
 - DS001-000-02
 - DS001-000-03
 - DS001-000-06
 - DS001-000-08
 - DS002-000-01
 - DS002-000-02
 - DS002-000-03
 - b. Software users' guide [UG004-000-04].
3. A summary description of how cyber security is addressed for the HFC-6000 Engineering Workstation to ensure that viruses, Trojan horses, worms, etc., are not contained in the HFC-6000 platform, and cannot propagate into the HFC-6000 application code during field modifications.
4. A statement to the effect that HFC is not seeking approval of the application software development process or associated plans.
5. Sufficient documentation to demonstrate that HFC is an Appendix B approved supplier (e.g., the 2007 Korea Hydro and Nuclear Power Company audit report).
6. Identification of the specific document references (e.g., document numbers) that correspond to the unnumbered reports cited in the TR. These documents are given below with the corresponding TR page number for the citation.

HFC-6000 Qualification Test Plans and Procedures (pp. 9-7, 8, 15, 26, 28, 29)

HFC-6000 Qualification Test Report(s) (p. 9-2)

HFC-6000 Quality Assurance Program (pp. 8-25, 26, 28, 29, 31, 10-21)

HFC-6000 Quality Process Procedures (p. 8-25)

HFC-6000 Software Configuration Management Plan (pp. 8-13, 16, 26, 10-26)

HFC-6000 Software Design Description (p. 8-26)

HFC-6000 Software Life Cycle Plan (p. 8-18)

HFC-6000 Software Requirements Specification (p. 8-17)

HFC-6000 Software Test Methods and Procedures (p. 10-27)

HFC-6000 Software Test Plan (p. 8-16)

HFC-6000 Software Verification and Validation Plan (p. 8-16)

HFC-6000 TR-107330 Compliance Matrix (pp. 8-20, 29, 30)

HFC-6000 TSAP Requirements Specification (p. 9-2)

Master Configuration List (MCL) (p. 9-2)

7. Supplemental information (e.g., annotated document map) identifying any of the submitted or requested documents that are either obsolete or superseded.

Based on the findings of the acceptance review, the discussions with you in our meeting on August 18, 2008, and your agreement to provide the documents and supplemental information identified above by September 30, 2008, the NRC staff should have sufficient information to complete its review of the Topical Report PP901-000-01, Revision C, "HFC-6000 Safety System Topical Report." The NRC staff expects to issue its request for additional information by June 30, 2009, and issue its draft safety evaluation by December 4, 2009, and estimates that the review will require approximately 1600 staff hours including project management time. The review schedule milestones and estimated review costs were discussed and agreed upon in a telephone conference between Jerry Mauck and the NRC staff on September 3, 2008.

Section 170.21 of Title 10 of the *Code of Federal Regulations* requires that TRs are subject to fees based on the full cost of the review. You did not request a fee waiver; therefore, NRC staff hours will be billed accordingly.

If you have questions regarding this matter, please contact Eric E. Bowman at (301) 415-2963.

Sincerely,

/RA/

Stacey L. Rosenberg, Chief
Special Projects Branch
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

Project No. 731

HFC-6000 TSAP Requirements Specification (p. 9-2)

Master Configuration List (MCL) (p. 9-2)

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