GEHitachiUELAPEm Resource

From: Ridge, Christianne
Sent: Friday, August 07, 2009 12:37 PM
To: 'Avci, Halil I.'
Cc: 'Fischer, Karl W.'
Subject: GLE: License Acceptance
Attachments: Safety Review Acceptance ML09196056114.pdf

Attached.

Hearing Identifier: GEHitachiUE_LicenseApplication_Public
Email Number: 198

Mail Envelope Properties (499C2FC6BB962446994CA8682D8ADF33188DAC3A5C)

Subject: GLE: License Acceptance
Sent Date: 8/7/2009 12:37:11 PM
Received Date: 8/7/2009 12:37:00 PM
From: Ridge, Christianne

Created By: Christianne.Ridge@nrc.gov

Recipients:
"'Fischer, Karl W.'" <kfischer@anl.gov>
Tracking Status: None
"'Avci, Halil I.'" <avci@anl.gov>
Tracking Status: None

Post Office: HQCLSTR02.nrc.gov

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MESSAGE	11	8/7/2009 12:37:00 PM
Safety Review Acceptance ML09196056114.pdf	89210	

Options
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Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

August 6, 2009

Mr. Albert E. Kennedy, Licensing Manager
GE-Hitachi Global Laser Enrichment
P.O. Box 780
3901 Castle Hayne Road
Wilmington, NC 28402

SUBJECT: ACCEPTANCE OF GENERAL ELECTRIC-HITACHI GLOBAL LASER ENRICHMENT APPLICATION FOR A LASER-BASED URANIUM ENRICHMENT FACILITY

Dear Mr. Kennedy:

We have received your application, dated June 26, 2009, for a construction and operating license for a laser-based uranium enrichment facility proposed to be constructed in Wilmington, North Carolina.

We have completed our acceptance review of your submittal and have determined that the application is acceptable for formal review. Please note that the complete review of the application may identify issues that require additional information. Based on our preliminary review and projection of current review schedules, we anticipate completing our review and issuance of a Safety Evaluation Report by the end of December 2010. This date could change depending on the findings of our technical review, urgent assignments, or other factors. We will promptly communicate any significant changes to this schedule.

Although our acceptance review determined that the application was acceptable for detailed review, several reviewers identified areas in the application, including the Integrated Safety Analysis Summary, where additional information is needed (see enclosure) in order to complete our review. We request that you address these areas and provide a revised application within the next 30 days. If this information is not provided within this timeframe, it could affect the timeliness of our review.

Please be advised that this application will be subject to a mandatory hearing. A notice of opportunity to request a hearing and/or an order addressing hearing requests will follow at a later date.

A copy of your submittal has been forwarded to our License Fee and Accounts Receivable Branch, Office of the Chief Financial Officer, who will contact you separately for billing, as the review of your application is subject to full cost fee recovery.

If you have any questions concerning this letter, please contact me at 301-492-3121, or via e-mail to Timothy.Johnson@nrc.gov.

In accordance with Title 10 of the Code of Federal Regulations 2.390 of the U.S. Nuclear Regulatory Commission's (NRC's) "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publically Available Records component of the NRC's Agency-wide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Web Site at http://www.nrc.gov/reading-rm/adams.html.

Sincerely,

/RA/

Timothy C. Johnson, Senior Project Manager
Uranium Enrichment Branch
Fuel Facility Licensing Directorate
Division of Fuel Cycle Safety
and Safeguards
Office of Nuclear Material Safety
and Safeguards

Docket No.: 70-7016

cc: William Szymanski/DOE
Patricia Campbell/GEH
Robert Brown/GEH
Tammy Orr/GEH
Mike Giles/CFC
Tom Clements/FOTE
Doug Springer/CFRW
Stephen Rynas/NCDENR
Jennifer Braswell/New Hanover County
Christopher O'Keefe/New Hanover County
Bruce Shell/New Hanover County
Marty Lawing/Brunswick County
George Brown/Pender County
Bill Saffo/Wilmington
Malissa Talbert/Wilmington
Wanda Lagoe/NCOSH
Cameron Weaver/NCDENR
Jennifer Frye/USACE
Kimberly Garvey/USACE
David Weaver/New Hanover County

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Sincerely,

/RA/

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BJones/OGC	MTschiltz/NMSS	GEH website-NO	

ML091960561

OFFICE	**UEB**	**UEB**	**OGC**	**OGC**	**UEB**	**FFLD**
NAME	TCJohnson	THrisopoulos	CSafford	TStokes	BSmith	MTschiltz
DATE	08/3/09	08/3/09	08/5/09	08/5/09	08/6/09	08/6/09

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ADDITIONAL INFORMATION NEEDS

1. In Section 3.3 of the application, “Structural Design Criteria,” General Electric-Hitachi Global Laser Enrichment (GEH) indicated that it was in the process of performing the Initial Site Geophysical/Geotechnical Investigation to access the soil condition in order to make an engineering analysis to determine the structural in-ground support system necessary to support the estimated heavy loading. Provide the results of the Site Geophysical/Geotechnical Investigation and final foundation.

2. Provide the validation report for the computer codes used for criticality safety.

3. In the Integrated Safety Analysis (ISA) Summary, human factors is listed as a type of management measure applied to items relied on for safety (IROFS). In addition, it states that procedures will be verified and validated prior to initial use to ensure that no technical errors or human factor issues were inadvertently introduced during the procedure development or review process. Provide a description of the guidance documents that will be utilized for performing these reviews (e.g., NUREG-0700 and 0711) and any human factors methods that will be used to implement the guidance in the design of the facility.

4. Provide more detailed information for the ISA Summary that demonstrates compliance with the criticality accident alarm system (CAAS) requirements of 10 CFR 70.24 and 10 CFR 70.65(b)(4). Specifically,

    a. Describe the method for evaluating an acceptable response of at least two detectors to a nuclear criticality at any location where special nuclear material (SNM) may be handled, used, or stored.

    b. Provide a diagram of locations of all detectors relative to the potential locations of SNM.

    c. Provide information supporting determination of the gamma and neutron emission characteristics of the minimum credible accident of concern capable of producing the effects specified in Title 10 of the *Code of Federal Regulations* (10 CFR) 70.24.

    d. Provide information showing the response characteristics of the detectors to neutron and gamma doses and rates characteristic of credible accidents.

5. Provide information that describes the assumptions and conditions under which the electrical power supply and distribution system for the proposed facility is relied on to accomplish the performance objectives for the facility. Provide information that describes how management measures for the electrical systems and components identified in the ISA Summary will ensure that they will be designed, implemented, and maintained to ensure they are available and reliable when needed. Describe management measures that ensure that these power supply systems will designed, implemented, and maintained to ensure they are available and reliable when needed.

6. Provide information that describes the assumptions and conditions under which proposed instrumentation and controls used as IROFS are relied upon to support compliance with the performance requirements for the facility. Include in the ISA Summary information describing the function and operation of instrumentation and control systems and components that are relied on to accomplish safety actions. It is insufficient to describe IROFS by simply listing a parameter that will be monitored by instruments and controls.

7. Provide information that describes how a safety action associated with the event sequence that is prevented or mitigated by the identified parameter will be developed from a logic decision/action performed by the instrumentation and control devices associated with that monitored parameter, in sufficient detail to understand its functions in relation to the performance objectives, including the management measures that ensure that these devices used as IROFS will be designed, implemented, and maintained to ensure they are available and reliable when needed. Describe provisions for adequate testing, inspection, and maintenance of instrumentation and control devices.

8. Revise the Standard Practice Procedures Plan for the Protection of Classified Matter (SPPP) to be a self-contained document. The submitted document contains cross references to information in other documents, which is inconsistent with the SPPP standard format guide. For example, cross references are made to the Physical Security Plan and Transportation Security Plan. The applicable information should be provided in the SPPP so that it contains all the information needed to demonstrate compliance with 10 CFR Part 95.