

GEHitachiUELAPEm Resource

From: Ridge, Christianne
Sent: Tuesday, February 17, 2009 12:47 PM
To: Johnson, Timothy
Cc: Smith, Brian; Kock, Andrea
Subject: RE: Draft GE Meeting Summary
Attachments: gemtgsun2-6-09_ACR_markup.doc

[Attached.](#) Thanks for the opportunity to comment.

From: Timothy Johnson
Sent: Thursday, February 12, 2009 4:19 PM
To: Wilkins Smith; Kenneth Kline; Andrea Kock; Christianne Ridge; Merritt Baker
Cc: Brian Smith
Subject: Draft GE Meeting Summary

Attached is a draft meeting summary for the Feb. 6 meeting with GE. Please review and comment by 2-17.
Thanks.

Hearing Identifier: GEHitachiUE_LicenseApplication_Public
Email Number: 2

Mail Envelope Properties (499C2FC6BB962446994CA8682D8ADF3316CBCF3DDB)

Subject: RE: Draft GE Meeting Summary
Sent Date: 2/17/2009 12:46:38 PM
Received Date: 2/17/2009 12:46:40 PM
From: Ridge, Christianne

Created By: Christianne.Ridge@nrc.gov

Recipients:

"Smith, Brian" <Brian.Smith@nrc.gov>
Tracking Status: None
"Kock, Andrea" <Andrea.Kock@nrc.gov>
Tracking Status: None
"Johnson, Timothy" <Timothy.Johnson@nrc.gov>
Tracking Status: None

Post Office: HQCLSTR02.nrc.gov

Files	Size	Date & Time
MESSAGE	379	2/17/2009 12:46:40 PM
gemtgsum2-6-09_ACR_markup.doc		90106

Options

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

MEMORANDUM TO: Michael Tschiltz, Deputy Director
Fuel Facility Licensing Directorate
Division of Fuel Cycle Safety
and Safeguards
Office of Nuclear Material Safety
and Safeguards

THRU: Brian W. Smith, Chief
Uranium Enrichment Branch
Division of Fuel Cycle Safety
and Safeguards, NMSS

FROM: Timothy C. Johnson, Senior Project Manager
Uranium Enrichment Branch
Division of Fuel Cycle Safety
and Safeguards, NMSS

SUBJECT: FEBRUARY 6, 2009, MEETING SUMMARY: GENERAL ELECTRIC-
HITACHI PRE-APPLICATION MEETING

On February 6, 2009, U.S. Nuclear Regulatory Commission (NRC) staff conducted open and closed meetings at NRC offices in Rockville, Maryland, to discuss project status, the Environmental Report, decommissioning funding, quality assurance, and the integrated safety analysis for the proposed General Electric-Hitachi (GEH) laser-based uranium enrichment plant project. I am enclosing the meeting summary for your use. This summary contains no classified, security-related, or proprietary information.

Docket No.: 70-7016

Enclosure: General Electric-Hitachi Meeting Summary

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

CONTACT: Timothy Johnson, NMSS/FCSS
301-492-3121

MEMORANDUM TO: Michael Tschiltz, Deputy Director
 Fuel Facility Licensing Directorate
 Division of Fuel Cycle Safety
 and Safeguards
 Office of Nuclear Material Safety
 and Safeguards

THRU: Brian W. Smith, Chief
 Uranium Enrichment Branch
 Division of Fuel Cycle Safety
 and Safeguards, NMSS

FROM: Timothy C. Johnson, Senior Project Manager
 Uranium Enrichment Branch
 Division of Fuel Cycle Safety
 and Safeguards, NMSS

SUBJECT: FEBRUARY 6, 2009, MEETING SUMMARY: GENERAL ELECTRIC-
 HITACHI PRE-APPLICATION MEETING

On February 6, 2009, U.S. Nuclear Regulatory Commission (NRC) staff conducted open and closed meetings at NRC offices in Rockville, Maryland, to discuss project status, the Environmental Report, decommissioning funding, quality assurance, and the integrated safety analysis for the proposed General Electric-Hitachi (GEH) laser-based uranium enrichment plant project. I am enclosing the meeting summary for your use. This summary contains no classified, security-related, or proprietary information.
 Docket No.: 70-7016

Enclosure: General Electric-Hitachi Meeting Summary

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
 Lafayette Atkinson/NCOSH
 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

CONTACT: Timothy Johnson, NMSS/FCSS
 301-492-3121

DISTRIBUTION:

FCSS r/f	SPB r/f	RidsNmssOd	RidsEdoMailCenter
MWeber/NMSS	DDorman/FCSS	CHaney/NMSS	LClark/OGC
KEverly/NSIR	APowell/OCA	DMcIntyre/OPA	RVirgilio/FSME
MLesser/Reg II	DSeymour/RegII	JHenson/RegII	RHannah/RegII
JLedford/RegII	CTaylor/RegII	RTrojanowski/RegII	CRidge/FSME
GKulesa/FSME	AKock/FSME	JHull/OGC	WSmith/MB
NBaker/FMB	HYilma/FSME	KKline/FSME	BShroff/FSME
GEH Website-Yes			

ML09

OFC	UEB		UEB		UEB	
NAME	TCJohnson		VWilliams		BSmith	
DATE	02/	/09	02/	/09	02/	/09

OFFICIAL RECORD COPY

Summary of
General Electric-Hitachi Pre-Application Meeting

Date: February 6, 2009

Place: U.S. Nuclear Regulatory Commission (NRC) offices;
Rockville, MD

Attendees: See Attachment 1

Purpose:

The purpose of this pre-application meeting was to discuss project status, the Environmental Report (ER), decommissioning funding, quality assurance, and the integrated safety analysis (ISA) issues related to the proposed General Electric-Hitachi (GEH) laser-based uranium enrichment plant project.

Discussion:

Following introductions, Mr. Albert Kennedy provided a brief project update (see Attachment 2). He indicated that the ER was submitted on January 30, 2009. He said that he expects the license application to be submitted no later than June 2009. He also stated that two exemption requests were submitted to NRC in December 2008 and NRC approved the one on early submittal of the ER in January 2009. The other exemption request on early construction is still under NRC review.

Mr. Kennedy stated that GEH is continuing its facility design development and the first draft of the ISA Summary is complete. GEH will have the ISA Summary reviewed by an independent panel. He said that management review of the license application is currently underway. Mr. Kennedy also noted that GEH is preparing a request for additional information response plan.

Mr. Kennedy stated that GEH has designated the restricted area and protected area to be the 100-acre area to be used for the enrichment plant. The remainder of the GEH site will be designated as the owner-controlled area.

Mr. Kennedy said that GEH is trying to make as much of the application public as is possible. However, the application will contain proprietary information, export-controlled information, safeguards information, security-related information, and classified information. NRC staff asked if GEH has coordinated with U.S. Department of Energy (DOE) staff to obtain export-controlled information classifier training for its staff. Mr. Kennedy indicated that he would check into this.

Mr. Kennedy then discussed the status of the Safety Analysis Report (SAR) preparation. He said that Chapters 1 to 11 are 90 percent complete. He also said that the security and Emergency Plan (EP) are complete and the Fundamental Nuclear Material Control Plan is in final review. He said the decommissioning funding plan is in a final draft. With respect to the EP, Mr. Kennedy stated that the enrichment plant will be integrated into the fuel fabrication plant plan. NRC staff indicated that Brunswick and Pender County officials want to be involved in the EP because of the proximity of those counties to the site. Mr. Kennedy indicated that GEH will look into this.

Mr. Kennedy discussed GEH's approach to quality assurance (QA). He said that the QA program will address the 18 elements in American Society of Mechanical Engineers NQA-1. He said the QA manager is currently staffed. GEH plans to have three Quality Levels. Quality Level 1 will be used for sole Items Relied on for Safety (IROFS) for high consequence events; Quality Level 2 will be used of other IROFS for high consequence events and for sole IROFS for intermediate consequence events; and Quality Level 3 will be used for other IROFS for intermediate consequence events and for commercial-grade items. Mr. Kennedy stated that there are no sole IROFS for high consequence events currently in the facility design. NRC staff stated that GEH will need to demonstrate that IROFS are reliable and will be available when needed and Quality Level 3 items would not be expected to meet this requirement. In addition, Quality Level 2 items must also be sufficient to meet that requirement.

For the decommissioning funding plan, Mr. Kennedy stated that GEH is following the NRC guidance in NUREG-1757 and is using EnergySolutions as a contractor to develop the cost estimate. At this time, it plans to use a surety bond to demonstrate financial assurance and will request an exemption to fund tails disposition on an incremental basis. GEH will include 100 percent of the full facility decommissioning cost in the submittal based on unrestricted use. GEH plans to base the tails disposition cost on the DOE estimates it had previously received. It is including a 25 percent contingency. NRC staff asked if the estimate includes the use of a third-party contractor in the event that GEH is unable to complete the decommissioning itself. Mr. Kennedy indicated that third-party contractors are partially included. NRC staff stated that these costs need to be included for the entire remediation. Mr. Kennedy said that facility decommissioning cost estimate is about \$200 million and the tails disposition cost is about \$1 billion. NRC staff indicated that the tails disposition cost estimate appears to be low for the proposed 6 million Separative Work Unit plant. Mr. Kennedy indicated that GEH would check the estimate.

Ms. Julie Olivier discussed the ER. She said that GEH used the NRC guidance in NUREG-1748. She stated that the ER includes cumulative impacts for the proposed cement plant located near the GEH facility and includes the impacts from its proposed early construction activities. NRC staff stated that ~~these~~ impacts from pre-licensing construction activities may need to be broken out separately. She said that GEH addressed impacts related to the closure of the low-level radioactive waste disposal facility in South Carolina saying that this did not affect the GEH plant. Ms. Olivier stated that if the facility design changes, it will submit a supplement to the ER. NRC staff asked if GEH anticipated any design changes between when it submitted the ER and when it submitted the remainder of its license application. Ms. Olivier indicated plans for a new entrance for vehicle access to the site and the decommissioning schedule were likely to change and would be updated in an ER supplement.

Mr. Kennedy discussed several chapters in the SAR, including the chapters on radiation protection, chemical safety, and fire protection. NRC asked if skin exposures to hydrogen fluoride are being considered. Ms. Olivier indicated that GEH is evaluating this area.

Action Items:

None

Attachments:

1. Attendee list
2. GEH handout

GE Pre-Application Meeting February 6, 2009

NAME	AFFILIATION	TELEPHONE NUMBER	EMAIL ADDRESS
Tim Johnson	NRC/FCSS	301-492-3121	Timothy.Johnson@nrc.gov
Dan Dorman	NRC/FCSS	301-492-3132	Dan.Dorman@nrc.gov
Al Kennedy	GEH	910-200-9805	alberte.kennedy@ge.com
Julie Olivier	GEH	910-819-4799	Julie.olivier@ge.com
A. Christianne Ridge	NRC/DWMEP	301-415-5673	Christianne.Ridge@nrc.gov
Michael Tschiltz	NRC/FCSS	301-492-3206	Michael.Tschiltz@nrc.gov
Brian Smith	NRC/FCSS	301-492-3137	Brian.smith@nrc.gov
Patricia Campbell	GEH	202-637-4239	patriciaL.campbell@ge.com
Wilkins Smith	NRC/FCSS	301-4923226	Wilkins.Smith@nrc.gov
Nick Baker	NRC/FCSS	301-492-3128	Merritt.Baker@nrc.gov
Haimanot Yilma	NRC/DWMEP	301-415-8029	Haimanot.Yilman@nrc.gov
Kenneth Kline	NRC/DWMEP	301-415-7075	Kenneth.Kline@nrc.gov
Andrea Kock	NRC/DWMEP	301-415-7183	Andrea.Kock@nrc.gov
Behram Shroff	NRC/DWMEP	301-415-0666	Behman.Shroff@nrc.gov
Jay Henson	NRC/REGII/DFFI	404-562-4731	Jay.Henson@nrc.gov
Dan Horner (by phone)	Platts		
Wanda Lagoe (by phone)	NC OSH		
Lafayette Atkinson (by phone)	NC OSH		