

GEHitachiUELAPEm Resource

From: Ridge, Christianne
Sent: Wednesday, August 05, 2009 7:51 AM
To: Avci, Halil I.
Cc: Fischer, Karl W.; Yilma, Haimanot; Shroff, Behram
Subject: GLE: Consultation Replies from the North Carolina Department of Administration
Attachments: ML0913300320.pdf; Project 09-0336 General Electric Hitachi Global User Enrichment.pdf; Project 09-0336 Additional Comments for General Electric Hitachi project.pdf; GLE Scoping reply from NC Clearinghouse addendum 2.pdf

Halil,

To date we have received 3 replies from the North Carolina Department of Administration (North Carolina Clearinghouse). I have attached our original letter to the Clearinghouse with the 3 replies. Our outgoing letter indicates which agencies the Clearinghouse coordinates with.

I followed up with the North Carolina Wildlife Resources Commission yesterday and was told they will supply a separate reply.

Thanks

Hearing Identifier: GEHitachiUE_LicenseApplication_Public
Email Number: 199

Mail Envelope Properties (Christianne.Ridge@nrc.gov20090805075100)

Subject: GLE: Consultation Replies from the North Carolina Department of Administration
Sent Date: 8/5/2009 7:51:15 AM
Received Date: 8/5/2009 7:51:00 AM
From: Ridge, Christianne

Created By: Christianne.Ridge@nrc.gov

Recipients:

"Fischer, Karl W." <kfischer@anl.gov>
Tracking Status: None
"Yilma, Haimanot" <Haimanot.Yilma@nrc.gov>
Tracking Status: None
"Shroff, Behram" <Behram.Shroff@nrc.gov>
Tracking Status: None
"Avci, Halil I." <avci@anl.gov>
Tracking Status: None

Post Office:

Files	Size	Date & Time
MESSAGE	448	8/5/2009 7:51:00 AM
ML0913300320.pdf	79247	
Project 09-0336 General Electric Hitachi Global User Enrichment.pdf		4204788
Project 09-0336 Additional Comments for General Electric Hitachi project.pdf 3066989		
GLE Scoping reply from NC Clearinghouse addendum 2.pdf		861405

Options

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

May 14, 2009

Ms. Valerie McMillan
Director, State Environmental Review Clearinghouse
Department of Administration
1301 Mail Service Center
Raleigh NC 27699-1301

SUBJECT: REQUEST FOR SCOPING COMMENTS FOR AN ENVIRONMENTAL IMPACT STATEMENT REGARDING THE PROPOSED GENERAL ELECTRIC-HITACHI GLOBAL LASER ENRICHMENT (GLE) URANIUM ENRICHMENT FACILITY IN NEW HANOVER COUNTY, NORTH CAROLINA

Dear Ms. McMillan:

As we discussed on May 6, 2009, General Electric-Hitachi Global Laser Enrichment (GLE) has submitted an application to the U.S. Nuclear Regulatory Commission (NRC) for a license to authorize construction, operation, and decommissioning of a proposed uranium enrichment facility. The NRC staff is in the initial stages of developing an Environmental Impact Statement (EIS) for the proposed facility to be located on the existing General Electric/Global Nuclear Fuels-Americas site near Wilmington, North Carolina, in New Hanover County (Wilmington site). The facility, if licensed, would use a laser-based technology to enrich the isotope uranium-235 in uranium hexafluoride (UF₆) up to 8 percent by weight. The EIS will document the impacts associated with the construction, operation, and decommissioning of the proposed facility.

Thank you for your assistance in notifying appropriate North Carolina departments and programs of the public scoping meetings NRC will hold in Wilmington, North Carolina, on May 19, 2009. As we discussed on May 6, 2009, the North Carolina departments and programs you coordinate with are: 1) the Cape Fear Regional Council of Governments, 2) the Department of Environment and Natural Resources, 3) the Department of Agriculture, 4) the Department of Cultural Resources, 5) the Department of Transportation, and 6) Crime Control & Public Safety, Division of Emergency Management, Floodplain Management Program. By this letter, we are requesting that, within 30 days, these agencies provide comments to help determine the scope of our EIS. Any information you provide will be used with information gathered in written comments and at the public scoping meetings to help NRC analyze the environmental impacts of the proposed action.

As part of the NRC licensing process, GLE submitted an Environmental Report (ER) that describes the 656 hectare (1621 acre) Wilmington site and the anticipated environmental impacts of the construction, operation, and decommissioning of the proposed facility. The Wilmington site is located approximately 9.6 kilometers (6 miles) north of the city of Wilmington in New Hanover County, NC. We have enclosed 16 copies of additional background information relating to the proposed action and the Wilmington site, including a map showing the site, as it appears in the executive summary of the GLE ER.

V. McMillan

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If you have any questions or comments, or need any additional information, please contact Christianne Ridge of my staff at 301-415-5673.

Sincerely,

/RA/

Andrea Kock, Chief
Environmental Review Branch
Division of Waste Management
and Environmental Protection
Office of Federal and State Materials
and Environmental Management Programs

Docket No.: 70-7016

Enclosure: As stated

cc without enclosure: see next page

V. McMillan

2

If you have any questions or comments, or need any additional information, please contact Christianne Ridge of my staff at 301-415-5673.

Sincerely,

Andrea Kock, Chief
Environmental Review Branch
Division of Waste Management
and Environmental Protection
Office of Federal and State Materials
and Environmental Management Programs

Docket No.: 70-7016

Enclosure: As stated

cc without enclosure: see next page

DISTRIBUTION:

DWMEP r/f	JHull/OGC	LClark/OGC	BSmith/FCSS
TJohnson/FCSS	APowell/OCA	DMcIntyre/OPA	CTaylor/RII
RHannah/RII	MLesser/RII	AGody/Reg II	JLedford/RII
JHenson/RII	RTrojanowski/RII	DSeymour/RII	NGriffis/RII
AKock/FSME	HYilma/FSME	BShroff/FSME	RVirgilio/FSME

ML091330018

OFC	ERB	ERB:LA	OGC	ERB:BC
NAME	CRidge	AWalker-Smith	LClark	AKock
DATE	5/13/09	5/13/09	5/ 14/09	5/ 14/09

OFFICIAL RECORD COPY

cc list:

William Szymanski/DOE
Patricia Campbell/GEH
Robert Brown/GEH
Tammy Orr/GEH
AKennedy/GEH
JOLivier/GEH
Tom Clements/FOTE
Doug Springer/CFRW
Stephen Rynas/NCDENR
Emily Hughes/USACE
David Weaver/New Hanover County
Jennifer Braswell/New Hanover County

Bruce Shell/New Hanover County
Marty Lawing/Brunswick County
George Brown/Pender County
Bill Saffo/Wilmington
Mike Giles/CFC
Malissa Talbert/Wilmington
Wanda Lagoe/NCOSH
Cameron Weaver/NCDENR
Lee Cox/SLO
Kimberly Garvey/USACE
Christopher O'Keefe/New Hanover County



North Carolina Department of Administration

Beverly Eaves Perdue, Governor

Britt Cobb, Secretary

June 22, 2009

Ms. Andrea Kock
U.S. Nuclear Regulatory Commission
FSME/DWMEP/ERB
T-8F05
Washington, DC 20555-0001

Re: SCH File # 09-E-0000-0336; SCOPING; Proposal for General Electric-Hitachi Global Laser Enrichment to construction, operation, decommissioning a uranium facility

Dear Ms. Kock:

The above referenced environmental impact information has been submitted to the State Clearinghouse under the provisions of the National Environmental Policy Act. According to G.S. 113A-10, when a state agency is required to prepare an environmental document under the provisions of federal law, the environmental document meets the provisions of the State Environmental Policy Act. Attached to this letter for your consideration are the comments made by agencies in the course of this review.

If any further environmental review documents are prepared for this project, they should be forwarded to this office for intergovernmental review.

Should you have any questions, please do not hesitate to call.

Sincerely,

Valerie McMillan (576)

Valerie W. McMillan, Director
State Environmental Review Clearinghouse

Attachments

cc: Region O

Mailing Address:
1301 Mail Service Center
Raleigh, NC 27699-1301

Telephone: (919)807-2425
Fax (919)733-9571
State Courier #51-01-00
e-mail valerie.w.mcmillan@doa.nc.gov

Location Address:
116 West Jones Street
Raleigh, North Carolina



North Carolina Department of Environment and Natural Resources

Beverly Eaves Perdue
Governor

Dee Freeman
Secretary

MEMORANDUM

TO: Valerie McMillan
State Clearinghouse

FROM: Melba McGee *mcgee*
Environmental Review Coordinator

RE: 09-0336 Scoping, Proposed Decommissioning of a Uranium
Enrichment Facility in New Hanover County

DATE: June 17, 2009

The Department of Environment and Natural Resources has reviewed the proposed project. The attached comments are for the applicant's consideration. More specific comments will be provided during the environmental review process.

Thank you for the opportunity to respond. If during the preparation of the environmental document, additional information is needed, the applicant is encouraged to notify our respective divisions.

Attachments





North Carolina Department of Environment and Natural Resources
Division of Coastal Management

Beverly Eaves Perdue
Governor

James H. Gregson
Director

Dee Freeman
Secretary

May 29, 2009

Melba McGee
Environmental Coordinator
Office of Legislative & Intergovernmental Affairs
Department of Environment and Natural Resources
1601 Mail Service Center
Raleigh, NC 27699-1601

SUBJECT: Comments Related to the Proposed Construction, Operation, and Decommissioning of a Uranium Enrichment Facility, Wilmington, New Hanover County, North Carolina (SCH#09-0336 and DCM#20090055 and DCM#20090067)

Dear Ms. McGee:

Thank you for the opportunity to review the scoping request for a proposed environmental document to evaluate the construction, operation, and decommissioning of a uranium enrichment facility in Wilmington, New Hanover County, North Carolina. According to the scoping request General Electric-Hitachi Global Laser Enrichment, LLC (GLE) will be applying for a license from the US Nuclear Regulatory Commission. This license would authorize GLE to possess and use nuclear material. The purpose of this review is to provide comments on the environmental and regulatory issues that the proposed environmental document will need to evaluate. Below are the comments of the North Carolina Division of Coastal Management.

- The proposed project will be occurring in, New Hanover County, one of North Carolina's twenty coastal counties. Furthermore this proposed project will require a Federal license. Consequently the proposed project, before it can be implemented, will require regulatory review from DCM under Subpart "D" of 15 CFR 930. However, in the event that the proposed project affects an Area of Environmental Concern (AEC) and qualifies as "*development*" under §113A-103(5)(a) of the Coastal Area Management Act (CAMA) the entire proposed project may require that a CAMA permit be required instead.
- Though not specifically required, we recommend that the environmental document comply with the information requirement of 15 CFR 930.58.
- According to the scoping request, the proposed environmental document will evaluate the construction, operation, and decommissioning of the facility. Considering proposed projects complexity and the length of time that the facility will probably be in operation; in terms of permitting, discrete permits may be required to authorize each phase of the project: (construction, operation, and decommissioning). We recommend that the environmental document evaluate the anticipated types of approvals required for each phase.

- We suggest that the environmental document graphically delineate any AEC that may exist in the study area.
- We suggest that any wetland delineations (if required) separate coastal wetlands from Section 404 wetlands and specifically identify each wetland type.
- We suggest that the environmental document clearly define the construction activities and methods to build the proposed facility. Resource concerns related to this issue would be conformance with any moratorium periods, endangered species, conversion of habitat to urban uses, water quality, stormwater management, waste management, storage of nuclear material, and/or the potential to impact coastal resources (especially those within an AEC). Please see 15 CFR 930.11.
- We suggest that the environmental document assess operational issues such as groundwater uptake, discharges into public trust waters, potential closure of public access and/or public use of coastal waters, etc. Please see 15 CFR 930.11.

Thank you for your consideration of the North Carolina Coastal Management Program.

Sincerely,



Stephen Rynas, AICP
Federal Consistency Coordinator

cc: Doug Huggett, Division of Coastal Management
Steve Everhart, Division of Coastal Management
Christine Ridge, US Nuclear Regulatory Commission

JUN 10 2009

DEPARTMENT OF ENVIRONMENT AND
NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

Project Number
09-0336

County
New Hanover

Inter-Agency Project Review Response

Project Name GE-Hitachi Global Laser
Enrichment LLC (GLE)

Type of Project

Construct & operate
uranium-enhanced facility -
Proposed GLE Facility.

Comments provided by:

- Regional Program Person
- Regional Supervisor for Public Water Supply Section
- Central Office program person



Name Debra Benoy-Wilmington RO

DSW 6/8/09

Date 05/22/2009

Telephone number: 910-796-7215

Program within Division of Environmental Health:

Public Water Supply

Other, Name of Program: _____

Response (check all applicable):

- No objection to project as proposed
- No comment
- Insufficient information to complete review
- Comments attached
- See comments below

*Engineering plans and specifications
may need to be submitted for prior approval
before water lines can be extended to serve
this facilities*

Return to:
Public Water Supply Section
Environmental Review Coordinator for the
Division of Environmental Health

DEPARTMENT OF ENVIRONMENT AND
NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

Project Number 09-0336
County New Hanover

Inter-Agency Project Review Response

Project Name GE-Hitachi Global Laser
Enrichment LLC (GLE) Type of Project Construct & operate
uranium-enhanced facility
- Proposed GLE Facility.

- The applicant should be advised that plans and specifications for all water system improvements must be approved by the Division of Environmental Health prior to the award of a contract or the initiation of construction (as required by 15A NCAC 18C .0300et. seq.). For information, contact the Public Water Supply Section, (919) 733-2321.
- This project will be classified as a non-community public water supply and must comply with state and federal drinking water monitoring requirements. For more information the applicant should contact the Public Water Supply Section, (919) 733-2321.
- If this project is constructed as proposed, we will recommend closure of _____ feet of adjacent waters to the harvest of shellfish. For information regarding the shellfish sanitation program, the applicant should contact the Shellfish Sanitation Section at (252) 726-6827.
- The soil disposal area(s) proposed for this project may produce a mosquito breeding problem. For information concerning appropriate mosquito control measures, the applicant should contact the Public Health Pest Management Section at (919) 733-6407.
- The applicant should be advised that prior to the removal or demolition of dilapidated structures, an extensive rodent control program may be necessary in order to prevent the migration of the rodents to adjacent areas. For information concerning rodent control, contact the local health department or the Public Health Pest Management Section at (919) 733-6407.
- The applicant should be advised to contact the local health department regarding their requirements for septic tank installations (as required under 15A NCAC 18A. 1900 et. sep.). For information concerning septic tank and other on-site waste disposal methods, contact the On-Site Wastewater Section at (919) 733-2895.
- The applicant should be advised to contact the local health department regarding the sanitary facilities required for this project.
- If existing water lines will be relocated during the construction, plans for the water line relocation must be submitted to the Division of Environmental Health, Public Water Supply Section, Technical Services Branch, 1634 Mail Service Center, Raleigh, North Carolina 27699-1634, (919) 733-2321.
- For Regional and Central Office comments, see the reverse side of this form.

Jim McRight

PWSS

05/22/2009

Reviewer

Section/Branch

Date



North Carolina Department of Environment and Natural Resources
Division of Water Quality
Coleen H. Sullins
Director

Beverly Eaves Perdue
Governor

Dee Freeman
Secretary

June 4, 2009

MEMORANDUM

TO: Melba McGee
Department of Environment and Natural Resources

THRU: Dianne Reid, Supervisor *HR*
Basinwide Planning Unit and SEPA Program

FROM: Hannah Stallings, SEPA Coordinator *HR*
Basinwide Planning Unit and SEPA Program

SUBJECT: New Hanover County
GLE Environmental Report – Executive Summary
DWQ#14147; DENR#09-0336

The Division of Water Quality (DWQ) has reviewed the Executive Summary provided for the subject project. Without reviewing the entire Environmental Report, we cannot concur with GLE's conclusion that the project will only result in small impacts to water resources.

On April 9, 2009, DWQ issued a memo (attached) regarding a renewal of a special nuclear material license SNM-1097 for the GNF-A site, which the GLE will be located within. We have not received a reply to these comments and request that the concerns raised in our April memo be resolved prior to this GLE project proceeding.

DWQ's NPDES Eastern Unit recently renewed the discharge permit for the GNF-A facility. They were not advised of any increases in flow associated with this permit renewal. Therefore, if the currently proposed project will result in an increase in discharged flow, Ron Berry (ron.berry@ncdenr.gov, 807-6396) should be notified immediately.

Please contact me at 807-6434 if I can be of any additional help.
Thank you.

Attachment

Cc: Rick Shiver, Charlie Stehman – WiRO
Jeff Poupart, Ron Berry – NPDES
Nora Deamer – BPU



North Carolina Department of Environment and Natural Resources
Division of Water Quality
Coleen H. Sullins
Director

Beverly Eaves Perdue
Governor

Dee Freeman
Secretary

April 9, 2009

MEMORANDUM

TO: Melba McGee
Department of Environment and Natural Resources

THRU: Dianne Reid, Supervisor
Basinwide Planning Unit and SEPA Program

FROM: Hannah Stallings, SEPA Coordinator
Basinwide Planning Unit and SEPA Program

SUBJECT: New Hanover County
EA for the Renewal of SNM-1097 for Global Nuclear Fuels-Americas (GNF-A),
Wilmington Fuel Fabrication Facility
DWQ#14112; DENR#09-0247

The Division of Water Quality (DWQ) has reviewed the subject project. GNF-A holds a permit for the discharge of up to 1.8 MGD of process wastewater and 75,000 GPD of domestic wastewater, and there have not been any compliance issues with their discharge permit (NC0001228) that is also currently in the process of being renewed. However, the Division has the following comments that need to be addressed prior to a Finding of No Significant Impact (FNSI) being issued for this project:

1. The document should clarify whether "sanitary water" is the same as "wastewater."
2. Section 1.3 – Text states that GNF-A is pursuing the renewal of a 40 year license for the site to continue operation with "no major upgrades or refurbishment activities." DWQ is concerned that this EA and subsequent permits will allow for the future construction of the laser enrichment and tooling development buildings to piggyback on any approvals intended solely for GNF-A.
 - a. This section should also mention the future tooling development center.
 - b. If construction of these two facilities (the laser enrichment and tooling development centers) will be allowed by approval of this EA, please make that clear in the document.
 - c. More explanation of the interrelatedness of the GNF-A facility and the laser enrichment and tooling development projects is required to understand how the impacts from the latter two projects can be viewed as cumulative impacts of the GNF-A renewal and not separate, direct impacts unto themselves.
3. Section 2.6 – DWQ requests to comment upon any license amendments the facility may pursue during the 40-year period for its license renewal.
4. Section 3.5.1 should include that the project is located in Cape Fear subbasin number 03-06-23.
5. Section 4.1 –
 - a. Description of the land use impacts from the laser enrichment center needs to be added.

- b. Text in this section (page 34) says the tooling development center will impact 30 acres and need a new road. However, the first paragraph says that since the GNF-A facility already exists that short and long term impacts on land use will be small. While that this statement may be true, considering that the site is 1664 acres, impacts will not be minimized if construction occurs in or around wetland areas. Therefore, GNF-A needs to provide more detail on the proposed building impacts. (Please address in section 4.5 also).
6. Section 4.5 –
- a. Text in this section states “potential short-term surface water impacts ... include changes in water quality in the Northeast Cape Fear River and its tributaries due to contaminated effluent discharges” and that liquid effluents are treated and discharged “in accordance with NPDES Permit NC0001228 and 10 CFR Part 20 requirements.” It would seem that if effluents are in compliance with NPDES permit limits that the discharges would not be considered “contaminated.” (Similar statements are found in section 2.4, pages 10-11.) Please clarify this issue.
 - b. The lagoon system mentioned here should be mentioned in section under “Waste Management” discussions.
 - c. The second paragraph states that wastewater from the tooling development center will be pumped to the GNF-A lagoons from treatment and then discharged to the Cape Fear River. Please reconcile this with text in section 2.4 (page 11) that describes how GNF-A is changing its wastewater treatment process to recycle its effluent, eliminating its discharge.
 - d. Third paragraph – The second and fourth sentences contradict each other, in that the second sentence describes spills and leaks that have resulted in groundwater contamination and the fourth states that current producers “have effectively prevented their occurrence.” Please amend this discussion so that it provides consistent statements regarding spills and resulting contamination events.
 - e. Fourth paragraph – The first and third sentences contradict each other, in that the first sentence states that “Potential impacts to the water quality of wetlands are not anticipated from continued operations at the GNF-A site” and the third sentence states that “Water quality in wetlands in and around the GNF-A site could be affected by discharges of liquid effluents (e.g., storm water runoff) and gaseous emissions.” Please amend the text so that it provides consistent statements about the likelihood for fouling the water quality of wetlands.
7. Section 4.12
- a. The tooling development center and its proposed 11,500 gpd discharge and additional stormwater should be addressed in this section.
 - b. The second sentence of the second paragraph describes a co-mingling of waste streams that section 2.4 describes as being treated separately. Please reconcile these seemingly contradictory statements.
 - c. Please correct the text to indicate that “changes in groundwater or soil quality due to releases of hazardous chemicals” is a direct operational impact of the project.
8. Section 6.0
- a. Text states that the proposed project “will not cause significant additional impact on the environment. The facility already exists, and no changes to the GNF-A facility of its operation are associated with the license renewal. The Proposed Action can be considered a continuation of impacts and was evaluated based on impacts from past operations ... Cumulative impacts over the 40-year renewal period were also evaluated and determined to be SMALL to MODERATE.”
 - i. If approval of this project does implicitly sanction the construction of the tool and laser facilities, activities which appear beyond this license renewal, then the impacts from this project must be included in this document.
 - ii. While the beginning of the quoted section states that impacts from the project will not be “significant,” the last sentence states that the impacts will be “SMALL to MODERATE.” The last sentence leads one to believe that there will be significant impacts resulting from this project.
 - 1. Please respond regarding this contradiction.
 - 2. If projected impacts are significant, DWQ requests that an EIS be prepared for this project.

Cc: Rick Shiver – WiRO

INTERGOVERNMENTAL REVIEW - PROJECT COMMENTS

Project Number: 09-0336 Due Date: 6/15/09

After review of this project it has been determined that the ENR permit(s) and/or approvals indicated may need to be obtained in order for this project to comply with North Carolina Law. Questions regarding these permits should be addressed to the Regional Office indicated on the reverse of the form. All applications, information and guidelines relative to these plans and permits are available from the same Regional Office.

	PERMITS	SPECIAL APPLICATION PROCEDURES or REQUIREMENTS	Normal Process Time (statutory time limit)
<input type="checkbox"/>	Permit to construct & operate wastewater treatment facilities, sewer system extensions & sewer systems not discharging into state surface waters.	Application 90 days before begin construction or award of construction contracts. On-site inspection. Post-application technical conference usual.	30 days (90 days)
<input checked="" type="checkbox"/>	NPDES - permit to discharge into surface water and/or permit to operate and construct wastewater facilities discharging into state surface waters.	Application 180 days before begin activity. On-site inspection. Pre-application conference usual. Additionally, obtain permit to construct wastewater treatment facility-granted after NPDES. Reply time, 30 days after receipt of plans or issue of NPDES permit-whichever is later.	90-120 days (N/A)
<input type="checkbox"/>	Water Use Permit	Pre-application technical conference usually necessary	30 days (N/A)
<input type="checkbox"/>	Well Construction Permit	Complete application must be received and permit issued prior to the installation of a well.	7 days (15 days)
<input type="checkbox"/>	Dredge and Fill Permit	Application copy must be served on each adjacent riparian property owner. On-site inspection. Pre-application conference usual. Filling may require Easement to Fill from N.C. Department of Administration and Federal Dredge and Fill Permit.	55 days (90 days)
<input type="checkbox"/>	Permit to construct & operate Air Pollution Abatement facilities and/or Emission Sources as per 15 A NCAC (2Q.0100, 2Q.0300, 2H.0600)	N/A	60 days
<input type="checkbox"/>	Any open burning associated with subject proposal must be in compliance with 15 A NCAC 20.1900		
<input type="checkbox"/>	Demolition or renovations of structures containing asbestos material must be in compliance with 15 A NCAC 20.1110 (a) (1) which requires notification and removal prior to demolition. Contact Asbestos Control Group 919-707-5950.	N/A	60 days (90 days)
<input type="checkbox"/>	Complex Source Permit required under 15 A NCAC 2D.0800		
<input checked="" type="checkbox"/>	The Sedimentation Pollution Control Act of 1973 must be properly addressed for any land disturbing activity. An erosion & sedimentation control plan will be required if one or more acres to be disturbed. Plan filed with proper Regional Office (Land Quality Section) At least 30 days before beginning activity. A fee of \$ 34 ⁶⁵ for the first acre or any part of an acre. An express review option is available with additional fees.		20 days (30 days)
<input type="checkbox"/>	Sedimentation and erosion control must be addressed in accordance with NCDOT's approved program. Particular attention should be given to design and installation of appropriate perimeter sediment trapping devices as well as stable stormwater conveyances and outlets.		(30 days)
<input type="checkbox"/>	Mining Permit	On-site inspection usual. Surety bond filed with ENR Bond amount varies with type mine and number of acres of affected land. Any acre mined greater than one acre must be permitted. The appropriate bond must be received before the permit can be issued.	30 days (60 days)
<input type="checkbox"/>	North Carolina Burning permit	On-site inspection by N.C. Division Forest Resources if permit exceeds 4 days	1 day (N/A)
<input type="checkbox"/>	Special Ground Clearance Burning Permit - 22 counties in coastal N.C. with organic soils	On-site inspection by N.C. Division Forest Resources required "if more than five acres of ground clearing activities are involved. Inspections should be requested at least ten days before actual burn is planned."	1 day (N/A)
<input type="checkbox"/>	Oil Refining Facilities	N/A	90-120 days (N/A)
<input type="checkbox"/>	Dam Safety Permit	If permit required, application 60 days before begin construction. Applicant must hire N.C. qualified engineer to: prepare plans, inspect construction, certify construction is according to ENR approved plans. May also require permit under mosquito control program. And a 404 permit from Corps of Engineers. An inspection of site is necessary to verify Hazard Classification. A minimum fee of \$200.00 must accompany the application. An additional processing fee based on a percentage of the total project cost will be required upon completion.	30 days (60 days)

PERMITS		SPECIAL APPLICATION PROCEDURES or REQUIREMENTS	Normal Process Time (statutory time limit)
<input type="checkbox"/>	Permit to drill exploratory oil or gas well	File surety bond of \$5,000 with ENR running to State of NC conditional that any well opened by drill operator shall, upon abandonment, be plugged according to ENR rules and regulations.	10 days N/A
<input type="checkbox"/>	Geophysical Exploration Permit	Application filed with ENR at least 10 days prior to issue of permit. Application by letter. No standard application form.	10 days N/A
<input type="checkbox"/>	State Lakes Construction Permit	Application fees based on structure size is charged. Must include descriptions & drawings of structure & proof of ownership of riparian property.	15-20 days N/A
<input checked="" type="checkbox"/>	401 Water Quality Certification	N/A	60 days (130 days)
<input type="checkbox"/>	CAMA Permit for MAJOR development	\$250.00 fee must accompany application	55 days (150 days)
<input type="checkbox"/>	CAMA Permit for MINOR development	\$50.00 fee must accompany application	22 days (25 days)
<input type="checkbox"/>	Several geodetic monuments are located in or near the project area. If any monument needs to be moved or destroyed, please notify: N.C. Geodetic Survey, Box 27687 Raleigh, NC 27611		
<input type="checkbox"/>	Abandonment of any wells, if required must be in accordance with Title 15A. Subchapter 2C.0100.		
<input type="checkbox"/>	Notification of the proper regional office is requested if "orphan" underground storage tanks (USTS) are discovered during any excavation operation.		
<input checked="" type="checkbox"/>	Compliance with 15A NCAC 2H 1000 (Coastal Stormwater Rules) is required.		45 days (N/A)
<input type="checkbox"/>	Tar Pamlico or Neuse Riparian Buffer Rules required.		
* Other comments (attach additional pages as necessary, being certain to cite comment authority)			

REGIONAL OFFICES

Questions regarding these permits should be addressed to the Regional Office marked below.

Asheville Regional Office

2090 US Highway 70
Swannanoa, NC 28778
(828) 296-4500

Mooresville Regional Office

610 East Center Avenue, Suite 301
Mooresville, NC 28115
(704) 663-1699

Wilmington Regional Office

127 Cardinal Drive Extension
Wilmington, NC 28405
(910) 796-7215

Fayetteville Regional Office

225 North Green Street, Suite 714
Fayetteville, NC 28301-5043
(910) 433-3300

Raleigh Regional Office

3800 Barrett Drive, Suite 101
Raleigh, NC 27609
(919) 791-4200

Winston-Salem Regional Office

585 Waughtown Street
Winston-Salem, NC 27107
(336) 771-5000

Washington Regional Office

943 Washington Square Mall
Washington, NC 27889

NORTH CAROLINA STATE CLEARINGHOUSE
DEPARTMENT OF ADMINISTRATION
INTERGOVERNMENTAL REVIEW

RECEIVED

COUNTY: NEW HANOVER

H11: ENERGY RELATED
FACILITIES/ACTIVITIES

STATE NUMBER: 09-E-0000-0336
DATE RECEIVED: 05/19/2009
AGENCY RESPONSE: 06/15/2009
REVIEW CLOSED: 06/19/2009

MS MELBA MCGEE
CLEARINGHOUSE COORDINATOR
DENR - COASTAL MGT
C/O ARCHDALE BLDG
RALEIGH NC

REVIEW DISTRIBUTION

CAPE FEAR COG
CC&PS - DIV OF EMERGENCY MANAGEMENT
DENR - COASTAL MGT
DENR LEGISLATIVE AFFAIRS
DEPT OF AGRICULTURE
DEPT OF CULTURAL RESOURCES
DEPT OF TRANSPORTATION

PROJECT INFORMATION

APPLICANT: U.S. Nuclear Regulatory Commission
TYPE: National Environmental Policy Act
Scoping

DESC: Proposal for General Electric-Hitachi Global Laser Enrichment to construction, operation, decommissioning a uranium facility - entails using a laser-based technology to separate or enrich the naturally occurring isotopes of uranium; project to be located on existing General Electric Company/Global Nuclear Fuel - Americas near Wilmington, NC

The attached project has been submitted to the N. C. State Clearinghouse for intergovernmental review. Please review and submit your response by the above indicated date to 1301 Mail Service Center, Raleigh NC 27699-1301.

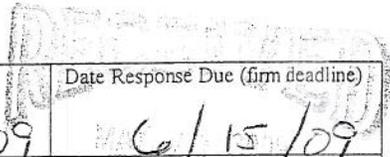
If additional review time is needed, please contact this office at (919)807-2425.

AS A RESULT OF THIS REVIEW THE FOLLOWING IS SUBMITTED: NO COMMENT COMMENTS ATTACHED

SIGNED BY: _____

DATE: _____

Department of Environment and Natural Resources
Office of Legislative and Intergovernmental Affairs
Project Review Form



Project Number 09-0336	County New Hanover	Date Received 5/20/09	Date Response Due (firm deadline) 6/15/09
----------------------------------	------------------------------	---------------------------------	---

This project is being reviewed as indicated below:

Regional Office	Regional Office Area	In-House Review
<input type="checkbox"/> Asheville	<input checked="" type="checkbox"/> Air	<input type="checkbox"/> Soil & Water <input checked="" type="checkbox"/> Marine Fisheries
<input type="checkbox"/> Fayetteville	<input checked="" type="checkbox"/> Water	<input checked="" type="checkbox"/> Coastal Management
<input type="checkbox"/> Mooresville	<input checked="" type="checkbox"/> Aquifer Protection	<input checked="" type="checkbox"/> Wildlife _____
<input type="checkbox"/> Raleigh	<input checked="" type="checkbox"/> Land Quality Engineer	<input checked="" type="checkbox"/> Forest Resources _____
<input type="checkbox"/> Washington		<input type="checkbox"/> Water Resources <input checked="" type="checkbox"/> Environmental Health
<input checked="" type="checkbox"/> Wilmington		<input checked="" type="checkbox"/> Parks & Recreation <input checked="" type="checkbox"/> Waste Mgmt
<input type="checkbox"/> Winston-Salem		<input checked="" type="checkbox"/> Water Quality <input type="checkbox"/> Radiation Protection
		<input type="checkbox"/> Air Quality <input type="checkbox"/> Other
Manager Sign-Off/Region:		Date:
		In-House Reviewer/Agency:

Response (check all applicable)

No objection to project as proposed

No comment

Insufficient information to complete review

Other (specify or attach comments)

RETURN TO:
Melba McGee
Environmental Coordinator
1601 Mail Service Center
Raleigh, NC 27699-1601

NORTH CAROLINA STATE CLEARINGHOUSE
DEPARTMENT OF ADMINISTRATION
INTERGOVERNMENTAL REVIEW

COUNTY: NEW HANOVER

H11: ENERGY RELATED
FACILITIES/ACTIVITIES

STATE NUMBER: 09-E-0000-0336
DATE RECEIVED: 05/19/2009
AGENCY RESPONSE: 06/15/2009
REVIEW CLOSED: 06/19/2009

MS RENEE GLEDHILL-EARLEY
CLEARINGHOUSE COORDINATOR
DEPT OF CULTURAL RESOURCES
STATE HISTORIC PRESERVATION OFFICE
MSC 4617 - ARCHIVES BUILDING
RALEIGH NC

RECEIVED
MAY 20 2009

HISTORIC PRESERVATION OFFICE

ER 07-2157

A- DAA
6/1/09

REVIEW DISTRIBUTION

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CC&PS - DIV OF EMERGENCY MANAGEMENT
DENR - COASTAL MGT
DENR LEGISLATIVE AFFAIRS
DEPT OF AGRICULTURE
DEPT OF CULTURAL RESOURCES
DEPT OF TRANSPORTATION

Due 6/10/09

PROJECT INFORMATION

APPLICANT: U.S. Nuclear Regulatory Commission
TYPE: National Environmental Policy Act
Scoping

DESC: Proposal for General Electric-Hitachi Global Laser Enrichment to construction, operation, decommissioning a uranium facility - entails using a laser-based technology to separate or enrich the naturally occurring isotopes of uranium; project to be located on existing General Electric Company/Global Nuclear Fuel - Americas near Wilmington, NC

The attached project has been submitted to the N. C. State Clearinghouse for intergovernmental review. Please review and submit your response by the above indicated date to 1301 Mail Service Center, Raleigh NC 27699-1301.

If additional review time is needed, please contact this office at (919)807-2425.

AS A RESULT OF THIS REVIEW THE FOLLOWING IS SUBMITTED: NO COMMENT COMMENTS ATTACHED

SIGNED BY:

Renee Gledhill-Earley

DATE:

6.2.09





North Carolina Department of Cultural Resources
State Historic Preservation Office

Peter B. Sandbeck, Administrator

Beverly Eaves Perdue, Governor
Linda A. Carlisle, Secretary
Jeffrey J. Crow, Deputy Secretary

Office of Archives and History
Division of Historical Resources
David Brook, Director

June 2, 2009

Andrea Kock
Environmental Review Branch
Division of Waste Management and
Environmental Protection
US Nuclear Regulatory Commission
Washington, DC 20555-0001

Re: Initiation of the National Historic Preservation Act Section 106 Process for General Electric-Hitachi
Global Laser Enrichment Proposed Uranium Enrichment Facility, New Hanover County, ER 07-2157

Dear Ms. Kock:

Thank you for your letter of April 29, 2009, concerning the above project. We have reviewed the relevant sections of the GLE Environmental Report and offer the following comments.

The Environmental Report offers an accurate description and assessment of the cultural resources found to be located within the Area of Potential Effect (APE) for the proposed facilities. No additional identification activities are warranted for cultural resources in connection with this project. In our letter dated April 9, 2008, to Scott Seibel of Environmental Services, Inc., we concurred with his evaluation of archaeological site 31NH801 as eligible for inclusion in the National Register of Historic Places under Criterion D and with the adequacy of his report of the investigations.

The Environmental Report states that the access road adjacent to site 31NH801 will not be widened and the project, therefore, will have no effect upon the site. We request that final plans for the proposed facility and access roads be forwarded to us for our review as soon as they are available. We also request that we be informed of the measures now being taken and those to be taken in the future to ensure protection and preservation of the site from proposed and future ground disturbing activities.

If during construction, there are unanticipated discoveries of cultural resources, we recommend that all ground disturbing activities within the vicinity cease, and our office be notified as soon as possible. If unmarked burials or human skeletal remains are encountered, compliance with the provisions of North Carolina General Statutes Chapter 70, Article 3 should be undertaken.

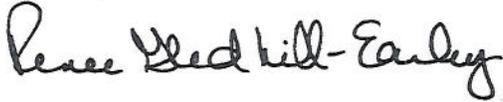
Please note that archaeological site locations are protected under the provisions of North Carolina General Statutes 70-18 and should not be made available to the public. Maps depicting site locations should not be included in environmental or other documents made available to the public, as this constitutes a risk of harm.

We look forward to working with your staff and their consultants on this project.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106 codified at 36 CFR Part 800.

Thank you for your cooperation and consideration. If you have questions concerning the above comment, please contact Renee Gledhill-Earley, environmental review coordinator, at 919/807-6579. In all future communication concerning this project, please cite the above referenced tracking number.

Sincerely,

A handwritten signature in black ink that reads "Renee Gledhill-Earley". The signature is written in a cursive style with a large initial 'R'.

Peter Sandbeck

cc: Christianne Ridge, Division of Waste Management and Environmental Protection
Clearinghouse



North Carolina Department of Administration

Beverly Eaves Perdue, Governor

Britt Cobb, Secretary

June 24, 2009

Ms. Andrea Kock
U.S. Nuclear Regulatory Commission
FSME/DWMEP/ERB
T-8F05
Washington, DC 20555-0001

Re: SCH File # 09-E-0000-0336; SCOPING; Proposal for General Electric-Hitachi Global Laser Enrichment to construction, operation, decommissioning a uranium facility

Dear Ms. Kock:

The above referenced environmental impact information has been submitted to the State Clearinghouse under the provisions of the National Environmental Policy Act. According to G.S. 113A-10, when a state agency is required to prepare an environmental document under the provisions of federal law, the environmental document meets the provisions of the State Environmental Policy Act. Attached to this letter for your consideration are **additional** comments made by agencies in the course of this review.

If any further environmental review documents are prepared for this project, they should be forwarded to this office for intergovernmental review.

Should you have any questions, please do not hesitate to call.

Sincerely,

Valerie McMillan (576)

Valerie W. McMillan, Director
State Environmental Review Clearinghouse

Attachments

cc: Region O

Mailing Address:
1301 Mail Service Center
Raleigh, NC 27699-1301

Telephone: (919)807-2425
Fax (919)733-9571
State Courier #51-01-00
e-mail valerie.w.mcmillan@doa.nc.gov

Location Address:
116 West Jones Street
Raleigh, North Carolina



North Carolina Department of Environment and Natural Resources

Beverly Eaves Perdue
Governor

Dee Freeman
Secretary

MEMORANDUM

TO: Valerie McMillan
State Clearinghouse

FROM: Melba McGee
Project Review Coordinator

RE: 09-0336 General Electric-Hitachi Global Laser Enrichment
Project in New Hanover County

DATE: June 23, 2009



The attached comments were received by this office after the response due date. These comments should be forwarded to the applicant and made a part of our previous comment package.

Thank you for the opportunity to respond.

Attachment



North Carolina Department of Environment and Natural Resources

Dexter Matthews, Director

Division of Waste Management

Beverly Eaves Perdue, Governor
Dee Freeman, Secretary

MEMORANDUM

June 16, 2009

TO: Dexter R. Matthews, Director
Division of Waste Management

THROUGH: Jack Butler, P. E., Chief, *JMB*
N. C. Superfund Section

FROM: S. Franch, Environmental Chemist, Superfund Section *S Franch*

SUBJECT: General Electric-Hitachi Global Laser Enrichment Project
(New Hanover County)

I have completed the review of the attached information on the subject project for the proximity to CERCLIS or inactive hazardous waste sites. The subject project involves the construction of a uranium enrichment facility and support facilities that uses laser-based technology to be situated on existing General Electric Company property that is located north of Wilmington, NC. This project would occupy 100 acres of the north-central section of the present property. Thirteen sites were identified within a four-mile radius of the project site. Twelve of these sites are located beyond two miles from the project. These sites are listed below and denoted on the attached map.

Five of the thirteen sites are on the CERCLIS database. They are: the Hercofina Site (NCD 990 734 055), the Northeast Chemical Company Site (NCSFN 040 6973), The VC Chemical-Almont Works Site (NC) 002 178 580), The Reasor Chemical Company Site (NCD 986 187 094), and the New Hanover County Airport Burn Pit Site (NCD 981 021 157). The latter two sites are on the National Priorities List and are located at least two miles from the project. The Hercofina site is undergoing remediation under the Registered Environmental Consultant program of the NC Inactive Hazardous Sites Branch (IHSB). The Northeast Chemical Site is undergoing remediation under CERCLA oversight. The VC Chemical-Almont Works Site is under CERCLA evaluation.

The remaining eight sites have been recently transferred from the NC Division of Water Quality (DWQ) to the NC IHSB. They are pending investigation, but have undergone evaluation under the DWQ. These sites are: APAC-Castle Hayne Asphalt Plant (NONCD 000 2779), Lowe Residence (NONCD 000 2787), Ritter Millworks Shop (NONCD 000 2404), Deutsch Relays (NONCD 000 1138), New Hanover County Wastec (NONCD 000 2198), CP&L Transformer Site (NONCD 000 1557), PCS Nitrogen (NONCD 000 2280) and the GE Site (NCD 050 409 150). The General Electric Site itself had three minor spills zones (two of chlorinated solvents; the other of uranyl nitrate and calcium fluoride) that resulted in installation of monitoring wells and soil capping under the supervision of the DWQ. It is recommended that consultations with Mr. John Walch, environmental supervisor, of the NC IHSB be initiated if there are any construction plans near these remediation areas. Attached are figures and some data pages illustrating the locations of these spill areas.

After reviewing the file information, I believe it is unlikely that the project will affect the sites or vice versa. If you have any questions, please call me at (919) 508-8455.

cc: Jim Bateson
attachments, 7 pages

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Phone: 919-508-8400 \ FAX: 919-715-4061 \ Internet: www.wastenotnc.org

One
North Carolina
Naturally

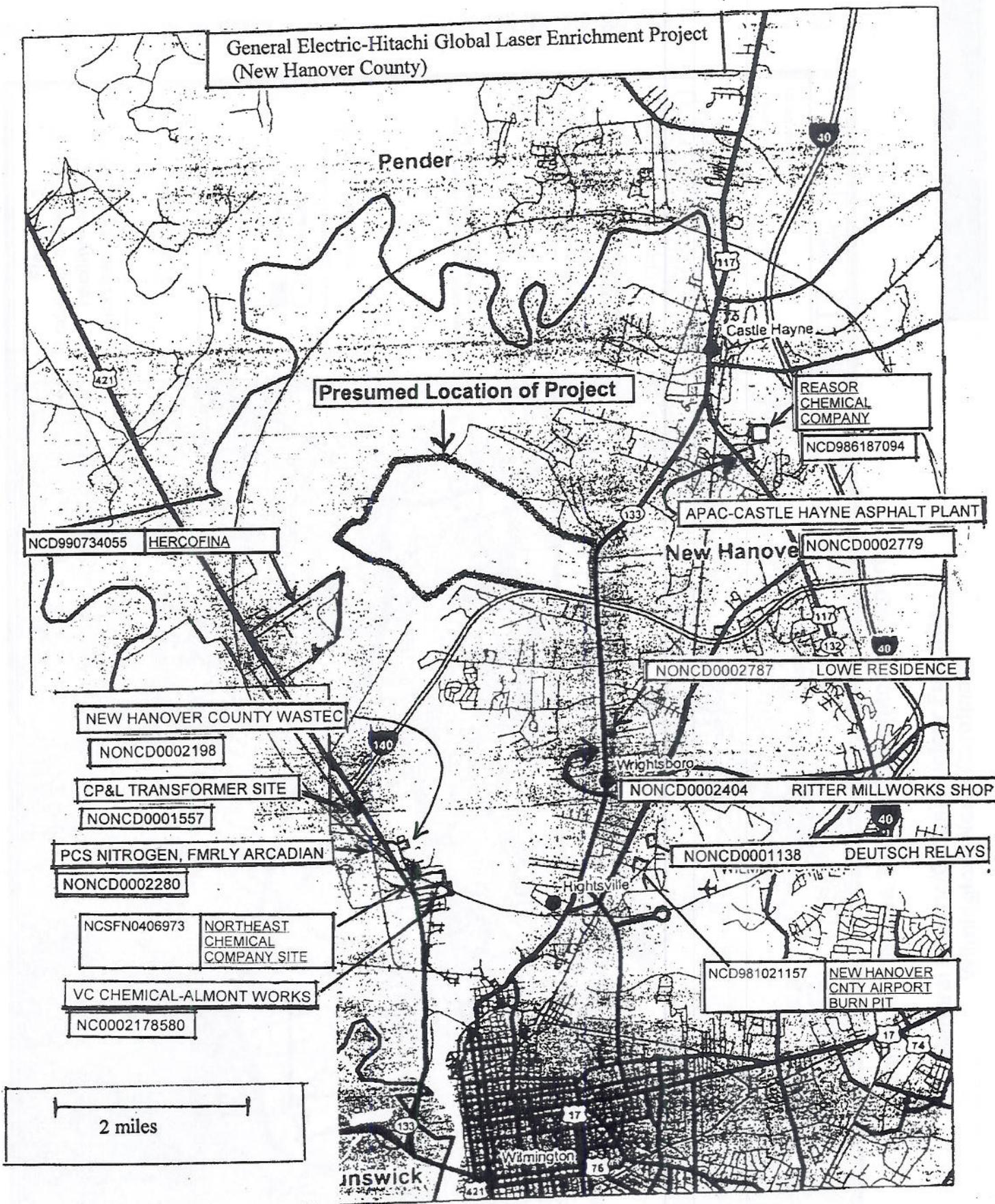


Figure ES-1. Wilmington Site location and vicinity.

**Figure 4-2
Trichloroethylene (TCE)
Distribution
February 2004**

Explanation

- Monitoring well sampling location
- △ Surface-water sampling location
- Swamp pore-water sampling location
- Approximate extent of TCE > 2.8 µg/L February 2004*
- Approximate extent of TCE > 2 µg/L August 1998*
- Surface water
- GECONF property boundary
- GECONF property
- Road or trail
- Off site
- ▨ Swampy area

* Contours delineate areas that exceed the North Carolina groundwater standard of 2.8 µg/L. The August 1998 data are shown in the Comprehensive Site Assessment.

Approximate Map Location



General Electric/Globul Nuclear Fuel
Wilmington, North Carolina

SRU INTERNATIONAL
Date: 4/13/06
Map No: 7810000017-4

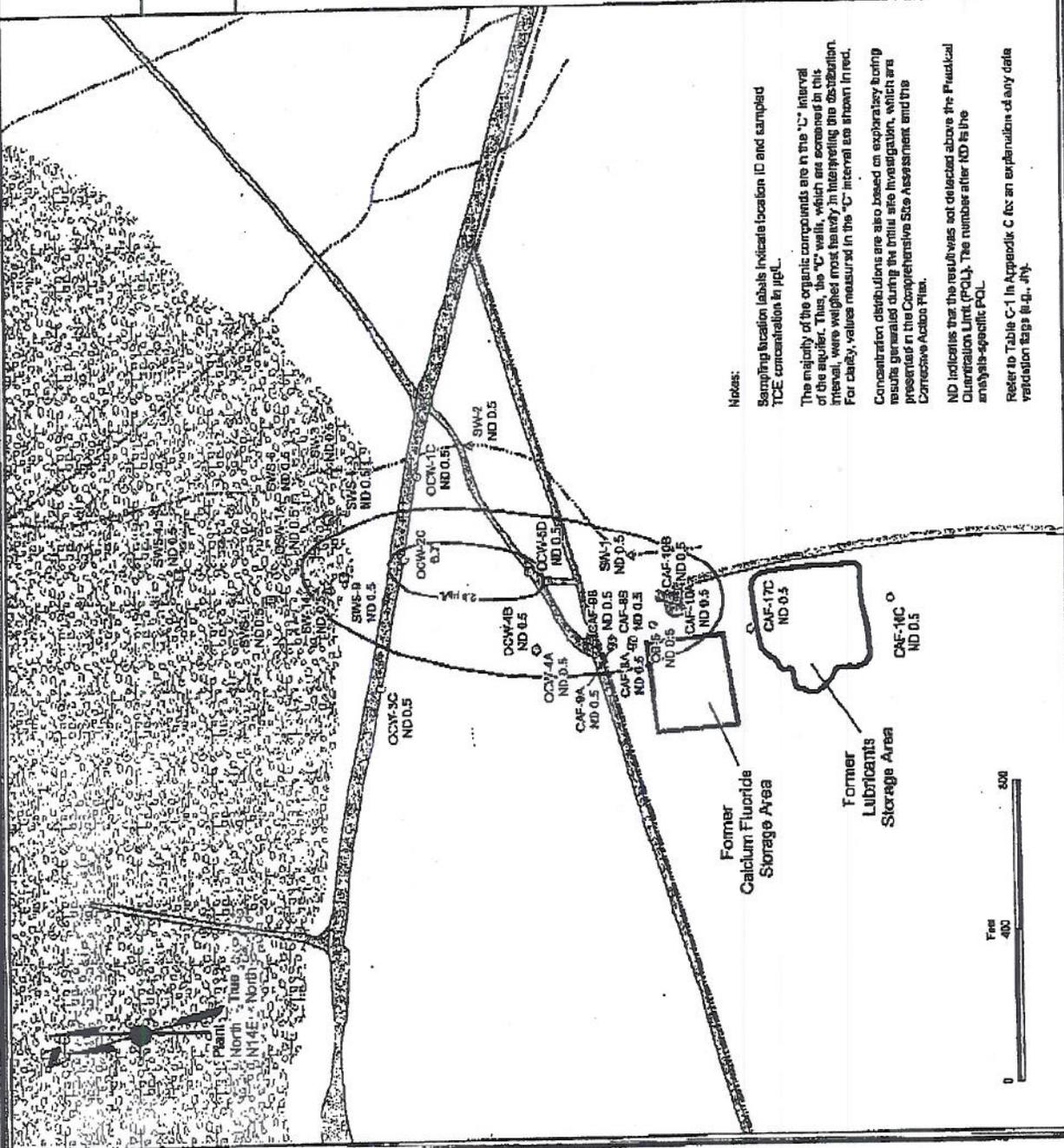


Figure 4-7 Vinyl Chloride (VC) Distribution May 2005

Explanation

- Monitoring-well sampling location
- △ Surface-water sampling location
- Swamp pore-water sampling location
- Approximate extent of VC > 0.5 µg/L, May 2005
- Approximate extent of VC > 0.5 µg/L, August 1998
- Stream
- GEGNF property boundary
- GEGNF property
- ▨ Road or trail
- ▩ Oil silt
- ▧ Swampy area

*Contours delineate areas that exceed the Practical Quantitation Limit (PQL) of 0.5 µg/L. The August 1998 data are shown in the Comprehensive Site Assessment.

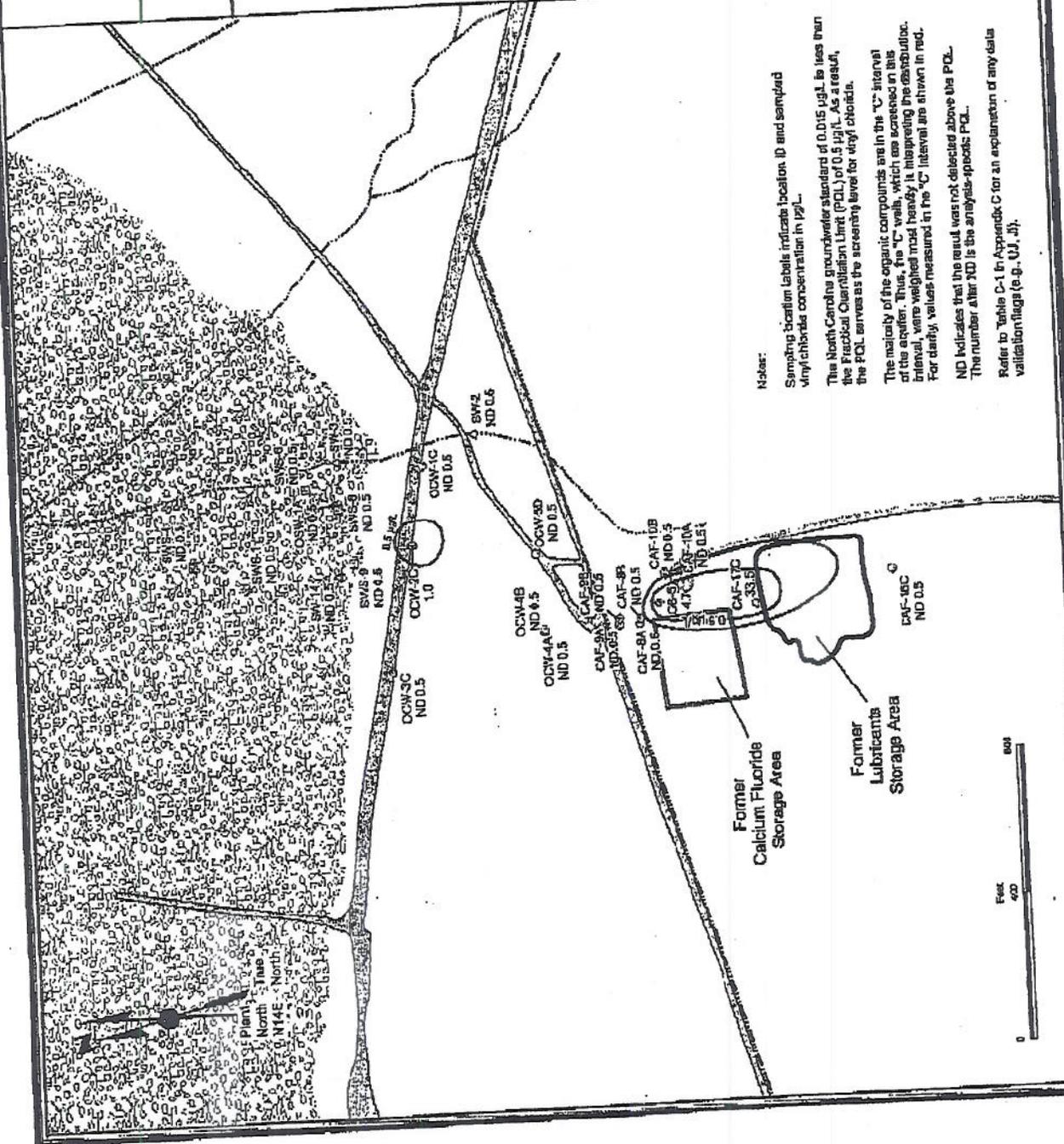
Approximate Map Location



General Electric/Chabot Nuclear Fuel
Wilmington, North Carolina

Map No:
9739D05-B

Date:
4/13/06



Notes:

Sampling location labels indicate location ID and sampled vinyl chloride concentration in µg/L.

The North Carolina groundwater standard of 0.015 µg/L is less than the Practical Quantitation Limit (PQL) of 0.5 µg/L. As a result, the PQL serves as the screening level for vinyl chloride.

The majority of the organic compounds are in the "C" interval of the equifer. Thus, the "C" wells, which are screened in this interval, were weighed most heavily in interpreting the distribution. For clarity, values measured in the "C" interval are shown in red.

ND indicates that the result was not detected above the PQL. The number after ND is the analytical-specific PQL.

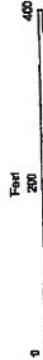
Refer to Table C-1 in Appendix C for an explanation of any data validation flags (e.g., UJ, J).

**Figure 4-9
Uranium Distribution
May 2005**

Explanation

CAF-11B Sampling location ID
0.00450 Total uranium concentration (mg/L)
0.00035 U-235 concentration (mg/L)

- Monitoring-well sampling location
- △ Surface-water sampling location
- Approximate area where measured U-235 abundance indicates non-natural uranium
- Surface water
- GE/GENF property boundary
- GE/GENF property
- ▨ Road or trail
- Off site
- ▨ Swampy area



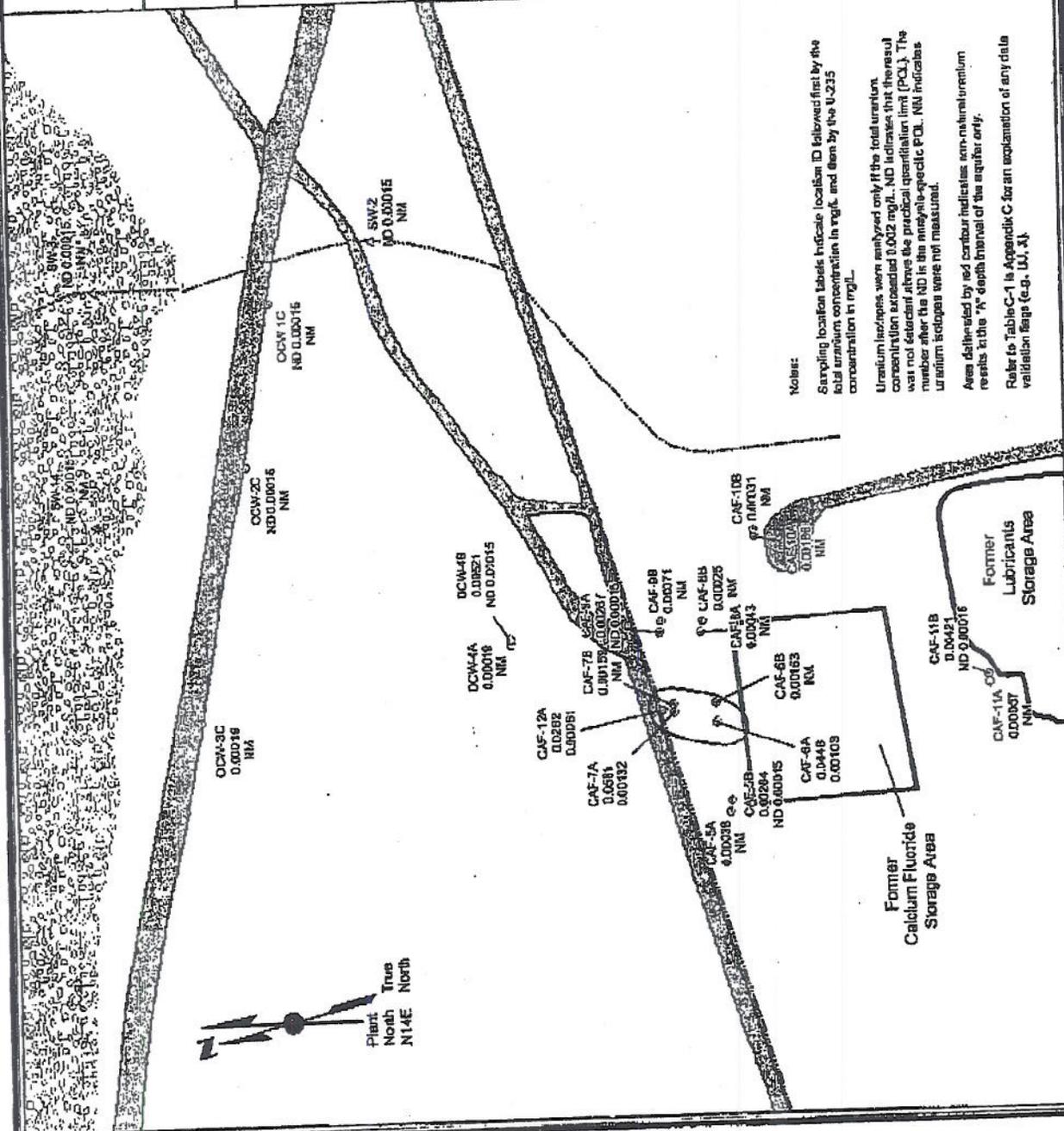
Approach to Map Location



General Electric/Global Nuclear Fuel
Wilmington, North Carolina

Map No:
9739005-7

Date:
4/7/06



Northwest Site Area 2004-2005 Report

Table 4-2. Trend Analysis Results for Primary Organic Constituents

Location ID	Corresponding Figure in Appendix D	Start Date	End Date	Mann Kendall S Statistic	Sample Count	Probability (of no trend)	Numerical Average (ug/L)	Standard Deviation (ug/L)	Coefficient of Variation	Trend
OCW-2C	D-6	1/1/1998	12/31/2004	-154	19	<0.001	21.6789	3.5282	0.1627	Decrease
SW-14	D-11	1/1/2002	12/31/2004	-6	5	0.1172	0.5600	0.0288	0.0479	Inconclusive*
CAF-17C	D-4	1/1/1998	12/31/2004	-154	20	<0.001	413.3750	83.3774	0.2017	Decrease
OB-5	D-5	1/1/1993	12/31/2004	-505	38	<0.001	228.9500	31.3493	0.1369	Decrease
OCW-2C	D-6	1/1/1998	12/31/2004	-89	19	<0.001	279.9526	33.4838	0.1196	Decrease
OSW-1A	D-9	1/1/1998	12/31/2004	129	21	<0.001	3.4343	0.2693	0.0784	Increase
SW-14	D-11	1/1/2001	12/31/2005	-23	10	0.0230	6.0500	0.3637	0.0601	Decrease
CAF-17C	D-4	1/1/2002	12/31/2004	8	5	0.0419	7.8600	1.0912	0.1388	Increase
OB-5	D-5	1/1/1998	12/31/2004	30	20	0.1757	61.8250	9.3524	0.1513	Inconclusive*
OCW-2C	D-6	1/1/2002	12/31/2005	-20	8	0.0069	66.7750	16.5021	0.2471	Decrease
SW-14	D-11	1/1/1993	12/31/2004	101	38	0.1053	5.7266	0.1980	0.0347	Increase
CAF-17C	D-4	10/1/2001	12/31/2005	-13	9	0.1089	8.0889	1.5630	0.1932	Decrease
OB-5	D-5	1/1/1998	12/31/2004	36	19	0.1121	1.1663	0.0307	0.0263	Increase
OCW-2C	D-6	2/1/2002	12/31/2005	-9	8	0.1666	1.2375	0.4022	0.3250	Decrease
SW-14	D-11	1/1/2002	12/31/2004	3	5	0.3209	0.3600	0.1968	0.5466	Inconclusive*

* A review of the data and sensitivity analysis suggests that the statistical analysis is inconclusive due to data quality limitations identified through the data validation process and/or other issues such as varying laboratory practical quantitation limits. Procedures for evaluating and presenting analytical results are outlined in an RTI Internal document (SOP 14). These procedures consider detection limits and data-validation qualifiers.

Notes:

- Statistical trend analysis was performed using the Mann-Kendall test for trend. The Mann-Kendall method is documented in Statistical Methods for Environmental Pollution Monitoring (Gilbert, 1987). For sample sizes greater than 40, the normal approximation described in Gilbert (1987) was used. For sample sizes less than or equal to 40, the Kendall's statistic lookup table was used as provided in Nonparametric Statistical Methods (Holtzman and Wolfe, 1973).
- Trends were calculated for the full dataset through 2004. More recent trends, calculated for partial datasets, are displayed in *italics*.
- Trend analyses were performed on data collected from locations with a sufficient number of datapoints for analysis (4 or more) and detectable constituent levels during the reporting period.

Table 4-3. Trend Analysis Results for Total Uranium

Location ID	Corresponding Figure in Appendix D	Start Date	End Date	Mann Kendall S Statistic	Sample Count	Probability (of no trend)	Numerical Average (ug/L)	Standard Deviation (ug/L)	Coefficient of Variation	Trend
CAF-5B	D-16	1/1/1995	12/31/2004	-390	36	<0.001	7.26E-03	8.61E-04	0.1185	Decrease
CAF-6A	D-17	1/1/1995	12/31/2004	-352	36	<0.001	1.74E-01	2.68E-02	0.1540	Decrease
CAF-6B	D-18	1/1/1995	12/31/2004	-425	36	<0.001	1.25E-02	1.82E-03	0.1462	Decrease
CAF-7A	D-19	1/1/1995	12/31/2004	-42	35	0.2814	1.13E-01	7.18E-03	0.0636	None
CAF-7B	D-20	1/1/2001	12/31/2005	-33	14	0.0396	1.32E-01	2.76E-02	0.2088	Decrease
CAF-7B	D-20	1/1/1995	12/31/2004	-238	36	<0.001	8.54E-03	1.03E-03	0.1206	Decrease
CAF-8A	D-21	1/1/1995	12/31/2004	-114	36	0.0621	7.72E-04	8.21E-05	0.1062	Inconclusive*
CAF-8A	D-21	5/1/1996	12/31/2005	-81	36	0.1391	5.05E-04	1.24E-05	0.0246	Decrease
CAF-8B	D-22	1/1/1995	12/31/2004	-376	36	<0.001	2.03E-03	2.78E-04	0.1371	Decrease
CAF-9A	D-23	1/1/1995	12/31/2004	-168	35	0.0086	8.22E-03	1.20E-03	0.1464	Decrease
CAF-9B	D-24	1/1/1995	12/31/2004	-422	36	<0.001	3.30E-03	3.99E-04	0.1207	Decrease
CAF-10A	D-25	1/1/1995	12/31/2004	233	36	<0.001	3.53E-03	7.80E-05	0.0221	Increase
CAF-12A	D-27	1/1/2003	12/31/2005	-20	8	0.0069	7.20E-03	1.32E-03	0.1837	Decrease
CAF-12A	D-27	1/1/1995	12/31/2004	-153	34	0.0119	5.54E-02	4.30E-03	0.0777	Decrease

* A review of the data and sensitivity analysis suggests that the statistical analysis is inconclusive due to data quality limitations identified through the data validation process and/or other issues such as varying laboratory practical quantitation limits. Procedures for evaluating and presenting analytical results are outlined in an RTI internal document (SOP 14). These procedures consider detection limits and data-validation qualifiers.

Notes:

- Statistical trend analysis was performed using the Mann-Kendall test for trend. The Mann-Kendall method is documented in Statistical Methods for Environmental Pollution Monitoring (Gilbert, 1987). For sample sizes greater than 40, the normal approximation described in Gilbert (1987) was used. For sample sizes less than or equal to 40, the Kendall's statistic lookup table was used as provided in Nonparametric Statistical Methods (Hollander and Wolfe, 1973).
- Trends were calculated for the full dataset through 2004. More recent trends, calculated for partial datasets, are displayed in *italics*.
- Trend analysis was performed on data collected from locations with a sufficient number of data points for analysis (4 or more), calculated ^{235}U isotopic abundance exceeding natural levels, and detectable constituent levels during the reporting period. The calculated ^{235}U abundance exceeded natural levels only once in CAF-5A, CAF-11B, and OCW-4B. These abundance calculations are anomalous, and these three wells are not included above.



North Carolina Department of Administration

Beverly Eaves Perdue, Governor

Britt Cobb, Secretary

July 15, 2009

Ms. Andrea Kock
U.S. Nuclear Regulatory Commission
FSME/DWMEP/ERB
T-8F05
Washington, DC 20555-0001

Re: SCH File # 09-E-0000-0336; SCOPING; Proposal for General Electric-Hitachi Global Laser Enrichment to construction, operation, decommissioning a uranium facility

Dear Ms. Kock:

The above referenced environmental impact information has been submitted to the State Clearinghouse under the provisions of the National Environmental Policy Act. Attached to this letter for your consideration are **additional** comments made by agencies after the review period ended.

If any further environmental review documents are prepared for this project, they should be forwarded to this office for intergovernmental review.

Should you have any questions, please do not hesitate to call.

Sincerely,

A handwritten signature in cursive script that reads "Valerie W. McMillan".

Valerie W. McMillan, Director
State Environmental Review Clearinghouse

Attachments

cc: Region O

Mailing Address:
1301 Mail Service Center
Raleigh, NC 27699-1301

Telephone: (919)807-2425
Fax (919)733-9571
State Courier #51-01-00
e-mail valerie.w.mcmillan@doa.nc.gov

Location Address:
116 West Jones Street
Raleigh, North Carolina



North Carolina Department of Environment and Natural Resources

Beverly Eaves Perdue, Governor

Dee Freeman, Secretary

MEMORANDUM

TO: Valerie McMillan
State Clearinghouse

FROM: Melba McGee 
Environmental Projects Officer

SUBJECT: #09-0336 GE-Hitachi Global Laser Enrichment LLC, New Hanover County

DATE: July 14, 2009



The attached comments were received by this office after the response due date. These comments should be forwarded to the applicant and made a part of our previous comment package.

Thank you for the opportunity to respond.

Attachment



MEMORANDUM

TO: Dexter Matthews, Director
Division of Waste Management

FROM: Dennis Shackelford, Central District Supervisor *D.S.*
Solid Waste Section

DATE: June 10, 2009

SUBJECT: Hitachi Global Laser Enrichment - New Hanover County

The Solid Waste Section has reviewed the Orange Hitachi Global Laser Enrichment - New Hanover County and has seen no adverse impact on the surrounding community and likewise knows of no situations in the community, which would affect the project.

Hitachi Global should make every feasible effort to minimize the generation of waste, to recycle materials for which viable markets exist, and to use recycled products and materials in the development of this project where suitable. Any waste generated by this project that cannot be beneficially reused or recycled must be disposed of at a solid waste management facility permitted by the Division. The nearest permitted facilities to the project are the New Hanover County MSW landfill (permit 65-04) and WASTEC incinerator (65-05I), however supporting documents note that their production waste will go to other uranium conversion facilities.

Questions regarding solid waste management should be directed to Mr. Wes Hare, Environmental Senior Specialist, Solid Waste Section, at (910)796-7405.

cc: Wes Hare



North Carolina Department of Environment and Natural Resources
Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

May 29, 2009



To: Dexter Matthews, Director
Division of Waste Management

From: Ted Cashion, Supervisor
Eastern Region Compliance Branch

RE: RCRA comments on the GE-Hitachi Global Laser Enrichment LLC (GLE) Environmental Report
Project # 09-0336

The Hazardous Waste Section has reviewed the subject project. GE-Hitachi Global Laser Enrichment LLC (GLE) proposes to construct and operate a facility that would use a laser-based technology to separate or enrich the naturally occurring isotopes of uranium. GLE proposes to locate the proposed GLE Facility on the existing General Electric Company (GE)/Global Nuclear Fuel-Americas property near Wilmington, NC. The proposed facility would occupy ~100 acres.

The report states a combination of environmental control systems, treatment processes, monitoring programs, and work practices to protect workers, public health, and the environment would be utilized. Any gaseous releases would be captured and routed through a multi stage air emission control system. Liquid radiological wastewater would be collected in a closed, dedicated drain system connected to a GLE liquid effluent treatment system. Sanitary wastewater, cooling tower process wastewater, and treated radwaste would be routed to the existing permitted wastewater treatment facilities. Solid wastes would be managed according to applicable regulations and good management practices, and would be shipped offsite for recycling, recovery, or disposal to a licensed facility.

The Divisions of Air Quality, Water Quality, and Radiation Protection should be consulted for comments and possible permitting implications on this project as well.

Solid waste appears to be the most likely waste to be generated in constructing this project. The facility is reminded that if construction, rebuilding, or demolition of structures occurs, the waste that is generated will most likely be a solid waste, and the facility must determine if the waste is a hazardous waste.

It appears that very little hazardous waste, if any, will be generated from this proposed facility. The facility is reminded that if the facility generates >220 pounds of hazardous waste in a calendar month, the Hazardous Waste Section (HWS) must be notified, and the facility must comply with the small quantity generator requirements. If the facility generates \geq 2200 pounds of hazardous waste in a calendar month, the HWS must be notified, and the facility must comply with the large quantity generator requirements.

The Hazardous Waste Section has no objection to the draft plan.

Should any questions arise, please contact me at 919-508-8557.