



Westinghouse Electric Company  
Hematite Facility  
3300 State Road P  
Festus, MO 63028

March 5, 2003

FOIA/Privacy Act Officer  
U.S. Nuclear Regulatory Commission  
Mail Stop T-6 D8  
Washington, DC 20555-0001

**FOIA/PA REQUEST**  
Case No: 2003-0193  
Date Rec'd: 3-7-03  
Action Off: Karen Ann Craig  
Related Case: \_\_\_\_\_

Subject: Request for Documentation under the Freedom of Information Act

Under the Freedom of Information Act, Westinghouse Electric Co. is submitting this request for records pertaining to the Westinghouse Hematite Facility. Westinghouse has been in discussions with Mr. George (Mike) McCann and Magdalena Dziejczak from the Region III Decommissioning Branch concerning records they have. Mr. McCann and Ms. Dziejczak have provided us the attached list of records in their possession. Westinghouse has searched our files and requests those documents from Region III highlighted on the list that we do not have in our records.

If you have any questions concerning the information we have requested, please contact me at the above address, e-mail at [karen.craig@us.westinghouse.com](mailto:karen.craig@us.westinghouse.com), or call at (636) 937-4691 x306.

Sincerely,

A handwritten signature in cursive script that reads "Karen Ann Craig".

Karen Ann Craig  
QA/Licensing Manager

cc: Hematite Document Control

WESTINGHOUSE ELECTRIC COMPANY, LLC  
Hematite Facility, Festus, MO

License No.: SNM-00033

Docket No.: 070-00036

INVENTORY OF RECORDS TRANSFERRED FROM THE NRC FUEL CYCLE FACILITIES BRANCH ON MAY 29, 2002, TO NRC REGION III DECOMMISSIONING BRANCH

**FOLDER #1**

March 8, 1999

Leggette, Brashears & Graham, Inc., *Combustion Engineering Hydrogeologic Investigation and Ground-water, Soil and Stream Characterization for the Combustion Engineering, Hematite, Missouri Site*

May 14, 1999

NRC memo from Acting Chief, Licensing Branch, titled: *Review Comments on Combustion Engineering, Inc., Hydrogeologic Work Plan First Quarter Report*

March 9, 1999

CE transmittal letter from to NRC titled: **Hydrological Work Plan First Quarter Report**

**FOLDER #2**

April 28, 1998

*Hydrogeologic Investigation and Groundwater/Surface Water Monitoring Work Plan for the Combustion Engineering, Hematite Missouri Site.* Revision 1

June 17, 1998

Letter from Licensing Branch, DFCSS, to CE, indicating "The staff has determined that the results of the field work specified in the Plan should provide a reasonable hydro geological characterization of the site, which will enable you to determine appropriate decommissioning actions for the 10 CFR 20.304 burial area at your facility.

Nov. 21, 1997

Letter from NRC to CE outlining actions to be taken by licensee to characterize the former 10 CFR 20.304 burials. It outlined a schedule for the licensee to follow.

**FOLDER #3**

CE Hematite's License Amendments SNM-33, 070-36 "Ed Flack's copies. Table of contents indicates Amendments 1-38.

**FOLDER #4**

Oct. 29, 1993 Combustion Engineering, Inc. License application Revision 0, License SNM-33, 070-36. (white binder top shelf).

**FOLDER #5**

Sept. 28, 1998

Briefing Package on Emergency Preparedness **Combustion Engineering, Inc.**, Hematite Nuclear Fuel manufacturing, Hematite, Missouri. Containers excerpts from the Hematite's Emergency Plan.

**FOLDER #6**

May 26, 1999

Combustion Engineering, **Second Sampling Event Report In Conjunction with the Hydrogeologic Investigation and Ground-Water, Soil and Stream Characterization, May 26, 1999.**

Nov. 23, 1999

Fourth Sampling Event Reporting Conjunction with the **Hydrogeologic Investigation and Ground-Water, Soil, and Stream Characterization.**

Aug. 29, 2000

NRC letter to licensee outlining issues identified with the 4<sup>th</sup> quarter sampling report.

**FOLDER #7**

June 25, 2001

NRC letter to Westinghouse, **CANCELLATION OF CE NUCLEAR POWER STANDBY TRUST AGREEMENT.** Letter indicates that the March 6, 2002 replacement FA acceptable. Also, it informs licensee that FA maintained in NRC Region I.

May 2, 2001

NRC letter to the licensee. **Westinghouse Electric Company LLC Financial Assurance documents for the Hematite Facility (TAC No. L31489)**

April 23, 2001

NRC memo from Facilities Decommissioning BRANCH, NMSS/DWM to Acting Chief, Fuel Cycle Licensing Branch, NMSS/GCSS. Memo indicates Name Change, FA acceptable, and that records will be maintained in Region I.

April 3, 2001

NRC letter to licensee. **CE nuclear power llc (tac no. l31489)- acceptance of amendment application.**

March 27, 2001

Licensee amendment letter. **Application for Transfer and Amendment of Materials License SNM-33-Submittal of Corrected Pages for Executed Decommissioning Financial Assurance Documents**

**FOLDER #8**

Feb. 28, 2001

NRC license acceptance letter.

**FOLDER 9**

March 28, 2001

NRC letter **CONSENT TO TRANSFER NUCLEAR POWER LLC LICENSES, QUALITY ASSURANCE PROGRAM APPROVALS, AND CERTIFICATES OF COMPLIANCE (TAC NOS.L31468 AND L31469)**

Feb. 28, 2001

NRC acceptance letter RE: **Application, transmitted by letter dated February 16, 2001, requesting approval of the transfer and amendment of the Materials License 06-30561-01 from Combustion Engineering Nuclear Power LLC to its parent, Westinghouse Electric Company LLC.**

Feb. 16, 2001

Licensee letter to NRC RE: **Application for Transfer and Amendment of License No. 06-30561-01**

**FOLDER #10**

June 11, 2001

NRC letter **Westinghouse electric Company LLC (TAC No. L31516) Acknowledgment of Receipt of Amendment for Organizational Changes**

**FOLDER #11**

Feb. 16, 2001

License Amendment #37 (TAC# L31469)  
Westinghouse letter/application for Transfer and Amendment of Materials License SNM33

March 6 & 27, 01

Letters indicate. Please be advised that the revised decommissioning cost estimate, and executed standby letter of credit and standby trust agreement, submitted with your letters dated March 6, and 27, 2001, remain under review as a separate matter. Until such time as U.S. Nuclear Regulatory Commission (NRC) approves alternative financial assurance for decommissioning, the current guarantee remains in effect.

March 16, 2001

Federal Register Notice indicating NRC anticipation of approving change of ownership.

March 28, 01

NRC letter Subject: **CONSENT TO TRANSFER CE NUCLEAR POWER LLC LICENSES, QUALITY ASSURANCE PROGRAM APPROVALS, AND CERTIFICATES OF COMPLIANCE (TAC NOS. L31468 AND L31469)**

April 5, 2001

Westinghouse letter requesting amendment to transfer licenses, QA Program, etc.

April 10, 2001

NRC Amendment No. 37 Cover letter, which amended license to reflect new company name.

April 10, 2001 License amendment 37 and SER. Indicates name change, the only issue.

**FOLDER #12**

March 21, 2001 Westinghouse letter "Request for Delay in Starting Physical Inventory.

April 2, 2001 NRC letter "CE NUCLEAR POWER LLC (TAC NO. L31490)-ACCEPTANCE OF AMENDMENT APPLICATION FOR DELAY IN STARTING 2001 SNM PHYSICAL INVENTORY"

May 7, 2001 NRC cover transmitting **Amendment 38**, Amendment 38 and associated SER. Granted a one time delay in performance of physical inventory.

**Folder #13**

**AMENDMENT No.42 (TAC L31556) LICENSE SCOPE CHANGE**

Sept. 11, 2000 NRC letter accepting CE's Notification and request to delay submission of Decommissioning Plan.

October 10, 2000 CE letter providing a schedule for characterization of site and final submission of Decommissioning Plan. Commits to submitting plan by April 2004.

June 7, 2000 Licensee letter, Subject: "10 CFR 70.38 (d)(2) notification"

CE Nuclear Power LLC has announced its current plan to cease principle activities. Because of the uncertainty surrounding the timing of implementation of the plan, CE hereby requests an alternate schedule.

May 11, 2001 License letter, Subject: "Submittal of License SNM033 Pages-Downgrade, Organization Changes"

May 30, 2001 NRC letter SUBJECT: WESTINGHOUSE ELECTRIC COMPANY LLC **AMENDMENT 39** - PLAN FOR COMPLETION OF CSPU ANALYSES (TAC NO. L31467), AND DECOMMISSIONING PLAN (TAC NO. L31466) FOR THE HEMATITE FACILITY Transmitted Amendment 39, and SER.

August 2, 2001 Westinghouse Electric Letter amendment request "Revised Submittal of License SNM-33-Pages - Downgrade, Organization Changes"

August 30, 2001 "Questions and concerns raised at the Regulators' (NRC and State of Missouri) meeting at Jefferson City, MO on August 30, 2001.

Sept. 18 2001 Licensee letter "Submittal of Application for Change of License Fee Category for License Number SNM-33 (Docket 70-36)"

October 2, 2001 License letter, Subject: "Update of Westinghouse Electric Company LLC, Listing of Authorized Individuals for Hematite Facility"

October 15, 2001 NRC License Amendment Cover Letter: SUBJECT: WESTINGHOUSE ELECTRIC COMPANY LLC - **AMENDMENT 40** -RGANIZATIONAL CHANGES, AND DELETION AND MODIFICATION OF CERTAIN COMMITMENTS IN MATERIALS LICENSE SNM-33 FOR THE HEMATITE FACILITY (TAC NO. L 31533)

Dec. 17, 2001 NRC staff memo  
Discussed basis for transfer from FCSS to DWM. Also, discussed critically issues, i.e.,

Dec. 18, 2001 NRC letter, Subject: Westinghouse Electric Company LLC (TAC NO. L31556) Acknowledgement of Receipt at the Hematite Facility and Amendment Application to Change the Scope of Licensed Activities to Decommissioning Activities"

January 11, 2002 NRC Memorandum, **FORMAL TRANSFER OF ABB PROSPECTS INC. SNM-1067 LICENSE FROM THE DIVISION OF FUEL CYCLE SAFETY AND SAFEGUARDS TO THE DIVISION OF WASTE MANAGEMENT.**

February 14, 2002 NRC Fee's letter to Westinghouse indicating that they will now charge the licensee full cost recovery charges since they are now in decommissioning.

April 11, 2002 ELECTRIC COMPANY, LLC - HEMATITE, **AMENDMENT 42** (TAC NO. L31556) TO CHANGE THE SCOPE OF LICENSED ACTIVITIES TO THE PERFORMANCE OF DECOMMISSIONING ACTIVITIES  
This has attached Amendment 42 and SER.

May 10, 2002 NRC Memorandum, SUBJECT: TRANSFER OF WESTINGHOUSE ELECTRIC COMPANY, LLC - HEMATITE FACILITY PROJECT MANAGEMENT TO THE DIVISION OF WASTE MANAGEMENT

April 18, 2002 NRC letter informing the licensee of receiving a copy of a RI/FS Work Plan for the Hematite site, which was transmitted to the State of Missouri. NRC will not review the plan. However, it recognizes that the plan is an important tool to prepare the DP.

May 29, 2002 NRC memo informing of a transfer of the NRC project manager to Decommissioning branch from FCSS and as a result, all the correspondence files for the Hematite facility are being transferred to Region III.

**FOLDER #14.**

**Folder A- Amendment No. 41 (TAC L31568)**

April 15, 2002 SUBJECT: WESTINGHOUSE ELECTRIC COMPANY, LLC - HEMATITE, AMENDMENT 41 (TAC NO. L31568) TO AUTHORIZE EXEMPTION TO FISSILE MATERIAL CLASSIFICATION AND PACKAGE STANDARDS IN TRANSPORT  
NRC letter to CE granting an amendment to license No. SNM-33, Copy of the Materials License, SNM-33, Safety Evaluation Report, Environmental Assessment

Nov. 2, 2001 NRC Memorandum, SUBJECT: PROPOSED SAFETY EVALUATION REPORT FOR EXEMPTION TO FISSILE MATERIAL CLASSIFICATION AND PACKAGE STANDARDS IN TRANSPORT AND AMENDMENT TO MATERIALS LICENSE SNM-33  
Attached is the Proposed Safety Evaluation Report (2 copies, original and Adams copy)

Oct 24, 2001 Licensee letter, SUBJECT: SUBMITTAL OF ADDITIONAL INFORMATION TO SUPPORT APPLICATION FOR LICENSE EXEMPTION FOR TRANSPORTATION OF FISSILE MATERIALS, LICENSE NO. SNM-33 Attached is a list of new revisions and the 2<sup>nd</sup> revision of the full document: Application for License Exemption for the Transportation of Fissile Materials, License No. SNM-33.

Sept 18, 2001 NRC letter to CE with a Request for Additional Information regarding exemption for transport of certain fissile materials

August 15, 2001 Licensee letter, SUBJECT: SUBMITTAL OF APPLICATION FOR LICENSE EXEMPTION FOR THE TRANSPORTATION OF FISSILE MATERIALS, LICENSE NO. SNM-33(DOCKET 70-36)  
Attached is the full document (the application)

Aug. 30, 2001 NRC/MDNR-Hematite Site Meeting-Attendance Record

Feb. 15, 2002 Fax notifying of the request to change authorized activities and SER will be sent separate.

Sept. 18, 2001 Licensee letter, Subject: Submittal of Application for Change of License Fee Category for License No. SNM-33

Sept. 21, 2001 Licensee Letter, SUBJECT: SUBMITTAL OF ADDITIONAL INFORMATION TO SUPPORT APPLICATION FOR LICENSE EXEMPTION FOR TRANSPORTATION OF FISSILE MATERIALS, LICENSE NO. SNM-33, TAC No. L2336 Attached is a list of revisions to the original application, the 1st revision of the full document: Application for License Exemption for the Transportation of Fissile Materials, License No. SNM-33, and the Westinghouse response to NRC letter dated Sept 18, 2001.

July 26, 2001 Communication Plan for CE Nuclear Power Llc- Hematite

Nov. 20, 2001 NRC letter to CE that acknowledges the submission of the additional information transmitted by the letter dated Oct. 24, 2001

**Folder B**

Aug. 9, 2001 NRC letter, SUBJECT: WESTINGHOUSE ELECTRIC COMPANY (HEMATITE) ACKNOWLEDGMENT OF RECEIPT OF AMENDMENT APPLICATION REGARDING ORGANIZATION CHANGES AND DOWNGRADING OF LICENSE

**Folder C-Hematite/NRC Issues**

NRC Organizational charts- Region III

Aug. 27, 2001 NRC Letter to State of Missouri on assurance of cooperation in decommissioning the Hematite site.

Sept. 27, 2000 DNR letter to NRC: contains thank you notes for the opportunity to meet with NRC and encloses a copy of the Hematite Radioactive Groundwater Site Inspection Report prepared by the department under a cooperative agreement with EPA.

Jul. 23, 2001 DNR letter NRC requesting NRC to share any correspondence on the Hematite facility with DNR and listing a number of issues that still need to be addressed in the decommissioning effort.

July 9, 2001 DNR letter to Westinghouse on the department's concern regarding the quality and usability of the radiological data generated during the last inspection and the need to address these issues to prevent data quality problems in future sampling events.

Oct. 19, 2000 DNR letter to Westinghouse: a copy enclosed of the Hematite Radioactive Groundwater Site Inspection Report prepared by the department under a cooperative agreement with EPA to collect info to assess threats to human health.

Decommissioning Opportunities for Public Input/slides.  
NRC Decommissioning Process Overview/slides.

April 25, 2000 NRC letter to ABB-CE Nuclear Power, Inc. on the NRC performance review of the licensed activities between Feb. 1, 1998 to Dec. 31, 1999 indicating program strengths and weaknesses.

April 20, 1994 Environmental Monitoring Program-Data Collection and Analysis report on the conditions at the Hematite facility.

Sept. 29, 1998 Joachim Creek Monitoring-Sample data report on the radioactivity at the Hematite site.

Jan. 26, 1998 NRC letter to Combustion Engineering, SUBJECT: AMENDMENT REQUEST TO UPDATE THE DECOMMISSIONING PLAN FOR THE HEMATITIE EVAPORATION PONDS (TAC NO. L30981); NCR amends license SNM-33 to authorize an update to the Hematite Evaporation Ponds Decommissioning Plan. Attached is a copy of the license

Jan. 26, 1998 NRC Safety Evaluation Report: Application Dated May 30, 1997. Update of the decommissioning Plan for the Hematite Evaporation Ponds-the document discusses the background of the site, discussion, and environmental review.

May 4, 1995 NRC letter to Combustion Engineering regarding the notification that license SNM-33 was amended to incorporate the Hematite Evaporation Ponds Decommissioning Plan., attached is a materials license

Sept. 20, 2000 DNR letter to Combustion Engineering. DNR reviewed the Hydrogeologic Investigation and Groundwater, Soil and Stream Characterization Report and the 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> sampling reports prepared by Leggette, Brashears, and Graham, Inc. for the Hematite facility and decided that the reports were not complete. In its letter, DNR identified and described all the missing components and requested a written response to the letter.

**FOLDER #15.**

NRC/Hematite2000 Correspondence

Sept. 20, 2000 DNR letter to Combustion Engineering. DNR reviewed the Hydrogeologic Investigation and Groundwater, Soil and Stream Characterization Report and the 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> sampling reports prepared by Leggette, Brashears, and Graham, Inc. for the Hematite facility and decided that the reports

- were not complete. In its letter, DNR identified and described all the missing components and requested a written response to the letter.
- Sept. 11, 2000 NRC letter acknowledging the submission of the Hematite Decommissioning Plan to be postponed to a later date of November 1, 2000.
- Aug. 31, 2000 NRC letter advising the licensee of some changes that were being made in the Fuel Cycle Licensing Branch procedures, in an effort to streamline the review process and make it more efficient.
- Aug. 31, 2000 NRC letter, SUBJECT: DELETE LICENSE AND LICENSE APPLICATION COMMITMENTS (TAC NO. L31356)  
License, SNM-33 has been amended to delete certain commitments since the plant is planning to shut down manufacturing operations over approximately the next 18 months.  
Enclosed are copies of the revised Materials License SNM-33, and Safety Evaluation Report, which includes the Categorical Exclusion determination.
- Aug. 29, 2000 NRC letter to the licensee. NRC reviewed the "Fourth Sampling Event Report in conjunction with the Hydrogeologic Investigation and Groundwater, Soil and Stream Characterization" (4th Quarter Report) for the Hematite facility and decided that the report was not complete. In its letter, NRC identified and described all the missing components and advises the licensee to consider these concerns at the time when the DP is developed. Attached is a Technical Evaluation Report.
- July 26, 2000. NRC letter, SUBJECT: EXTENSION OF A DUE DATE FOR THE UPDATE OF LICENSE SNM-33 DEMONSTRATION SECTIONS. The license requires to update the demonstration sections. Since NRC received a request to amend and delete this requirement a month before the update was due and did not complete amending the license, the agency granted the extension of the due date.
- July 19, 2000 The licensee's letter requesting to extend the due date for update of license SNM-33 demonstration sections. The update was a license requirement.
- July 13, 2000 NRC letter granting Material License SNM-33 an amendment regarding a name change from ABB C-E Nuclear Power, Inc to CE Nuclear Power LLC. Also License Safety Condition S-1 has been revised. Attached is a copy of the license and a Safety Evaluation Report
- June 16, 2000 NRC letter to Attorney General of State of Missouri, DNR, a private citizen, and the licensee in response to the Attorney General and

individuals concern regarding the sale of the ABB Nuclear Power to the a British Nuclear Fuels. NRC ensures that the transfer of the license will not effect the health and safety of the public.

- May 25, 2000 Licensee letter to the Attorney General of State of Missouri ensuring him the sale of the ABB Nuclear Power/Hematite facility will not have an effect on the public and all the obligations and commitments are still valid under the new licensee.
- June 6, 2000 Licensee letter notifying NRC that CE Nuclear Power LLC has announced its current plan to cease principal activities at the Hematite site. Also, because of the uncertainty on the time when this the activities will cease, CE requests the schedule for the submission of DP to be moved to Nov. 1, 2000.
- June 2, 2000 Licensee letter requesting an amendment due to the scaling down of the manufacturing operations. Attached is a list of the proposed changes relating to ISAs, license updates, environmental monitoring and the former retention ponds.
- May 19, 2000 Memorandum. Subject: Technical Assistance Request regarding the CE Nuclear Power, Inc., Fourth Quarter Hydrological Report
- May 22, 2000 Meeting notice to the CE Nuclear Power Inc to discuss licensing actions related to the closing of the facility.
- May 22, 2000 ABB letter requesting an amendment of License SNM-1067 to allow a 5 year extension.
- May 3, 2000 NRC letter acknowledging the receipt of the Criticality Safety Update semi-annual Status Report (TAC No. L31332). NRC agrees that an ISA for the storage units is not needed and that the Fuel Assembly Storage Rack and Rod Storage Matrix calculations are complete.
- April 27, 2000 NRC letter acknowledging the licensee rescinding his request on time extension of the annual physical Inventory.
- April 13, 2000 CE Nuclear Power LLC letter to NCR advising of the submission of the final version of the decommissioning financial assurance documents as a result of the sale of ABB to the British Nuclear Fuels. Attached is the document.
- April 17, 2000 NRC letter to ABB agreeing to the transfer of control over the Hematite site from the ABB Nuclear Power to British Nuclear Fuel.

April 12, 2000 CE Nuclear Power LLC letter to NRC requesting the transfer of the license SNM-33 from ABB to the above company and ensuring to abide by ABB commitments to NRC

April 12, 2000 ABB C-E Nuclear Power letter withdrawing the request for time request for conducting Annual physical Inventory.

April 12, 2000 ABB C-E Nuclear Power letter notifying NRC of a minor change to the name of the transferee from C-E Nuclear Power LLC to CE Nuclear Power LLC

April 7, 2000 ABB C-E Nuclear Power letter notifying NRC of the enclosed ninth status report on the Criticality Safety Update covering the period Oct. 1, 1999 to March 30, 2000. (Report attached)

April 22, 2000 ABB C-E Nuclear Power letter requesting for an alternate schedule for decommissioning of the former evaporation ponds (TAC 31313) due to specific factors (pending acquisition of the Hematite facility by BNFL, other agency's regulations) beyond the control of the licensee . The proposed date is Oct. 31, 2000

April 4, 2000 ABB C-E Nuclear Power letter informing NRC of the new name; C-E Nuclear Power with the acquisition of the ABB by BNFL.

March 30, 2000 ABB C-E NP reply to a notice of violation issued Feb. 7-11, 2000 regarding the failure of employees to monitor their hands and other parts of the body prior to exiting a contamination control area

March 29, 2000 Memorandum, Subject: Notice of Consideration of Approval of Transfer of Facility License and Confirming Amendment and Opportunity for Hearing (TAC L31326)

March 29, 2000 NRC letter notifying the licensee of an enclosed copy of the Notice of Consideration of Approval of Transfer of Facility License and Confirming Amendment and Opportunity for Hearing which is being forwarded to the Office of the Federal Register for publication.

March 28, 2000 ABBCENP letter requesting the transfer of the export licenses to WAC LLC which is an indirect, wholly- owned subsidiary of BNFL.

March 15, 2000 Shaw Pittman ( a Law Partenship Including Professional Corporations) letter notifying NRC of some signatures on the March 10, 2000 ABB C-ENP application for transfer and Amendment of Licenses SNM-33, SNM-1067, and 06-00217-06 being facsimiles.

March 23, 2000 NRC letter to ABB C-ENP ordering the licensee to submit an amendment request if the licensee is planning to change the pond decommissioning effort to uranium recovery operation or request an alternate schedule for decommissioning of the ponds since the 24-month completion period for pond decommissioning has ended in February, 2000.

March 13, 2000 NRC letter notifying the licensee of the license SNM-33 to be amended as to the name change of ABB CENP to ABB C-E Nuclear Power. Enclosed are copies of the revised license.

March 14, 2000 ABB C-ENP letter requesting for time extension(June 30, 2000 instead April) for conducting annual physical inventory. The delay was a result of a strike at the facility and personnel shortage.

March 8, 2000 NRC Meeting Notice to discuss the BNFL acquisition of the ABB /CE.

Feb. 25, 2000 ABB C-ENP letter expressing the licensee's preference to stay in the Round Robin Program and have the NRC as both the program manager and contract administrator.

Feb. 24, 2000 NRC letter acknowledging the receipt of the ABB C-E Criticality Program Update covering the period from April 1, 1999 through Sept. 30, 1999

Feb. 3, 2000 NRC letter granting the licensee an amendment to allow for the temporary change to UF6 Receipt Sampling Procedure. Enclosed are the revised license and the Safeguards Evaluation Report.

Feb. 2, 2000 ABB C-ENP letter updating NRC on the status of the evaporation ponds and requesting additional time to resolve decommissioning issues associated with the ponds. The pending acquisition of the Hematite facility by BNFL and the uncertainty in future operation raise questions on the methods used for clean-up of the ponds. The issues should be resolved by mid 2000.

Feb. 9, 2000 NRC letter notifying the licensee of the NRC intent to place a copy of this letter and its enclosures in the public Document Room. The enclosures refer to the meeting (Jan. 18, 00) between the NRC and the licensee and contain copies of the presentation on self-assessment process. Work control, maintenance process, safety procedures, training and emergency preparedness.

Feb. 7, 2000 NRC Meeting Notice to discuss the BNFL acquisition of the ABB /CE.

Jan. 28, 2000 Licensee letter with an amendment request to change licensee name and submitting application pages that reflect any name change

Jan. 4, 2000 NRC letter notifying the licensee of a scheduled meeting in at the NRC, Region III office on Jan. 18, 2000.

**FOLDER #16**

**Amendments to License SNM-33**

- Aug. 31, 2000 NRC letter amending license SNM-33 in response to the licensee's letter dated June 2, 2000, an deleting certain commitments as the pond decommissioning can be included in the general site decommissioning plan. Enclosed is the revised license and Safety Evaluation Report. TAC No. L31356
- July 13, 2000 NRC letter granting an amendment to change the name from ABB C-E Nuclear Power, Inc to CE Nuclear Power LLC. Attached are the revised license and the Safety Evaluation Report. TAC No. L31322
- March 13, 2000 NRC letter granting an amendment to change the name from ABB Combustion Engineering Nuclear Power, Inc to ABB C-E Nuclear Power, Inc. Attached are the revised license and the Safety Evaluation Report. TAC No. L31309
- Feb. 3, 2000 NRC letter granting the licensee an amendment to allow for the temporary change to UF6 Receipt Sampling Procedure. Enclosed are the revised license and the Safeguards Evaluation Report. TAC No. L31298
- Dec. 17, 1999 NRC letter granting the licensee an amendment to allow the use of neutron absorbers contained in fuel pellets in criticality safety evaluations. Enclosed are the revised license and the Safety Evaluation Report. TAC L31281
- Dec. 2, 1999 NRC letter granting the licensee an amendment requiring the licensee to follow the physical protection plan entitled, "Physical Security Plan for Protection of nuclear Material of Low Strategic Significance," Revision 4. Enclosed are the revised license and the Safeguards Evaluation Report. TAC L31254
- Oct. 19, 1999 NRC letter granting the licensee an amendment to allow the requested time extension (till Oct. 19, 99) to certain Commitment in the Fundamental Nuclear Material Control Plan regarding a temporary change to UF6 receipt sampling procedure. Enclosed are the revised license and the Safeguards Evaluation Report. TAC No. L31252
- Aug 19, 1999 NRC letter granting an amendment to change the name to ABB Combustion Engineering, Inc from ABB Combustion Engineering Nuclear

- Power, Inc". Attached are the revised license and the Safety Evaluation Report. TAC No. L31224
- June 23, 1999 NRC letter granting an amendment to transfer and amend any materials licenses, quality assurance program approval, and certificates of compliance from "Combustion Engineering, Inc" to "ABB Combustion Engineering Nuclear Power, Inc". Attached are all the documents mentioned above. TAC L31198, 31199
- June 2, 1999 NRC letter to "Combustion Engineering, Inc" granting a time extension to allow the distribution of result reports of the April 1999, physical inventory. Attached is the revised license and Safeguards Evaluation Report. TAC L31197
- May 19, 1999 NRC letter to CE granting some changes to the licensee's Fundamental Nuclear Material Control Plan (FNMC). Attached are the revised license and the Safeguards Evaluation Report. TAC L31168
- March 18, 1999 NRC letter to CE granting some changes to the licensee's Fundamental Nuclear Material Control Plan (FNMC). Attached are the revised license and the Safeguards Evaluation Report. TAC L31168
- Jan. 27, 1999 NRC letter to CE allowing the requested time (30 days) extension to certain specified commitments in Fundamental Nuclear Material Control Plan (FNMC). Attached are the revised license and the Safeguards Evaluation Report. TAC L31150
- July 23, 1998 NRC letter amending the license to reflect changes and improvements in Chapter 4, "Nuclear Criticality Safety" of the license application. Attached are the revised license and the Safety Evaluation Report. TAC L30975
- Feb. 26, 1998 NRC letter amending the license to authorize release of hydroflouric acid without continuing NRC licensing controls. Attached are the revised license and the Safety Evaluation Report. TAC L30995
- Feb. 12, 1998 NRC letter approving the licensee's revised Fundamental Nuclear Material Control (FNMC) Plan. Attached are the revised license and the Safeguards Evaluation Report. TAC L30980
- Jan. 26, 1998 NRC letter amending the license to authorize an update to the Hematite Evaporation Ponds Decommissioning Plan. Attached are the revised license and the Safety Evaluation Report. TAC L30981

- Feb. 6, 1997 NRC letter amending the license to authorize organizational changes. Attached are the revised license and the Safety Evaluation Report. TAC L30991
- Feb. 6, 1997 NRC letter amending the license to allow receipt of four uranium hexafluoride cylinders under work order GES 3102 without providing for an individual to witness the sampling of those cylinders. Attached are the revised license and the Safeguards Evaluation Report. TAC L30916
- Nov. 18, 1996 NRC letter granting an amendment to increase the possession limit for uranium enriched to a maximum of 5.0 weight percent in the U-235 isotope from 12, 000 kilograms of U-235 to 20, 000 kilograms. Attached are the revised license and the Safety Evaluation Report. TAC L30919
- June 2, 1996 NRC letter granting an amendment to incorporate documentation of the validation of the current criticality calculational methodology used for analyzing complex systems and to incorporate the revised license pages to correct the date of a referenced letter concerning the site decommissioning funding plan and site emergency plan. Attached are the revised license and the Safety Evaluation Report. TAC L30849
- April 15, 1996 NRC letter amending the license to allow receipt of uranium hexafluoride cylinders under work order GES 3102 without providing for an individual to witness the sampling of those cylinders. Attached are the revised license and the Safeguards Evaluation Report. TAC L30864
- Jan. 31, 1996 NRC letter amending the license to change the criticality safety basis for the R-3 oxide conversion reactor. Attached are the revised license and the Safety Evaluation Report. TAC L30835
- Dec. 20, 1995 NRC letter amending the license to include a commitment for performing a portion of an Integrated Safety Assessment in which the NRC Branch Technical Positions on Requirements for Operation will be considered. Attached are the revised license and the Safety Evaluation Report. TAC L30801
- Nov, 25, 1995 NRC letter granting the licensee a one-time exemption with respect to the completion date of the next biennial emergency exercise which involves outside support agencies. Attached are the revised license and the Safety Evaluation Report. TAC L30822
- Aug. 23, 1995 NRC letter granting a one-time exemption to a commitment contained in the Fundamental Nuclear Material Control (FNMC) Plan regarding receipt measurements of UF<sub>6</sub>. Attached are the revised license and the Safeguards Evaluation Report. TAC L30802

- May 18, 1995 NRC letter granting a one-time exemption with respect to the completion date of the next independent, biennial assessment and review of material control and accounting program. Attached are the revised license and the Safeguards Evaluation Report. TAC L30775
- May 17, 1995 NRC letter approving the licensee's revised Fundamental Nuclear Material Control (FNMC) Plan. Attached are the revised license and the Safeguards Evaluation Report. TAC L30744
- May 11, 1995 NRC letter granting an amendment to increase the possession limit for uranium enriched to a maximum of 5.0 weight percent in the U-235 isotope from 8, 000 kilograms of U-235 to 12, 000 kilograms. Attached are the revised license and the Safety Evaluation Report. TAC L30761
- May 4, 1995 NRC letter granting the licensee an amendment to incorporate the Hematite Evaporation Ponds Decommissioning Plan in its license. Attached are the revised license and the Safety Evaluation Report. TAC L30728
- March 29, 1995 NRC letter granting a one-time exemption with respect to the start date of the 1995 physical inventory (start on or before Oct. 25, 1995). Attached are the revised license and the Safeguards Evaluation Report. TAC L30760
- March 14, 1995 NRC letter amending the license to authorize organizational changes (new health physicist added). Attached are the revised license and the Safety Evaluation Report. TAC L30757
- May 17, 1994 Copies of the Environmental Assessment and Finding of No Significant Impact on the Environment that would allow CE to continue manufacturing low-enriched nuclear fuel for the 10 years.
- Dec. 8, 1994 NRC letter granting an amendment to incorporate into the license the revised Schedule A for the Standby Trust Agreement associated with the Hematite Decommissioning Funding Plan. Attached are the revised license and the Safety Evaluation Report. TAC L30729.
- May 25, 1995 A note from the NRC to CE stating that Amendment 2 to SNM-33 was issued to authorize CE's positions to be consolidated into one Focused Factory Managers for Chemical Operations and Ceramic Operations to be consolidated into one Focused Factory position: Manager of Ceramic Manufacturing. The safety- related responsibilities of both positions would also become part of the Manager of Ceramic Manufacturing responsibilities. The safety Evaluation Report mistakenly stated that the

Manager of Chemical Manufacturing rather than the Manger of Ceramic Manufacturing will assume the new responsibilities.

**FOLDER#17**

**1999 Correspondence**

- May 14, 1999 Memorandum: Review Comments on CE Hydrogeologic Work Plan 1<sup>st</sup> Quarter Report. Comments: Observations were generally supported in all but two site characterizations. Both observations where related to the radionuclide concentration in soil not being elevated. This statement could not be true if no background radiation has been established.
- May 10, 1999 NRC letter acknowledging the receipt of a semiannual status report of CE's Criticality Safety Program Update (CSPU) covering period Oct 1, 98 through March 31, 99.
- May 19, 1999 NRC letter canceling a Management Meeting with the licensee scheduled for May 24, 1999.
- June 28, 1999 NRC letter acknowledging receipt and review of the Hydrogeologic Investigation and Ground-Water, Soil, and Stream Characterization and Work Plan, 2<sup>nd</sup> Sampling Event Report. NRC noted the quality assurance problems and the elevated concentrations of radiological constituents identified in the background well WS24.
- May 20, 1999 ABB letter requesting an extension of time for the submission of the required reports for the 1999 annual inventory due on April 21, 99.
- May 19, 1999 NRC letter to CE amending the license by granting some changes to the licensee's Fundamental Nuclear Material Control Plan (FNMC). Attached are the revised license and the Safeguards Evaluation Report. TAC L31168
- June 2, 1999 NRC letter to CE granting a 15 day time extension from granting the amendment to allow the distribution of result reports of the April 1999, physical inventory. Attached is the revised license and Safeguards Evaluation Report. TAC L31197
- June 15, 1999 ABB letter submitting enclosed replacement Standby Trust Agreements and Payment Surety Bonds related to the decommissioning funding requirements and reflecting that ABB Combustion Engineering Nuclear Power Inc becomes the licensee as a result of transfers of license SNM-33, SNM-1067, and 06-00217-06 from CE Inc.

- June 23, 1999 NRC letter granting an amendment to transfer and amend any materials licenses, quality assurance program approval, and certificates of compliance from "Combustion Engineering, Inc" to "ABB Combustion Engineering Nuclear Power, Inc". Attached are all the documents mentioned above. TAC L31198 & 31199
- July 14, 1999 NRC letter notifying the new licensee (ABB CENP) that the new name has been approved on June 23, and the copies of the former CE Inc, the Standby Trust Agreement and Surety Bonds are being enclosed and returned.
- July 29, 1999 ABB letter with a submittal of license application pages affected by Corporate name change from CE to ABB CENP
- July 29, 1999 ABB letter informing NRC that the corporate name change from CE to ABB CENP will be effective as of June 29, not June 23 as the NRC July 14 letter stated. Enclosed are amended application pages reflecting the change to the new organization.
- Aug. 11, 1999 NRC cover letter and an inspection report regarding. Inspection was conducted Aug. 3-4,99, included the review of the Security Program, no violations issued.
- Aug. 12, 1999 NRC letter granting an amendment to change the name to ABB Combustion Engineering Nuclear Power, Inc" from Combustion Engineering. Attached are the revised license and the Safety Evaluation Report. TAC No. L31218
- Aug. 13, 1999 ABB letter to provide an update on status of the ABB CENP's former evaporation ponds. Remediation efforts in and around the ponds have been suspended pending resolution of 2 issues: Perchloroethylene has been detected in the pond area and the uranium present at depth may not meet release criteria at the end of plant life.
- Aug. 18, 1999 NRC letter to confirm NRC/Hematite management meeting on Sept. 15, 1999 to discuss plant performance, future plant activities, recent inspections, pond decommissioning.
- Aug. 30, 1999 ABB letter with a request to sign an attached form which terminates Citibank's appointment as trustee under three standby trust agreements that formerly covered NRC licenses SNM-33, SNM-1067, and 06-00217-06 to close files.
- Aug. 19, 1999 letter granting an amendment to change the name to ABB Combustion Engineering, Inc from ABB Combustion Engineering Nuclear Power,

- Inc". Attached are the revised license and the Safety Evaluation Report. TAC No. L31224
- Sept. 9, 1999 ABB letter enclosing an updated Physical Security Plan for Protection of Special Nuclear Material of Low Strategic Significance for the ABB CENP.
- Oct. 19, 1999 NRC letter granting the licensee an amendment to allow the requested time extension (till Oct. 19, 99) to certain Commitment in the Fundamental Nuclear Material Control Plan regarding a temporary change to UF6 receipt sampling procedure. Enclosed are the revised license and the Safeguards Evaluation Report. TAC No. L31252.
- Aug. 25, 1999 ABB letter enclosing 2 documents: (1) Sampling Report in Conjunction with the Hydrogeologic Investigation and Ground-Water, Soil, and Stream Characterization Report developed after the 2<sup>nd</sup> quarter of sampling under CE's hydrogeologic work plan dated April 28, 98 and (2) a letter from LBG authorizing reproduction of their reports.
- Nov. 11, 1999 ABB letter enclosing 2 documents: (1) Sampling Report in Conjunction with the Hydrogeologic Investigation and Ground-Water, Soil, and Stream Characterization Report developed after the 4<sup>th</sup> quarter of sampling under CE's hydrogeologic work plan dated April 28, 98 and (2) Nov. 22, 99 letter from LBG authorizing reproduction of their reports.
- Oct. 11, 1999 American Technical & Analytical Services Inc letter to Leggette, Brashers and Graham Inc informing of an enclosed analytical report for the samples received in their laboratory on August 12, 1999.
- Sept 21, 1999 a copy of the above letter with a different date.
- Dec. 2, 1999 NRC letter granting the licensee an amendment requiring the licensee to follow the physical protection plan entitled, "Physical Security Plan for Protection of nuclear Material of Low Strategic Significance," Revision 4. Enclosed are the revised license and the Safeguards Evaluation Report. TAC L31254
- Dec. 12, 1999 ABB letter requesting an amendment to Chapter 14, "Nuclear Criticality Safety" of SNM-33 to include taking credit for verified neutron absorbers contained within fuel pellets. Enclosed are the affected pages of the license.
- Dec. 7, 1999 NRC letter informing the licensee of a completed review and NRC consent to change the name from ABB Combustion Engineering Nuclear Power, Inc to ABB C-E Nuclear Power, Inc. TAC No. L31273

- Dec. 15, 1999 NRC letter informing the licensee of completing reviewing the Third Sampling Event Report in Conjunction with the Hydrogeologic Investigation and Ground-Water, Soil, and Stream Characterization Report submitted by Aug. 25, 99, and receiving the Fourth Sampling Event Report. Also, the NRC reminded the licensee that the 24 month period for decommissioning the ponds is ending. If the licensee wishes to change the decommissioning effort to a uranium recovery operation, an amendment should be submitted. If the decommissioning activities will not be completed by Feb, 2002, then an alternate schedule for decommissioning should be submitted.
- Dec. 17, 1999 ABB reply to a notice of violation (IP Nov. 19, 1999). During a non routine maintenance operation, steam heat was applied to UF6 line containing solid UF6. No procedure written for this operation. During the operation, small leak developed at two valves. Minimal contamination on the valves, nobody injured, reason: untrained engineer.
- Dec. 17, 1999 NRC letter granting the licensee an amendment to allow the use of neutron absorbers contained in fuel pellets in criticality safety evaluations. Enclosed are the revised license and the Safety Evaluation Report. TAC L31281.
- Dec. 28, 1999 NRC letter informing the licensee that a new Project Manager had been assigned for the Hematite facility.
- FOLDER #18**
- April 7, 2000 ABB letter submitting Application pages affected by Corporate Name Change from ABB C-E Nuclear Power, Inc to CE Nuclear Power LLC.
- April 21, 1999 ABB letter informing NRC of an enclosed Hydrogeologic Investigation and Ground Water , Soil, and Stream Characterization report developed after the 1<sup>st</sup> quarter of sampling under CE hydrogeologic Work Plan, attached is the ground conductivity contour map and the report.
- April 19, 1999 NRC letter confirming a meeting scheduled for May 24, 1999 in Festus, MO to discuss current performance, recent and future inspection activities.
- April 9, 1999 NRC letter amending license SNM-33 to change the mailing addresses of the Corporate Offices and of the facility at which the licensed activities will be conducted. Attached are the revised license and the Safety Evaluation Report TAC L31173

April 7, 1999 ABB letter enclosing the 7<sup>th</sup> status report on Criticality Safety Program Update covering period Oct. 1, 98 -March 31, 99

April 7, 1999 ABB letter providing NRC some info requested by NRC fax dated March 23, 99 regarding the Hematite facility: clarification on transaction #s for MTU and calculation numbers and formulas used in NRC report labeled Fuel Fabrication Recipients From Portsmouth-1998, and Fuel Fabrication Deliveries-1998

March 26, 1999 NRC Memorandum, Subject: Technical Assistance Request to review the CE Hydrogeologic Investigation and Ground Water , Soil, and Stream Characterization(Hydrogeologic Work Plan 1<sup>st</sup> Quarter Report which was submitted by a letter dated March 9, 99.

March 18, 1999 NRC letter amending license SNM-33 and incorporating changes made to the Emergency Plan. Attached are the revised license and SER.

Sept. 10, 1999 ABB letter enclosing an updated Physical Security Plan for Protection of Special Nuclear Material of Low Strategic Significance, Revision 4

Feb. 26, 1999 NRC letter with copies of slides documenting the meeting held between NRC and ABB CE at the NRC Region III Office on Feb. 9, 1999. Topics discussed: Nuclear Criticality Safety Program updates, Integrated Safety Analysis Program Status and plant culture.

Feb. 25, 1999 ABB letter requesting an amendment to the Fundamental Nuclear Material Control Plan (FNMCP), as a result of management changes within the last six months regarding adding a new position of Material Control and Accountability Engineer. Attached are the revised sections of FNMCP.

Feb.23, 1999 ABB letter submitting a request for an amendment to Chapter 1, the Standard Conditions and Special Authorization section of license SNM-33. Attached are the list of affected pages, revised pages and description of changes

Feb. 12, 1999 ABB letter informing NRC of the licensee's intent to conduct the 1999 SNM Physical Inventory early, on April 23, 1999 instead of August 1, 1999, the date listed in the (FNMCP)-no amendment necessary.

Jan. 27, 1999 NRC letter granting an amendment to license SNM-33 allowing the requested time extension to certain specified time commitments in the Fundamental Nuclear Material Control Plan. Attached are the revised license and the Safeguards Evaluation report.

- Jan. 26, 1999 NRC letter acknowledging the receipt of the licensee's response to the NOV transmitted to the licensee by letter dated Oct. 21, 1998 and confirming the licensee's desire to meet and discuss the root cause analysis and any corrective actions taken. Meeting scheduled for Feb. 9, 1999. Attached is the licensee's response to the violation and the need to meet with NRC representatives.
- Jan. 8, 1999 ABB letter requesting an amendment for the temporary change to UF6 receipt sampling procedure described in the Fundamental Nuclear Material Control Plan for a shipment of seven UF6 cylinders received by Hematite facility on December 11, 1998. Attached are the shipping documents.
- Dec. 31, 1998 ABB letter providing NRC with CE's 2<sup>nd</sup> response to the Generic Letter 98-03 on information regarding Year 2000 readiness.
- Jan. 4, 1999 NRC letter requesting additional information from the licensee as a result of preparing the Response Technical Manual Supplement for the Hematite site. Attached is the list of additional questions.

**FOLDER #19.  
Organization**

- 1<sup>st</sup> sub-folder contains the Hematite management organizational charts, NRC DNMS organizational chart, lists of contacts within Westinghouse, their phone numbers
- April 30, 1998 list of attendees at an exit meeting
- Nov. 19, 1999, list of attendees at an exit meeting
- April 20, 1998, list of attendees at the entrance meeting
- Feb. 12, 1998 ABB letter providing NRC with an updated list of individuals authorized to make license commitments and a preferred distribution of correspondence address from NRC
- March. 23, 1999 Internet print out on announcing the merging of ABB CE and Alstom creating ABB ALSTOM Power.

**Project Info.**

- May 9, 1997 NRC letter informing the licensee that changes to the physical Protection Plan, submitted by letter dated Jan. 22, 97, have been reviewed and the license SNM-33 will be amended.

- Nov. 5, 1996 NRC letter acknowledging the receipt of the CE plan and schedule for Criticality Safety Program Update (CSPU). The licensee agrees to strengthen the CSPU and to submit quarterly CSPU reports.
- Sept. 6, 1994 NRC letter informing the NRC reviewed licensee's criteria for evaluation and reporting events related to loss of criticality safety controls and determined that these criteria meet NRC requirements.
- Jan. 28, 1995 Location and Identification of Hematite Buildings-map. Attached are organizational charts within Hematite.
- Dec. 9, 1994 NRC letter acknowledging the receipt of the Pre-Fire Plan. Attached is a NRC letter informing that NRC completed the review of the Licensee's Pre-Fire Plan and determined that the plan provides essential information needed by a fire fighting team in an actual emergency situation but certain issues are not clear such as fire protection equipment, method of preparation of the Pre-Fire Plan, and degree of coordination with offsite fire departments.
- Nov. 19, 1996 NRC letter accepting a number of scheduled dates for completion the ISA documents.
- Nov. 12, 1996 ABB letter enclosing a list of revised completion dates for conducting the ISA reports. The dates have been to match these included in the Criticality Safety Program Update.
- March 22, 1995 NRC letter acknowledging the receipt of a proposed schedule for completion of the ISAs (this is the first proposed schedule).
- Jan. 26, 1995 ABB letter providing NRC with the Hematite Integrated Safety Assessment (ISA) Schedule (original schedule). Attached is the schedule.

### Facility Info

Page describing CE's location and their authorizes activities  
 An outline of the plant processes.  
 Table with Design Parameters of C-E Fuel Assemblies (2 copies)  
 Description of the wash operations, waste incineration  
 Chart of the nuclear fuel manufacturing process  
 Flow Diagram of UF6 to UO2 Conversion Process(multiple copies)  
 Aerial Photos of the site and the fuel rods  
 Contamination Control Areas and Control Points  
 Hematite plant Organization Chart  
List of chemicals used and stored on site  
 Chemical and other hazardous materials storage locations chart  
 Building 254 UO2 pellet fabrication process

Building 255 equipment layout  
 Building 230(rod and bundle assembly) equipment layout  
 Pellet Handling Room Layout  
 Building 265-1 equipment layout  
 Fuel assembly fabrication, inspection, and storage layout  
 Warehouse operations layout  
 Sanitary drain system  
 Storm water system  
 Environmental monitoring summary  
 Locations of water monitoring sites (map-2 copies)

May 11, 1999 Briefing paper on a short visit to the site on its history and overall performance

**Projects**

Jan. 4, 1999 NRC letter informing licensee of being in the process of preparing RTM Supplement and requesting additional information from the licensee. Attached is a list of additional questions

May 12, 1999 ABB letter providing NRC with CE's 3 responses to the Generic Letter 98-03 on information regarding Year 2000 readiness.

Sept. 21, 1998 ABB letter providing NRC with CE's 3 responses to the Generic Letter 98-03 on information regarding Year 2000 readiness.

**Environmental Info.**

April 20, 1994 Schedule for Environmental Monitoring Program

July, 1995 Monitoring well locations

March 21, 1994 Retention Pond well monitoring activity data for all Hematite wells

March 17, 1994 Description and discussion of the water system at the Hematite site

July 9, 1993 DNR letter to the licensee issuing a modification to a permit (Dec. 11, 1992) correcting a topographical error for the monitoring frequency from monthly to quarterly, and revising sludge requirements and adding new conditions to address new regulations

Dec. 11, 1992 DNR letter to the licensee issuing the State Operating Permit to Discharge from ABB CE Hematite Plant( Federal Discharge Permit and State Operating Permit). Attached are the permits.

Nov. 1982 Paper on the flooding problems at the Hematite site.

## **Financial Assurance**

- Nov. 17, 2000 Westinghouse letter to NRC informing of an enclosed formal termination document for the cancelled Citibank Standby Trust Agreement for NRC license SNM-33.
- Oct.26, 2000 Letter to(ABB) from RII asking to sign the termination document for the cancellation of the Citibank Standby Trust.
- Oct. 30, 2000 NRC letter from DWM to Region II informing him of the attached originals of a letter agreement regarding formal termination of the cancelled Standby Tust Agreement.
- Oct. 11, 2000 NRC letter to ABB informing them of an enclosed original canceled documents which are being replaced by CE NP LLC new documents. These are Standby Trust Agreement (June 15, 99) and Payment Surety Bond No. 8156-51-66 (June 15, 99). Attached are the documents mentioned above.
- Oct. 11, 2000 NRC letter granting CE NP LLC Amendment 1 in response to the licensee's letter (Aug. 29, 2000) requesting changes to the decommissioning financial assurance document, the Standby Trust Agreement. Attached is the amendment
- Aug. 29, 2000 Westinghouse letter to NRC requesting Amendment No. 1, and submitting a copy of the requested changes to the Standby Trust Agreement, and a copy of an Amendment No. 1 to Letter of Credit No. 71789 from Chase Manhattan Bank USA. Attached are the two documents
- May 11, 2000 Westinghouse letter submitting to the NRC the following documents, all of which are attached: Certification of Financial Assurance, Standby Trust Agreement, Standby Letter of Credit, Certification of Authorized Signatories, Information Regarding Incorporation and Authority of the Trust Bank
- Feb. 7, 2000 ABB letter notifying NRC of a submittal of License SNM-33 Application Pages affected the corporate name change from ABB CENP to ABB C-E NP. Also enclosed is the revised standby trust agreement and security bond rider associated with the new owner. Attached are documents mentioned above and insurance certificates
- June 19, 1999 ABB letter, SUBJECT: Application of CE for Transfers and Amendments of Materials Licenses: Submittal of Decommissioning Financial Assurance Documents. Specifically, this letter submits(and attaches)

replacement Standby Trust Agreement and Payment Surety Bonds to decommissioning funding for licenses SNM-33, SNM-1067 and 06-00217-06. ABB CENP becomes the licensee.

June 18, 1999 Copy of the exact same document as described above but with a different date ( June 19, 99)

**FOLDER #20**

Aug. 13, 1999 list of affected pages by an amendment #####( no reference)

Feb. 26, 1998 list of affected pages for a request to release hydrochloric acid manufactured as a byproduct of oxide conversion process of unrestricted commercial use

Aug. 13, 1999 ABB letter with a submittal of license application pages affected by Corporate name change from ABB CE to ABB CENP

June 14, 1994 ABB letter acknowledging submission of some changes to the Hematite License Renewal Application as discussed with NRC staff on June 13, 1994. (No descriptions of specific changes, no attachments)

April 20, 1994 ABB letter acknowledging submission of changes to the Hematite Renewal License Application criticality safety chapters and other changes discussed on Feb. 10, 1994. (No attachments)

March 21, 1994 ABB letter acknowledging submission of changes to the Hematite License Renewal Application criticality radiological chapters as discussed on Feb. 10, 1994. (No attachments)

Jan. 28, 1994 ABB letter transmitting a submittal containing an update to chapters 4 and 14 of the Hematite License Renewal Application concerning criticality safety. No attachments

Jan. 14, 1994 ABB letter, subject: Hematite License Renewal-chapter 15 Update and changes to reflect the new 10 CFR 20 requirements to the Hematite License Renewal Application. No attachments

**License Renewal Application**

10/29/93-4/07/00 ABB submits all chapters of the License Renewal Application

July 28, 1994 NRC letter submitting the renewed Hematite license, SNM-33. The issuance of the EA and FONSI will follow. The license is renewed for 10 yrs, expiring in July 31, 2004. License and SER attached.

March 18, 1994 Federal Register Notice about the Hematite License Renewal.

March 18, 1994 NRC letter enclosing Finding of No Significant Impact and an Environmental Assessment prepared to support the renewal of Materials License, SNM-33.

**FOLDER #21**

Nov. 20, 1998 NRC letter acknowledging the receipt of letters (Sept 28 and Nov. 3) which provided the biennial update for the demonstration sections, chapter 9-15. The update reflects current operations and operational data on environmental releases.

Nov. 3, 1998 ABB letter enclosing a supplement of figures and drawings to the biennial update of the SNM-33 demonstrations sections dated Sept. 28, 98. Some figures at the end of chapter 14 were missed and some drawings were not clear in the referenced material from Sept 28, 94. This document provides this missing info.(documents attached).

Sept 28, 1998 ABB letter enclosing the safety demonstration sections to the license application in accordance with a schedule (condition 16d) which requires a biennial update to reflect current operations and data on the current environmental release. Documents attached.

Oct. 31, 1996 NRC acknowledgment of the licensee's letter dated Sept 6, 96 which provides an update for the Demonstration Section meeting all requirements of the condition S-4 (no other details described, TAC L30899)

Aug. 28, 1998 ABB letter requesting a time extension to submit the revised SNM-33, Part II, biennial Update of the Demonstration Sections that would fulfill condition 16d requirements.

Sept. 28, 1998 CE's License No. SNM-33, Part II, Safety Demonstration

**FOLDER #22**

Oct. 28, 1993 Hematite Nuclear Fuel Manufacturing Facility Emergency Plan Comments from offsite response agencies to the Hematite Emergency Plan

March 12, 1992 Letter from the County of Jefferson State of Missouri to the ABB personnel regarding some tips on the rough draft of the Emergency Plan for Hematite. Some comments include better familiarization of the Fire Department with NRC's terminology, agreement on the same meaning of the common terminology, and identifying some key names and titles.

Feb. 28, 1992 Letter form the Joachim-Plattin Townships Ambulance District to ABB accepting the Emergency Plan with no additional questions and expressing the desire for full cooperation in case of an emergency.

April 2, 1992 Letter from a doctor at the Barnes Hospital Plaza who reviewed the Emergency Plan and found it satisfactory.

Feb. 20, 1992 Letter form the Safety Director, T. Rawson, of the Jefferson Memorial Hospital regarding the Hematite Emergency Plan. Mr. Rawson finds the plan to be consistent with his procedures.

Other Info

March 18, 1999 NRC letter granting the licensee an amendment regarding the Emergency Plan. Accordingly, Safety Condition S-1 was revised to include the date of Jan 15, 1999. Attached are the SER and the revised license.

Dec 12, 1994 Material Licensee Emergency Plan Briefing Package, first issued in Dec. 12, 94 and then updated on April 29, 1996, includes Material possessed, operations, site description, location, chemical storage

Nov.24 1993 A map of the area within 5 mile radius of the Hematite Plant site.

Aug. 5, 1992 Location and Identification of buildings and facilities on the CE site.

July 10, 1995 Region III Morning Report reporting an event; a fire had occurred onsite on July 9, 95 in a power transformer located outside of the uranium oxide processing buildings. The fire has been extinguished with CO2 by the licensee's personnel. The event did not involve any release of radioactive material.

Sept. 30, 1994 ABB letter enclosing the Pre-Fire Plan which is incorporated in the Fire/Explosion emergency procedure. The licensee also committed to locating all the smoke detectors in the Pre-Fire Plan. However, the facility design concerning smoke detectors is undergoing a change and therefore, the licensee will submit complete smoke detectors plan at a later time. Pre-Fire Plan attached

Dec. 7, 1993 NRC amending license SNM-33 to include the Emergency Plan which will go in effect on June 6, 1994. Due to the NRC reorganization, the license has also been reformatted by combining the safety and safeguards conditions. Condition 16, 18, 24a has been deleted and Condition S-1 has been revised to include the date of Oct. 28, 93. Attached are the license, the SER, and some guidelines to decontaminate facilities prior to unrestricted use or termination of license .



March 14, 2000 ABB request for time extension to conduct the annual physical inventory at Hematite.

March 30, 2000 ABB Reply to NOV (IR 070-00036/2000001) regarding not implementing the requirement to monitor hands and other exposed parts of body before exiting a contamination control area by all personnel. Corrective steps taken described.

Feb. 25, 2000 ABB letter regarding the cost of participating in the Round Robin Program (about \$5000.00) and ABB's desire for the NRC to remain as both the program manager and contract administrator.

March 21, 2000 Office of Public Affairs found a newspaper article on the low level radioactive uranium that has escaped into employee changing rooms, offices, a lunchroom and other areas of the Missouri Nuclear Fuel plant. The NRC inspectors identified the finding during their last inspection on Feb. 11, 2000.

Feb. 29, 2000 Inspection Report 070-00036-2000001(DNMS), inspection completed on Feb. 11, 2000. Inspectors focused on operational safety, training, and radiation protection. One violation identified; the CE staff was observed exiting a contaminated control area before performing the required radiological surveys and contamination was found outside the contamination controlled area.

March 19, 2000 Fuel Cycle and Materials Event Notification Worksheet informing of a water leak that was discovered on 3/19/00, above and adjacent to the Erbium master blender. No unsafe conditions existed.

Jan. 28, 2000 NRC letter encouraging the licensee to use the SAM program that runs edit checks for any errors on data contained in DOE/NRC Forms 741,742 prior to submission to NRC.

Nov. 19, 1999 Inspection Report 070-00036/99005(DNMS), inspection conducted Sept. 15- Oct.20, 1999, relative to the September 15,1999 release of UF6 from the vaporization area. One violation identified: on Sept. 15, 99, two operators conducted an operation affecting the UF6 material not in accordance with an approved written procedure.

Feb. 17, 1999 ABB reply to the Sept. 15, 99, NOV providing for root cause analysis and corrective actions.

Feb. 9, 2000 NRC letter, and slides, from the Jan. 18, 2000 meeting in NRC RIII office between the NRC and ABB. The purpose of the meeting was to discuss ABB performance which is improving.

- Jan. 4, 2000 NRC letter to ABB CE informing the licensee of the planned meeting between NRC and ABB on Jan. 18, 2000. (2 more letters found on the same topic but with a different format)
- Dec. 28, 1999 NRC letter informing the licensee of appointing a Hematite project manager.
- Dec. 22, 1999 Inspection Report 070-00036/99006(DNMS), inspection conducted Sept. 29-Nov. 16, 99, no violations found, focus on plant operations, maintenance and surveillance, engineering, and plant support.
- Dec. 15, 1999 NRC letter informing the licensee of completing reviewing the Third Sampling Event Report in Conjunction with the Hydrogeologic Investigation and Ground-Water, Soil, and Stream Characterization Report submitted by Aug. 25, 99, and receiving the Fourth Sampling Event Report. Also, the NRC reminded the licensee that the 24 month period for decommissioning the ponds is ending. If the licensee wishes to change the decommissioning effort to a uranium recovery operation, an amendment should be submitted. If the decommissioning activities will not be completed by Feb, 2002, then an alternate schedule for decommissioning should be submitted.
- Dec. 16, 1999 Email version of an NRC letter to a private citizen, who is opposing to the acquisition of ABB C-E Nuclear by a non-American company. The letter explains the provisions of the Atomic Energy Act of 1954 that allow the purchase of the Hematite site.
- Nov. 16, 1999 Preliminary Notification. The notice informs that the members of Union, who had been on strike, ratified a new contract with the licensee. During the strike, NRC monitored closely all of the licensee's activities.

**FOLDER #24**

*Inspection reports (1993)*

- July 26, 1993 Inspection Report 070-00036/93002(DRSS), Inspection conducted June 24-25, 93, no violations identified, purpose: special announced inspection to review and observe the operations of the first production run of the pellet loading facility. Area reviewed included air sampling, removable wipe surveys, criticality safety, training, postings.
- Nov. 8, 1993 Inspection Report 070-00036/93003, Inspection conducted Sept. 20-24, 93, three violations identified: on Aug. 25, 93, radioactive material passed through a valve that was advertently left open and discharges into the work area exposing two workers; the licensee failed to assure that the

exposed workers had their nasal smears taken prior to taking showers; combustible material was identified stored on a concrete pad.

- Dec. 8, 1993 ABB response to the NOV dated Nov. 8, 93, corrective actions taken
- May 14, 1993 Inspection Report, 70-36/93-201, conducted April 19-23, 2 violations and 1 non-cited violation occurred; the licensee failed to resolve two significant SRDs (Nuclear Material Transaction Reports); the licensee failed to provide documented investigations for a series of out-of-control situations for W-122 accountability scale. The non-CV consisted of a violation of the item control program.

***Inspection Reports (1994/1995/1996)***

- Feb. 18, 1995 Response to NOV dated Jan. 19, 95, regarding missing posting signs and an apparent intake of 350 DAC-hrs by an operator.
- Oct. 27, 1994 Inspection Report, 070-00036/94002, conducted Aug. 11-Sept. 1, 94, 1 violation identified; the licensee shipped radioactive material bearing label "Fissile Class III" instead of "Radioactive-LSA", and 1 non-CV; failure to check moisture level, potential for rainwater seepage, lack of timing in evaluating operational conditions, and vacancies.
- March 10, 1994 NRC acknowledging the receipt of the licensee's letter dated Feb. 18, 1995
- Feb. 28, 1994 Inspection Report, 70-36/94-201, conducted Jan 10-14, 94, 1 violation identified: licensee's failure to eliminate measurement biases from the inventory differences values in the Gravimetric Uranium Assay also a number of follow-up items opened.
- Sept. 8, 1994 Inspection Report, 70-36/94-202, conducted July 14-18, 94, potential violations, no NOVs. The apparent violations involve an inadequately maintained physical inventory procedure, omission of special nuclear materials from the 93' inventory, and failure to submit the material balance reports within the required time frames.
- Sept. 15, 1994 NRC Notice of Significant Licensee Meeting regarding the July 14-18, 94, inspection findings to be held in NRC Hqs.
- April 8, 1995 Inspection Report, 070-00036/95001(DRSS), conducted Feb. 27-March 1, 95. Inspection purpose was to review fuel cycle emergency preparedness program.
- June 5, 1995 Inspection Report, 070-00036/95002(DRSS), conducted May 8-25, 95. No violation identified. Inspection included a review of the following activities: management organization and control, operator training,

Criticality Safety, maintenance and surveillance testing, radiation protection, waste management, and follow-up on open items.

- Aug. 16, 1995      Inspection Report, 070-00036/95002(DRSS), conducted July 25-27, 95. No violation identified. Inspection included a review of the following activities: Criticality Safety, operations review, waste management, and follow-up on open items. Inspectors accompanied by 4 Russian inspectors. NRC requested the licensee to provide a proposed plan for a final status survey near a creek site where contaminated sewer sludge is being removed.
- Aug. 10, 1995      ABB response to an NOV dated July 12, 95. ABB agrees with the first violation regarding the operability of the R-2 steam line shut off valves. The licensee contests the second violation; no procedure for the vaporizer chest criticality safety control associated with the steam flow shut off.
- Sept. 1, 1995      ABB letter enclosing the requested final status survey plan for the Site Creek area. IR 070-00036/95002
- Nov. 27, 1995      Inspection Report, 070-00036/95004(DNMS), conducted Oct. 16-20, 95. Inspection included a review of the following activities: operator training, Criticality Safety, operations review, transportation, and radiation protection. 1 violation identified; 4 areas identified as exceeding contamination limits of 10, 000 dpm/100 did not have any follow-up smears taken.
- Jan. 4, 1996      NRC receipt acknowledging the licensee's response to an NOV dated Nov. 27, 1995.
- Dec. 20, 1996      Inspection Report, 070-00036/96005(DNMS), inspection conducted Nov 18-22, 1995. Areas examined were: operator training, operations review, maintenance and surveillance, radiation protection, and the task actions for restart of evaporation ponds. No violations identified.
- Dec. 23, 1996      NRC letter acknowledging the receipt of the licensee response to an NOV dated Nov. 22, 96 pertaining to the NOV dated Oct. 31, 1996.
- Nov. 22, 1996      ABB response to a NOV dated Oct. 31, 1996. The licensee provide criticality safety training in order to comply with the criticality safety limits for stacking filters (2 filters exceeded the 2 kg limit)
- Feb. 16, 1996      IR, 070-00036/96001(DNMS), conducted Jan. 22-24, 96. Areas examined included: Operations Review, waste management, environmental protection, radiation protection, and follow up on open items. 1 violation

identified. The licensee transferred a reactor fragment with enriched U-235 to a person who was not authorized to receive such SNM.

- March 15, 1996 ABB reply to the NOV dated Feb. 16, 1996 admitting to the NOV.
- July 19, 1996 ABB letter providing NRC with two documents which were requested in NRC letter dated July 2, 1996. The enclosed documents are the external security audit performed on May 9-10, and an action outline for the Physical Security Improvement Program. Both documents attached.
- May 20, 1996 ABB external security audit performed on May 9-10, and an action outline for the Physical Security Improvement Program.
- June 26, 1996 NRC letter acknowledging receipt of ABB letter dated June 11, 1996, regarding a response to an NOV( May 17, 1996). NOV was issued regarding the Security Program.
- June 11, 1996 ABB reply to an NOV dated May 17, 1996, admitting to the NOV.
- Sept. 20, 1996 IR, 070-00036/96003(DNMS), inspection conducted Aug. 22-28, 96, concentrating on the circumstances surrounding the unanticipated chemical reaction which occurred on Aug. 22. The licensee's overall response appropriately implemented the Emergency Plan. However, there were some weaknesses identified in the chemical and radiological sampling performed during the event.
- Sept. 13, 1996 ABB response to an NOV dated July 19, 1996. The licensee was not performing any nuclear criticality safety evaluation for 1996 oxide conversion process modifications.
- July 16, 1996 ABB reply to an NOV dated June 17, 1996. The violations consisted of not performing bimonthly analyses of measurement control data during 1995 and 1996, not generating documented reports of out of control situations in the last quarter of 95, and not performing bimonthly audits of the tamper safe seal program.
- Dec. 4, 1996 IR, 070-1100/96-02, conducted Nov. 18-21, 96, at the ABB CE facility, Windsor, CN. No violation identified. Areas examined consisted of the radiation protection, radioactive effluent monitoring and controls, radiological environmental monitoring, and management controls.

***Inspection Reports (1997,1998)***

- March 27, 1998 ABB response to an Unresolved Item(URI) established during last NRC inspection conducted Feb. 18, 1998(IR 70-36/97-201). The IR establishes the URI regarding the performance weaknesses related to the

implementation of commitments contained in the Emergency Plan. Enclosed is ABB response to the URI.

- May 2, 1997 IR, 70-36/97-202, inspection conducted March 31- April 2, 1997. The purpose of the inspection was to gather information regarding the possible hydrofluoric (HF) exposure of a plant employee and an NRC inspector that occurred on March 26, 1997.
- Jan. 5, 1998 IR, 070-00036/97004(DNMS), inspection conducted Dec 1-5, 1997. Areas examined included operations procedures, management organization and control, maintenance and surveillance, radiation protection, waste management. One unresolved item concerned timeliness in responding to the 20.304 burial area justification for an alternate schedule for decommissioning. The follow-up items address a lack of specific guidance regarding the actions required to lockout and tagout piping systems as well as placing two containers on carts in the erbia area.
- Oct. 7, 1997 ABB reply to an NOV dated Sept. 12, 1997. The licensee violated requirements by not placing a danger tag on equipment removed from service.
- Sept. 12, 1997 IR, 070-00036/97003(DNMS), inspection conducted Aug. 4-8, 1997. Inspection involved the observation of certain operation activities, and the maintenance and surveillance program. One violation issued concerning not placing a danger tag on equipment removed from service.
- May 16, 1997 IR, 070-00036/97002(DNMS), inspection conducted April 14-18, 1997. Programs examined: Management organization, operations procedures ( processing cylinders with suspect packing nuts on cylinder valves), maintenance and surveillance, environmental protection, emergency preparedness. No violations issued. ]
- March 6, 1997 IR, 070-00036/97001(DNMS), inspection conducted Feb. 3-7, 1997. A violation identified regarding not included safety instructions related to collisions in certain applicable operating procedures. Weaknesses identified regarding operations and maintenance/surveillance. The operator training, radiation protection, transportation, and the management organization program were satisfactory.

***Inspection Reports (1998)***

- May 22, 1998 IR, 71-0090/98-206, inspection conducted April 20-24. Areas inspected included transportation records, certificates of compliance (COC), related safety analyses (SARs), and quality assurance program (QA). No violations but a total of 12 noncompliances identified regarding procurement documents, package design control, document control,

control of purchased material, equipment and services, control of special processes, audits, nonconforming materials, parts or components, and internal inspection.

- July 31, 1998 ABB reply to an NOV dated July 2, 1998. A violation was issued regarding the licensee's failure to maintain current knowledge of three cylinders of UF6 for a period of 156 days.
- March 13, 1998 ABB reply to an NOV dated Feb. 12, 1998. A violation was issued regarding the impossibility of demonstrating independence of dual sampling controls if the possibility of common mode failure had not been evaluated.
- April 28, 1998 NRC letter acknowledging the receipt of licensee's response to an NOV dated March 13, 1998.
- Feb. 12, 1998 IR, 70-0036/98-201, inspection conducted Jan 12-16, 1998. A violation was issued regarding the impossibility of demonstrating independence of dual sampling controls if the possibility of common mode failure had not been evaluated. Other potential issues were brought up concerning dual independent sampling in the uranium recovery area, the existence of unapproved postings, and the positioning of oxide powder storage cans into storage arrays without the required sampling, analysis of UO2 powder cooler, status of Criticality Safety Program Update, lack of standard procedure to conduct event investigations, closure of corrective actions.
- July 30, 1998 IR, 70-00036/98003, inspection conducted July 17, 1998. which included an overview of the operational safety, radiation protection, emergency preparedness, and waste management. 1 violation identified: from February to July, 1998, plant staff failed to check certain equipment at weekly and monthly frequencies. Also, prior to July 16, 1998, a carboy 30 gallon container of nitric acid was stored in an area contaminated with oil and organic, combustible chemicals.
- May 19, 1998 IR, 70-00036/98002, inspection conducted May 12-13, 1998. The purpose of the inspection was to determine whether the licensee implements the Physical Security Plan. No violations identified.
- May 6, 1998 IR, 70-00036/98001, inspection conducted April 9, 1998. The area examined were: plant operations and support (unloading UX-30B overpacks containing full UF6 30B cylinders), radiation protection, and maintenance. One violation cited: on April 8, 1998, crane cleaves pins used to lift full UX-30 uranium hexafluoride cylinder overpacks were not marked with a rated lifting capacity before use.

June 5, 1998 ABB reply to an NOV dated May 6, 1998.(unloading UX-30B overpacks containing full UF6 30B cylinders)

**FOLDER 25**

Jan. 14, 1998 Memo; subject: "Technical Assistance Request" to Low-level Waste and Decommissioning Projects Branch requesting the exact date when the review will be completed.

Jan. 26, 1998 NRC letter amending the license to authorize an update to the Hematite Evaporation Ponds Decommissioning Plan. Attached are the revised license and the Safety Evaluation Report. TAC L30981

Jan. 30, 1998 ABB letter submitting additional information requested by NCR letter dated Nov. 3, 1997 concerning ABB application to revise Chapter 4 of the ABB license. Pages of revisions and additional info attached.

Jan. 30, 1998 ABB letter, subject: "Supplemental Information Regarding Criticality Safety of the HF Absorber System". Enclosed is a description of the process and all the details.

March 2, 1998 Note, Subject: " Phone conversations with CE Hematite concerning criticality safety for the unrestricted release of HF acid. TAC L30995

Jan. 15, 1998 Slides presented during a meeting with NRC and ABB

Feb. 6, 1998 ABB letter, subject: "Request for additional information, unrestricted release of HF acid" to NRC letter dated Nov. 25, 1997. Enclosed are the response to RAI, Integrated Safety Assessment and slides from the Jan. 15, 1998 meeting.

Feb. 9, 1998 Memo regarding a meeting held between NRC and ABB on Jan. 15, 1998. The purpose was to discuss chemical safety issues associated with HF scrubber. ABB committed to providing NRC with an ISA report and assured NRC that no HF release will occur until NRC approves the plan. Slides attached.

Feb. 12, 1998 ABB letter with a list of authorized individuals to make licensee's commitments.

Feb. 12, 1998 NRC letter approving and amending the licensee's revised Fundamental Nuclear Material Control (FNMC) Plan. Attached are the revised license and the Safeguards Evaluation Report. TAC L30980

Feb. 19, 1998 NRC letter requesting additional information in regards to the licensee's application that requests the approval of "Hydrogeologic Investigation and

Groundwater/Surface Water Monitoring Work Plan for the CE, Hematite, Missouri Site”.

- Feb. 26, 1998 NRC letter amending the license to authorize release of hydroflouric acid without continuing NRC licensing controls. Attached are the revised license and the Safety Evaluation Report. TAC L30995
- Feb. 25, 1998 ABB letter, subject: “ Amendment request for unrestricted release of hyfrofluoric acid TAC L30975. A revision to the request to the amendment which was submitted Aug. 12, 1997. Revision attached.
- March 20, 1998 ABB letter addressing any additional question and submitting additional info in response to the NRC letter dated Feb. 19, 98 on the “Hydrogeologic Investigation and Groundwater/Surface Water Monitoring Work Plan for the CE, Hematite, Missouri Site”.
- March 30, 1998 NRC performance review of licensed activities for the period Jan. 1, 1996, through Jan. 31 ,1998. Performance review attached.
- March 31, 1998 ABB letter providing NRC with “Criticality Safety Program Update Semi-Annual Status Report”.
- April 28, 1998 ABB letter enclosing the *Hydrogeologic Investigation and Groundwater/Surface Water Monitoring Work Plan for the Combustion Engineering, Hematite Missouri Site*. Also, enclosed is a letter dated April 28, 1998, from Leggette, Brashers & Graham, Inc. authorizing ABB and NRC to make copies of the attached document.
- FOLDER # 26**
- May, 7, 1998 NRC letter documenting the April 30, 1998 public meeting. Topics discussed included the licensee performance.
- May 6, 1998 NRC letter acknowledging receipt of ABB letter dated March 31, 1998 transmitting a copy of the semiannual status report of CE Criticality Safety Program Update (CSPU) from Oct. 1, 1997 to March 31, 1998.
- June 16, 1998 NRC letter acknowledging receipt of ABB response to an NOV dated June 5, 1998 transmitted to ABB with a report dated May 6, 1998.
- June 5, 1998 ABB reply to an NOV dated May 6, 1998.(unloading UX-30B overpacks containing full UF6 30B cylinders)
- June 11, 1998 ABB letter submitting additional information supplement to the January 30, 1998, revision of Chapter 4, Criticality Safety. All the changes have

been accounted for and Chapter 4 is being resubmitted. Chapter 4 and changes enclosed.

- June 17, 1998 Letter from Chief, Licensing Branch, DFCSS, to CE, indicating "The staff has determined that the results of the field work specified in the Plan should provide a reasonable hydro geological characterization of the site, which will enable you to determine appropriate decommissioning actions for the 10 CFR 20.304 burial area at your facility.
- July 23, 1998 NRC letter amending the license to reflect changes and improvements in Chapter 4, "Nuclear Criticality Safety" of the license application. Attached are the revised license and the Safety Evaluation Report. TAC L30975
- Aug. 28, 1998 ABB letter requesting a time extension to submit the revised SNM-33, Part II, biennial Update of the Demonstration Sections that would fulfill condition 16d requirements.
- Sept. 21, 1998 ABB letter providing NRC with CE's 3 responses to the Generic Letter 98-03 on information regarding Year 2000 readiness.
- Sept. 25, 1998 ABB letter enclosing the sixth status report on Criticality Safety Program Update (CSPU) covering period from March 31, 1998 through Sept. 30, 1998. CSPU enclosed.
- Sept. 28, 1998 ABB Biennial Update of CE's License No. SNM-33, Part II, Safety Demonstration Sections.
- Oct. 13, 1998 NRC letter confirming a meeting scheduled for Oct. 30, 1998 at NRC RIII office to discuss general ABB CE facility performance.
- Oct. 5, 1998 ABB letter providing additional information requested by NRC regarding CE Reply to an NOV concerning NRC Inspection Report No. 70-36/98-003 dated July 30, 1998. An issue was raised regarding the storage of nitric acid adjacent to non-compatible materials.
- Oct. 23, 1998 ABB letter enclosing a follow-up report to the initial report submitted Sept. 25, 1998 regarding an event that occurred on 9/24/98. A yellowish residue was noticed between building 230 and 240. The substance turned out to be entrained uranyl nitrate from an overflow of the nitrogen oxide scrubber used in the wet recovery process.
- Oct. 13, 1998 NRC letter acknowledging receipt of ABB letter dated Sept. 25, 98 and a copy of the semiannual status report of CE Criticality Safety Program Update (CSPU).

- Nov. 3, 1998 ABB letter enclosing a supplement of figures and drawings to the biennial update of the SNM-33 demonstrations sections dated Sept. 28, 98. Some figures at the end of chapter 14 were missed and some drawings were not clear in the referenced material from Sept 28, 94. This document provides this missing info.(documents attached).
- Dec. 18, 1998 NRC letter acknowledging receipt of licensee letter, dated Dec. 1, 98. The licensee informed the NRC of his intent of not using section 4.2 of the NRC approved "Hematite Evaporation Ponds Decommissioning Plan". During decommissioning work, contamination was found, which was not expected, and the licensee will use other methods to fully comply with regulations regarding contaminant concentration goals.
- Nov. 20, 1998 NRC letter acknowledging the receipt of letters (Sept 28 and Nov. 3) which provided the biennial update for the demonstration sections, chapter 9-15. The update reflects current operations and operational data on environmental releases.
- Dec. 3, 1998 ABB letter providing NRC with steps to be taken in order to demonstrate compliance with the regulations. The issue was addresses in the last letter dated Dec. 18, 98, regarding uranium contamination in the ponds.
- Dec. 7, 1998 NRC letter documenting the public meeting held between NRC and ABB CE on Oct. 30, 1998. A Summery of the meeting is attached.
- Nov. 6, 1997 NRC letter requesting additional information to the application dated June 13, 1997 that requested a revision to Fundamental Nuclear Material Control (FNMC) Plan. Attached is a list of needed info.

**FOLDER #27 (1997 Correspondence)**

- Jan. 14, 1997 ABB letter enclosing materials presented during a meeting on Nov. 16, 1997.
- Jan. 22, 1997 ABB letter submitting revision 3, a final copy of the Physical Security Plan for Protection of Special Nuclear Material of Low Strategic Significance. The final version constitutes a complete replacement for the plan as amended through November, 1992.
- Jan. 24, 1997 ABB letter requesting a meeting with NRC to discuss course of action to resolve issues concerning the decommissioning of the 20.304 burial area. On Sept. 13, 1996, CE requested a postponement in the decommissioning of the site. In Nov. 25, 1996 letter NRC denied the request based on the adequacy of the justification. ABB is renewing its request. In addition, a meeting would be held to justify the request and any other issues.

- Feb. 14, 1997 NRC letter acknowledging the receipt of Dec. 20, 1996 letter from ABB that transmitted a copy of the first quarterly status report of CE's Criticality Safety Program Update (CSPU).
- Feb. 6, 1997 NRC letter amending the license to allow receipt of four uranium hexafluoride cylinders under work order GES 3102 without providing for an individual to witness the sampling of those cylinders. Attached are the revised license and the Safeguards Evaluation Report. TAC L30916
- Feb. 26, 1997 Memo, subject: "Trip report: CE, Hematite, MO. Jan. 23-24, 1997". Main purpose was a site familiarization tour. Issues discussed: CE indicated the source of Tc99 contamination is a former outdoor storage area east of the south vault, not the evaporation ponds as stated earlier. This conclusion is supported by historical data, and soil and groundwater samples. Also, CE informed that a revised schedule for the completion of the evaporation ponds remediation project will be sent to NRC in the future. In addition, CE is requesting delay of decommissioning of the burial site until the end of plant life since those contaminants do not pose any health risk to the public. NRC denied the request. CE did not adequately justify the action. A meeting will be scheduled to further discuss the matter.
- March 24, 1997 NRC meeting notice with CE on April 24, 1997.
- March 27, 1997 ABB letter submitting the second status report on Criticality Safety Program Update (CSPU). CSPU attached.
- March 28, 1997 ABB letter submitting a report, "**Investigation to determine the source of Technetium 99 in groundwater monitoring wells 17 and 17B**", prepared by certified geologist. The increased beta activity was most likely due to the former ring storage area located directly plant east of the south vault. Attached are the document, and two letters. June 13, 1997 ABB letter granting permission for the NRC to copy documents which Gateway Environmental Associates, Inc, have produced, and June 11, 1997 letter from the Gateway Environmental Associates, Inc. authorizes ABB CE and NRC to copy those documents.
- April 16, 1997 NRC letter informing the licensee of an enclosed document explaining the statement made by D. Weber during NRC/B&W meeting on March 10, 1997, that the formula for hot spot determination  $(100/A)^{1/2}$  from NUREG/CR-5849 is dose based.
- April 17, 1997 ABB letter, subject: "Revision of License SNM-33, Chapter 4, Nuclear Criticality Safety". Enclosed is the revision, description of changes.

- April 21, 1997 NRC letter acknowledging the receipt of a letter dated March 27, 1997 from ABB that transmitted a copy of the 2<sup>nd</sup> quarterly status report of CE's Criticality Safety Program Update (CSPU).
- April 22, 1997 Presentation material from the NRC/ABB meeting held in NRC RIII office on April 22, 1997.
- April 22, 1997 NRC letter. Subject: NRC Licensee Performance Review- ABB CE". The review covered period from January 1994 through December 1995. Overall facility performance was good. Weakness identified in the area of chemical safety, criticality safety, maintenance and surveillance, communication links between Hematite facility and HQ, providing adequate information to the NRC and in timely manner, and use of written procedures.
- May 9, 1997 NRC letter acknowledging the receipt of changes made to the Physical Protection Plan submitted by letter dated Jan. 22, 1997. Changes are acceptable and will be accounted for in future license amendment.
- May 23, 1997 Licensee reply to an NOV, dated April 25, 1997. The violation constitutes licensee failure to review and approve 3 procedures which impact the MC&A program. Licensee provided for root cause and corrective actions.
- May, 15, 1997 ABB letter. Subject: Figure (Topographic map) from Assessment of Burial Site Well #4 TAC L30758
- May 30, 1997 ABB letter providing NRC with an updated **Decommissioning Plan for the two former Evaporation Ponds**. As part of the plan, CE has completed preremediation characterization which indicated that remediation beyond that limited to hot spots is required. Therefore, a new decommissioning schedule was developed to allow for the needed remediation work.
- June 13, 1997 ABB letter, subject: "Amendment Request- Fundamental Nuclear Material Control Plan (FNMCP)". Enclosed are revisions to sections 3 and 4 of the FNMCP reflecting organizational changes, and changes made to modify the requirements for witnessing of UF6 sampling for NRC licensed facilities.
- June 27, 1997 ABB letter, subject" Criticality Safety Report Update Quarterly Status Report", 3<sup>rd</sup> quarter report on CSPU.
- July 7, 1997 Memo regarding a review for the amount of staff hours charged while working on amendment 16 for CE.

- July 24, 1996 Memo. Subject: "Technical Assistance Request- ORNL identified sites, CE, Inc., Windsor, Connecticut". The FCSS Licensing Branch requests technical assistance in reviewing the Region I's memorandum dated Nov. 2, 1995, which expressed concern that thorium contamination may still exist at the CE wooded area. The area was released for unrestricted use by NCR in August 1989.
- July 25, 1997 NRC letter acknowledging the receipt of a letter dated June 27, 1997 and a copy of the 3<sup>rd</sup> quarterly status report of CE's Criticality Safety Program Update (CSPU).
- Aug. 19, 1997 ABB letter transmitting effluent monitoring data for Hematite facilities. Data for uranium airborne and liquid content, 1<sup>st</sup> and 2<sup>nd</sup> quarter.
- Sept. 3, 1997 NRC acknowledging the receipt of a letter dated 8/12/97 regarding an Amendment request for unrestricted release of hydrofluoric acid.
- Sept. 9, 1997 NRC acknowledgment of letter received 8/29/97 regarding the continued safe operation of DRY HF Scrubbers while a new scrubber system has been ordered.
- Aug. 29, 1997 ABB letter ensuring NRC of the continued safe operation of dry HF scrubber while waiting for a new HF scrubber system.
- Sept. 24, 1997 Map of the locations of water monitoring wells at Hematite site.
- Sept. 12, 1997 ABB letter informing the NRC of CE's conclusion, after reviewing records and monitoring data associated with the burial site, that geological conditions are suitable to support leaving the burial area in place. Also, the NRC was invited to participate in a meeting ABB CE/MDNR to discuss non-radiological components present on the site.
- Sept. 25, 1997 NRC letter requesting the licensee to submit a decommissioning plan or a justification for delaying decommissioning of the burial area. The justification was to be submitted before Sept. 13, 1997, a year after the original notification of the desired action.
- Sept. 29, 1997 NRC letter in reference to licensee's letters dated March 28, and May 15, 1997 regarding results of the investigation into the source of the Tc-99 in burial site #4 in compliance with Safety Condition S-2 of the license. After review, NRC agreed with the licensee that the source of Tc-99 appears to be the former ring storage area, thus Safety condition S-2 will be removed at the time of next license amendment.
- Sept. 30, 1997 ABB letter, subject" Criticality Safety Report Update Quarterly Status Report", 4th quarter report on CSPU.

- Oct. 21, 1997 ABB letter submitting the proposed plan for 10 CFR 20.304 Burials and explaining some assumptions made in the plan.
- Oct. 15, 1997 Gateway Environmental Associates, Inc. letter authorizing NRC and ABB to copy and use material produced by the consulting company. Enclosed is the **Hydrologic Investigation and Groundwater/Surface water monitoring work plan for CE, Hematite, MO**
- Oct. 22, 1997 ABB letter enclosing revised pages 2, 5, 12, 13 to Enclosure I of the May 30, 1997 letter which provided the Decommissioning Plan for the two former Evaporation Ponds. As part of the plan, CE has completed preremediation characterization which indicated that remediation beyond that limited to hot spots is required. Therefore, a new decommissioning schedule was developed to allow for the needed remediation work.
- Nov. 3, 1997 NRC letter documenting the Oct. 1, 1997 meeting between ABB/NRC Attached are the agenda and a list of attendees.
- Nov. 3, 1997 NRC request for additional information from the licensee regarding the licensee's requesting the revision of Chapter 4, Nuclear Criticality Safety of license SNM-33.
- Nov. 6, 1997 NRC letter acknowledging the receipt of a letter dated Sept. 30, 1997 and a copy of the 4th quarterly status report of CE's Criticality Safety Program Update (CSPU) covering the period 6/1/97-9/30/97.
- Nov. 6, 1997 NRC request for additional information from the licensee regarding the licensee's application, dated Aug. 12, 1997, requesting an amendment to authorize release of HF acid for unrestricted use.
- Nov. 21, 1997 NRC requesting additional information regarding licensee's application, dated May 30, 1997. The licensee requested an amendment to update the Hematite Evaporation Ponds Decommissioning Plan.
- Nov. 21, 1997 NRC letter granting the licensee the request, dated Oct. 21, 1997. The licensee requested an alternate schedule for decommissioning of the 10 CFR 20.304 burial area in order to conduct a hydrogeologic investigation of the area and a site-specific dose assessment.
- Nov. 24, 1997 NRC memo documenting NRC visit at the CE site on Nov. 12-14, 1997. The purpose was to familiarize NRC staff with CE operations and to review criticality safety documentation. During discussion, licensee informed NRC that CE had discontinued monthly monitoring of one of

- the burial groundwater wells since Oct. 1996 because of hazardous waste contamination.
- Nov. 25, 1997 NRC request for additional information from the licensee regarding the licensee's application, dated Aug. 12, 1997, requesting an amendment to authorize release of HF acid for unrestricted use.
- Dec. 22, 1997 NRC Meeting Notice for a meeting scheduled on 1/13/98 between NRC and ABB to discuss chemical safety issues associated with release of HF acid for unrestricted use.
- Dec. 19, 1997 ABB letter responding to the NRC request, dated Nov. 21, 1997. NRC needed additional information to authorize release of HF acid for unrestricted use.
- Dec. 19, 1997 ABB letter informing NRC of the licensee's intent to make presentation to the NRC during the 1/13/97 meeting relating to the issue of HF release, and thus delaying a written submission in response to the RAI dated Nov. 25, 1997.
- Nov. 26, 1997 ABB letter requesting additional time to respond to NRC request, dated Nov. 3, 1997. NRC requested the licensee to provide the agency with additional information regarding Chapter 4, Criticality Safety. Since the changes requested in the licensee amendment were administrative, there is no safety significance associated with the requested delay.
- Dec. 31, 1997 ABB effluent monitoring report-July-December, 1997.
- FOLDER # 28**
- Dec. 11, 1995 International Atomic Energy Agency letter acknowledging receipt of licensee Dec. 4, 1995 letter informing the Agency that the Transitional Facility Attachments for the Hematite Nuclear Fuel Manufacturing Facility and B&W Fueling Company, Commercial Nuclear Fuel Plant, both dated May 23, 1995, are acceptable to US government. Attached are the Transitional Facility Attachments.
- Jan. 26, 1996 MDNR NPDES monitoring report for non-municipal wastewater discharges.
- Feb. 28, 1996 Semi-annual summery of radiological monitoring.
- Jan. 31, 1996 NRC letter granting an amendment to license SNM-33 to change criticality safety basis of the R-3 oxide conversion reactor. Revised license attached.

March 18, 1996 ABB letter, subject: **Request for Temporary Change to UF6 receipt Sampling Procedure**. This request is to amend the requirement of witness sampling described in the Fundamental Nuclear Materials Control Plan (FNMCP) for work order GES 3048.

Feb. 26, 1996 ABB effluent monitoring report-July through December, 1995

March 11, 1996 NRC letter informing the licensee of receiving the Technical Assistance Request, dated Feb. 8, 1996, for reviewing the Chem-Nuclear Systems, Inc., SNM license amendment application.

May 14, 1996 NRC letter enclosing some documents requested by the licensee: NUREG/CR-3387, and license application dated May 15, 1956, submitted by Mallinckrodt Chemical Works for SNM-33.

May 14, 1996 NRC letter acknowledging receipt of ABB amendment request dated May 3, 1996.

April 15, 1996 NRC letter amending the license to allow receipt of uranium hexafluoride cylinders under work order GES 3102 without providing for an individual to witness the sampling of those cylinders. Attached are the revised license and the Safeguards Evaluation Report. TAC L30864

April 22, 1996 NRC letter acknowledging receipt of licensee's application dated Jan. 26, 1996 regarding validation of criticality calculational methodology for complex systems. NRC review of the applications indicated some discrepancies between the revised pages and the application.

May 3, 1996 MDNR letter to NRC enclosing a letter from a private citizen and requesting any correspondence between NRC and the licensee regarding Tc-99 ground contamination. The two major events include NRC permission for the licensee to possess and process waste and to dispose of this waste(Tc-99).

May 8, 1996 ABB listing of authorized individuals to make license commitments and correspond with NRC

May 15, 1996 NRC acknowledgment of MDNR request to obtain NRC correspondence copies related to the licensee (ABB) and NRC communication related to granting the licensee an authorization to possess, process and dispose of Tc-99 waste.

May 16, 1996 MDNR letter to NRC requesting records in order to determine when and in what amounts high enriched uranium may have been processed at the Hematite plant.

- June 10, 1996 NRC letter in response to the MDNR request. Hematite plant was authorized to store and process high enriched uranium prior to 1974 by the Atomic Energy Commission. Currently NRC does not have any records pertaining to this matter. A DOE representative has been contacted in this matter.
- June 14, 1996 ABB letter, subject: License condition S-2, Source and identification of contamination in burial site well #4. The licensee is in agreement with NRC's conclusion that the available data does not conclusively determine the direction of the groundwater flow which could transport the contaminant from its source to the well. The licensee describes future steps taken in order to assess more adequately the source of beta activity in the burial area.
- June 7, 1996 ABB letter ensuring NRC that ABB recognizes the need to enhance the administrative elements of their criticality safety program. Within 6 weeks, the licensee will provide a detailed action plan to further strengthen the program.
- May 15, 1996 NRC letter, subject: **Protocol to Safeguards Agreement under NPT between USA and IAEA Transitional Subsidiary Arrangements**, providing the licensee with a copy of the Agreement and request licensee's consent to the amendment to incorporate the agreement into license SNM-33
- June 19, 1997 ABB letter acknowledging receipt of NRC letter dated May 15, 1996 and giving the licensee's consent to incorporate the USA/IAEA Safeguards Agreement into license SNM-33
- June 19, 1996 NRC letter acknowledging receipt of the licensee's letter (May 31, 96) in which the licensee informs NCR of a completed review conducted by CE regarding the status of the Hematite facility with regard to the NRC Draft Branch Technical Position on Chemical Safety. As a result of this review, a list of action items was identified. NRC is requesting a copy of the list of action items identified.
- June 21, 1996 NRC letter, subject: License Amendment Request for Validation of Criticality Calculational Method. License SNM-33 amended to incorporate documentation of the validation of the current criticality calculational methodology used for analyzing complex systems. Revised license and SER attached.
- July 11, 1996 NRC letter in response to the June 4, 96 ABB letter acknowledging ABB CE's efforts in collecting data to support conclusions drawn about Tc-99

source and expressing approval of the additional activities ABB CE is planning to obtain more information on the groundwater flow.

- July 12, 1996 NRC letter to MDNR enclosing NRC letter, dated June 14, 96 to the licensee regarding Tc-99 contamination and ABB CE's future steps taken regarding groundwater contamination.
- July 26, 1996 NPDES monitoring report for non-municipal wastewater discharges covering period 4/1/96-6/30/96.
- July 12, 1996 ABB letter enclosing a copy of the Final Status Survey for the Hematite site creek remediation activities. Based on the results of the report, no further actions are planned.
- July 16, 1996 ABB letter confirming an earlier discussion during which it was agreed that ABB submits its biennial update of the demonstration section of SNM-33 by Aug 31, 1996 which will fulfill the requirements of condition 1.6d.
- July 18, 1996 NRC letter granting the licensee an amendment to add a Safeguards License Condition SG-3.1 for implementation of the Transitional Facility Attachment (TFA). TAC L30865. Revised license and safeguards evaluation report attached.
- July 26, 1996 ABB letter transmitting effluent monitoring report- Jan. through July 1996.
- Aug 22, 1996 NRC memo informing of a chemical reaction event that occurred at the Hematite site on Aug 22, 96 in a scrap recovery tank outside of and behind the plant. As a result of the event, an AIT has been chartered. The objective of the team was to identify facts and generic safety concerns.
- Aug. 30, 1996 ABB letter, subject: **Biennial Update of SNM-33 Demonstration Sections**. Attached is the above document.
- Aug. 30, 1996 NRC letter acknowledging receipt of ABB letter dated Aug. 29, 96 that described corrective actions taken and re-start commitments developed in response to the Aug. 22, 96 chemical reaction event.
- Sept. 13, 1996 ABB letter requesting that the decommissioning of the 20.304 burial site located at Hematite, MO be postponed until the end of plant life. The burial site does not pose a threat to the public. Attached is the justification of such conclusion.

- Sept. 6, 1996 NRC letter acknowledging receipt of ABB amendment request dated Aug. 30, 1996.
- Sept. 20, 1996 ABB letter submitting Criticality Safety Program Update (CSPU) which consists of two components: The Criticality Safety Administrative Update and Criticality Analysis Update. The submission of the document fulfills ABB's commitment made during Aug. 14 meeting to transmit a plan and schedule which takes into account recognized industry standards and will strengthen licensee's criticality program.
- Sept. 30, 1996 ABB letter informing NRC on the status of conducting an integrated safety assessment of evaporation capacity versus long term production needs to restart the evaporation complex. As a result of the assessment, the team has issued an interim report with the purpose of proposing improvements to the currently planned filtrate system installation. The proposed modifications will be completed upon NRC approval.
- Oct. 10, 1996 ABB letter, subject: Request to amend the witness sampling procedure described in the Fundamental Nuclear Material Control Plan for work order GES 3102. Process described in the letter.
- Oct. 10, 1996 NRC letter acknowledging receipt of the amendment request dated Sept. 13, 96 applying for the decommissioning of the 20.304 burial site located at Hematite, MO to be postponed until the end of plant life.
- Oct. 11, 1996 NRC letter acknowledging receipt of the amendment request dated Sept. 20, 1996
- Oct 18, 1996 NRC letter acknowledging receipt of the amendment request dated Oct. 10, 1996 applying to amend the witness sampling procedure described in the Fundamental Nuclear Material Control Plan for work order GES 3102.
- Oct. 28, 1996 Memo, the FCSS Licensing Branch requesting technical assistance in reviewing CE's submittal dated Oct. 10, 1996 requesting for temporary change to UF6 receipt sampling procedure of Fundamental Nuclear Material Control Plan for work order GES 3102. Attached is the letter describing the process.
- Oct. 31, 1996 NRC letter acknowledging the receipt of a letter dated Sept. 6, 1996 which provided an update for the Demonstration Section.
- Nov. 5, 1996 NRC letter acknowledging receipt of letter from the licensee, dated Sept. 20, 1996, that transmitted CE's plan and schedule for Criticality Safety Program Update (CSPU).

- Nov. 6, 1996 Memo, the FCSS Licensing Branch requesting technical assistance in reviewing CE's submittal dated Sept. 3, 1996 regarding postponement of the decommissioning of the 20.304 burial site until the end of plant life.
- Nov. 21, 1996 ABB letter informing the NRC of the status of returning the evaporation system in service in regards to the letter dated Aug. 29, 1996. Essential actions have been satisfactorily completed and the 3 evaporations systems have been returned to service. Hazard analyses have been performed using the HAZOP method. A list of task actions accomplished for restart of evaporation system is attached.
- Nov. 7, 1996 NRC letter acknowledging the receipt of an amendment request dated Oct. 23, 1996.
- Nov. 12, 1996 ABB letter to inform NRC of a definitive completion date for the Integrated Safety Assessment Schedule to coordinate some of the completion dates with those in Criticality Safety Program. This letter encloses some final changes to the Sept. 20, 1996 letter.
- Nov. 18, 1996 NRC letter granting an amendment to increase the possession limit for uranium enriched to a maximum of 5.0 weight percent in the U-235 isotope from 12, 000 kilograms of U-235 to 20, 000 kilograms. Attached are the revised license and the Safety Evaluation Report. TAC L30919
- Nov. 19, 1996 NRC letter providing the licensee with a schedule to complete the Integrated Safety Assessment which NRC agrees with. It has been adjusted to be consistent with the schedule established for CE's criticality safety program update.
- Nov. 25, 1996 NRC letter denying licensee's earlier amendment request regarding the delay in decommissioning of the burial site 20.304 until the end of plant life. Licensee did not provide an adequate justification of such action.
- Dec. 9, 1996 ABB letter furnishing a schedule for the meeting that is to be held on Dec. 16, 1996 at the CE facility.
- Dec. 10, 1996 NRC letter informing the licensee of a structural reorganization within NRC.
- Dec. 20, 1996 ABB letter transmitting a copy of the first quarterly status report of CE's Criticality Safety Program Update (CSPU).

**FOLDER # 29**

May 23, 1994 ABB letter providing additional answers to NRC questions concerning the Hematite Decommissioning Funding Plan, submitted on May 28, 1993 and then additional information on Dec. 10, 1993.

July 29, 1994 ABB letter submitting a revised Schedule A of the Standby Trust Agreement associated with the Hematite Decommissioning Funding Plan.

Aug. 26, 1994 ABB letter providing NRC with an Effluent Monitoring Report covering period January through June, 1994.

Sept. 6, 1994 Memo. The FCSS Licensing Branch requests technical assistance in reviewing CE's submittal dated July 29, 1994, Schedule A of Standby Trust Agreement .

Sept. 29, 1994 NRC letter informing the licensee of a new MC&A licensing reviewer for the Hematite facility,

Sept. 30 ,1994 Memo from licensing branch informing the SCSS that the missing revision of Schedule A of the Standby Trust Agreement has been submitted to the licensing branch.

Sept. 30, 1994 ABB letter submitting the Pre-Fire Plan. No locations of smoke detectors indicated because the facility design concerning smoke detectors is currently in a state of change.

Oct. 26, 1994 ABB letter submitting the Hematite Evaporation Ponds Decommissioning Plan. The plan describes the decommissioning efforts previously initiated. The licensee, after further characterization assessments, will make a decision whether to continue with the proposed decommissioning plan or to close the ponds consistent with option 2 of the NRC branch technical position; Disposal or onsite storage of residual Thorium or Uranium from past operations"

Dec. 9, 1994 NRC letter acknowledging the receipt of the licensee's letter dated Sept. 30, 1994 submitting the Pre-Fire Plan.

Nov. 23, 1994 Memo. The FCSS Licensing Branch requests technical assistance in reviewing CE's Decommissioning Plan for the Evaporation Ponds transmitted by letter dated Oct. 26, 1994.

Nov. 3, 1994 NRC letter informing the licensee of a completed review of the Schedule A of the Standby Trust Agreement. No deficiencies were identified.

**FOLDER # 30**

- April 9, 1999 NRC license amendment to change the mailing addresses of the licensee's Corporate Offices and of the facility at which the licensed activity will be conducted. Revised license and SER attached.
- Jan. 26, 1996 Meeting Notice between NRC and ABB CE to discuss CE's plan to use byproduct material in Building 17 to be held on Feb. 7, 1996.
- Jan. 19, 1996 NRC letter in response to the licensee's letter dated Dec. 12, 1995 which contains discussion on the licensee aspects of the plant improvement projects. As concluded, the criticality safety bases, currently in Part I will not change unless licensee issues an amendment. For any other changes, CE will conduct a safety review and hazard analysis prior to change implementation. Also, an amendment required to change the safety basis from geometry to moderation control.
- Dec. 20, 1996 NRC letter amending the license to include a commitment for performing a portion of an Integrated Safety Assessment in which the NRC Branch Technical Positions on Requirements for Operation will be considered. Attached are the revised license and the Safety Evaluation Report. TAC L30801
- Dec. 14, 1995 Memo: Trip report to Hematite on Nov. 28, 1995. The purpose of the trip was to review the licensee's environmental protection program, specifically to inspect the ground water monitoring systems related to the evaporation ponds and the old burial site and to resolve questions concerning the source of Tc-99 contamination to burial site Well #14.
- Dec. 12, 1995 ABB letter documenting ABB/NRC discussion of the licensing aspects of the plant improvement projects. These projects include replacing the R-2 and R-3 oxide conversion reactors, addition of a second moderation controlled blender and improved material handling in the Erbium pellet line, equipment changes in press-feed preparation and in pellet grinding and inspection, addition of a 2<sup>nd</sup> Kardex pellet storage unit, and improvements in the work environment such as noise reduction and air conditioning.
- Nov. 27, 1995 NRC granting the licensee an amendment regarding the delay in conducting the next biennial emergency exercise. This is a one-time only exemption from the requirement. The exercise needs to be conducted no later than on April 30, 1995. Revised license and SER attached.
- Nov. 15, 1995 NRC memo containing a brief summary of the Nov. 7, 1995 meeting between ABB CE/NRC and enclosing some presentation material (slides) pertaining to topics discussed. Some issues discussed were the R-2 and R-3 oxide conversion reactors, addition of a second moderation controlled blender and improved material handling in the Erbium pellet line, equipment

changes in press-feed preparation and in pellet grinding and inspection, addition of a 2<sup>nd</sup> Kardex pellet storage unit, and improvements in the work environment such as noise reduction and air conditioning.

- Oct. 30, 1995 ABB letter enclosing the data on the height of water in the Hematite sample wells.
- Oct. 24, 1995 Meeting Notice between NRC and ABB CE to discuss CE's proposed modification in the facility Nuclear Safety to be held on Feb. 7, 1995.
- Oct. 11, 1995 ABB letter providing NRC with a list of individuals authorized to make license commitments and ABB's preferred distribution of correspondence.
- Sept. 28, 1995 NRC memo regarding a TAR dated July 10, 1995, which requested guidance on whether CE was authorized to 10 CFR 20.106 to make shipments of sewage to sewage treatment plant. The licensee made 1-3 shipments prior to Jan. 1994 of approximately 2000-5000 gallons of sewage/yr. Since the concentrations of U content, both in the suspended solids and liquid, was measured and the values were clearly below limits specified in 10 CFR 20, the license was in compliance with NRC regulations.
- Sept. 19, 1995 Public meeting notice to CE confirming a meeting scheduled on Oct. 3, 1995 to discuss plant operations and site creek Final Survey Plan.
- Sept. 9, 1995 ABB letter responding to NRC recommendations regarding the licensee's chemical safety program. The licensee disagrees with the NRC's interpretation of the MOU between NRC and OSHA and does not believe the NRC has the jurisdiction over the OSHA's PSM. However, the licensee took under considerations all of NRC's recommendations and developed procedures to implement them.
- Aug. 28, 1995 NRC letter informing the licensee of a completed review of the licensee's Pre-Fire Plan and enclosing comments and questions which were missing from the plan and need to be addressed by the licensee in the future.
- July 15, 1995 ABB letter sending the characterization and remediation plan for the site creek which was requested in NRC IR 070-0036/950002. The licensee's intention is to remediate the area so that the average concentration of U at depth of 10 cm is less than 30pCi/g.
- July 14, 1995 ABB letter providing additional information concerning Hematite burial site #4 in reference to NRC letter dated May 4, 1995. The letter discusses ground water flow, movement of the plume, construction and locations of the monitoring wells.

- July 10, 1995 NRC Regional TAR requesting guidance on whether CE was authorized to 10 CFR 20.106 to make shipments of sewage to sewage treatment plant. The licensee made 1-3 shipments prior to Jan. 1994 of approximately 2000-5000 gallons of sewage/yr. Attached are ABB documents concerning the shipments.
- June 12, 1995 DNR letter to the licensee requesting further information regarding the application and plans for the construction of a sludge de-watering facility at the Hematite plant before issuance of a construction permit.
- May 4, 1995 NRC letter requesting additional information to support the licensee's conviction that the existing wells are adequate to detect radionuclides in the groundwater that might migrate offsite.
- March 10, 1995 ABB letter clarifying some issues regarding an amendment request regarding decommissioning of former Evaporation Ponds. ABB is not seeking a release for unrestricted use of the evaporation ponds. Also, there exists conflicting information concerning the average concentration of radionuclides in the soil surrounding the ponds. Further characterization needs to be conducted.
- Feb. 22, 1995 ABB response to NRC Generic Letter which requested a statement on how the licensee will implement the guidance of Position 9, Fire Hazard Analysis, and Position 10, Pre-Fire Plan, of the technical position on fire protection for fuel cycle facilities published in Federal Register (57 FR 35607-13)
- Feb. 8, 1995 NRC letter requesting additional information on the request regarding the approval of decommissioning plan for the former evaporation ponds. An evaluation should demonstrate that ground water impact will not result in an unacceptable dose to the maximally exposed individual under a 1000-yr unrestricted use scenario.
- Jan. 27, 1995 NRC TAR regarding the Hematite Evaporation Ponds decommissioning Plan. A groundwater impact evaluation and a review of uranium solubility is recommended.
- Jan. 27, 1995 ABB submitting an evaluation report determining the source of contamination to Burial Site Well#4.
- Jan. 26, 1995 ABB letter providing the Hematite Integrated Safety Assessment schedule.

**FOLDER #31**

May 28, 1993 ABB letter submitting Decommissioning Funding Plan in compliance with 10 CFR 70.25 for the Hematite facility, license no. SNM-33

Oct. 29, 1993 ABB letter providing an update to the Hematite License Renewal Application reflecting changes in the plant and organization over the past few years. Additional info: the complete renewal process will be done in 3 stages: Part I(no chapter 4) of the application is submitted with this letter, Part II(no chapter 14) will be submitted in a month, Part III (chapter 4 and 14)will be completed on Jan 15, 94.

Nov. 24, 1993 ABB letter providing an update to the Hematite License Renewal Application submitting Part II to the License Renewal Application. Chapter 15 not included as originally intended.

Dec. 10, 1993 Hematite License Renewal Application Update-Chapter 13, Environmental Information requested by NRC to support environmental assessment. This letter provides data through the 3<sup>rd</sup> quarter of 1993.

Dec. 10, 1993 ABB letter responding to NRC questions on Decommissioning Funding Plan contained in Nov. 10, 1993 NRC letter.

Dec. 16, 1991 ABB response to environmental questions regarding material license no. SNM-33 Renewal Application. The NRC letters were dated Sept. 5 and Oct. 11, 1991.

Oct. 11, 1991 ABB response to environmental questions regarding material license no. SNM-33 Renewal Application. The NRC letter was dated Sept. 5, 1993.

July 19, 1990 ABB letter enclosing Certification of Financial Assurance and executed originals of the Payment Surety Bond and Standby Trust Agreement.

May 31, 1984 ABB letter enclosing the proposed plan for decommissioning the evaporation ponds. The plan is required by the license condition.

**FOLDER #32**

July 1983 NUREG/CR-3387, "Radiological Survey of the Combustion Engineering Burial Site Hematite, Missouri". (2 copies)

**FOLDER #33**

Oct. 28, 1993 ABB submitting a complete update to the Hematite Emergency Plan compiling information submitted on April 26, 93, and May 29, 93.

March 18, 1999 NRC letter amending license SNM-33 and incorporating changes made to the Emergency Plan. Attached are the revised license and SER.

Dec. 7, 1993 NRC amending license SNM-33 to incorporate CE's Emergency Plan. Attached are the revised license and SER.

**FOLDER #34**

May 4, 1995 NRC letter to Combustion Engineering regarding the notification that license SNM-33 was amended to incorporate the Hematite Evaporation Ponds Decommissioning Plan., attached are a materials license and SER TAC L30728

March 10, 1995 ABB letter clarifying some issues regarding an amendment request regarding decommissioning of former Evaporation Ponds. ABB is not seeking a release for unrestricted use of the evaporation ponds. Also, there exists conflicting information concerning the average concentration of radionuclides in the soil surrounding the ponds. Further characterization needs to be conducted.

Jan. 27, 1995 NRC TAR regarding the Hematite Evaporation Ponds decommissioning Plan. A groundwater impact evaluation and a review of uranium solubility is recommended.

Feb. 8, 1995 NRC letter requesting additional information on the request regarding the approval of decommissioning plan for the former evaporation ponds. An evaluation should demonstrate that ground water impact will not result in an unacceptable dose tot he maximally exposed individual under a 1000-yr unrestricted use scenario.

Dec. 8, 1994 NRC letter granting an amendment to incorporate into the license the revised Schedule A for the Standby Trust Agreement associated with the Hematite Decommissioning Funding Plan. Attached are the revised license and the Safety Evaluation Report. TAC L30729.

Nov. 23, 1994 Memo. The FCSS Licensing Branch requests technical assistance in reviewing CE's Decommissioning Plan for the Evaporation Ponds transmitted by letter dated Oct. 26, 1994.

Nov. 3, 1994 NRC letter informing the licensee of a completed review of the Schedule A of the Standby Trust Agreement. No deficiencies were identified.

Oct. 26, 1994 ABB letter submitting the Hematite Evaporation Ponds Decommissioning Plan. The plan describes the decommissioning efforts previously initiated. The licensee, after further characterization assessments, will make a decision whether to continue with the proposed decommissioning plan or to close the ponds consistent with option 2 of the NRC branch technical

position; Disposal or onsite storage of residual Thorium or Uranium from past operations”.

- Oct. 24, 1994 ABB letter requesting a license amendment to incorporate the July 29, 1994 letter into the license application. The letter concerned the revised Schedule A of the Standby Trust Agreement associated with the Hematite Decommissioning Funding Pan.
- Sept. 30, 1994 Memo from Division of Waste Management to FCSS informing that Division of Waste Management received the revised Schedule A of the Standby Trust Agreement despite the past assumption that the document is missing.
- Sept. 6, 1994 Memo. The FCSS Licensing Branch requests technical assistance in reviewing CE's submittal dated July 29, 1994, Schedule A of Standby Trust Agreement .
- July 29, 1994 ABB letter submitting a revised Schedule A of the Standby Trust Agreement associated with the Hematite Decommissioning Funding Plan.
- June 27, 1994 NRC letter informing the licensee of the Decommissioning Funding Plan documents. No deficiencies were identified.
- June 8, 1994 NRC TAR regarding the Decommissioning Funding Plan submittal dated May 23, 1994.
- May 23, 1994 ABB letter providing additional answers to NRC questions concerning the Hematite Decommissioning Funding Plan, submitted on May 28, 1993 and then additional information on Dec. 10, 1993.
- April 22, 1994 NRC letter informing the licensee of a completed review of the Decommissioning Funding Plan. NRC concluded that additional information is necessary providing the licensee with further questions concerning the plan.
- Dec. 22, 1993 NRC TAR to questions provided by the licensee on Dec. 10, 1993 regarding the Decommissioning Funding Plan
- Dec. 10, 1993 ABB letter responding to NRC questions on Decommissioning Funding Plan contained in Nov. 10, 1993 NRC letter.
- Nov. 10, 1993 NRC additional questions regarding the licensee's Decommissioning Funding Plan.

June 11, 1993 TAR to review the ABB's answers submitted May 28, 1993 in response to NRC's letter requesting additional info on the Decommissioning Funding Plan.

May 28, 1993 ABB letter submitting Decommissioning Funding Plan in compliance with 10 CFR 70.25 for the Hematite facility, license no. SNM-33.

April 8, 1993 NRC letter informing the licensee's of an approved date for the submission of the Decommissioning Funding Plan to be May 31, 1993.

March 15, 1993 ABB letter informing NRC of an earlier than originally proposed date for the submission of the Decommissioning Funding Plan to be May 31, 1993.

Feb. 8, 1993 ABB letter informing NRC of a date for the submission of the Decommissioning Funding Plan to be June 30, 1993.

Jan. 5, 1993 ABB letter informing NRC of its continuous efforts to submit the Decommissioning Funding Plan which was to be turned in on or about Dec. 12, 1992. Currently the plan is in its final stage of internal review.

April 1, 1992 ABB letter informing the NRC that a former experienced retired CE employee has been utilized as an outside consultant to produce the Decommissioning Funding Plan. On April 10, 1992, the employee tendered his resignation. The licensee's effort concentrated on getting a replacement in order to meet the deadline for turning in the plan.

Feb. 26, 1992 NRC letter permitting the licensee to submit the Decommissioning Funding Plan on or about Dec. 12, 1992.

Feb. 12, 1992 ABB letter informing the NRC of the planned date to submit the DFP to be Dec. 12, 1992.

Feb. 13, 1992 TAR to review the licensee's Decommissioning Funding Assurance.

Oct. 17, 1991 NRC letter informing the licensee that the proposed schedule for the submission of an emergency plan by the end of 1991 is acceptable. The submission of the Decommissioning Funding Plan scheduled for Jan. 1, 1995 is not acceptable.

Sept. 5, 1991 ABB letter proposing the dates for the submission of the Emergency Plan (end of 1991) and the submission of the DFP (Jan. 1, 1995)

Aug. 19, 1991 "Radiological Survey" by Oak Ridge Associates- Radiological Evaluation of Spent Limestones Piles Combustion Engineering, Hematite, MO.

- June 27, 1991 NRC letter clarifying NRC requirements for the Decommissioning Financial Assurance and Emergency Plans which must be addressed in any application for license renewal. A Decommissioning Funding Plan and Emergency planning is required in supplement to the application filed Nov. 22, 1989.
- Nov. 9, 1990 Memo; Demand for Information letter dated Nov. 2, 1990 was issued to Part 70 licensees.
- Nov. 2, 1990 NRC letter to some NRC licensees, including Hematite, to respond to the enclosed Demand for Information regarding compliance with 10 CFR 70.25. Licensee who exceeds possession limits listed in 70.25 must submit a decommissioning funding plan or certificate that financial assurance has been provided.
- July 19, 1990 ABB letter enclosing the Certification of Financial Assurance and executed originals of the Payment Surety Bond and Standby Trust Agreement in compliance with 10 CFR 70.25
- July 2, 1990 NRC letter permitting the licensee to backfill the excavated area of building 253 with limestone material stored onsite and to proceed with construction of the building.
- June 25, 1990 Follow up Radiological Survey of Construction Area, CE, Inc., Hematite, MO conducted by Oak Ridge Associated Universities.
- May 31, 1990 NRC letter permitting the licensee, due to factors that could endanger the building structure, to stop decontamination efforts, to refill the area in building 253 and to resume construction of the building.
- May 14, 1990 ABB letter requesting the approval to fill the excavated area under building 253 and resume construction. Decontamination efforts have been undertaken. Since the adjacent building 240 is still contaminated, excavation is already into the water table, and the column footings are endangered, further decontamination efforts appear to be futile. Also, since the average contamination levels meet guidelines, the area can be refilled and construction resumed.
- Dec. 13, 1989 NRC letter stating that the agency gave a presentation during the Congressional hearing and clearly stated in the General Accounting Office report that it will strengthen its decommissioning program by requiring licensee's monitoring of buried waste sites. As a result, the Hematite facility was required to demonstrate on continuing basis that the contamination at the facility is does not migrate to offsite areas.

- Dec. 7, 1989 Memo; PTSB review of proposed purchase of CE by ABB. PTSB believes the purchase does not pose any potential harm to the public since it will only be limited to the purchase of CE's stock and no internal restructuring is anticipated. However, PTSB expressed some concern on the financial status of both companies and their possible inability to pay for the decommissioning efforts.
- Oct. 19, 1989 NRC letter providing the licensee with the most recent results of the confirmatory survey performed by Oak Ridge Associated Universities, for phase 2 construction of the facility (Pelletizing building and warehouse) Residual contamination is greater than 30pCi/g for enriched U and the staff determined that additional decontamination is warranted.
- Sept. 21, 1989 Oak Ridge Associated Universities letter with survey results for phase 2 of construction facility (Pelletizing building and warehouse) at CE facility. Map attached
- Sept. 25, 1989 Oak Ridge Associated Universities letter with results of soil sampling downstream of limestone piles A and C at the Hematite facility taken on Aug. 10, 1989. The limestone contamination was within NRC guidelines but the readings taken from the soil samples adjacent to the limestone piles exceeded NRC limits.
- July 18, 1989 CE letter and survey results for the Utility/Support building area. Based on the results, residual contamination exceeds NRC limits.
- Dec. 20, 1989 CE letter and survey results of soil samples taken at the pelletizing area (new construction in place of building 250 and 251) before pouring the concrete for the new flooring. Prompt response requested.
- Oct. 31, 1989 NRC granting the licensee an amendment to delete Building 250 and 251. The licensee will construct a new manufacturing area in place of these buildings. Also, NRC requests soil samples survey results prior to pouring concrete for the flooring. Attached are the revised license, SER, Categorical Exclusion, and Building 250 and 251 Radiological Results.
- Oct. 26, 1989 Memo, DNMS to NMSS regarding the results of confirmatory surveys performed by an NRC inspector on Oct. 6-7, 1988, in buildings 250 and 251. On the basis of the survey results, NRC concurs with the licensee that the cleanup efforts were effective reducing the soil contamination and thus the licensee may release the buildings for "unrestricted use".
- Oct. 12, 1988 CE letter enclosing the radiological survey data. Surveys were performed for Buildings 250 and 251. No contamination detected.

- Jan. 12, 1979 CE letter providing the decommissioning plan for the Hematite facility and the cost estimate needed to decontaminate the site.
- Aug. 21, 1978 Memo; NRC decided to exempt the licensee from fees that would result from reviewing and approval of decommissioning, financial surety, and emergency plans.
- March 23, 1982 CE letter enclosing the decommissioning plan for the Hematite site.

**FOLDER # 35**

- Aug. 19, 1987 NRC Order: prohibits filling, heating, emptying, or delivering to a carrier for transport 48-inch and 30-inch diameter UF6 cylinders fitted with Superior Valve Co 1-inch alloy valves, and requires that all 1-inch alloy valves be carefully inspected.
- Nov. 24, 1982 NRC letter informing the licensee of a published Negative Declaration and an Environmental Impact Appraisal related to the renewal of License No. SNM-33. Above documents enclosed.
- Dec. 30, 1983 NRC letter enclosing License No. SNM-33 Renewal. Attached are the revised license and SER.
- Jan. 22, 1993 NRC letter enclosing copies of corrected pages which previously contained some errors. Corrections were made to two documents: FONSI and EA. Both documents were prepared on Dec. 21, 1992 to support the amendment of Materials License SNM-33 for authorization to consolidate all nuclear fuel manufacturing operations at the Hematite, MO facility.
- May 18, 1989 NRC letter enclosing copies of prepared FONSI and EA prepared to support amendment of Materials License Snm-33 to authorize startup testing and operation of new pellet production lines at Hematite facility.

**FOLDER #36**

- July 28, 1994 NRC letter enclosing License No. SNM-33 Renewal. Attached are the revised license and SER.
- March 17, 1994 NRC letter enclosing the EA and determined that the proposed action to renew Materials License SNM-33 is justified allowing to renew the license for 10 yrs. (2 copies)
- Dec. 21, 1992 NRC letter enclosing copies of prepared FONSI and EA prepared to support amendment of Materials License Snm-33 for authorization to consolidate all nuclear fuel manufacturing operations at Hematite, MO facility.

**FOLDER #37**

- Nov. 24, 1998 NRC IR and NOV: SNM was not handled or processed in accordance with the posted limits and controls applicable. On two instances, NRC inspector witnessed that the operators failed to place cover over the entire hole of micronizer hood for line 2 of the pellet pant and did not place a cover at all on the micronizer hood for line 1 while the hoppers were not in place for these hoods. Also, on Nov. 3, the chain for the secondary filter barrier on the 4<sup>th</sup> floor of the Oxide Plant was nor maintained at least 6 inches from the surface of the furnace.
- Nov. 20, 1998 ABB reply to an NOV cited during NRC inspection conducted on Sept. 14-18, 1998 regarding not following approved procedures while during certain operations which affected licensed material. Some operations where noncompliance was identified included: posting control tags, approving documents by management, conducting clean out activities, issuing a RWP, establishing an electrical lookout, maintaining facial seal, and failure to return lapel air samples.
- Oct. 21, 1998 NRC IR and NOV issued during Sept 14-18, 98 inspection. An NOV issued regarding not following approved procedures while during certain operations which affected licensed material. Some operations where noncompliance was identified included: posting control tags, approving documents by management, conducting clean out activities, issuing a RWP, establishing an electrical lookout, maintaining facial seal, and failure to return lapel air samples.
- Oct. 14, 1998 NRC letter acknowledging receipt of Aug. 27 and Oct. 5, 1998 letter of response to the NOV transmitted to the licensee July 30, 1998.
- Aug. 27, 1998 ABB reply to an NOV transmitted July 30, 1998 concerning plant staff failure to check certain equipment at weekly and monthly frequencies. Also, prior to July 16, 1998, a carboy 30-gallon container of nitric acid was stored in an area contaminated with oil and organic, combustible chemicals. In the NOV, the licensee described corrective actions taken and committed to enhancing its self-assessment program.
- Oct. 5, 1998 ABB providing additional information regarding NRC inspection and the subsequent NOV. In this letter, the licensee describes the reasons why certain self identified items were not corrected. Housekeeping issues and minor administrative problems were the main cause for not correcting self identified items in a timely manner.
- March 27, 1998 ABB response to URI established in report transmitted Feb. 18, 1998. The report pointed out potential weaknesses related to the implementation of

commitments contained in CE Emergency Plan. In the enclosed response to URI, the licensee recognizes that improvement can be made and commits to submitting changes to the EP regarding the extensive engineering controls.

**FOLDER #38**  
**Amendment # 43**

- June 17, 2002 Report prepared by BNFL, Inc.: **“Estimated Dose for a Bulk Container Fire at the Hematite Former Fuel Cycle Facility”**.
- Aug. 22, 2002 Westinghouse letter replacing in entirety an amendment application which was originally submitted on July 17, 2002. The letter also incorporated additional request for an amendment. To simplify records, this application is a stand-alone letter. Changes incorporated in the letter are: revise Chapter 8 (Emergency Plan), delete license condition SG-2.2, revise sections 1.4 and 1.5 of Chapter
- July 17, 2002 Westinghouse request for license amendment to remove requirement for emergency plan and to delete license condition SG-2.2. Attached is the **Estimated Dose for a Bulk Container Fire at the Hematite Former Fuel Cycle Facility**
- Aug. 22, 2002 Westinghouse letter informing NRC that its 2002 physical inventory started in July 22, 2002 and the licensee will be submitting a report on the inventory on or before Sept. 20, 2002. Also, Hematite’s name has been deleted from the listings of facilities provided for in Article 2 of the Protocol between US and IAEA.
- Aug, 28, 2002 Westinghouse letter submitting an application for an amendment to Quality Assurance Plan for the transportation of radioactive material from the Hematite facility. Attached is the revised QA plan.
- Sept. 4, 2002 Westinghouse letter submitting an application for license amendment to delete license condition SG-3.1. The request reflects the fact that Hematite has been deleted from the listings of facilities provided for in Article 2 of the Protocol between US and IAEA.
- Sept. 20, 2002 Westinghouse submittal of the 2002 physical inventory report.

**FOLDER #39**  
Dec. 12, 2002

NRC TAR requesting hydro geological and geological technical support related to the evaluation and assessment of the **Remedial Investigation Feasibility Study Work Plan** prepared by Leggette, Brashers and Graham, Inc. The document contains an evaluation of the potential sub-

surface and ground water impacts due to decommissioning of a former fuel fabrication facility at Hematite and the future activities that are planned to address the issue.

Dec. 3, 2002 MDNR letter to Westinghouse providing comments to the **Remedial Investigation Feasibility Study Work Plan**

**FOLDER C**

Oct. 29, 1993 ABB letter providing an update to the Hematite License Renewal Application reflecting changes in the plant and organization over the past few years. Additional info: the complete renewal process will be done in 3 stages: Part I(no chapter 4) of the application is submitted with this letter, Part II(no chapter 14) will be submitted in a month, Part III (chapter 4 and 14)will be completed on Jan 15, 94. Attached is Part I (Chapters 1-8)

Nov. 24, 1993 ABB letter providing an update to the Hematite License Renewal Application reflecting changes in the plant and organization over the past few years. Submittal of Part II to the License Renewal Application. Chapter 15 not included as originally intended

Jan. 14, 1994 ABB letter, subject: Hematite License Renewal-Chapter 15 Update and New 10 CFR 20 Changes. Above documents attached.

Jan. 28, 1994 ABB letter, subject: Hematite License Renewal- Chapters 4 and 14 Update (concerning criticality safety)

March 21, 1994 ABB letter, subject: Hematite License Renewal- Radiological Changes. Changes to Hematite license renewal application to radiological changes, as discussed during Feb. 10, 1994 meeting.

**FOLDER B**

April 20, 1994 ABB letter, subject: Hematite License Renewal- Criticality Changes, as discussed during the Feb. 10, 1994 meeting.

June 14, 1994 ABB letter submitting changes to Part I of the Hematite License Renewal Application as discussed on June 13, 1994.

Oct. 24, 1994 ABB letter requesting a license amendment to incorporate the July 29, 1994 letter into the license application. The letter concerned the revised Schedule A of the Standby Trust Agreement associated with the Hematite Decommissioning Funding Pan.

Jan. 28, 1995 ABB letter requesting an amendment reflecting the most recent revised organizational changes within the Hematite facility.

- Feb. 27, 1995      ABB amendment request to increase possession limits for the Hematite site. Such amendment would decrease the burden of maintaining SNM inventory.
- July 27, 1995      ABB letter providing an evaluation of the licensee's safety program against the BTP guidance. This letter also meets the commitment to propose license conditions within 1 year of renewal approval as a result of the evaluation.
- Oct. 31, 1995      ABB letter requesting a four month delay in conducting their biennial emergency exercise which is due Dec. 31, 1995.
- Dec. 15, 1995      ABB license request for R-3 oxide conversion reactor change. Replacement of the present multi-sectioned R-2 and R-3 reactors with 12 inch cylindrical reactors is a part of one of the plant improvement projects, discussed during Nov. 7, 1995 meeting.
- Jan. 26, 1996      ABB letter, Subject: **License Amendment Request for Validation of Criticality Calculational Method**. The letter encloses pages to license SNM-33 which have been revised to include the current criticality calculational methodology for complex systems, the SCALE-PC version 4.1 modular code system.
- May 29, 1996      ABB letter supplementing the licensee application regarding to validation of criticality calculational methodology for complex systems. NRC letter dated April 22, 1996 indicated some discrepancies between the revised pages and the application. The licensee made necessary corrections regarding this matter.
- Oct. 23, 1996      ABB letter requesting an amendment to increase the licensee's possession limit in order to eliminate undue burdens with respect to managing the special nuclear material inventory. The license possession limits will be exceeded in December due to delays in shipping finished fuel assemblies and receipts of UF6 and other shipments.
- Oct. 23, 1996      ABB letter enclosing a revised completion schedule for the Integrated Safety Assessment that was originally submitted to NRC on Jan. 26, 1996. Some changes to the schedule are being made as a result of an earlier underestimation of time needed to perform accurately an ISA for the oxide conversion process.
- Aug. 8, 1997      ABB letter enclosing revised pages to Part I, Chapters 1-6, of the Hematite SNM-33 license application to reflect the change in management structure which consolidates the Focused Factory and Production Managers into the

Director of Uranium Operations and adds responsibilities to the Directory of Regulatory Affairs.

- Aug. 11, 1997 ABB letter submitting a revision page to the Hematite Organizational Amendment Request dated 8/8/97. The original page contained a phrase where the word "the daily" was omitted from the description of the exception report prepared by HP of significant safety related problems.
- Aug. 13, 1997 NRC letter granting an amendment authorizing the organizational changes requested in letters dated 8/8/97 and 8/11/97. Revised license attached TAC L 30991
- Aug. 12, 1997 ABB letter, subject: "**Amendment request for unrestricted release of hydrofluoric acid**" ABB requests an amendment to its license to permit release of HF manufactured as a byproduct of the oxide conversion process for unrestricted commercial use. Attached is an analysis of a pathway for the HF Scrubber Liquid.
- Dec. 8, 1997 ABB letter responding to the NRC request dated Nov. 6, 1997. NRC needed additional information to authorize release of HF acid for unrestricted use. Also attached is a revised dose assessment for the proposed release of HF that supersedes any other assessments.
- Dec. 8, 1997 ABB letter providing NRC with revisions to sections 2-5 of the Fundamental Nuclear Control Plan. This is a supplement to the June 13, 1997 request for an amendment. The new changes incorporate organizational changes and UF6 sampling and measuring modifications.
- July 10, 1998 ABB letter submitting additional information supplement to the January 30, 1998, and June 11, 1998, revisions of Chapter 4, Criticality Safety. All the changes have been accounted for and Chapter 4 is being resubmitted. Chapter 4 and changes enclosed.
- Jan. 15, 1999 ABB letter submitting a revision to the Hematite Emergency Plan on sections pertaining to postulated fire and explosion incidents. Enclosed are the list of revised pages, and the affected pages.
- March 12, 1999 ABB letter submitting corrections to the address of the Hematite site which was incorrect on CE's earlier request for amendment to Chapter 1 of license SNM-33, dated February 23, 1999.
- June 3, 1999 ABB letter with an enclosed application for the Transfers and Amendments of materials license SNM-33 necessitated by the acquisition of Combustion Engineering, Inc by ABB Combustion Engineering Nuclear Power Inc.

Aug. 13, 1999      ABB letter with a submittal of license application pages affected by Corporate name change from CE to ABB CENP

Feb. 7, 2000      ABB C-E letter submitting the License SNM-33 application pages affected by Corporate name change from ABB CENP, Inc. to ABB C-ENP, Inc. Also, included are the revised Standby Trust Agreement and the security bond rider.

April 7, 2000      ABB C-E Nuclear Power letter providing NRC with a list of affected pages of the SNM-33 license application that were updated due to the name change from C-E Nuclear to CE Nuclear Power.

Dec. 22, 2000      **Plan for Completion of CSFPU Update Analyses**

March 6, 2001      Licensee letter up-dating information previously submitted in licensee letter dated December 22, 2000.

March 6, 2001      Licensee letter to the NRC. **Application for Transfer and Amendment of Materials License SNM-33- Submittal of Executed Decommissioning FA Documents**

August 2, 2001      Licensee letter RE: **Revised Submittal of License SNM-33 Pages-Downgrade, Organization Changes.**

Sept. 11, 2001      Licensee letter requesting license amendment "Notification of Cessation of all Principal Licensed Activities and Application for License Amendment to License SNM-33 to Change the Scope of the Authorized License Activities to the Performance of Decommissioning Activities"