NRC FORM 374
(7-94)

U.S. NUCLEAR REGULATORY COMMISSION

MATERIALS LICENSE

Amendment No. 42

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

OFFICIAL RECORD COPY

Licensee	
1. Combustion Engineering, Inc.	In accordance with the application dated April 23, 1996,
2. 2000 Day Hill Road P.O. Box 500 Windsor, Connecticut 06095-0500	3. License Number 06-00217-06 is amended in its entirety to read as follows:
	4. Expiration Date February 28, 2001
	5. Docket or Reference No. 030-03754

6. Byproduct, Source, and/or Special Nuclear Material	7. Chemical and/or Physical Form	8. Maximum Amount that Licensee May Possess at Any One Time Under This License
A. Any byproduct material with Atomic Numbers 1 through 83	A. Irradiated and/or contaminated reactor components, inspection and test equipment, test samples, monitoring instruments, reactor coolant samples, or calibration sources	A. uries
B. Any byproduct material with Atomic Numbers 84 through 103	B. Irradiated and/or contaminated reactor components, inspection and test equipment, calibration sources or reactor coolant samples	B. Not to exceed 3 millicuries per nuclide and 30 millicuries total
C. Source material	C. Irradiated and/or contaminated reactor components, inspection and test equipment, calibration sources or reactor coolant samples	C. 75 kilograms
D. Cesium 137	D. Sealed sources	D. 215 curies
E. Americium 241	E. Sealed neutron sources	E. Not to exceed 1 curie per source and 10 curies total
F. Americium 241	F. Sealed neutron sources	F. Not to exceed 10 curies per source and 100 curies total
G. Neptunium 237	G. Oxide wires	G. Not to exceed 0.5 millicuries per wire and 5 millicuries total
H. Uranium 233	H. Any	H. 1 gram
I. Uranium 235	I. Any	I. 7 grams
J. Uranium 235	J. Fission chambers	J. Not to exceed 1.7 grams per chamber and 13.6 grams total

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MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number: 06-00217-06

Docket or Reference Number: 030-03754

Amendment No. 42

K. Plutonium	K. Any	K. 1 milligram
L. Uranium 235	L. Any	L. 325 grams, including less than 5 kilograms UF_6
M. Natural and/or depleted uranium	M. Any	M. 10,000 kilograms, including less than 5 kilograms UF_6
N. Plutonium 238	N. Sealed sources	N. Not to exceed 1 gram per source and 4 grams total

9. Authorized use

A. through E. Research and development as defined in 10 CFR 30.4; possession incident to maintenance, repair, decontamination, and study of reactor components.

F. Testing and calibration of boron measuring devices and for distribution to persons holding operating reactor licenses and/or to persons authorized to receive the licensed materials pursuant to the terms and conditions of specific licenses issued by the Nuclear Regulatory Commission or an Agreement State.

G. through J. For possession, storage, and transfer to persons holding operating reactor licenses and/or to persons authorized to receive the licensed material pursuant to the terms and conditions of specific licenses issued by the Nuclear Regulatory Commission or an Agreement State.

K. For possession as surface contamination on tools or equipment incident to maintenance, repair, modification or storage.

L. Research and development as defined in 10 CFR 70.4 in the licensee's facilities located at Buildings 2, 5, 6, 17 and 18.

M. Research and development in the licensee's facilities located at Buildings 2, 5, 6, 17 and 18.

N. For storage only.

CONDITIONS

10. Licensed material may be used only at the licensee's facilities located at 2000 Day Hill Road, Windsor, Connecticut.

11. A. Licensed material shall be used by, or under the supervision of, individuals designated in writing by the Radiation Safety Committee, Dese A. Cirelli, Chairperson.

B. The Radiation Safety Officer for this license is Stephen M. Sorensen.

12. Licensed material shall not be used in or on human beings.

13. A. Sealed sources and detector cells containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed three years.

B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed three months.

C. In the absence of a certificate from a transferor indicating that a leak test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.

D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.

E. Sealed sources and detector cells need not be leak tested if:

(i) they contain only hydrogen-3; or

(ii) they contain only a radioactive gas; or

(iii) the half-life of the isotope is 30 days or less; or

(iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or

(v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transfer to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.

F. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source or detector cell shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within five days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source or detector cell involved, the test results, and corrective action taken.

G. The licensee is authorized to collect leak test samples for analysis by the licensee. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.

14. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.

15. The licensee shall not acquire licensed material in a sealed source or device unless the source or device has been registered with the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations of an Agreement State.

16. The licensee shall not use licensed material in field applications where activity is released except as provided otherwise by specific condition of this license.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
06-00217-06

Docket or Reference Number
030-03754

Amendment No. 42

17. The licensee shall conduct a physical inventory every six months to account for all sealed sources and devices containing licensed material received and possessed under the license.

18. Radioactive waste generated shall be stored in accordance with the statements, representations, and procedures included with the waste storage plan described in the licensee's application dated May 18, 1995.

19. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

20. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

A. Application dated May 18, 1995
B. Letter dated June 27, 1995
C. Letter dated November 15, 1995
D. Letter dated April 23, 1996
E. Letter dated July 10, 1996
F. Letter dated July 17, 1996
G. Letter dated August 16, 1996

For the U.S. Nuclear Regulatory Commission

Date SEP - 5 1996

By Original Signed By:
Duncan White

Nuclear Materials Safety Branch
Region I
King of Prussia, Pennsylvania 19406

SEP - 5 1996

Dese A. Cirelli
Director, Finance & Facilities Administration
Combustion Engineering, Inc.
2000 Day Hill Road
P.O. Box 500
Windsor, Connecticut 06095-0500

Dear Mr. Cirelli:

This refers to your license amendment request. Enclosed with this letter is the amended license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Thank you for your cooperation.

Sincerely,

ORIGINAL SIGNED BY:

Duncan White
Division of Nuclear Materials Safety

License No. 06-00217-06
Docket No. 030-03754
Control No. 123132

Enclosure:
Amendment No. 42

DOCUMENT NAME: R:\WPS\MLTR\L060021?.06
To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

OFFICE	DNMS/RI	N	DNMS/RI					
NAME	DWhite							
DATE	09/04/96		09/ /96		09/ /96		09/ /96	

OFFICIAL RECORD COPY **ML 10**

ABB
ASEA BROWN BOVERI

MS 16
Q-4

License No. 06-00217-06
Docket No. 030-03754
Mail Control No. 123132

August 16, 1996
DDH96014.amd
Page 1 of 1

Mr. Duncan White, Sr, Health Physicist
U.S. Nuclear Regulatory Commission
Licensing Assistance Section - Region I
475 Allendale Road
King of Prussia, PA 19406-1415

Dear Mr. White:

Please make page **60a changes to Section 10.7.2 Environmental Monitoring Evaluation,** as we discussed on the telephone. I have provided two (2) copies for your use.

Also, please find an original Surety Bond Rider in the amount of $3,600,000 to cover decommissioning costs for **both DFP parts 1 & 2. Please delete Attachments in both DFP Parts and replace with the new Attachment at the end of DFP Part 2.**

Please call me, at your convenience, if you require additional information.

Thank you for your assistance.

Regards,
Combustion Engineering, Inc.

Stephen M. Sorensen,
Radiation Safety Officer

OFFICIAL RECORD COPY

ML 10

123132

ABB Combustion Engineering Nuclear Power

Combustion Engineering Inc.
2000 DAY HILL ROAD
[redacted]
Post Office Box 500
Windsor, Connecticut 06095-0500
860
Telephone ([redacted]) 688-1911
Fax (203) 285-9512
Telex 99297 COMBEN WSOR

AUG 27 1996

Enclosure (1) to
DDH96014.amd
August 16, 1996

COMBUSTION ENGINEERING, iNC.
Broad Scope Radioactive Materials
License Amendment Application
Supplemental Information Changes

LIST OF AFFECTED PAGES

The pages of Materials License No. 06-00217-06, Docket 030-03754 are changed in accordance with the submitted letter DDH96011.amd dated August 16, 1996.

Delete Pages		Add Pages	
Page	Date	Page	Date
60a	7/10/96	60a	8/16/96
DFP PART 1			
ATT. 1 (ALL)	4/23/96		
DFP PART 2			
ATT. 1 (ALL)	7/10/96	DFP PART 2 ATT 1	8/16/96

Enclosure (1) to
DDH96014.amd
August 16, 1996

COMBUSTION ENGINEERING, iNC.
Broad Scope Radioactive Materials
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60a	7/10/96	60a	8/16/96
DFP PART 1 ATT. 1 (ALL)	4/23/96		
DFP PART 2 ATT. 1 (ALL)	7/10/96	DFP PART 2 ATT 1	8/16/96

Enclosure (2) to
DDH96013.amd
August 16, 1996

COMBUSTION ENGINEERING, INC.
Broad Scope Radioactive Materials
License Amendment Application
Supplemental Information Changes

LIST OF EFFECTIVE PAGES

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Pages	Date	Pages	Date
Supplemental Infformation Title Page		12 through 20	6/27/95
1	4/23/96	21	4/23/96
Table of Contents		22	4/23/96
		23	4/23/96
2	4/23/96	24	4/23/96
		24a	7/10/96
		25	4/23/96
Body		26	4/23/96
		27 through 34	5/18/95
3	4/23/96		
4	4/23/96		
5	7/10/96	35	
6	4/23/96	36	5/18/95
7	4/23/96	37	5/18/95
8	5/18/95	37a through 37l	11/15/95
9	5/18/95		
10	**7/17/96**		
11	11/15/95	38	5/18/95

LIST OF EFFECTIVE PAGES
(continued)

Pages	Date
39	5/18/95
39a	6/27/95
40	4/23/96
40a	4/23/96
41	5/18/95
42	6/27/95
43	5/18/95
RPS CAL - 03 (8 pages)	11/15/90
44	5/18/95
45	5/18/95
46	5/18/95
48	11/15/95
48a	11/15/95
49	5/18/95
50	5/18/95
RPI-4 (13 pages)	10/18/94
51	5/18/95
RPI-15 (7 pages)	2/27/95
52	5/18/95
53	6/27/95
54	11/15/95
54a	11/15/95
55	4/23/96
56	5/18/95
56a	7/10/96

Pages	Date
58	11/15/95
59	5/18/95
59a	11/15/95
60	7/10/96
60a	**8/16/96**
60b	11/15/95
60c	11/15/95
60d	11/15/95
60e	11/15/95
60f	11/15/95
EPA Compliance(2 pages)	3/6/95
60g	11/15/95
60g(1)	7/10/96
60h	11/15/95
60l	11/15/95
60j	11/15/95
61	11/15/95
RPS-01 (4 pages)	10/17/95
62	5/18/95
63	5/18/95
RPI-10	3/31/95
64	5/18/95

List of Effective Pages
(continued)

Pages	Date	Pages	Date
DFP Part 1			
1 through 37	4/23/96		
DFP Part 2			
1 through 7	4/23/96	17 through 24	4/23/96
8	**7/10/96**	**Attachment 1**	
9-10	4/23/96	**Rider to increase surety bond**	
11-16a	**7/10/96**	**(4 pages)**	**8/20/96**

COMBUSTION ENGINEERING, INC.
Broad Scope Radioactive Materials
License Amendment Application
Supplemental Information Changes

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7	4/23/96
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9	5/18/95
10	**7/17/96**
11	11/15/95
12 through 20	6/27/95
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24a	7/10/96
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35	
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37a through 37l	11/15/95
38	5/18/95

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54a	11/15/95
55	4/23/96
56	5/18/95
56a	7/10/96

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9-10	4/23/96	**Rider to increase surety bond**	
11-16a	**7/10/96**	**(4 pages)**	**8/20/96**

Compliance with 10 CFR 20.1302(b) is demonstrated through use of boundary TLD's in accordance with RPI-7 and through effluent air calculations performed in accordance with NESHAP's calculational model. The locations of the TLDs are shown on Figures 10.7-6A and 10.7-6B sample results from the TLD environmental monitoring are given of Figure 10.7-6C A sample report on compliance with EPA air effluent emissions standards is provided as Figure 10.7-5.

10.7.2 Environmental Monitoring Evaluation

Current and historical sample values from the environmental monitoring are statistically evaluated in order to demonstrate the effectiveness of the environmental controls. Valid sample data values are values which have allowances made for changes in analytical procedures over the past years and which were not obtained during known historical events that caused significant increases. The following provides a description of the analyses performed on the valid data for each sample type and location. Two criteria are established. If either criterion is violated, action will be taken to investigate the cause and remedial action will be taken as appropriate.

First, the log-normal mean and standard deviation of the twelve most recent sample values are determined. The log-normal distribution is a good representation of the sample data distribution. Action is taken if the current sample exceeds the mean plus 2.33 times the standard deviation.

Second, the data is evaluated to determine if there is a trend that might indicate continual small increases. Action is taken if four successive sample values exceed the mean plus standard deviation calculated from the twelve most recent sample values.

10.8 ALARA Program

Combustion Engineering is committed to keep radiation exposures As Low As Reasonably Achievable (ALARA). The ALARA Program as described in RPS-01 given for information in Figure 01.8.1

Figure 10.7-1

Compliance with 10 CFR 20.1302(b) is demonstrated through use of boundary TLD's in accordance with RPI-7 and through effluent air calculations performed in accordance with NESHAP's calculational model. The locations of the TLDs are shown on Figures 10.7-6A and 10.7-6B sample results from the TLD environmental monitoring are given of Figure 10.7-6C A sample report on compliance with EPA air effluent emissions standards is provided as Figure 10.7-5.

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Figure 10.7-1

CHUBB

CHUBB GROUP OF INSURANCE COMPANIES

15 Mountain View Road, P. O. Box 1615, Warren New Jersey 07061-1615

FEDERAL INSURANCE COMPANY

RIDER to be attached to and form a part of
Bond No. 81266980 wherein
FEDERAL INSURANCE COMPANY
is named as Surety, on behalf of
Combustion Engineering, Inc.
as Principal, in favor of
U.S. Nuclear Regulatory Commission
as Obligee, in the sum of Two million and 00/100 ($2,000,000.00)
dated 05/24/90, effective 08/20/96

IT IS HEREBY UNDERSTOOD AND AGREED that effective the 20th day of August 1996 the penalty of this bond is increased from Two Million and 00/100 ($2,000,000.00) to Three Million Six Hundred Thousand and 00/100 ($3,600,000.00) as to losses occurring after said effective date.

Provided, however, that the liability of the Principal and Surety hereon shall not be cumulative or in any event exceed the revised bond amount referred to herein.

The attached bond shall be subject to all its agreements, limitations and conditions except as herein expressly modified.

Signed, sealed and dated this 20th day of August, 1996.

Combustion Engineering, Inc.

By: _____ (SEAL)
Name:
Title:

FEDERAL INSURANCE COMPANY

By: _____ (SEAL)

Name: Catherine Rosano, Attorney-in-Fact
ATTORNEY-IN-FACT

If bond amount is being DECREASED sign below & return a copy **with original signature** to the Surety:
ACCEPTED

By: _____
(Signature of Obligee)
Name:
Title:

POWER OF ATTORNEY
FEDERAL INSURANCE COMPANY
ATTN: SURETY DEPARTMENT
15 Mountain View Road, Warren, NJ 07059
(908) 580-2000

Know all Men by these Presents, That **FEDERAL INSURANCE COMPANY**, an Indiana Corporation, has constituted and appointed, and does hereby constitute and appoint Vincent Moy, William J. Paterno and Catherine Rosano of New York, New York --------

each its true and lawful Attorney-in-Fact to execute under such designation in its name and to affix its corporate seal to and deliver for and on its behalf as surety thereon or otherwise, bonds or obligations (other than Bail Bonds) given or executed in the course of its business, and any instruments amending or altering the same, and consents to the modification or alteration of any instruments referred to in said bonds or obligations.

In Witness Whereof, the said **FEDERAL INSURANCE COMPANY** has, pursuant to its By-Laws, caused these presents to be signed by its Vice-President and Assistant Secretary, and its corporate seal to be hereto affixed this 21st day of June 19 94

Corporate Seal

Kenneth C. Wendel
Assistant Secretary

FEDERAL INSURANCE COMPANY
By
Gerardo G. Mauriz
Vice-President

STATE OF NEW JERSEY
County of Somerset } ss.

On this 21st day of June 19 94, before me personally came Kenneth C. Wendel to me known and by me known to be Assistant Secretary of **FEDERAL INSURANCE COMPANY**, the corporation described in and which executed the foregoing Power of Attorney, and the said Kenneth C. Wendel being by me duly sworn, did depose and say that he is Assistant Secretary of **FEDERAL INSURANCE COMPANY** and knows the corporate seal thereof; that the seal affixed to the foregoing Power of Attorney is such corporate seal and was thereto affixed by authority of the By-Laws of said Company, and that he signed said Power of Attorney as Assistant Secretary of said Company by like authority; and that he is acquainted with Gerardo G. Mauriz and knows him to be the Vice-President of said Company, and that the signature of said Gerardo G. Mauriz subscribed to said Power of Attorney is in the genuine handwriting of said Gerardo G. Mauriz and was thereto subscribed by authority of said By-Laws and in deponent's presence.

Notarial Seal

Acknowledged and Sworn to before me
on the date above written.

Janet A. Scarone
Notary Public

JANET A. SCARONE
Notary Public, State of New Jersey
My Commission Expires October 2, 1996

CERTIFICATION

STATE OF NEW JERSEY
County of Somerset } ss.

I, the undersigned, Assistant Secretary of **FEDERAL INSURANCE COMPANY**, do hereby certify that the following is a true excerpt from the By-Laws of the said Company as adopted by its Board of Directors on June 13, 1974 and most recently amended March 2, 1990 and that this By-Law is in full force and effect.

"ARTICLE XVIII

Section 2. All bonds, undertakings, contracts and other instruments other than as above for and on behalf of the Company which it is authorized by law or its charter to execute, may and shall be executed in the name and on behalf of the Company either by the Chairman or the Vice-Chairman or the President or a Vice-President, jointly with the Secretary or an Assistant Secretary, under their respective designations, except that any one or more officers or attorneys-in-fact designated in any resolution of the Board of Directors or the Executive Committee, or in any power of attorney executed as provided for in Section 3 below, may execute any such bond, undertaking or other obligation as provided in such resolution or power of attorney.

Section 3. All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the Vice-Chairman or the President or a Vice-President or an Assistant Vice-President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, Vice Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I further certify that said **FEDERAL INSURANCE COMPANY** is duly licensed to transact fidelity and surety business in each of the States of the United States of America, District of Columbia, Puerto Rico, and each of the Provinces of Canada with the exception of Prince Edward Island, and is also duly licensed to become sole surety on bonds, undertakings, etc., permitted or required by the law.

I, the undersigned Assistant Secretary of **FEDERAL INSURANCE COMPANY**, do hereby certify that the foregoing Power of Attorney is now in full force and effect.

Given under my hand and the seal of said Company at Warren, N.J., this _____ day of AUG 20 1996 19_____

Corporate Seal

Assistant Secretary

State of NEW YORK

County of NEW YORK

On this 20th day of August, 19 96 before me personally came Catherine Rosano who, being by me duly sworn, did depose and say that he/she is an Attorney-In-Fact of the **Federal Insurance Company,** and knows the corporate seal thereof; that the seal affixed to said annexed instrument is such corporate seal, and was thereto affixed by authority of the Power of Attorney of said Company, of which a Certified Copy is hereto attached, and that he/she signed said Instrument as an Attorney-In-Fact of said Company by like authority.

THERESA GIRALDO
NOTARY PUBLIC, State of New York
No. 01GI5023501
Qualified in Kings County
Commission Expires Feb. 7, 19 98

Acknowledged and sworn to before me
on the date above written

Notary Public Signature

FEDERAL INSURANCE COMPANY

STATEMENT OF ASSETS, LIABILITIES AND SURPLUS TO POLICYHOLDERS

Statutory Basis

DECEMBER 31, 1995

(in thousands of dollars)

ASSETS		*LIABILITIES AND SURPLUS TO POLICYHOLDERS*	
Cash	$ 5,102	Outstanding Losses and Loss Expenses	$4,904,156
United States Treasury Bonds	329,054	Unearned Premiums	1,114,215
United States Government and Federal Agency Guaranteed Bonds	432,767	Provision for Reinsurance	42,598
State and Municipal Bonds	3,751,147	Other Liabilities	410,848
Other Bonds	452,940	TOTAL LIABILITIES	6,471,817
Stocks	172,029		
Short Term Investments	754,662		
Other Invested Assets	178,294		
TOTAL INVESTMENTS	6,075,995		
Investments in Affiliates:			
Vigilant Insurance Company	435,739	Capital Stock	13,987
Great Northern Insurance Company	122,343	Paid-In Surplus	472,986
Pacific Indemnity Company	500,834	Unassigned Funds	1,347,361
Bellemead Development Corporation	416,578	Unrealized Appreciation of Investments	433,116
CC Canada Holdings Ltd.	97,135		
Other Affiliates	128,576	SURPLUS TO POLICYHOLDERS	2,267,450
Net Premiums Receivable	510,914		
Other Assets	451,153		
TOTAL ADMITTED ASSETS	$8,739,267	TOTAL LIABILITIES AND SURPLUS TO POLICYHOLDERS	$8,739,267

Investments are valued in accordance with requirements of the National Association of Insurance Commissioners.
Investments valued at $17,019 are deposited with government authorities as required by law.

State, County & City of New York, — ss:

Anna Maria Lovecchio, Assistant Secretary of the Federal Insurance Company being duly sworn, deposes and says that the foregoing Statement of Assets, Liabilities and Surplus to Policyholders of said Federal Insurance Company on December 31, 1995 is true and correct and is a true abstract of the Annual Statement of said Company as filed with the Secretary of the Treasury of the United States for the 12 months ending December 31, 1995.

Subscribed and sworn to before me
this _____ day of _____, 1996.

Helen S Brown
Notary Public

HELEN S BROWN
Notary Public, State of New York
No. 31-4682129
Qualified in New York County
Commission Expires December 31, 1996

Anna Maria Lovecchio
Assistant Secretary

Form 27-10-0071A (Rev. 12-95)

TELEPHONE CONVERSATON RECORD	**Date:** 8/12/96	**Time:** 9:45 am
Mail Control No.: 123132	**License :** 06-00217-06	**Docket No.:** 030-03754
Person Called: Stephen Sorensen Radiation Safety Officer	**Organization:** Combustion Engineering	**Telephone Number:** (860) 285-5285
Person Calling: Duncan White		
Subject: Financial Assurance Mechanism		
Summary: Based on a conversation with Sean Soong, NMSS Project Manager for CE's SNM license on August 7, 1996, it became apparent that the CE submittal dated 4/23/96 did not include all pages. Omitted from the application sent to Region I was a second rider to the surety bond, increasing the amount from 2 million to 4 million dollars. Mr. Sorensen agreed to forward another original to Region I. Mr. Sorensen indicated that some of the language on page 60 of the CE license application maybe modified to assure that the environmental program under the byproduct license is similar to the SNM license (CE has requested that NMSS amend the SNM license to drop the environmental monitoring program).		
Action Required/Taken: MS 15		
Signature: Duncan White	**Date:** August 12, 1996	

OFFICIAL RECORD COPY ML 10

TELEPHONE CONVERSATON RECORD	**Date:** 7/29/96	**Time:** 8:30 am
Mail Control No.: 123132	**License** : 06-00217-06	**Docket No.:** 030-03754
Person Called: Sean Soong Project Manager for CE's SNM license	**Organization:** NMSS	**Telephone Number:** (301) 415-8155
Person Calling: Duncan White		
Subject: Transfer of Funding Mechanism for DFP from SNM to Byproduct license		
Summary: 1. According to Sean, the 1990 Surety Bond and rider issued in 1992 specifically name the SNM license on the bond. Transfer of this bond to the byproduct license will require, at a minimum, an additional rider to the 1990 bond. 2. NMSS has not yet determine the level of financial assurance (FA) for the SNM license after Building 17 is transfered to the byproduct, resulting in the license being reduced in scope. The licensee has proposed that no FA is needed. The issuance of this amendment will require coordination with NMSS since the scope of the SNM license must be reduced prior to transfering the surety bond to the byproduct license.		
Action Required/Taken: NMSS will sent copies of the 1990 surety bond and the 1992 rider to RI; continue coordination with NMSS.		
Signature: Duncan White D White	**Date:** July 29, 1996	

ABB
ASEA BROWN BOVERI

MS 16
Q-4

License No. 06-00217-06
Docket No. 030-03754
Mail Control No. 123132

July 18, 1996
DDH96012.amd
Page 1 of 1

Mr. Duncan White, Sr, Health Physicist
U.S. Nuclear Regulatory Commission
Licensing Assistance Section - Region I
475 Allendale Road
King of Prussia, PA 19406-1415

Dear Mr. White:

Please make page **11,12,13, & 14 changes to DFP Part 2** as we discussed today on the telephone. I have provided two (2) copies for your use. Sorry about the confusion.

Please call me, at your convenience, if you require additional information.

Thank you for your assistance.

Regards,
Combustion Engineering, Inc.

Stephen M. Sorensen,
Radiation Safety Officer

OFFICIAL RECORD COPY **ML 10**

123132
JUL 22 1996

ABB Combustion Engineering Nuclear Power

Combustion Engineering Inc.
1000 Prospect Hill Road
Post Office Box 500
Windsor, Connecticut 06095-0500

Telephone (203) 688-1911
Fax (203) 285-9512
Telex 99297 COMBEN WSOR

Enclosure (1) to
DDH96012.amd
July 18, 1996

COMBUSTION ENGINEERING, iNC.
Broad Scope Radioactive Materials
License Amendment Application
Supplemental Information Changes

LIST OF AFFECTED PAGES

The pages of Materials License No. 06-00217-06, Docket 030-03754 are changed in accordance with the submitted letter DDH96011.amd dated July 18, 1996. The pages of the **DFP Part 2** which are affected are listed below.

Delete Pages		Add Pages	
Page	Date	Page	Date
11	4/23/96	11	7/10/96
12	4/23/96	12	7/10/96
13	4/23/96	13	7/10/96
14	4/23/96	14	7/10/96

Enclosure (2) to
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July 18, 1996

COMBUSTION ENGINEERING, INC.
Broad Scope Radioactive Materials
License Amendment Application
Supplemental Information Changes

LIST OF EFFECTIVE PAGES

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Pages	Date	Pages	Date
Supplemental Information Title Page		12 through 20	6/27/95
1	4/23/96	21	4/23/96
Table of Contents		22	4/23/96
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2	4/23/96	24	4/23/96
		24a	7/10/96
		25	4/23/96
Body		26	4/23/96
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7	4/23/96	37	5/18/95
8	5/18/95	37a through 37l	11/15/95
9	5/18/95		
10	**7/17/96**		
11	11/15/95	38	5/18/95

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46	5/18/95
48	11/15/95
48a	11/15/95
49	5/18/95
50	5/18/95
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51	5/18/95
RPI-15 (7 pages)	2/27/95
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53	6/27/95
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54a	11/15/95
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59	5/18/95
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60a	7/10/96
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60c	11/15/95
60d	11/15/95
60e	11/15/95
60f	11/15/95
EPA Compliance(2 pages)	3/6/95
60g	11/15/95
60g(1)	7/10/96
60h	11/15/95
60i	11/15/95
60j	11/15/95
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RPS-01 (4 pages)	10/17/95
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63	5/18/95
RPI-10	3/31/95
64	5/18/95

List of Effective Pages
(continued)

Pages	Date	Pages	Date
DFP Part 1			
1 through 37	4/23/96		
Attachment 1 Rider to increase surety bond (4 pages)	4/23/96		
DFP Part 2			
1 through 7	4/23/96	17 through 24	4/23/96
8	**7/10/96**	Attachment 1 Rider to increase surety bond (3 pages)	4/23/96
9-10	4/23/96		
11-16a	**7/10/96**		

Table 5.2
Planning and Preparation
(Table 1 of Appendix F, Reg. Guide 3.66)

1. Preparation of Documentation for Regulatory Agencies

Staff	Hours	Rate	Cost
H.P. Engineer	300	$50.90	$15,270.00
Project Manager	80	$50.90	$4,072.00
Clerical	200	$10.96	$2,192.00
		Total	$21,534.00

2. Submission of Decommissioning Plan to NRC when required by 10 CFR 30

Staff	Hours	Rate	Cost
H.P. Engineer	1000	$50.90	$50,900.00
Project Manager	200	$50.90	$10,180.00
Clerical	400	$10.96	$4,384.00
		Total	$65,464.00

3. Development of Work Plans

Staff	Hours	Rate	Cost
H.P. Engineer	500	$50.90	$25,450.00
Project Manager	125	$50.90	$6,362.50
Clerical	200	$10.96	$2,192.00
		Total	$34,004.50

Table 5.2 (Cont.)
Planning and Preparation
(Table 1 of Appendix F, Reg. Guide 3.66)

4. Procurement of Special Equipment

Staff	Hours	Rate	Cost
H.P. Engineer	100	$50.90	$5,090.00
Project Manager	100	$50.90	$5,090.00
Clerical	40	$10.96	$438.40
		Total	$10,618.40

5. Staff Training

Staff	Hours	Rate	Cost
H.P. Engineer	40	$50.90	$2,036.00
Project Manager	0	$50.90	$0.00
Clerical	100	$10.96	$1,096.00
H.P. Supervisor	500	$41.70	$20,850.00
		Total	$23,982.00

6. Characterization of Radiological Condition of Facility

Staff	Hours	Rate	Cost
H.P. Engineer	100	$50.90	$5,090.00
Project Manager	100	$50.90	$5,090.00
Clerical	100	$10.96	$1,096.00
H.P. Supervisor	200	$41.70	$8,340.00
		Total	$19,616.00

Table 5.2 (Cont.)
Planning and Preparation
(Table 1 of Appendix F, Reg. Guide 3.66)

7. Other

Staff	Hours	Rate	Cost
H.P. Engineer	200	$50.90	$10,180.00
Project Manager	200	$50.90	$10,180.00
Clerical	200	$10.96	$2,192.00
H.P. Supervisor	200	$41.70	$8,340.00
		Total	$30,892.00

Total $206,110.90

Table 5.3
Cost for Surveying Non-contaminated Areas
(Table 3 of Appendix F, Reg. Guide 3.66)

3. Cost of griding /surveying non-contaminated areas.

Building	Area (ft^2)	Hours	Rate	Cost
17	66,000	1150	$22.00	$25,288.00

4. Cost of Instrumentation support and supplies.

Building	Area (ft^2)	Hours	Rate	Cost
17	----	200	$31.90	$6,380.00
Supplies	----	-----	-----	$5,000.00

5. Cost for collecting and analyzing volumetric samples

Building	Area (ft^2)	Hours	Rate	Cost
17	-----	200	$50.90	$10,180.00
Grid layout		1128	$22.00	$22,560.00
Collecting	----	150	$24.85	$3,727.50
Analyses (300 @ $60 each)	----	----	----	$18,000.00

Total $ 91,135.50

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License No. 06-00217-06
Docket No. 030-03754
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July 17, 1996
DDH96011.amd
Page 1 of 1

Mr. Duncan White, Sr, Health Physicist
U.S. Nuclear Regulatory Commission
Licensing Assistance Section - Region I
475 Allendale Road
King of Prussia, PA 19406-1415

Dear Mr. White:

Please make the indicated change of **page 10** of our License document in order to update all of the organizational changes within Combustion Engineering, Inc. that affect the license.

I'm hopeful you can process this minor change along with our current changes.

Please call me, at your convenience, if you require additional information.

Thank you for your assistance.

Regards,
Combustion Engineering, Inc.

Stephen M. Sorensen,
Radiation Safety Officer

OFFICIAL RECORD COPY **ML 10**

123132

ABB Combustion Engineering Nuclear Power

JUL 19 1996

Combustion Engineering Inc.
1000 Prospect Hill Road
Post Office Box 500
Windsor, Connecticut 06095-0500
Telephone (203) 688-1911
Fax (203) 285-9512
Telex 99297 COMBEN WSOR

Enclosure (1) to
DDH96011.amd
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COMBUSTION ENGINEERING, iNC.
Broad Scope Radioactive Materials
License Amendment Application
Supplemental Information Changes

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10	5/18/95	10	7/17/96

Figure 7.1-2
Radiation Safety Officer Certification

We certify that the individual named in this license to perform the function of Radiation Safety Officer:

1. Has read and understands the NRC regulations applicable to this license and the specific conditions in the license;

2. Has sufficient technical knowledge to perform the duties of a Radiation Safety Officer;

3. Has and will continue to have sufficient time to perform the duties of the Radiation Safety Officer;

4. Has and will continue to get sufficient resources to accomplish the tasks of the Radiation Safety Officer;

5. Is completely willing to perform the functions of the Radiation Safety Officer; and

6. Has and will continue to receive the support of the management of this license in ensuring that all licensed activities will be conducted in accordance with NRC regulations and the specific terms of the license.

Radiation Safety Officer

Applicant _____ Date 7/15/96
S. M. Sorensen
Radiation Safety Officer

Corporate Officer/Certifying

Official _____ Date 7/16/96
M.F. Barnoski
Vice President, Combustion Engineering, Inc.
President, ABB Combustion Engineering Nuclear Operations

Enclosure (2) to
DDH96011.amd
July 17, 1996

COMBUSTION ENGINEERING, INC.
Broad Scope Radioactive Materials
License Amendment Application
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8	7/10/96	Attachment 1 Rider to increase surety bond (3 pages)	4/23/96
15	7/10/96		
16	7/10/96		
16a	7/10/96		

TELEPHONE CONVERSATON RECORD	**Date:** 7/18/96	**Time:** 8:45am
Mail Control No.: 123132	**License** : 06-00217-06	**Docket No.:** 030-03754
Person Called: Stephen Sorensen Radiation Safety Officer	**Organization:** Combustion Engineering	**Telephone Number:** (860) 285-5285
Person Calling: Duncan White		
Subject: DFP for Building 17		
Summary: The revised DFP costs in Table 4.2 for Building 17 attached to the licensee July 10, 1996 letter included revised costs for Table 5.2 (Planning and Preparation) and Table 5.3 (Cost for Surveying Non-Contaminated Areas). Tables 5.2 and 5.3 were not included. The licensee agreed to provide these revised Tables.		
Action Required/Taken: MS 15		
Signature: Duncan White DWhite	**Date:** July 18, 1996	

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MS 16
Q-4

License No. 06-00217-06
Docket No. 030-03754
Mail Control No. 123132

July 10, 1996
DDH96010.amd

Mr. Duncan White, Sr, Health Physicist
U.S. Nuclear Regulatory Commission
Licensing Assistance Section - Region I
475 Allendale Road
King of Prussia, PA 19406-1415

Dear Mr. White:

This is in reference to your letter of June 12, 1996, requesting additional information so that you might continue with your review of our License No. 06-00217-06 amendment application.

With regard to Building #6:

1.a. A representative sample of the liquid effluent will be taken from any retention tank and analyzed for compliance against applicable limits in 10 CFR 20.1301, should discharge be required to local surface waters.

1.b. A description of the air sampler, sampling frequency, and filtration is shown on page 24a (new). Please replace page 24a. We confirm that effluents will be discharged in compliance with the applicable limits in 10 CFR 20.1301.

1.c. Solid waste form the evaporator system will be collected as a sludge in containers suitable for drying, using resistance barrel heaters, then shipped offsite as solid LLRW, after appropriate analyses.

(Please note: An executive summary of the evaporator system is provided on new page 24a). Please replace page 24a.

OFFICIAL RECORD COPY ML 10

123132

Combustion Engineering Inc.
1000 Prospect Hill Road
Post Office Box 500
Windsor, Connecticut 06095-0500
Telephone (203) 688-1911
Fax (203) 285-9512
Telex 99297 COMBEN WSOR

JUL 15 1996

2. Building #6 **will not** be used for extended interim waste storage without prior notification to the Commission, appropriate license amendment and procedural changes.

3. A new page, numbered 56a describes the type and frequency of radiation and contamination surveys that will be performed in Building #17 and its environs. These surveys will evaluate both Byproduct and SNM radiation and contamination to assure any residual as well as "new" radioactive materials are properly identified.
(Please insert page 56a in revised Section 10.6 of the application)

4. Section 10.7 "Environmental Monitoring" has been revised to include surveys at the boundary of the restricted area around Building #17 and the appropriate effluent air sampling and analyses to demonstrate compliance with 10 CFR 20.1301.
{Please replace pages 60 and 60a, add page 60g(1)}

5. We confirm that all records of information important to the decommissioning of Building #17, including all licensed and decommissioning activities performed under NRC License No SNM-1067 will be maintained in accordance with 10 CFR 30.35(g).

6. **Attachment A** provides results of our confirmatory survey performed this year. However, further surveys will be made as reconstruction progresses to assure that no areas in the proposed unrestricted area exceed NRC limits for unrestricted areas. If areas that exceed the specfied limits are found occupancy may be postponed until remediation has been completed. Additionally areas within the proposed restricted area that are found to be contaminated in excess of the action levels in Figure 10.6-3 of our application, will be remediated as soon as possible, after discovery.

7. With regard to Part 2 of the Decommissioning Funding Plan:

   a. Surveys to show Bays A and B are unrestricted areas in accordance with NRC guidelines are part of **Attachment A**. However, these surveys are of a confirmatory nature only. Our intent is to perform contamination surveys, as appropriate during the demolition and reconstruction phases of the project. If areas are found to be contaminated in excess of NRC guidelines for unrestricted use, they will be remediated prior to occupancy.

b. Table 5.4-A has been revised to reflect the appropriate cost for the dismantlement of the proposed ventilation system in building 17. Please replace **page 15** of DFP Part 2.

c. Table 5.4-b has been revised to reflect the proper surface area hence cost of the floor, walls, roof and mezzanine of Building 17. Please replace **page 16** of DFP Part 2.

d. Table 5.4-c has been added to DFP Part 2 to include the cost of dismantling and removal of the underground pipes in Building 17. Please add **page 16a** to DFP Part 2.

Please replace page 8 of DFP Part 2 to account for the above revisions

Additionally please replace the following pages of the application due to editorial and organizational changes: Pages 5 and 9.

If you have questions or requre additional information, please call or fax me at the following: (P) 860-285-5285 (F) 860-285-2540. Thank you, in advance for your assistance.

Regards,
Combustion Engineering, Inc.

Stephen M. Sorensen,
Radiation Safety Officer

Att: Confirmatory Surveys
Replacement/Additional Pages

License No. 06-00217-06
Docket No. 030-03754
Mail Control No. 123132

July 10, 1996
DDH96010.amd
Attachment A

Attachment A

Radiological Survey of Building 17

ABB
ASEA BROWN BOVERI

Inter-Office Correspondence

To: S.M. Sorensen

L. Cabrera

cc: J. Conant
D. Cirelli
J. Kulik
J. Limbert
B. Mandeville
S. Masciulli
R. Sheeran
B. Pagel

June 18, 1996

Memo: 96-LJC-052-B17

References: (1) Memo, R.E. Sheeran to J.J. Kulik, dated January 11, 1996

(2) Memo, L. Cabrera to S.M. Sorensen, dated April 15, 1996

(3) Memo, S.M. Sorensen to S. Masciulli, dated May 7, 1996

Subject: Closure Report - Determination of Radiological Conditions In the Building 17 Complex Project

INTRODUCTION

CENO requested that SRS provide radiological engineering support services for the "Determination of Radiological Conditions In the Building 17 Complex Project" in January 1996.

SCOPE OF WORK

The scope of the project included: achieving reasonable assurance that the radiolog.cal conditions in the Building 17 Complex are known; minimization of the potential for unknown sources of contamination; and establishment and documentation of baseline radiological conditions.

Evaluation of the Building 17 Complex was conducted by radiological surveys which consisted of the following: large area smears used to detect the presence of loose surface alpha and beta contamination, proportional detector scans and integrated measurements used to detect the presence of fixed alpha and beta contamination, and volumetric samples used to detect the presence of total uranium and Uranium-235 activity. Areas within the Building 17 Complex that were surveyed included: the Guard House, Building 2901, the Compressor

Building, the Office Areas, Bays "A", "B", and "C", and the Building 17 roof (See Figure 1).

The criteria used to determine if areas within the Building 17 Complex were contaminated (Table 9) was obtained from the Building 17/21 Decommissioning Plan, SNM-1067 License, and the 06-00217-06 Radioactive Material License.

PROCEDURE AND RESULTS

The floors, ceilings, and the Bay "C" roof were monitored using 1 square meter grids and the walls were monitored using 2 square meter grids. Large area smears were obtained over approximately 3 square meter areas. Approximately 5% of all grid areas were monitored with the exception of the Bay "C" and its roof, in which 20% was monitored. Also, all accessible cracks and crevices were 100% surveyed.

Alpha and beta scans and integrated measurements were performed using a gas flow proportional counter. The integrated count time was set at 1 minute for each sample point. All large area smears and the Bay "C" roof volumetric samples (i.e., roof rocks and tar paper) were analyzed by gamma spectroscopy. Below is a summary of the results:

GUARD HOUSE

A 5% radiological survey of the Guard House was performed. Fixed contamination levels up to 22,000 dpm/100 cm^2 beta, with an average of 5,507 dpm/100 cm^2 beta were found. The Guard House was the only area surveyed which had contamination levels greater than the release criteria levels from both licenses. The survey results are presented in Table 1.

OFFICE AREA

A 5% survey was conducted of the Office Areas. No contamination levels were found to exceed the release criteria levels from either license. The highest contamination levels found for fixed contamination were 180 dpm/100 cm^2 alpha and 2000 dpm/100 cm^2 beta. Both the alpha and beta levels for loose surface contamination were below MDA. The survey results are presented in Table 2.

BUILDING 2901

A 5% survey was conducted of Building 2901. No contamination levels were found to exceed the release criteria levels from either license. The highest contamination levels found for fixed contamination were 225 dpm/100 cm^2 alpha and 1312 dpm/100 cm^2 beta. Both the alpha and beta levels for loose surface contamination were below MDA. The survey results are presented in Table 3.

COMPRESSOR BUILDING

A 5% survey was conducted of the Compressor Building. No contamination levels were found to exceed the release criteria levels from either license. The highest contamination levels found for fixed contamination were 40 dpm/100 cm^2 alpha and 280 dpm/100 cm^2 beta. Both the alpha and beta levels for loose surface contamination were below MDA. The survey results are presented in Table 4.

BAY "C" ROOF

A 20% survey was conducted of the Bay "C" roof. The survey consisted of direct alpha and beta measurements of the gravel and tar roof. Volumetric samples of gravel and surface tar (surface scrapings) were also collected due to the potential for attenuation of the alpha and beta when using the proportional detector. The volumetric samples were taken from the same location that the direct alpha and beta measurements were taken. Fixed contamination levels were found up to 120 dpm/100 cm^2 alpha and 700 dpm/100 cm^2 beta for gravel and 106 dpm/100 cm^2 alpha and 400 dpm/100 cm^2 beta for tar. Volumetric contamination levels were found up to 745 dpm/100 cm^2 alpha and 324 dpm/100 cm^2 beta for gravel and 16,208 dpm/100 cm^2 alpha and 7,047 dpm/100 cm^2 beta for tar. The survey results are presented in Table 5.

BAY "A"

A 5% survey was conducted of Bay "A". No contamination levels were found to exceed the release criteria levels from either license. The highest contamination levels found for fixed contamination were 60 dpm/100 cm^2 alpha and 1300 dpm/100 cm^2 beta. Both the alpha and beta levels for loose surface contamination were below MDA. The survey results are presented in Table 6.

BAY "B"

A 5% survey was conducted of Bay "B". No contamination levels were found to exceed the release criteria levels from either license. The highest contamination levels found for fixed contamination were 60 dpm/100 cm^2 alpha and 1560 dpm/100 cm^2 beta. Both the alpha and beta levels for loose surface contamination were below MDA. The survey results are presented in Table 7.

BAY "C"

A 20% survey was conducted of Bay "C". Fixed contamination levels were found up to 3,600 dpm/100 cm^2 alpha (north wall less than 6 feet) and 68,000 dpm/100 cm^2 beta (floor) with an average of 6,305 dpm/100 cm^2 alpha and 880 dpm/100 cm^2 beta were found. The survey results are presented in Table 8.

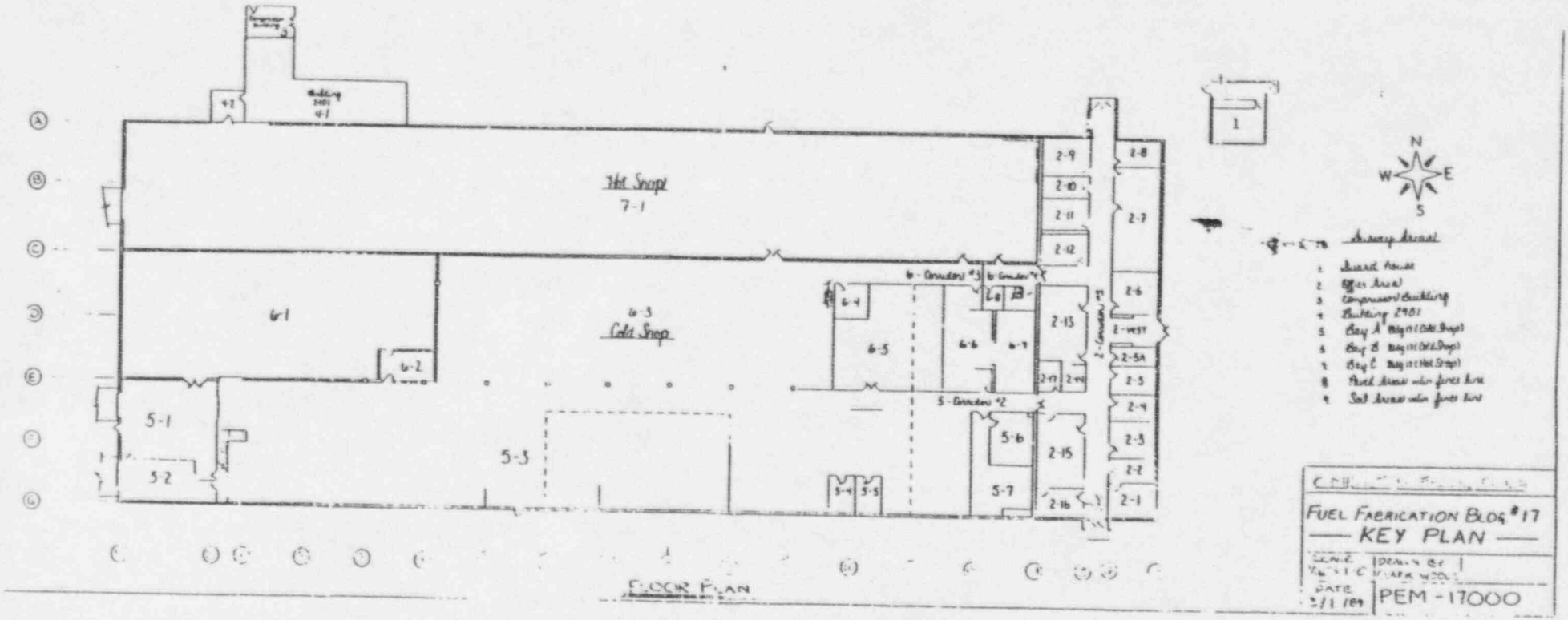


FIGURE 1
BUILDING 17 COMPLEX MAP

TABLE 1
LOCATION #1 (Guard House)

SUMMARY OF SURVEY RESULTS

Location	Scans/Integrated Measurements dpm/100 cm^2				Removable	
	Average (Beta)	Highest (Beta)	Average (Alpha)	Highest (Alpha)	Alpha (dpm/100 cm^2)	Beta (dpm/100 cm^2)
East Wall	N/D	N/D	2	6	<1	<5
West Wall	77	232	4	12		
South Wall	[1]5,507	[1]22,000	N/D	N/D		
North Wall	N/D	N/D	N/D	N/D		
Ceiling	257	300	6	12		
Floor (Carpet)	[1]8,853	[1]22,000	9	25		

(1) Exceeds both the 06-00217-06 Radioactive Material License and the Building 17/21 Decommissioning Plan Under SNM-1067 License unrestricted release limits (See Table 2).

TABLE 2
LOCATION #2 (Office Area)

SUMMARY OF SURVEY RESULTS

Location	Scans/Integrated Measurements dpm/100 cm^2				Removable	
	Average (Beta)	Highest (Beta)	Average (Alpha)	Highest (Alpha)	Alpha (dpm/100 cm^2)	Beta (dpm/100 cm^2)
2-1	93	240	N\D	5	<1	<5
2-2	190	240	10	15		
2-3 and 2-4	113	335	3	10		
2-5	N\D	28	N\D	N\D		
2-5A	116	240	4	6		
2-6	N\D	10	6	35	N\D	N\D
2-7	45	164	9	24		
2-8	118	180	23	35		
2-9	131	380	22	40		
2-10	87	150	N\D	10	N\D	N\D
2-11	576	1300	40	60		
2-12	447	1000	15	25		
2-13	80	224	7	48		
2-14	N\D	100	N\D	5	N\D	N\D
2-15	N\D	120	N\D	N\D		
2-16	N\D	160	N\D	24		
2-17	133	160	10	18		
2-Corridor #1	513	2000	48	180		
2-Vest	N\D	15	N\D	8		

TABLE 3
LOCATION #3 (Compressor Room)

SUMMARY OF SURVEY RESULTS

Location	Scans/Integrated Measurements dpm/100 cm^2				Removable	
	Average (Beta)	Highest (Beta)	Average (Alpha)	Highest (Alpha)	Alpha (dpm/100 cm^2)	Beta (dpm/100 cm^2)
Floor	214	280	N\D	40	<1	<5
Ceiling	N\D	N\D	N\D	N\D	<1	<5
South Wall	N\D	N\D	N\D	N\D	<1	<5
North Wall	N\D	N\D	N\D	N\D		
East Wall	N\D	200	N\D	N\D		
West Wall	N\D	N\D	N\D	N\D		

TABLE 4
LOCATION #4 (Building 2901)

SUMMARY OF SURVEY RESULTS

Location	Scans/Integrated Measurements dpm/100 cm^2				Removable	
	Average (Beta)	Highest (Beta)	Average (Alpha)	Highest (Alpha)	Alpha (dpm/100 cm^2)	Beta (dpm/100 cm^2)
Floor	180	340	14	40	<1	<5
Ceiling	N\D	N\D	N\D	10	<1	<5
South Wall	441	978	47	225	<1	<5
North Wall	446	1272	12	18		
East Wall	460	1312	8	12		
West Wall	105	163	10	15		

TABLE 5
BAY "C" ROOF

SUMMARY OF SURVEY RESULTS

Location	Scans/Integrated Measurements dpm/100 cm^2				Volumetric[2]	
	Average (Beta)	Highest (Beta)	Average (Alpha)	Highest (Alpha)	Alpha (dpm/100 cm^2)	Beta (dpm/100 cm^2)
Gravel	112	700	10	120	373 - 745	162 - 324
Tar	106	400	12	50	1,335 - 16,208[1]	580 - 7,047[1]

(1) Exceeds both the 06-00217-06 Radioactive Material License and the Building 17/21 Decommissioning Plan Under SNM-1067 License unrestricted release limits (See Table 2).

(2) Since the potential for multiple roof layers existed which could negatively impact direct measurement readings, volumetric samples were also collected of the gravel and tar and analyzed by gamma spectroscopy. The gamma spectroscopy results were converted from pCi/g to dpm 100 cm^2, since most of the surface areas were 100 cm^2.

TABLE 6
LOCATION #5 (Bay "A")

SUMMARY OF SURVEY RESULTS

Location	Scans/Integrated Measurements dpm/100 cm^2				Removable	
	Average (Beta)	Highest (Beta)	Average (Alpha)	Highest (Alpha)	Alpha (dpm/100 cm^2)	Beta (dpm/100 cm^2)
Floor	332	1300	13	60	<1	<5
Ceiling	167	480	14	24	<1	<5
South Wall > 6 feet	64	100	2	6	<1	<5
South Wall < 6 feet	76	120	3	6		
North Wall > 6 feet	493	600	2	6	<1	<5
North Wall < 6 feet	310	520	6	18		
West Wall > 6 feet	200	360	2	8	<1	<5
West Wall < 6 feet	60	140	2	12		
East Wall > 6 feet	180	240	3	6	<1	<5
East Wall < 6 feet	100	220	2	6		

TABLE 7
LOCATION #6 (Bay "B")

SUMMARY OF SURVEY RESULTS

Location	Scans/Integrated Measurements dpm/100 cm^2				Removable	
	Average (Beta)	Highest (Beta)	Average (Alpha)	Highest (Alpha)	Alpha (dpm/100 cm^2)	Beta (dpm/100 cm^2)
Floor	478	1060	13	36	<1	<5
Ceiling	217	560	8	18	<1	<5
South Wall > 6 feet	489	880	9	18	<1	<5
South Wall < 6 feet	586	1540	19	60		
North Wall > 6 feet	343	760	8	12	<1	<5
North Wall < 6 feet	240	480	8	12		
West Wall > 6 feet	200	360	3	6	<1	<5
West Wall < 6 feet	175	260	8	12		
East Wall > 6 feet	220	400	2	6	<1	<5
East Wall < 6 feet	807	1560	12	36		

TABLE 8
LOCATION #7 (Bay "C")

SUMMARY OF SURVEY RESULTS

Location	Scans/Integrated Measurements dpm/100 cm^2				Removable	
	Average (Beta)	Highest (Beta)	Average (Alpha)	Highest (Alpha)	Alpha (dpm/100 cm^2)	Beta (dpm/100 cm^2)
Floor	1081	68000	105	2600	<1	<5
Ceiling	77	180	6	10	<1	<5
South Wall > 6 feet	1205	5200	203	750	<!	<5
South Wall < 6 feet	4953	52000	160	800		
North Wall > 6 feet	6305	22044	680	3600	<1	<5
North Wall < 6 feet	2219	10800	154	415		
West Wall > 6 feet	4140	4140	880	880	<1	<5
West Wall < 6 feet	4952	8964	445	695		
East Wall > 6 feet	160	160	75	75	<1	<5
East Wall < 6 feet	140	280	N/D	N/D		

TABLE 9

06-00217-06 Radioactive Material License Limits For Unrestricted Release			
Removable Contamination (dpm/100 cm^2)		Fixed Contamination (dpm/100 cm^2)	
Alpha	Beta/Gamma	Alpha	Beta/Gamma
10	200	1000	5000

SNM-1067 License Limits For Unrestricted Release			
Removable Contamination (dpm/100 cm^2)		Fixed Contamination (dpm/100 cm^2)	
Alpha	Beta/Gamma	Alpha	Beta/Gamma
1000	434	5000	2175

Enclosure (1) to
DDH96010.amd
July 10, 1996

COMBUSTION ENGINEERING, iNC.
Broad Scope Radioactive Materials
License Amendment Application
Supplemental Information Changes

LIST OF AFFECTED PAGES

The pages of Materials License No. 06-00217-06, Docket 030-03754 are changed in accordance with the submitted amendment application dated July 10, 1996. The pages of the Supplemental Information and Decommissioning Funding Plan which are affected are listed below.

Delete Pages

Page	Date
5	4/23/96
9	11/15/95
24a	4/23/96
60	11/15/95
60a	11/15/95

Add Pages

Page	Date
5	7/10/96
9	7/10/96
24a	7/10/96
56a	7/10/96
60	7/10/96
60a	7/10/96
60g(1)	7/10/96

DFP Part 2

Delete Pages

Page	Date
8	4/23/96
15	4/23/96
16	4/23/96

Add Pages

Page	Date
8	7/10/96
15	7/10/96
16	7/10/96
16a	7/10/96

Enclosure (2) to
DDH96010.amd
July 10, 1996

COMBUSTION ENGINEERING, INC.
Broad Scope Radioactive Materials
License Amendment Application
Supplemental Information Changes

LIST OF EFFECTIVE PAGES

The pages of Materials License No. 06-00217-06, Docket 030-03754 are changed in accordance with the submitted amendment application dated July 10, 1996. The pages of the Supplemental Information and Decommissioning Funding Plan which are currently effective are listed below.

Pages	Date
Supplemental Infformation Title Page	
1	4/23/96
Table of Contents	
2	4/23/96
Body	
3	4/23/96
4	4/23/96
5	**7/10/96**
6	4/23/96
7	4/23/96
8	5/18/95
9	5/18/95
10	**7/10/96**
11	11/15/95
12 through 20	6/27/95
21	4/23/96
22	4/23/96
23	4/23/96
24	4/23/96
24a	**7/10/96**
25	4/23/96
26	4/23/96
27 through 34	5/18/95
35	
36	5/18/95
37	5/18/95
37a through 37l	11/15/95
38	5/18/95

LIST OF EFFECTIVE PAGES
(continued)

Pages	Date
39	5/18/95
39a	6/27/95
40	**4/23/96**
40a	**4/23/96**
41	5/18/95
42	6/27/95
43	5/18/95
RPS CAL - 03 (8 pages)	11/15/90
44	5/18/95
45	5/18/95
46	5/18/95
48	11/15/95
48a	11/15/95
49	5/18/95
50	5/18/95
RPI-4 (13 pages)	10/18/94
51	5/18/95
RPI-15 (7 pages)	2/27/95
52	5/18/95
53	6/27/95
54	11/15/95
54a	11/15/95
55	4/23/96
56	5/18/95
56a	**7/10/96**

Pages	Date
58	11/15/95
59	5/18/95
59a	11/15/95
60	**7/10/96**
60a	**7/10/96**
60b	11/15/95
60c	11/15/95
60d	11/15/95
60e	11/15/95
60f	11/15/95
EPA Compliance(2 pages)	3/6/95
60g	11/15/95
60g(1)	**7/10/96**
60h	11/15/95
60I	11/15/95
60j	11/15/95
61	11/15/95
RPS-01 (4 pages)	10/17/95
62	5/18/95
63	5/18/95
RPI-10	3/31/95
64	5/18/95

List of Effective Pages
(continued)

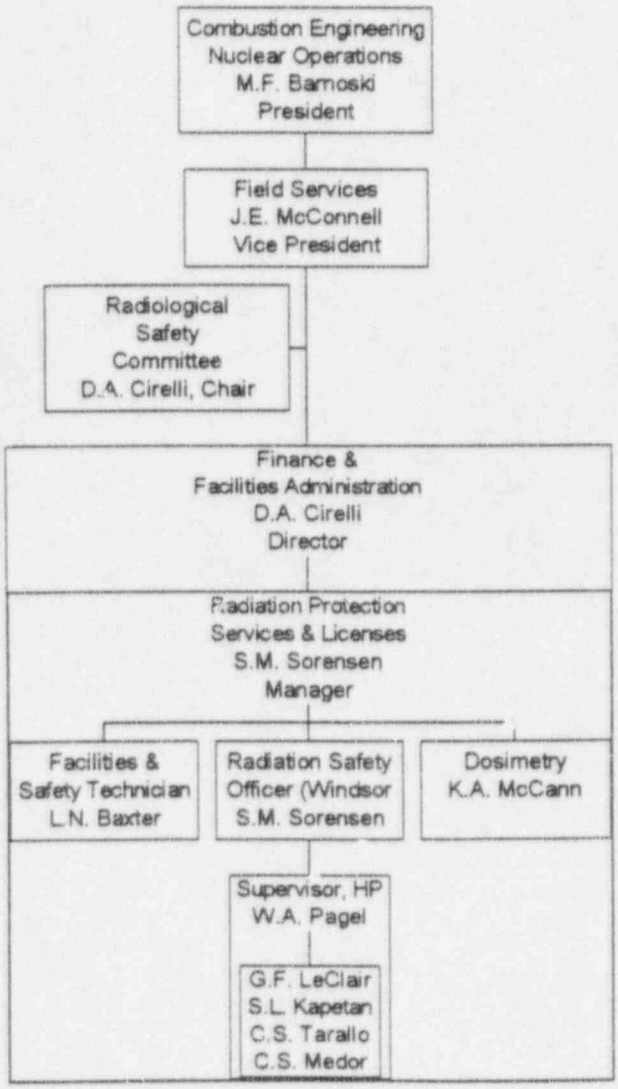
Pages	Date	Pages	Date
DFP Part 1			
1 through 37	4/23/96		
Attachment 1 Rider to increase surety bond (4 pages)	4/23/96		
DFP Part 2			
1 through 7	4/23/96	17 through 24	7/10/96
8	7/10/96	Attachment 1 Rider to increase surety bond (3 pages)	4/23/96
15	7/10/96		
16	7/10/96		
16a	7/10/96		

5 Radioactive Material

The following categories of radioactive material, with corresponding forms and possession limits, are requested:

Byproduct, Source, and/or Special Nuclear Material	Chemical and/or Physical Form	Possession Limit
A. Any byproduct material with Atomic Numbers 1 through 83	A. Irradiated and/or contaminated reactor components, inspection and test equipment, test samples, monitoring instruments, reactor coolant samples, or calibration sources	A. 50 Curies
B. Any byproduct material with Atomic Numbers 84 through 103	B. Irradiated and/or contaminated reactor components, inspection and test equipment, calibration sources or, reactor coolant samples	B. Not to exceed 3 millicuries per nuclide and 30 millicuries total
C. Any source material	C. Irradiated and/or contaminated reactor components, inspection and test equipment, calibration sources or reactor coolant samples	C. 75 kilograms
D. Cesium 137	D. Sealed Sources	D. 215 Curies
E. Americium 241	E. Sealed neutron sources	E. Not to exceed 1 Curie per source and 10 Curies total
F. Americium 241	F. Sealed neutron sources	F. Not to exceed 10 Curies per source and 100 Curies total
G. Neptunium 237	G. Oxide Wires	G. Not to exceed 0.5 millicuries per wire and 5 millicuries total
H. Uranium 233	H. Any	H. 1 gram
I. Uranium 235	I. Any	I. 7 grams
J. Uranium 235	J. Fission chambers (sealed)	J. Not to exceed 1.7 grams per chamber and 13.6 grams total
K. Plutonium	K. Any	K. 1 milligram
L. Uranium 235	L. Any	L. 325 grams, including < 5Kg UF_6
M. Natural and/or Depleted Uranium	M. Any	M. 10,000 KgU, including < 5Kg UF_6
N. Plutonium 238	N. Sealed Sources	N. < 1 gram each not to exceed 4 grams total

Figure 7.1-1
Organization Chart



Executive Summary

Building 6 Wastewater Processing System

The basic setup, operation, and sampling criteria of the Building 6 wastewater processing system is described as follows:

Using an automated and computerized system, the wastewater entering building 6 will be diverted into one of five "A-Side" retention tanks (2,000 gallons each). The system will be programmed to discharge wastewater from "A-Side" retention tanks through a strainer and two (2) filter units, in series, using a centrifugal pump. The strainer will remove particles of 10 microns or greater, the first filter will remove particles of 1.0 micron or greater and the second filter will remove particles of 0.5 microns or greater. The wastewater will then be collected in one of five "B-Side" retention tanks (2,000 gallons each).

Once on the "B-Side", the wastewater will be sampled and analyzed to determine radioactivity concentrations. Administrative concentration limits(typically 0.1-0.01 of 10 CFR 20 App. B Table 2 limits) will be established to ensure airborne effluent concentrations comply with 10 CFR 20.1301 and license commitments. If the concentration meets the administrative discharge limit, the wastewater will be pumped to the evaporator unit for processing. If the wastewater does not meet the limit, the water is recirculated through the strainer and filter units and diverted back to the "B-Side" retention tanks. This process will be performed until the concentration meets the administrative limits. If the wastewater does not meet the limits, after repeated processing, alternative means will be used to ensure air effluent concentration limits are met (solidification by a contractor being one alternative).

The system will be programmed to evaporate wastewater that meets administrative limits, from the "B-Side" retention tanks. The water vapor will be discharged though an unfiltered discharge stack that is continuously and isokinetically sampled when the system is in operation. Any concentrated sludge will be collected and dried, using resistance heaters. The dried sludge will then be disposed of as solid LLRW, in accordance with all appropriate rules and regulations.

Figure 10.6-2a
Building 17 Complex
Survey Requirements

Item	Survey Location	Frequency	Contamination Survey	Radiation Survey
1	Control Zone Buffer Zones	Daily[1,2]	X	
2	Building 17 Office Spaces	Weekly	X	X
3	Building 17 Restricted Areas	Weekly	X	X
4	Control Zones	Weekly[1,3]	X	X
5	Restricted Area Boundary	Weekly		X
6	Building 2901	Monthly	X	

[1] When in use; monthly when not in use.

[2] No map required. Health Physics personnel perform the required surveys and acceptability of survey results is acknowledged on the weekly report.

[3] Prior to a new RWP being issued for change of work scope when radilogical conditions could materially change.

10.7 Environmental Monitoring

10.7.1 Environmental Monitoring, Sampling and Counting

Environmental monitoring is accomplished by the Windsor Site Environmental Monitoring Program. This program examines uranium content, alpha radioactivity and beta radioactivity in surface and well waters, river sediment, soil, vegetation, and atmospheric fallout. A gamma spectrum is performed on selected river sediment, soil, vegetation and atmospheric fallout samples. Fourteen(14) on-site routine sampling stations have been established at designated points for collection of quarterly atmospheric fallout samples. Semi-annually, soil and vegetation samples are also collected at these fourteen (24) on-site locations, and four(4) additional locations off-site. Figure 10.7-1 shows the onsite locations; Figure 10.7-2 shows the offsite locations; and Figure 10.7-3 lists the sample frequency and analyses.

The characteristics of the formation sampled by the well water sampling are indicated by the well drilling logs in figure 10.7-4 for Well No. 1 and Well No. 2, that are located on the site map in Figure 10.7-1. Figure 10.7-7A shows the site on a topographic map of the area. The site maybe recognized in the bottom center of the map by comparison with Figure 10.7-1. Drainage basins for the same area as shown on the topographic map and to the same scale area shown on Figure 10.7-7B.

Airborne effluent monitoring for each building, is performed by the use of isokinetic stack and ventilation samplers with constant air monitors for some systems and fixed sample pumps for others. The constant air monitors are set to alarm at 20% of the DAC values specified for Co-60. The fixed sample collection media are counted daily except weekends when the pumps are allowed to run over the weekend. The samples are counted on the next working day after the weekend. No work with radioactive material is allowed without a member of the RSOS on site.

The sample pump flowmeters are calibrated every six months. The constant air monitors are calibrated every three months and the response is checked daily. all calibration sources and equipment are NIST traceable. Samples are collected daily for byproduct and weekly for uranium and are counted on a Canberra Model 2400/2404 gas proportional counter, or equivalent, with a typical LLD of 1E-12 microcuries/ml for Co-60 and 1E-14 microcuries/ml for uranium. Equipment may be changed without prior notification of the NRC, provided, the effectiveness of the monitoring is not diminished. Effluent are sample values are revised daily by the RSOS and the RSO is notified if any sample value approached 0.2 DAC for any isotope or a visual alarm occurs on the C.A.M.s.

Compliance with 10 CFR 20.1302(b) is demonstrated through use of boundary TLD's in accordance with RPI-7 and through effluent air calculations performed in accordance with NESHAP's calculational model. The locations of the TLDs are shown on Figures 10.7-6A and 10.7-6B sample results from the TLD environmental monitoring are given of Figure 10.7-6C A sample report on compliance with EPA air effluent emissions standards is provided as Figure 10.7-5.

10.7.2 Environmental Monitoring Evaluation

Current and historical sample values from the environmental monitoring are statistically evaluated in order to demonstrate the effectiveness of the environmental controls. Valid sample data values are values which 1) are above the threshold of detection, 2) have allowances made for changes in analytical procedures over past years and 3) were not obtained during known historical events that caused significant increases. The following provides a description of the analyses performed on the valid data for each sample type and location. Two criteria are established. If either criterion is violated, action will be taken to investigate the cause and remedial action will be taken as appropriate.

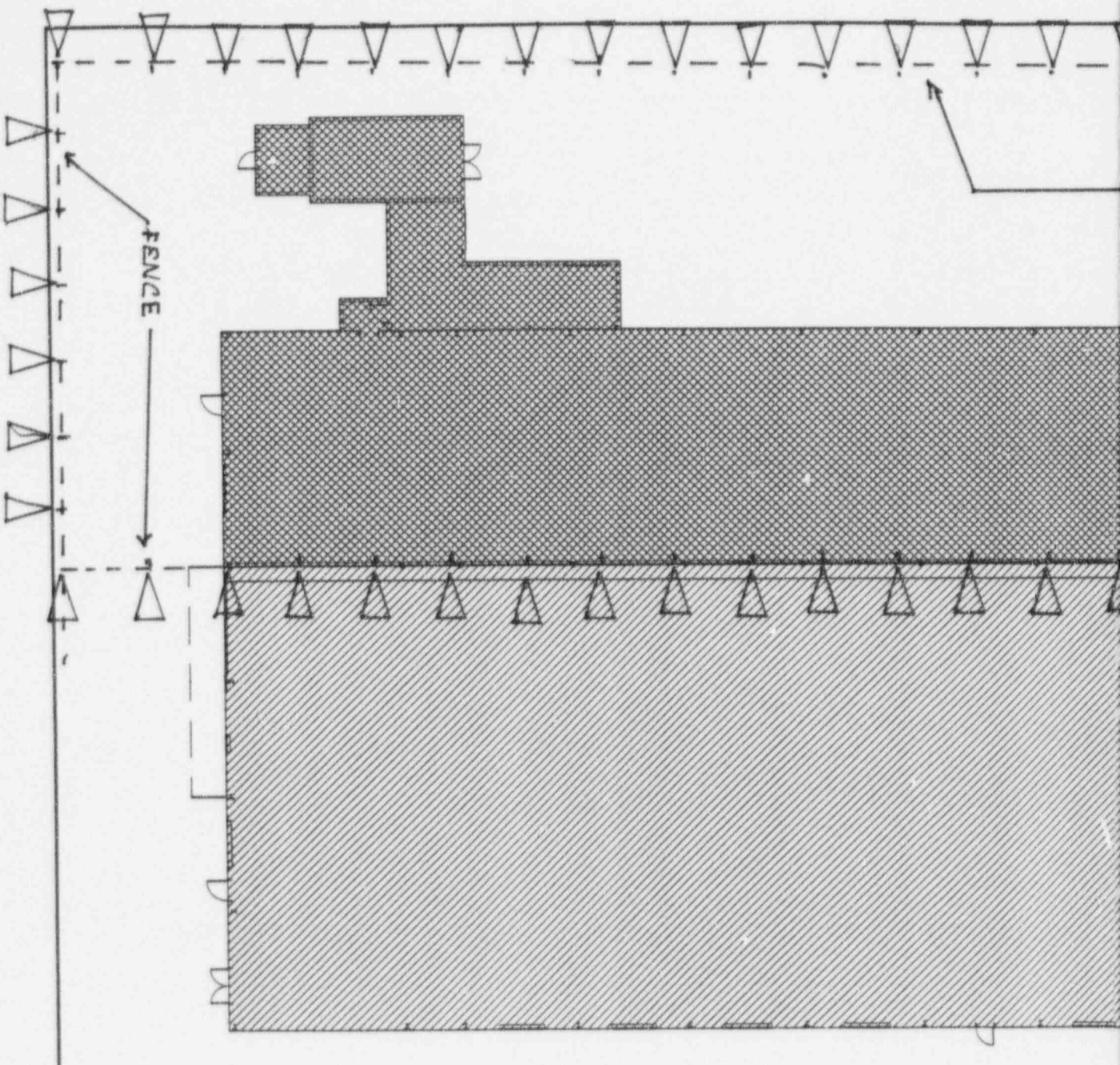
First, the log-normal mean and standard deviation of the twelve most recent sample values are determined. The log-normal distribution is a good representation of the sample data distribution. Action is taken if the current sample exceeds the mean plus three times the standard deviation.

Second, the data is evaluated to determine if there is a trend that might indicate continual small increases. Action is taken if four successive sample values exceed the mean plus standard deviation calculated from the twelve most recent sample values.

10.8 ALARA Program

Combustion Engineering is committed to keep radiation exposures As Low As Reasonably Achievable (ALARA). The ALARA Program as described in RPS-01 given for information in Figure 01.8.1

Figure 10.7-6B
Locations of Restricted Area Boundary TLDs
Building 17 Complex



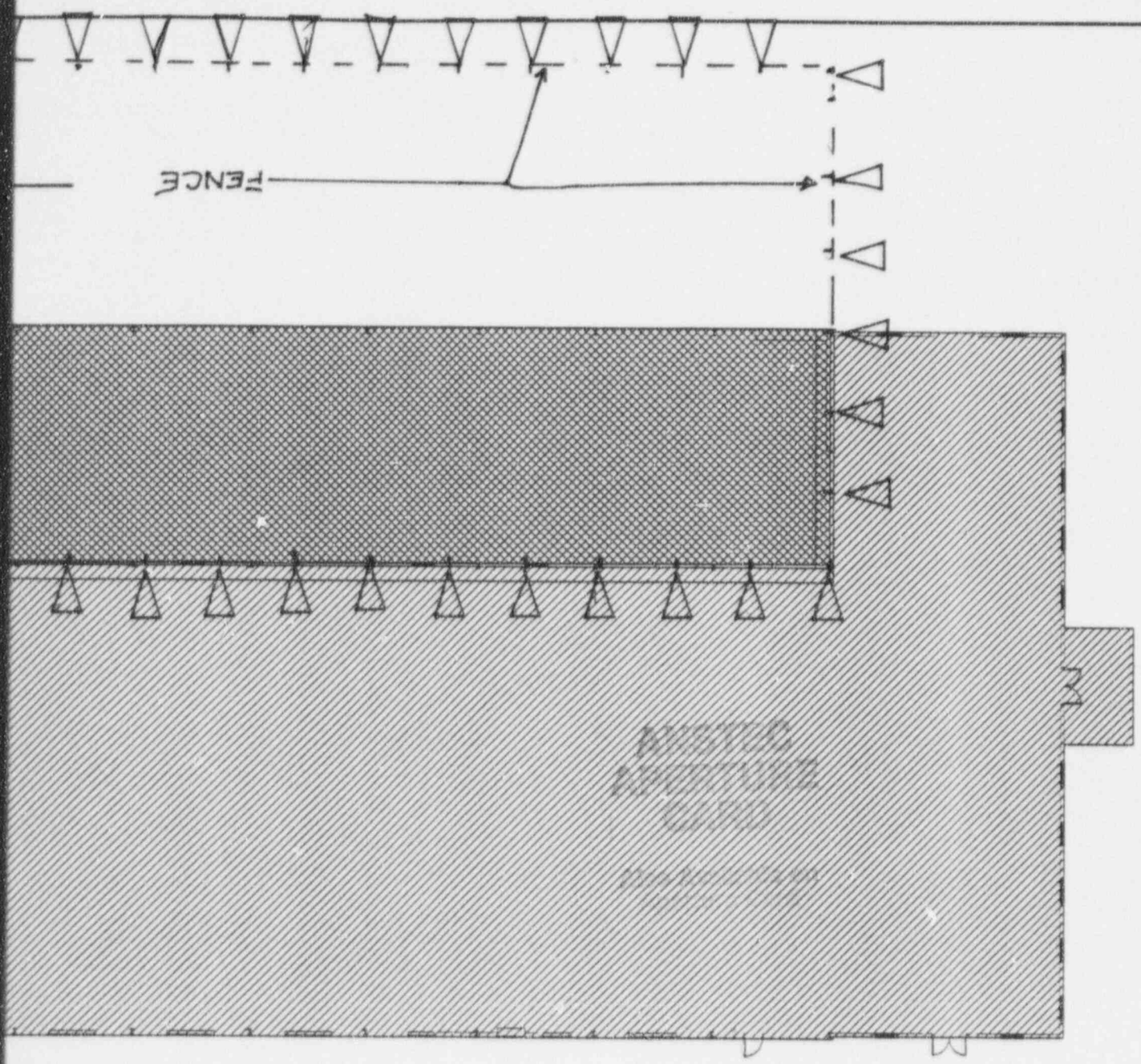
BUILDING 17 - FIRST FLOOR PLAN

CONTAMINATION CONTROLLED / RESTRICTED AREA

UNRESTRICTED AREA

CLOHESSY HERLANDS & HARRIS, LLC
PO Box 95
Simsbury, CT 06070-0095
860-651-3777
Fax 860-651-7316

ABB



_ TLD LOCATIONS - APPROXIMATE

9610070316-1

ABB COMBUSTION ENGINEERING NUCLEAR OPERATIONS
FIELD SERVICES

BUILDING 17
WINDSOR, CONNECTICUT

DATE	04/24/1996
SCALE	N.T.S.
PROJECT NUMBER	95208
DRAWN BY	MDN
	REVISION: 3

Table 4.2
Summary of DFP Cost Estimates

Description	Table Herein	Table of Appendix F, Reg. Guide 3.66	Cost Estimate Summary
Unit Cost for Workers	Table 5.1	Table 2	(included)
Planning and Preparation	Table 5.2	Table 1	$206,110.90
Cost for Surveying Non-Contaminated Areas	Table 5.3	Table 3	$ 91,135.50
Cost for Decon/Dismantle of Radiological Areas	Table 5.4-A Table 5.4-B	Table 3 Table 3	$88,267.42 $185,955.88
Cost for Decon/Dismantle of Piping System Bldg. 17	Table 5.4-c	Table 5.7 of NUREG 1754 Addendum 1	$25,746.95
Equipment and Supplies	Table 5.5	Table 4	(included)
Packaging, Shipping, and Disposal of Radioactive Waste	Table 5.6	Table 5, 6, and 7	$620,000.00
Restoration	Table 5.7	Table 8	(included)
Final Radiation Survey	Table 5.8	Table 9	(included)
Stabilization	Table 5.9	Table 10	(not applicable)
		Total	$1,217,216.70
		+ 25% Contingency	$304,304.18
		GRAND TOTAL	**$1,521,520.90**

Table 5.4-A
Cost for Decon/Dismantle of Radiological Areas
(Table 3 of Appendix F, Reg. Guide 3.66)

Building	Area (ft^2)[(b)]	Hours	Rate	Cost
Building 17 (Control Zones)				
- Decon/Dismantle[(a)] equipment	10,420	606	$21.97	$13,313.82
- Ventilation (Removal)	500(ft)	368	$35.00	$12,880.00
- Supplies	-----	-----	-----	$20,000.00
- Survey/H.P. Coverage **	26,400	970	$24.85	$24,104.50
- H.P. Support**	26,400	144	$50.90	$7,329.60
- Craft		-----	$35.00	$10,640.00
			Total	$88,267.42

[(a)] Indicates hoods, benches, walls, ceiling, etc.
[(b)] Indicates walls, and floor only
** Indicates floor and walls only

Table 5.4 - B
Cost for Decon/ Dismantle of Radiological Area
(Table 3 of Appendix F, Reg. Guide 3.66)

Building	Area (ft^2)	Hours	Rate	Cost
Building 17 (Dismantle Structure)				
- Decon/Dismantle [a]	46,000	3834	$21.97	$84,218.33
- Supplies	-------	-------	--------	$20,000.00
- Survey/H.P. Coverage	46,000	958	$24.85	$23,806.30
- H.P. Support	46,000	479	$50.90	$24,389.58
- Craft	46,000	958	$35.00	$33,541.67
			Total	$185,955.88

[a] Indicates: Floor, Walls, Roof, and Mezzanine area

Table 5.4-C
Cost for Decon/Dismantle of Underground Piping System
(Table 5.7, NUREG 1754 Addendum 1)

Building	Linear ft. 5" Pipe	Hours	Rate	Cost
Building 17 (Dismantle/Decon Piping System)				
-Decon/Dismantle	400	365	$21.97	$8,019.05
-Supplies	--------	--------	--------	$10,000.00
-Survey/HP Coverage	400	90	$24.85	$2,236.50
-HP Support	400	46	$50.90	$2,341.40
-Craft	400	90	$35.00	$3,150.00
				$25,746.95

JUN 12 1996

License No. 06-00217-06
Docket No. 030-03754
Control No. 123132

Stephen M. Sorensen
Radiation Safety Officer
Combustion Engineering, Inc.
2000 Day Hill Road
P.O. Box 500
Windsor, Connecticut 06095-0500

Dear Mr. Sorensen:

This is in reference to your letter dated April 23, 1996 to amend License No. 06-00217-06. In order to continue our review, we need the following additional information:

1. In Section 9 (Facilities and Equipment) of your letter, you indicate that liquid radioactive waste in Building 6 will either be processed using an evaporator system or discharged to local surface waters. With regard to the processing of liquid waste:

   a. Confirm that a representative sample of the liquid effluent will be taken from the retention tank and analyzed for compliance against applicable limits in 10 CFR 20.1301 prior to discharge to local surface waters.

   b. Figure 9-15, Building 6 Liquid Waste System, indicates an air sampler on the exhaust line from the evaporator to the atmosphere. Please describe the type of sampler, sampling frequency and the presence of filtration used prior to or after the sampler. Confirm that effluents will be discharged in compliance with applicable limits in 10 CFR 20.1301.

   c. Describe how solid waste from the evaporator system will be handled and disposed.

2. In Section 9 (Facilities and Equipment) of your letter, you indicate that Building 6 will be used to store radioactive waste awaiting shipment. If you plan to use Building 6 for extended interim waste storage, please revise and resubmit a revised copy of RPI-10 "Receipt and Interim Storage of Low Level Radioactive Waste" included in Figure 11-1 of your application. If Building 6 will not be used for extended interim waste storage, please confirm this fact.

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ML 10

3. Please revise Section 10.6 of your application to include the type and frequency of radiation surveys that will be performed in Building 17. Your response should include those surveys that will be performed periodically to document the levels of residual contamination from licensed activities performed under NRC License No. SNM-1067.

4. Please revise Section 10.7 of your application to include environmental monitoring from direct radiation and effluents from Building 17 to demonstrate compliance with 10 CFR 20.1301.

5. Please confirm that all records of information important to the decommissioning of Building 17, including all licensed and decommissioning activities performed under NRC License No. SNM-1067, will be maintained in accordance with 10 CFR 30.35(g).

6. Please provide the results of surveys conducted in Building 17 that characterize the building's current radiological condition. Your response should clearly indicate those areas in Building 17 which do not meet the action levels specified in Figure 10.6-3 of your application and those areas which meet NRC guidelines for unrestricted use.

7. Your letter included Part 2 of the Decommissioning Funding Plan (DFP) for License No. 06-00217-06 which addresses the remediation of Building 17. With regard to Part 2 of the DFP;

   a. Based on the information provided in the DFP, it appears that the costs associated with decommissioning are based on designated Bay C as an affected area and the balance of Building 17 as an unaffected area with regards to future use and existing residual contamination. Since unaffected areas are not expected to contain residual radioactivity based on site history and previous survey information, please provide the results of radiation surveys demonstrating that unaffected areas designated in the DFP for Building 17 currently meet NRC guidelines for unrestricted use.

   b. In Table 5.4-A (Cost for Decon/Dismantle of Radiological Areas), the cost for dismantling and removing the ventilation system is provided. These costs do not appear to be consistent with costs provided in NUREG-1754, Addendum 1. For example, using methodology in NUREG-1754, Addendum 1, the removal of 500 feet of ventilation duct should take 46 man-days (based on 12 man-days per 40 meter segment). This compares with 31.25 man-days indicated in the DFP. Please revise the costs in the DFP for dismantling and removal of the ventilation system in Building 17 to reflect costs associated with NUREG-1754, Addendum 1.

c. In Table 5.4-B of the DFP (Cost for Decon/Dismantle of Radiological Area), the total area stated for dismantling and decontaminating the floor, walls and roof is 38,400 square feet (ft^2). This surface area is not consistent with Section 3.0 of the DFR (Facility Description) which indicates that the dimensions of Bay C are 300 feet by 40 feet by 30 feet, or a total surface area of 44,400 ft^2. In addition, Bay C includes a mezzanine where the HEPA unit is located. Please revise the costs in the DFP to include the correct surface area.

d. In Table 5.6 of the DFP (Packaging, Shipping and Disposal of Radioactive Wastes), costs are provided for the disposal of underground piping in Building 17. In Table 5.4-B (Cost for Decon/Dismantle of Radiological Areas), the cost for dismantling and removing the underground pipes in Building 17 is not included. Please revise the DFP to include the cost for dismantling and removing the underground pipes in Building 17.

We will continue our review upon receipt of this information. Please reply in duplicate to my attention at the Region I Office and refer to Mail Control No. 123132. If you have any technical questions regarding this deficiency letter, please call me at (610) 337-5042.

If we do not receive a reply from you within 30 calendar days from the date of this letter, we shall assume that you do not wish to pursue your application.

Sincerely,

Original Signed By:
Duncan White

Duncan White
Division of Nuclear Materials Safety

License No. 06-00217-06
Docket No. 030-03754
Control No. 123132

DOCUMENT NAME: R:\WPS\DLTR\L0600217.06
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NAME	DWhite							
DATE	06/12/96		06/ /96		06/ /96		06/ /96	

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ABB

May 10, 1996
ML-96-005

Docket No. 70-1100
License No. SNM-1067

Mr. J. J. Kottan
U. S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406-1415

Subject: Delegation of Authority, RSO Position, Building 17 Facility

Dear Mr. Kottan:

This is to notify you that Stephen M. Sorensen assumed the duties and responsibilities of the RSO function for the Building 17 facility, effective April 29, 1996. As you know, Mr. Sorensen is the RSO of records for the CE Byproduct License No. 06-00217-06, and is also qualified for the RSO duties associated with Building 17. Mr. Sorensen is being assisted by available CE Health Physics staff personnel who are familiar with the current license and applicable regulatory requirements. Mr. James M. Limbert, who previously performed the RSO function in Building 17, remains the RSO for NRC License No. SNM-1067 for other than Building 17. Please note the purpose of this change is to facilitate the transition of Building 17 to a facility where byproduct materials will be used.

If there are any questions or comments regarding this matter, please feel free to contact me at (860) 285-5002.

Very truly yours,

COMBUSTION ENGINEERING, INC.

John F. Conant

John F. Conant
Sr. Project Manager

RSOPOSIT.DOC

cc: S. Soong (NRC)
D. White (NRC)

123132

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ASEA BROWN BOVERI

License No. 06-00217-06
Docket No. 030-03754
Control No. ~~121790~~ 123132 DW

May 08, 1996
DDH96008

Mr. Duncan White
U.S. Nuclear Regulatory Commission
Nuclear Materials Safety Branch 3
Region I
475 Allendale Road
King of Prussia, PA 19406-1415

Subject: Organization Change for Licensed Operations

Dear Mr. White:

Effective immediately Mr. Michael F. Barnoski is now the President of Combustion Engineering Nuclear Operations, succeeding Dr. Richard Suidek.

A formal change document, updating the license application pages will follow, in the near future.

Very truly yours,
Combustion Engineering, Inc.

Stephen M. Sorensen, Manager/RSO
Radiological Protection Services

Combustion Engineering Inc.
1000 Prospect Hill Road
Post Office Box 500
Windsor, Connecticut 06095-0500
Telephone (203) 688-1911
Fax (203) 285-9512
Telex 99297 COMBEN WSOR

030-03754

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April 23, 1996
DDH96004
Page 1 of 2

License No. 06-00217-06
Docket No. 030-3754
Control No. 121790

Mr. Duncan White, Sr. Health Physicist
US Nuclear Regulatory Commission
Nuclear Safety Materials Branch 3
475 Allendale Road
King of Prussia, PA 19406-1415

Dear Mr. White:

Combustion Engineering, Inc. requests that Materials License 06-00217-06 be amended as follows:

1. Please change our address to:

   Combustion Engineering, Inc.
   2000 Day Hill Road
   P.O. Box 500
   Windsor, CT 06095-0500

   Licensed materials will continue to be used at the same physical location as before. The town of Windsor has changed the street name necessitating this change. (No fee associated with change).

2. Change Section 9 of our renewal application "**Facilities and Equipment", Page 24 - Building 6 - Liquid Waste Processing** to read per the new page 24. We are installing a filtration/evaporator system to upgrade this system. Please see **new pages 24, 24a and 40** for a description and plan.

3. Add **Building No. 17** indicating that byproduct operations, in this building, will be conducted consistent with operations, license conditions, and previous commitments as elsewhere on the site. A description and plan of the proposed facilities, and equipment is included as **new pages 25 & 40a**.

   In a simultaneous action, Combustion Engineering has submitted to NRC Headquarters, an amendment request for SNM-1067 to delete references to Windsor Laboratory buildings and operations and Building #17. A copy is enclosed for your information.

Combustion Engineering Inc.
1000 Prospect Hill Road
Post Office Box 500
Windsor, Connecticut 06095-0500
Telephone (203) 688-1911
Fax (203) 285-9512
Telex 99297 COMBEN WSOR

License No. 06-00217-06
Docket No. 030-03754
Control No. 121790

4. A revised Decommissioning Funding Plan, (Parts 1, & 2) and Rider to the Surety Bond are enclosed.

5. On **page 5** please add a new **Category M** for the Pu-238 sources in the laundry assay unit. On **page 6** the Information on Sealed Sources has been updated. **Page 7** Purpose of Use of Licensed Material Category M has been added. (Fee for additional material - $280.00)

6. Please reduce the grams of Uranium 235 in Category K to 325 grams to account for the increase in possession of the Plutonium Sources.

7. The other enclosed pages are editorial or clarifications (please see affected pages list).

A check for $630.00, in accordance with 10CFR170, is enclosed to cover the cost of this request.

Your action on this request, within thirty (30) days would be deeply appreciated.

If you have any questions or require further information, please contact Mr. Stephen M. Sorensen, Manager, RPS on 860-285-5285, at your convenience.

Very truly yours,
Combustion Engineering, Inc.

Dese A. Cirelli, Director
Finance & Facilities Administration
CENO, Field Services

DDH96004
Enclosures - as stated

Enclosure (1) to
DDH96004
April 23, 1996

COMBUSTION ENGINEERING, iNC.
Broad Scope Radioactive Materials
License Amendment Application
Supplemental Information Changes

LIST OF AFFECTED PAGES

The pages of Materials License No. 06-00217-06, Docket 030-03754 are changed in accordance with the submitted amendment application dated April 23, 1996. The pages of the Supplemental Information and Decommissioning Funding Plan which are affected are listed below.

Delete Pages		Add Pages	
Page	Date	Page	Date
1	5/18/95	1	4/23/96
3	5/18/95	3	4/23/96
4	5/18/95	4	4/23/96
5	11/15/95	5	4/23/96
6	5/18/95	6	4/23/96
7	5/18/95	7	4/23/96
21	5/18/95	21	4/23/96
22	6/27/95	22	4/23/96
23	5/18/95	23	4/23/96
24	5/18/95	24	4/23/96
		24a	4/23/96
25	6/27/95	25	4/23/96
26	5/18/95	26	4/23/96
40	5/18/95	40	4/23/96
		40a	4/23/96
55	5/18/95	55	4/23/96

Decommissioning Funding Plan - Replace all pages 4/23/96

Enclosure (2) to
DDH96004
April 23, 1996

COMBUSTION ENGINEERING, iNC.
Broad Scope Radioactive Materials
License Amendment Application
Supplemental Information Changes

LIST OF EFFECTIVE PAGES

The pages of Materials License No. 06-00217-06, Docket 030-03754 are changed in accordance with the submitted amendment application dated April 23, 1996. The pages of the Supplemental Information and Decommissioning Funding Plan which are currently effective are listed below.

Pages	Date	Pages	Date
Supplemental Infformation Title Page		12 through 20	6/27/95
1	**4/23/96**	21	**4/23/96**
Table of Contents		22	**4/23/96**
		23	**4/23/96**
2	**4/23/96**	24	**4/23/96**
		24a	**4/23/96**
		25	**4/23/96**
Body		26	**4/23/96**
		27 through 34	5/18/95
3	**4/23/96**	35	11/15/95
4	**4/23/96**	36	5/18/9′,
5	**4/23/96**	37	5/18/95
6	**4/23/96**	37a through 37l	11/15/95
7	**4/23/96**	38	5/18/95
8	5/18/95		
9	11/15/95		
10	5/18/95		
11	11/15/95		

LIST OF EFFECTIVE PAGES
(continued)

Pages	Date
39	5/18/95
39a	6/27/95
40	**4/23/96**
40a	**4/23/96**
41	5/18/95
42	6/27/95
43	5/18/95
RPS CAL - 03 (8 pages)	11/15/90
44	5/18/95
45	5/18/95
46	5/18/95
47	5/18/95
48	11/15/95
48a	11/15/95
49	5/18/95
50	5/18/95
RPI-4 (13 pages)	10/18/94
51	5/18/95
RPI-15 (7 pages)	2/27/95
52	5/18/95
53	6/27/95
54	11/15/95
54a	11/15/95
55	
56	5/18/95

Pages	Date
58	11/15/95
59	5/18/95
59a	11/15/95
60	11/15/95
60a	11/15/95
60b	11/15/95
60c	11/15/95
60d	11/15/95
60e	11/15/95
60f	11/15/95
EPA Compliance(2 pages)	3/6/95
60g	11/15/95
60h	11/15/95
60l	11/15/95
60j	11/15/95
61	11/15/95
RPS-01 (4 pages)	10/17/95
62	5/18/95
63	5/18/95
RPI-10	3/31/95
64	5/18/95

Combustion Engineering, Inc.

2000 Day Hill Road
Windsor, CT 06095-0500

Broad Scope Radioactive Materials License Amendment Application Supplemental Information

NRC License No. 06-00217-06

Docket No. 030-03754

Broad Scope Radioactive Materials License Renewal Application
Supplemental Information
NRC License No. 06-00217-06

Introduction

This document provides supplemental information in support of Combustion Engineering's (CE) License Renewal Application. This information supplements that of the associated completed U.S. Nuclear Regulatory Commission (NRC) Form No. 313, "Application for Materials License". The Section numbers herein correspond to the Item Numbers of that form. This application was completed using the guidance of the NRC's "Standard Review Plan For Applications for Licenses of Broad Scope [Regulatory Guide 10.5, Revision 3] [Applications for Licenses of Broad Scope], dated June 1994.

The following Sections 1 through 4 are given in the completed NRC Form 313, and reiterated below.

1 License Application

This is an application for Renewal of License Number 06-00217-06.

2 Applicant's Name and Mailing Address

Combustion Engineering, Inc.
2000 Day Hill Road
Windsor, CT 06095-0500

3 Addressees Where Licensed Material Will Be Used or Possessed

The location of use or possession of material associated with this license is the same address as given in Section 2.

4 Person to be Contacted About the Application

Mr. Stephen M. Sorensen
Radiation Safety Officer
Combustion Engineering, Inc.
2000 Day Hill Road
Windsor, CT 06095-0500

Telephone: (860) 285-5285
Facsimile: (860) 285-2540

The following Sections 5 through 11 provide supplemental information in accordance with NRC Form 313.

5 Radioactive Material

The following categories of radioactive material, with corresponding forms and possession limits, are requested:

Byproduct, Source, and/or Special Nuclear Material	Chemical and/or Physical Form	Possession Limit
A. Any byproduct material with Atomic Numbers 1 through 83	A. Irradiated and/or contaminated reactor components, inspection and test equipment, test samples, monitoring instruments, reactor coolant samples, or calibration sources	A. 50 Curies
B. Any byproduct material with Atomic Numbers 84 through 103	B. Irradiated and/or contaminated reactor components, inspection and test equipment, calibration sources or, reactor coolant samples	B. Not to exceed 3 millicuries per nuclide and 30 millicuries total
C. Cesium 137	C. Sealed Sources	C. 215 Curies
D. Americium 241	D. Sealed neutron sources	D. Not to exceed 1 Curie per source and 10 Curies total
E. Americium 241	E. Sealed neutron sources	E. Not to exceed 10 Curies per source and 100 Curies total
F. Neptunium 237	F. Oxide Wires	F. Not to exceed 0.5 millicuries per wire and 5 millicuries total
G. Uranium 233	G. Any	G. 1 gram
H. Uranium 235	H. Any	H. 7 grams
I. Uranium 235	I. Fission chambers (sealed)	I. Not to exceed 1.7 grams per chamber and 13.6 grams total
J. Plutonium	J. Any	J. 1 milligram
K. Uranium 235	K. Any	K. 325 grams, including < 5Kg UF_6
L. Natural and/or Depleted Uranium	L. Any	L. 10,000 KgU, including < 5Kg UF_6
M. Plutonium 238	M. Sealed Sources	M. < 1 gram each not to exceed 4 grams total

Information Concerning Sealed Sources

The following additional information is provided concerning sealed sources:

Sealed Sources	Sealed Source Storage Container or Device
C. Cesium 137 - Listed Below	C. Cesium 137 - Listed Below
1. Technical Operations, Inc. - Model SK1936, S/N S-171 - 2.0 Curies	1. Gamma Densitometer - Model 660
2. International Chemical and Nuclear - Model 375, S/N 771 - 1.19 millicuries	2. Lead Pig - Calibration Source
3. Technical Operations, Inc. - Model FM6, S/N 181, S/N 182 - 30 Curies each	3. Gamma Densitometer - Model 789
4. Measurements, Inc. - Model SK2085, S/N S-274 - 10 Curies	4. Gamma Densitometer - Model 807 #35
5. New England Nuclear - Model NER-401H, S/N CS-160 - 9.75 millicuries	5. Lead Pig - Calibration Source
6. ORNL Model S-136	6. Gamma Densitometer - Model 755
7. ORNL Model S-137	7. Gamma Densitometer - Model RTR-N #221
8. ORNL Model S0169	8. Lead Pig - Calibration Source
D. Americium 241 - Listed Below	D. Americium 241 - Listed Below
1. Monsanto Research Corp. - Model 2723A - 1 Curie	1. DOT 7A Container - Certificate # USA/0043/S
E. Americium 241 - Listed Below	E. Americium 241 - Listed Below
1. Monsanto Research Corp. - Model 2727B - 10 Curies	1. DOT 7A Container - Certificate # USA/0031/S
M. Plutonium 238 - Listed Below	M. Plutonium 238 - Listed Below
1. Monsanto Research Corp. - Model MRC-N-SS-W-Pu8Li-9	1. DOT 7A Container - Container Products Corp. S/N 54367 (Cert. on file)
2. Monsanto Research Corp. - Model MRC-N-SS-W-Pu8Li-11	2. DOT 7A Container - Container Products Corp. S/N 54367 (Cert. on file)
3. Monsanto Research Corp. - Model MRC-N-SS-W-PuLi-12	3. DOT 7A Container - Container Products Corp. S/N 54478 (Cert. on file)
4. Monsanto Research Corp. - Model MRC-N-SS-W-Pu8LI-13	4. DOT 7A Container - Container Products Corp. S/N 54478 (Cert. on file)

6 Purpose of Use of Licensed Material

The following lettered paragraphs correspond to those of the possession limits in Section 5:

A. through D. Research and development as defined in 10 CFR 30.4; possession incident to maintenance, repair, decontamination, and study of reactor components.

E. Testing and calibration of boron measuring devices and for distribution to persons holding operating reactor licenses and/or to persons authorized to receive the licensed materials pursuant to the terms and conditions of specific licenses issued by the Nuclear Regulatory Commission or an Agreement State.

F. through I. For possession, storage, and transfer to persons holding operating reactor licenses and/or to persons authorized to receive the licensed materials pursuant to the terms and conditions of specific licenses issued by the Nuclear Regulatory Commission or an Agreement State.

J. For possession as surface contamination on tools or equipment incident to maintenance, repair, modification or storage.

K. through L. Research and development using Special Nuclear Material and Source Material in Buildings 2, 5, 6, 17 & 18.

M. For storage ONLY until disposal can be arranged, defunct laundry assay unit.

7 Management Control and Responsibility

7.1 Senior Management

Combustion Engineering senior management appreciates the need for strong management controls for an effective radiation safety program for its broad scope license. The Radiation Safety Committee and the Radiation Safety Officer have been delegated sufficient authority, organizational freedom and management prerogative to communicate with and direct personnel of the radiation safety staff and others regarding NRC regulations and license provisions.

Figure 7.1-1 provides an organization chart depicting the organizational relationships of personnel related to radiation safety for this license application.

Figure 7.1-2 provides the signed certification of the Radiation Safety Officer.

7.4 Radiation Safety Office Staff

The RSO is supported by a staff of health physics (HP) professionals who assist in the maintenance and control of the licensed program. This staff fluctuates according to need; at the time of this application, the staff consists of one Radiation Safety Engineer, one lead senior HP technician, one dosimetry /lead senior HP technician and three junior HP technicians. Other staff is occasionally contracted as conditions warrant.

8 Training for Individuals Working in or Frequenting Restricted Areas

Combustion Engineering provides initial and refresher training to individuals who will use, or may come in contact with, radioactive material. Section 10.5 of this application describes the training program.

9 Facilities and Equipment

Combustion Engineering's Windsor site is an approximately 600 acre tract of land located in the town of Windsor, Connecticut. The Farmington River flows along the northern boundary of the site. The land adjacent to the North, East, South and West boundaries of the site consists of heavily wooded sections and open fields which have been cultivated for the production of broad leaf tobacco and other farm products. The land area within five miles of the site is somewhat rural, with rolling farmland interspersed among woodland tracts. In recent years, the area has become a bedroom community suburb of the greater Hartford area, with some light industry. Figure 9-1 shows the buildings and facilities presently located on the CE Windsor site.

Radioactive materials are used primarily in the following buildings: Buildings 1, 1A, 2, 2A, 3, and 5, 6, 16, 17 and 18. Of these, Building 5 contains the Research and Development Laboratories. Buildings 1, 1A, 2 ,2A, 5 & 17 are used as part of CE Nuclear Operation's Field Operations' facilities. Source Material (SM) and/or Special Nuclear Material (SNM) is also used for laboratory activities in Buildings 2, 5 and 18. In addition, radioactive (SM and SNM) liquid waste processing is performed in Building 6.

The following descriptions and plans indicate where radioactive materials are normally used and controlled.

Building 1 - High Radiation Storage and Refurbishment

Figure 9-2 depicts the buildings of the Building 2 Complex (i.e., Buildings 1, 1A, 2 and 2A). Figure 9-3 depicts Building 1. This building is used for three basic purposes:

A. High Radiation Storage - The northeast corner of the building contains a high density concrete walled cell, as depicted in Figure 9-3. The area is used to store contained materials with dose rates of approximately 100 mr/hr or greater.

B. Interim Extended Radioactive Waste Storage - The vault shown in the northwest corner of Figure 9-3 may be used to store processed radioactive waste awaiting disposal.

C. Control Zone #5 - The east section of Building 1 contains a work zone with a single bank HEPA filtered exhaust system. This exhaust system recirculates air back into the building. Figure 9-4 depicts the control zone, and Figure 9-5 depicts the ventilation and sampling system.

Building 1A - Storage

The northern half of the building is used for materials storage, although temporary radioactive materials work areas may be set up and released after use. Figure 9-6 depicts the northern end of Building 1A.

The southern half of this building is used primarily as an inventory area for packaged radioactive materials. The building layout and ventilation system for this building is shown in Figure 9-7.

A tented controlled area is erected in the southeast corner of the building that is maintained under negative pressure by a portable HEPA filtered fan unit which exhausts back into the building. The tented area is used for visually inspecting containers containing radioactively contaminated equipment. (See Figure 9-7)

Buildings 2/2A

Buildings 2 and 2A consist of approximately 15,000 square feet of floor space as depicted in Figure 9-8. The southern half of Building 2 is a two story structure with the second floor devoted entirely to office space. A shielded health physics counting room is located on the east side of the first floor.

A high density concrete vault is located in the center of Building 2. The layout of this vault is depicted in Figure 9-9. The purpose of this area is calibration of instruments and thermoluminescent dosimeters (TLD) using sealed sources. The single entrance to this vault is controlled by a combination door lock which is controlled by health physics personnel.

As depicted in the layout of Figure 9-8, the northeast corner of Building 2 is comprised of a concrete walled area, identified as Cell 2, and an interconnecting wing to Building 2A. Cell 2, both the ground level and subterranean level, and Building 2A have been established as part of a single restricted area (see Figure 9-10). The subterranean level of Cell 2 is used primarily for decontamination and repair of reactor inspection equipment.

Airborne radioactive material in the cell is processed through a self-contained HEPA filtered air cleaning system. A portion of the air in the cell is exhausted outside the building via a single bank of HEPA filters. The system is continuously monitored whenever it is in operation. The ventilation system is depicted in Figure 9-11.

The areas at ground level of Cell 2, plus Building 2A, are used to refurbish, inspect, develop and store reactor servicing equipment and to train personnel in the use of the equipment. Controlled zones are established to handle unclad radioactive equipment. The controlled zones are of modular construction erected to accommodate the equipment and personnel. Each controlled zone is serviced by a circulating air system designed to move air from the controlled zone and discharge back into the building after it has been filtered by two banks of HEPA filters. One set of filters is located at the controlled zone; the other set is located just prior to the system discharge. The air between the two banks of filters is sampled through an isokinetic probe and connected to a continuous air monitor which will alarm if radioactive material is detected downstream of the first set of filters (see Figure 9-11).

Mechanical testing (e.g., seismic response or vibration testing) of reactor components is also performed in Building 2. Sealed simulated fuel rods containing SM (e.g., depleted uranium) are occasionally used for such testing and are stored in the building.

Building 3 - KDL Laboratories

This building consists of approximately 60,000 square feet used for research and development of fossil fuels, boilers, and pollution control equipment. All radioactive materials used in this building will be encapsulated; either in the form of sealed sources as part of densitometer projectors or as materials sealed for x-ray diffraction analysis.

Building 5 - Research and Development Laboratories

The Research and Development (R&D) Laboratories contain approximately 60,000 square feet of floor space. The main bay and each of the three wings of the structure contain office space which occupies a total of 27,000 square feet of the facility. The balance of the building is used for mechanical testing and research/development. Work in the laboratory areas is evenly divided among activities that require the handling of nonradioactive materials. Each area that uses radioactive materials (such as the Radiochemistry Laboratory, Metallography Laboratory, Mechanical Testing, Laboratories, Boronometer Test Area. etc.) is established and maintained as a separate restricted area.

Air from work areas in which radioactive materials with greater than 5,000 DPM/100 cm^2 loose activity are used is exhausted via stack lines equipped with single banks of HEPA filters (99.97 percent efficient for 0.3 micron particles). Each of the exhaust stacks is equipped with an isokinetic probe and sample collection system. Each exhaust system is tested in accordance with ANSI N510-1980 following HEPA filter replacement. The air and sampling air for each area are shown in Figures 9-13 and 9-14.

Radioactive liquid wastes generated are evaporated in fume hoods which discharge to the sampled exhaust stacks as previously described.

In addition, SM and SNM laboratory activities are performed in Building 5 and the adjoining Building 18. Building 5 contains the Analytical Chemistry Laboratories and Pellet Physical Testing Laboratory. The Analytical Chemistry Laboratories consist of a Uranium Analysis Laboratory, Environmental/Bioassay Laboratory, Radiochemistry Laboratory, Environmental Laboratory, and a Radiochemistry Counting Room. Chemical analysis of uranium fuel and various reactor core materials and components is conducted in the Analytical Chemistry Laboratories. Chemical analyses are performed to determine impurities in fuel pellets, such as analyses for aluminum, calcium, magnesium, chlorides, fluoride, silicon, iron, nickel, hydrogen, moisture and rare earths (e.g., europium, samarium, gadolinium, erbium, etc.). These laboratories also perform analyses which support operational activities such as environmental radiation monitoring, personnel bioassay, radiological protection, and waste water processing. The Pellet Physical Testing Laboratory is used for activities such as pellet resintering tests and immersion density tests.

Building 6 - Radioactive Liquid Waste Processing

Liquid effluents from Laboratory activities in Building 5 drain to any one of ten 2,000 gallon retention tanks, located in Building 6. A schematic of the Building 6 liquid waste filtration and evaporation system is depicted in Figure 9-15. Liquids may also be discharged to the Site Industrial Stream, which flows into Goodwin Pond Brook, after sampling and dilution, if necessary.

Liquid effluents are discharged in accordance with radionuclide concentration limits of Table 2 of Appendix B to 10CFR20.1001 - 2401. An operational check of the instruments that measure the water level in the dilution tank(s) shall be performed, on a monthly basis whenever the tank(s) are used for this purpose.

Building 6 may also be used to store radioactive waste awaiting shipment (see Chapter 11).

Building 16 - Boronometer Test Area

A room in Building 16 is used for testing boronometers; sealed sources are used in this area.

Building 17 - Former Nuclear Fuel Manufacturing

This building is the former Nuclear Fuel Manufacturing facility. Currently, the "Hot Shop" i.e. Bay C is empty of all equipment and fixtures with the exception of FA-3, a HEPA filtered exhaust fan unit. It is planned to introduce byproduct material into this area for similar uses as in Buildings #2 & 2A. Contamination Control Enclosures with appropriate ventilation set-ups will be designed and constructed under the supervision of the Radiation Protection Services Department. A conceptual drawing is Figure 9-15.A, page 40a.

Building 18 - Test Loop

Building 18 contains a scale model reactor hydraulic test loop. Sealed simulated fuel rods containing source material (e.g., depleted uranium) are used in the test loop and are stored in the building.

Facilities and Equipment - General

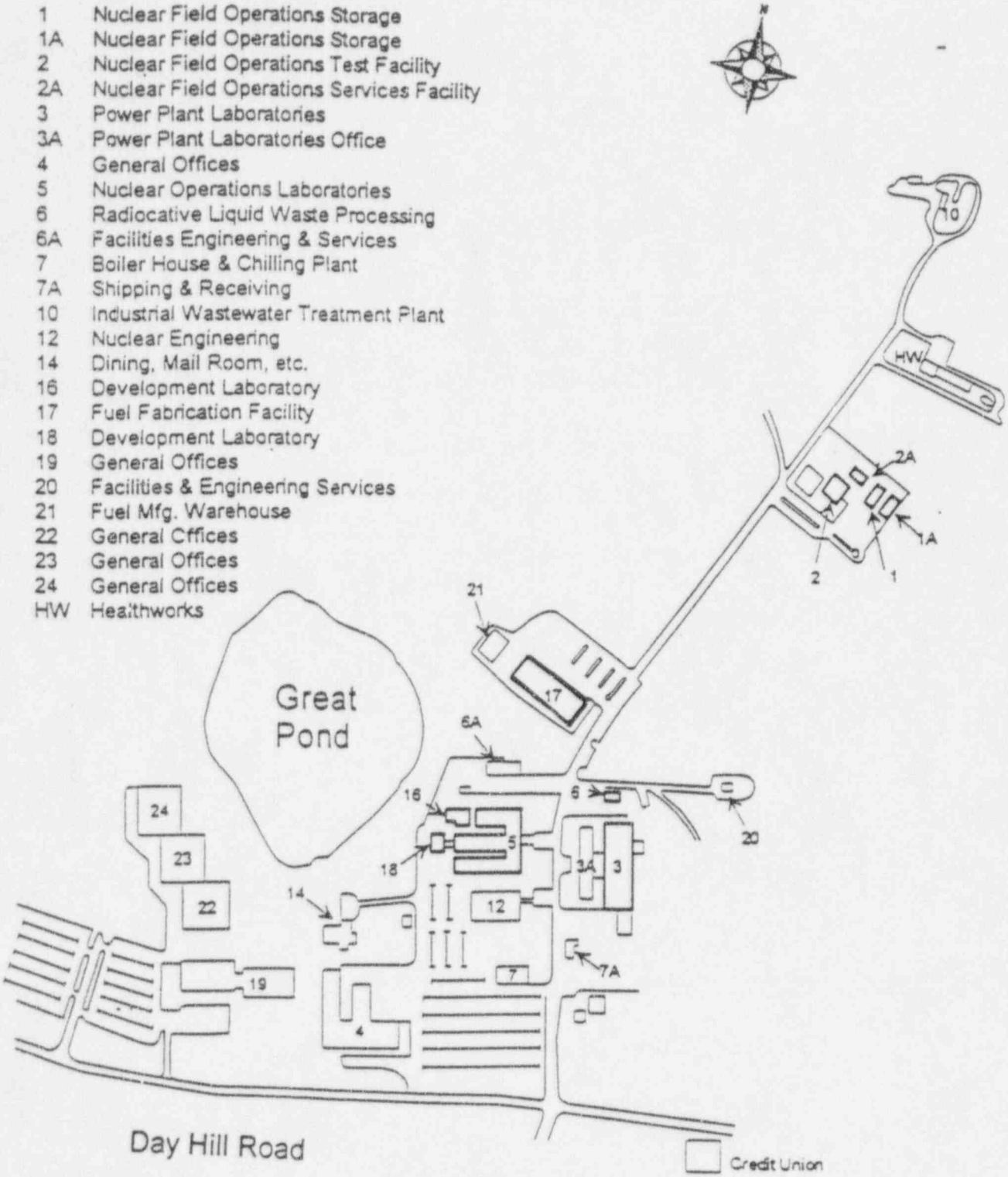
It is the practice of CE Nuclear Operations that, whenever unclad radioactive materials are used in the various research laboratories, the equipment involved is enclosed where practical, for the protection of personnel and the environment. Generally, laboratory or equipment areas where loose contamination may exceed 10,000 DPM/100 cm^2 are candidates for protective enclosures. These enclosures may be permanent construction, semi-permanent controlled areas, or temporary enclosures (e.g., tents). Typical examples of restricted areas utilizing permanent enclosures or controlled zones may be seen in Figure 9-16.

Surveys and Counting Equipment

Figure 9-17 is a current listing of radiation survey, counting and sampling equipment used under this license. Calibration procedures are developed and used in accordance with ANSI N323-1980 and manufacturer's technical manuals as required. Equipment additions or deletions from this complement may be made as necessary without prior notification of the NRC, as long as such changes are reviewed and approved by the RSO or his designee. A typical calibration procedure is given in Figure 9-18 as an example for information. A computer generated, calibration frequency list is used to calibrate equipment. This list may differ from the frequency in the procedure until the procedure is officially changed.

Figure 9-1
Location of Buildings on the Windsor Site

1	Nuclear Field Operations Storage
1A	Nuclear Field Operations Storage
2	Nuclear Field Operations Test Facility
2A	Nuclear Field Operations Services Facility
3	Power Plant Laboratories
3A	Power Plant Laboratories Office
4	General Offices
5	Nuclear Operations Laboratories
6	Radiocative Liquid Waste Processing
6A	Facilities Engineering & Services
7	Boiler House & Chilling Plant
7A	Shipping & Receiving
10	Industrial Wastewater Treatment Plant
12	Nuclear Engineering
14	Dining, Mail Room, etc.
16	Development Laboratory
17	Fuel Fabrication Facility
18	Development Laboratory
19	General Offices
20	Facilities & Engineering Services
21	Fuel Mfg. Warehouse
22	General Offices
23	General Offices
24	General Offices
HW	Healthworks



Buildings where radioactive material is normally used or stored

123132

Figure 9-15
Building 6 Liquid Waste System

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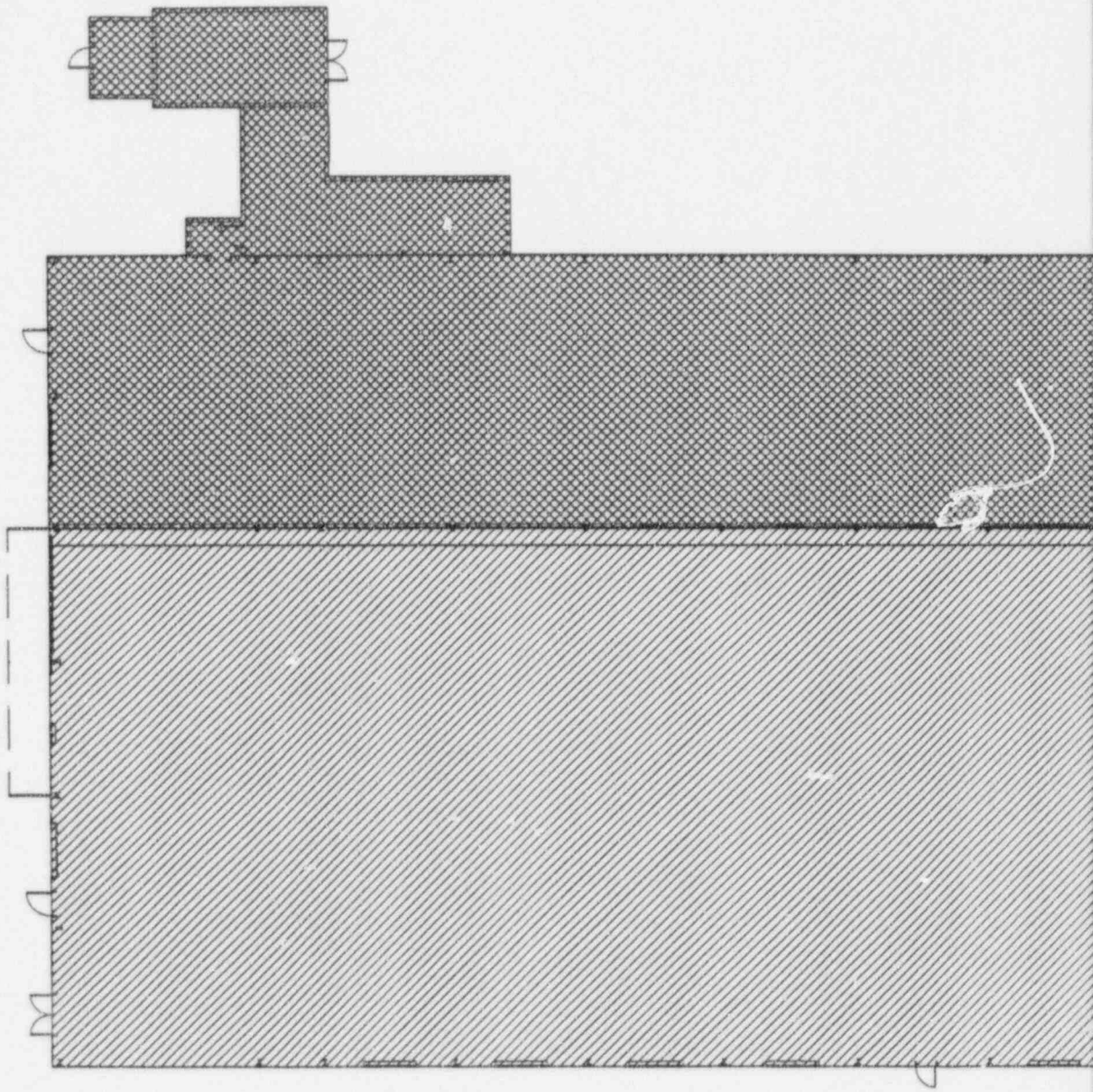
RECORDS AND REPORTS MANAGEMENT BRANCH

Figure 9-15
Building 17 Drawing



BUILDING 17 - FIRST FLOOR PLAN

CONTAMINATION CONTROLLED / RESTRICTED AREA

UNRESTRICTED AREA

CLOHESSY HERLANDS & HARRIS, LLC
PO Box 95
Simsbury, CT 06070-0095
860-651-3777
Fax 860-651-7316

ABB

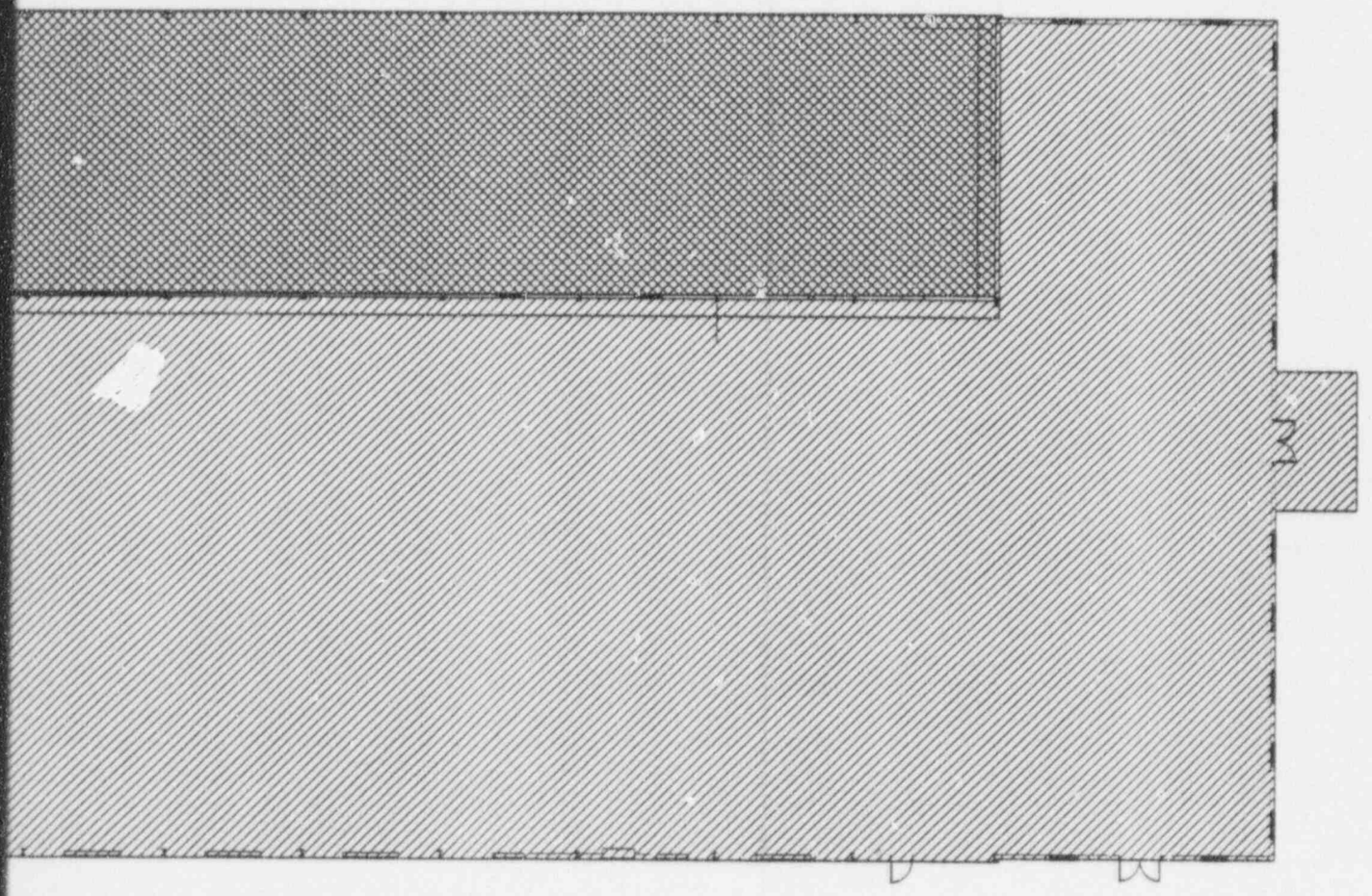


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ABB COMBUSTION ENGINEERING NUCLEAR OPERATIONS
FIELD SERVICES

BUILDING 17
WINDSOR, CONNECTICUT

DATE	04/24/1996
SCALE	N.T.S.
PROJECT NUMBER	95208
DRAWN BY	MDN
REVISION: 3	

123132

Figure 10.6-1
Building 2 Complex
(Nuclear Service Buildings)
Survey Requirements

Item	Survey Location	Frequency	Contamination Survey	Radiation Survey
1	Control Zone Buffer Zones	Daily[1,2]	X	
2	Building 2 Office Spaces	Weekly	X	X
3	Building 2 Restricted Areas	Weekly	X	X
4	Building 2 Lower Mezzanine	Weekly[1]	X	X
5	Building 2A Restricted Areas	Weekly	X	X
6	Control Zone 1	Weekly[1,3]	X	X
7	Control Zone 2	Weekly[1,3]	X	X
8	Control Zone 3	Weekly[1,3]	X	X
9	Control Zone 4	Weekly[1,3]	X	X
10	Control Zone 5	Weekly[1,3]	X	X
11	Building 1 Restricted Areas	Weekly	X	X
12	Building 1 High Radiation & LLRW Storage	Monthly	X	X
13	Building 1A Radiation Storage	Monthly	X	X
14	Building 1A Multi-Purpose Area	Weekly[1,3]	X	X
15	Trailer Storage Area	Monthly		X
16	Yard Storage Area	Monthly		X
17	Waste Pad	Monthly		X
18	Vault	Monthly	X	X

[1] When in use; monthly when not in use.
[2] No map required. Health physics personnel perform the required surveys and acceptability of survey results is acknowledged on the weekly report.
[3] Prior to a new RWP being issued for change of work scope when radiological conditions could materially change.

Combustion Engineering, Inc.

2000 Day Hill Road
Windsor, CT 06095-0500

Decommissioning Funding Plan

Part 1
Buildings 1,1A,2,2A,3/3A,5,6,16 & 18

License No. 06-00217-06

Docket No. 030-03754

DECOMMISSIONING FUNDING PLAN

TABLE OF CONTENTS

1.0 INTRODUCTION

This Decommissioning Funding Plan (DFP) is pursuant to 10 CFR 70.25 and 30.35 and contains the information required by 10 CFR 70.25(e) and 10 CFR 30.35(e) . This DFP consists of seven parts: Introduction, Scope, Facility Description, Decommissioning Criteria, Decommissioning Cost Estimates, Financial Assurance Method and References.

2.0 SCOPE

This Decommissioning Funding Plan is for the Combustion Engineering, Inc. (CE), Type A Broad Scope License No. 06-00217-06 for facilities located at 2000 Day Hill Road, Windsor, Connecticut. This Plan includes Buildings 1, 1A, 2, 2A, 3, 3A, 5, 6, 16, and 18.

3.0 FACILITY DESCRIPTION

3.1 Building 1

The total area of Building 1, including floors, ceilings, and walls is approximately 26,934 square feet. The building Is used for three basic purposes with regard to radioactive materials:

a. High Radiation Storage - The northeast corner of the building contains a room which measures approximately 20' 6" x 37' 6" x 15'. The area is used to store contained materials with dose rates of approximately 100 mr/hr or greater. The area is surveyed on a monthly basis for loose surface contamination and radiation dose rates. The loose surface contamination levels in the area are below 200 dpm/100 cm^2 (beta/gamma) and less than 10 dpm/100cm^2 (alpha).

b. Interim Extended Radioactive Waste Storage - A vault in the north west corner of the building is intended to be used for the interim storage of Radioactive Waste in the event of denial of access to disposal facilities

c. Control Zone #5 - The east section of Building 1 contains a work zone with a HEPA filtered exhaust system. The room measures approximately 18' x 20' 6" x 15'. Prior to conducting any radioactive material work in the room under this license, false walls, floors, and a ceiling were installed. The loose surface contamination levels in the area are below 3000 dpm/100 cm^2 , average (beta/gamma).

The remainder of Building 1 is used as a staging area for receiving and shipping of radioactive material. Routine surveys of the remainder of Building 1 indicate loose surface contamination below 200 dpm/100 cm^2 (beta/gamma), and 10 dpm/100 cm^2 (alpha).

3.2 Building 1A

The total area of Building 1A, including floors, ceilings, and walls is approximately 21,162 square feet. Building 1A is used primarily as a storage area for packaged radioactive materials. Routine surveys of Building 1A indicate loose surface contamination levels below 200 dpm/100 cm^2 (beta/gamma), and 10 dpm/100 cm^2 (alpha).

3.3 Buildings 2/2A

The total area of Buildings 2/2A, including floors, ceilings, and walls is approximately 102,950 square feet. Building 2 is a two story structure with the second floor devoted entirely to office space. A shielded health physics counting room is located on the south west corner of the first floor.

A high density concrete vault is located in the center of Building 2. The area is used for the calibration of instruments and Thermoluminescent Dosimeters (TLD) using sealed sources. The single entrance to this vault has a combination door lock controlled by Radiation Protection Services.

The northeast corner of Building 2 is comprised of a concrete walled area, identified as Cell 2, and an interconnecting wing to Building 2A. Cell 2, both the ground level and subterranean level, and Building 2A have been established as part of a single restricted area. The subterranean level of Cell 2 is used primarily for decontamination and repair of reactor inspection equipment.

The areas at ground level of Cell 2, plus Building 2A, are used to refurbish, inspect, develop and store reactor servicing equipment and to train personnel in the use of the material. Control zones are established to handle unclad radioactive material. The control zones are of modular construction erected to accommodate the equipment and personnel. Each control zone is serviced by a negative pressure air system designed to move air from the control zone and discharge back into the building after it has been filtered by two banks of HEPA filters.

3.4 Buildings 3/3A

Activities in this building include x-ray diffraction measurement of sealed specimens of radioactive material. Routine surveys of this building indicate that the building is not contaminated with radioactive material controlled under this license.

3.5 Building 5

Building 5 contains approximately 60,000 square feet of floor space. The main bay and each of the three wings of the structure contain office space which occupies a total of 27,000 square feet of the facility. The balance of the building is used for mechanical testing and research/development. Work in the laboratory areas is roughly evenly divided among activities that require the handling of radioactive materials and those that involve non-radioactive materials. Each area that uses radioactive materials - the radiochemistry laboratory, metallography laboratory, mechanical testing laboratories, Boronometer test area (in the adjoining Building 16) - is established and maintained as a separate restricted area.

3.6 Building 6

Liquid effluents from SNM Laboratory activities in Building 5 drain to any one of ten 2,000 gallon retention tanks, located in Building 6. Four 10,000 gallon dilution tanks in Building 6 are used for diluting liquid effluents to within regulatory limits prior to filtration and evaporation, whereupon the dried sludge is disposed of as solid radioactive waste.

3.7 Building 16

The Boronometer test area is in Building 16. Sealed special nuclear material sources are used in this area. Routine surveys of this building indicate that the building is not contaminated.

3.9 Building 18

This building contains a scale reactor hydraulic test loop. Occasionally, simulated fuel rods containing source material are used in this test loop. The rods are maintained sealed, and are also stored in this building. Routine surveys of this building indicate that the building is not contaminated.

4.0 DECOMMISSIONING CRITERIA

This Decommissioning Funding Plan is for the Type A Broad Scope license for CE's facilities at 2000 Day Hill Road, Windsor, CT, License No. 06-00217-06 Docket No. 030-03754.

4.1 Residual Contamination Criteria

Cost estimates were based on the assumption that facilities and equipment would be released for unrestricted use when residual contamination met the criteria established in Regulatory Guide 1.86, Reference (1), as shown in Table 4.1, which is consistent with "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of License for Byproduct, Source, or Special Nuclear Material", Reference (2). Estimates are further based on the assumption that soils will be free released according to NRC Branch Technical Position: "Disposal or On-Site Storage of Residual Thorium or Uranium", Reference (3).

4.2 Salvage

The salvage value of any material or equipment was not included in this DFP. Likewise, the costs associated with moving equipment to the Hematite Missouri Fuel Manufacturing Plant or CE's Southeast Nuclear Service Center prior to decommissioning are beyond the scope of this plan.

4.3 Low Level Waste

This plan assumes that a Low Level Waste (LLW) burial site will be available to bury material and equipment that does not meet free release criteria. Also included in the cost estimate is the projected burial cost and surcharges, totaling an average of $\$400/ft^3$, for LLW to be buried and the cost for containers (B-25) and transportation.

4.4 Estimation Methodology

In generating the cost estimates provided in the following sections, facility buildings were broken down into separate areas or rooms. The volume and/or dimensions of equipment, structures, and materials within those areas and rooms were physically measured. These measurements were used to estimate the volume of low level waste that can be expected from decommissioning. The same measurements were used to estimate the duration of dismantling and decontamination operations that will be required to complete decommissioning. The estimates take into account waste reduction operations that will be undertaken during decommissioning.

For the purposes of these estimates, it has been assumed that loose surface contamination on floors, walls, ceilings, and other surfaces will be removed and that fixed contamination in the floors will be scabbled off or otherwise removed.

Provisions have been made to include sufficient contingency funds in the cost estimates. Further revisions and refinements to the plan that may better define the cost estimates may also result in reduction of associated contingency funding.

Estimates provided in this Plan are shown in 1995 dollars. A summary of the cost estimates is given in Table 4.2. The details of the costs estimates are given in the tables of Section 5.0.

4.5 Duration of Decommissioning

Cost estimates are based on the assumption that the majority of the decontamination and decommissioning activities will be completed within two years of commencing.

4.6 Decontamination Methodology

Cost estimates are also based on the assumption that decontamination tasks will be completed using methodologies drawn from the following listing:

1)Hand Wiping: It is anticipated that the majority of the contaminated equipment and materials will be cleaned using hand wiping. This will involve manually cleaning equipment, structure, and/or material surfaces using rags, maslin, paper and/or abrasive pads and a cleaning solution such as Alconox or similar. Decontamination solutions will be carefully selected to ensure that mixed waste is not generated. This method has been selected because it is a simple and effective method for routine decontamination tasks and personnel are easily trained to safely use this technique. Rags, etc., used in these operations may be laundered reused.

2)Hydrolasing: This methodology is an available option for removal of widespread areas of loose surface contamination. This method will only be utilized in an enclosed area that is set up specifically for hydrolasing. Specific allowances will be made for the recapture and recycling of contaminated water.

3)CO_2 Cleaning: This technology is an available option for surface cleaning by means of tiny, solidified pellets of CO_2. The gaseous CO_2 is then collected by a suction line and passes through a HEPA filter. Advantages to this process include its effectiveness at cleaning intricate surfaces, its lack of physical surface damage, and its lack of secondary radioactive waste generation.

4) Strippable Paint: This material, commonly used in nuclear power plants, may have some applicability in two areas. First, it may be used to provide a removable, protective coating over decontaminated areas remaining in the vicinity of ongoing decontamination work. Second, it may be utilized to perform actual decontamination tasks on large smooth surfaces such as metal sheets or similar. If used, it is intended that, following its removal, the paint may be incinerated in an approved facility, thus reducing radioactive waste burial volumes.

5) Abrasive Media Cleaning: This process utilizes either sponge-like material, sand, or grit accelerated by high pressure air to effect controlled decontamination of contaminated surfaces. These media have the advantage of being reusable, to a degree. When exhausted, the sponge material may be incinerated in an approved facility, resulting in relatively small volumes of low level waste. The sand and/or grit will be disposed of as low level radioactive waste if it exceeds the criteria listed in Reference (3).

6) Material Surface Removal: In cases where hand wiping or other surface cleaning methods are insufficient to remove contaminates present, removal of material surfaces may be required. For tools, equipment, and other metal objects, grinders may be utilized to remove contaminants that would otherwise be considered fixed contamination. This will avoid the necessity of disposing of large inventories of materials as radioactive waste. For contaminated structural materials such as concrete floors and walls, scabblers and scarifiers may be utilized to remove contaminated surface from those materials. To the extent practical, engineering controls will be used to reduce aerosols that can result from scabbling and/or scarifying operations. Scabbling has been proven successful in a number of areas and buildings during recent decontamination projects.

Table 4.1
Acceptable Surface Contamination Levels

NUCLIDE[a]	AVERAGE[b c]	MAXIMUM[b d]	REMOVABLE[b e]
U-nat, U-235, U-238, and associated decay products	5,000 dpm α/100cm^2	15,000 dpm α/100cm^2	1,000 dpm α/100 cm^2
Transuranics, Ra-226, Ra-228,Th-230, Th-228, Pa-231, Ac-227, I-125, I-129	100 dpm/100cm^2	300 dpm/100cm^2	20 dpm/100cm^2
Th-nat, Th-232, Sr-90 Ra-223, Ra-224, U-232 1-126, I-131, I-133	1000 dpm/100cm^2	3000 dpm/100cm^2	200 dpm/100cm^2
Beta-gamma emitters (nuclides with decay modes other than alpha emission or spontaneous fission) except Sr-90 and others noted above	5000 dpm$\beta\gamma$/100cm^2	15,000 dpm$\beta\gamma$/100cm^2	1000 dpm$\beta\gamma$/100cm^2

[a] Where surface contamination by both alpha- and beta-gamma-emitting nuclides exists, the limits established for alpha- and beta-gamma-emitting nuclides should apply independently.

[b] As used in this table, dpm (disintegrations per minute) means the rate of emission by radioactive material as determined by correcting the counts per minute observed by an appropriate detector for background, efficiency, and geometric factors associated with the instrumentation.

[c] Measurements of average contaminant should not be averaged over more than 1 square meter. For objects of less surface area, the average should be derived for each such object.

[d] The maximum contamination level applies to an area of not more than 100 cm^2.

[e] The amount of removable radioactive material per 100 cm^2 of surface area should be determined by wiping that area with dry filter or soft absorbent paper, applying moderate pressure, and assessing the amount of radioactive material on the wipe with an appropriate instrument of known efficiency. When removable contamination on objects of less surface area is determined, the pertinent levels should be reduced proportionally and the entire surface should be wiped.

Table 4.2
Summary of DFP Cost Estimates

Description	Table Herein	Table of Appendix F, Reg. Guide 3.66	Cost Estimate Summary
Unit Cost for Workers	Table 5.1	Table 2	(included)
Planning and Preparation	Table 5.2	Table 1	$257,638.63
Cost for Surveying Non-Contaminated Areas	Table 5.3	Table 3	$607,254.12
Cost for Decon/Dismantle of Radiological Areas	Table 5.4	Table 3	$534,058.21
Equipment and Supplies	Table 5.5	Table 4	(included)
Packaging, Shipping, and Disposal of Radioactive Waste	Table 5.6	Table 5, 6, and 7	$592,500.00
Restoration	Table 5.7	Table 8	(included)
Final Radiation Survey	Table 5.8	Table 9	(included)
Stabilization	Table 5.9	Table 10	(not applicable)
		Total	$1,991,450.90

SECTION 5.0
DECOMMISSIONING
COST ESTIMATES

Table 5.1
Unit Cost for Workers
(Table 2 of Appendix F, Reg. Guide 3.66)

Classification	$/Hour
Project Manger	$50.90
Decontamination Technicians	
Supervisor	$37.41
Senior	$24.16
Junior	$21.97
Health Physics Technicians	
Supervisor	$41.70
Senior	$31.90
Junior	$24.85
Health Physicist	$50.90
Engineer	$55.55
Clerical	$10.96
Labor	$22.00
Craft	$35.00

Note: Wage rates are from cognizant services companies and include overhead expenses.

Table 5.2
Planning and Preparation
(Table 1 of Appendix F, Reg. Guide 3.66)

1. Preparation of Documentation for Regulatory Agencies

Staff	Hours	Rate	Cost
H.P. Engineer	300	$50.90	$15,270.00
Project Manager	80	$50.90	$4,072.00
Clerical	200	$10.96	$2,192.00
		Total	$21,534.00

2. Submission of Decommissioning Plan to NRC when required by 10 CFR 30/70

Staff	Hours	Rate	Cost
H.P. Engineer	1000	$50.90	$50,900.00
Project Manager	200	$50.90	$10,180.00
Clerical	400	$10.96	$4,384.00
		Total	$65,464.00

3. Development of Work Plans

Staff	Hours	Rate	Cost
H.P. Engineer	500	$50.90	$25,450.00
Project Manager	125	$50.90	$6,362.50
Clerical	200	$10.96	$2,192.00
		Total	$34,004.50

Table 5.2 (Cont.)
Planning and Preparation
(Table 1 of Appendix F, Reg. Guide 3.66)

4. Procurement of Special Equipment

Staff	Hours	Rate	Cost
H.P. Engineer	100	$50.90	$5,090.00
Project Manager	100	$50.90	$5,090.00
Clerical	40	$10.96	$438.40
		Total	$10,618.40

5. Staff Training

Staff	Hours	Rate	Cost
H.P. Engineer	40	$50.90	$2,036.00
Project Manager	0	$50.90	$0.00
Clerical	100	$10.96	$1,096.00
H.P. Supervisor	500	$41.70	$20,850.00
		Total	$23,982.00

6. Characterization of Radiological Condition of Facility

Staff	Hours	Rate	Cost
H.P. Engineer	100	$50.90	$5,090.00
Project Manager	100	$50.90	$5,090.00
Clerical	100	$10.96	$1,096.00
H.P. Supervisor	200	$41.70	$8,340.00
		Total	$19,616.00

Table 5.2 (Cont.)
Planning and Preparation
(Table 1 of Appendix F, Reg. Guide 3.56)

7. Other

Staff	Hours	Rate	Cost
H.P. Engineer	200	$50.90	$10,180.00
Project Manager	200	$50.90	$10,180.00
Clerical	200	$10.96	$2,192.00
H.P. Supervisor	200	$41.70	$8,340.00
		Total	$30,892.00

Subtotal		$206,110.90
CONTINGENCY OF 25%		0.25
	Total	$257,638.63

Table 5.3
Cost for Surveying Non-contaminated Areas
(Table 3 of Appendix F, Reg. Guide 3.66)

1. Cost for surveying non-contaminated areas

Building	Area (ft^2)	Hours	Rate	Cost
Bldg 1	26,934[a](w,f,c)	599	$24.85	$14,885.15
Misc [b](e,p,v)	3120	150	$24.85	$3,727.50
Bldg 1A	21,162[a](w,f,c)	424	$24.85	$10,536.40
Misc [b](e,p,v)	2988	106	$24.85	$2,634.10
Bldg 2/2A	96,950[a](w,f,c)	1835	$24.85	$45,599.75
Misc [b](e,p,v)	6540	500	$24.85	$12,425.00
Bldg 3/3A (x-ray lab)	3060[a](w,f,c)	115	$24.85	$2,857.75
Misc [b](e,p,v)	500	40	$24.85	$994.00
Bldg 5	172,792[a](w,f,c)	3110	$24.85	$77,283.50
Misc [b](e,p,v)	8000	864	$24.85	$21,470.40
Bldg 16 (boronometer lab)	2160[a](w,f,c)	90	$24.85	$2,236.50
Misc [b](e,p,v)	320	20	$24.85	$497.00
Bldg 18	13,480[a](w,f,c)	155	$24.85	$3,851.75
Misc [b](e,p,v)	550	30	$24.85	$745.50

2. Cost for reviewing non-contaminated areas survey data.

Building	Area (ft^2)	Hours	Rate	Cost
(1, 1A, 2, 2A, 3, 3A,5, 6, 16, 18)	-----	400	$50.90	$20,360.00

[a] (w,f,c) indicates walls, floor, and ceiling
[b] (e,p,v) indicates electrical, piping, and ventilation

Table 5.3 (Cont.)
Cost for Surveying Non-contaminated Areas
(Table 3 of Appendix F, Reg. Guide 3.66)

3. Cost of griding non-contaminated areas.

Building	Area (ft^2)	Hours	Rate	Cost
(1, 1A, 2, 2A, 3, 3A,5, 6, 16, 18)	337,908[a] (w,f,c)	5885	$22.00	$129,470.00

4. Cost of Instrumentation support and supplies.

Building	Area (ft^2)	Hours	Rate	Cost
(1, 1A, 2, 2A, 3, 3A,5, 6, 16, 18)	----	400	$31.90	$12,760.00
Supplies	----	----	----	$10,000.00

5. Cost for collecting and analyzing volumetric samples

Building	Area (ft^2)	Hours	Rate	Cost
(1, 1A, 2, 2A, 3, 3A,5, 6, 16, 18)	----	400	$50.90	$20,360.00
Grid layout	101590	2257	$22.00	$49,654.00
Collecting	----	300	$24.85	$7,455.00
Analyses (600 @ $60 each)	----	----	----	$36,000.00

Subtotal		$485,803.30
CONTINGENCY OF 25%		0.25
	Total	$607,254.12

[a] (w,f,c) indicates walls, floor, and ceiling
[b] (e,p,v) indicates electrical, piping, and ventilation

Table 5.4
Cost for Decon/Dismantle of Radiological Areas
(Table 3 of Appendix F, Reg. Guide 3.66)

Building	Area (ft^2)[b]	Hours	Rate	Cost
Building 1 (Control zone 5)				
- Decon/Dismantle[a] equipment	1848	100	$21.97	$2,197.00
- Ventilation (Removal)	40 (ft)	40	$35.00	$1,400.00
- Supplies	----	----	----	$2,000.00
- Survey/H.P. Coverage	1848	100	$24.85	$2,485.00
- H.P. Support	1848	10	$50.90	$509.00
- Craft	----	20	$35.00	$700.00
Building 2 (Control Zone 1)				
- Decon/Dismantle[a] equipment	4800	240	$21.97	$5,272.80
- Ventilation (Removal)	200 (ft)	40	$35.00	$1,400.00
- Supplies	----	----	----	$2,500.00
- Survey/H.P. Coverage	4800	240	$24.85	$5,964.00
- H.P. Support	4800	30	$50.90	$1,527.00
- Craft	----	40	$35.00	$1,400.00

[a] Indicates hoods, benches, walls, ceiling, etc.
[b] Indicates walls, floor, and ceiling.

Table 5.4 (Cont.)
Cost for Decon/Dismantle of Radiological Areas
(Table 3 of Appendix F, Reg. Guide 3.66)

Building	Area (ft^2)[(b)]	Hours	Rate	Cost
Building 2 (Control zone 2)				
- Decon/Dismantle[(a)] equipment	1152	85	$21.97	$1,867.45
- Ventilation (Removal)	100 (ft)	40	$35.00	$1,400.00
- Supplies	-----	-----	-----	$3,000.00
- Survey/H.P. Coverage	1152	85	$24.85	$2,112.25
- H.P. Support	1152	10	$50.90	$509.00
- Craft	-----	40	$35.00	$1,400.00
Building 2 (Control Zone 3)				
- Decon/Dismantle[(a)] equipment	780	46	$21.97	$1,010.62
- Ventilation (Removal)	20 (ft)	30	$35.00	$1,050.00
- Supplies	-----	-----	-----	$2,000.00
- Survey/H.P. Coverage	780	46	$24.85	$1,143.10
- H.P. Support	780	10	$50.90	$509.00
- Craft	-----	20	$35.00	$700.00

[(a)] Indicates hoods, benches, walls, ceiling, etc.
[(b)] Indicates walls, floor, and ceiling.

Table 5.4 (Cont.)
Cost for Decon/Dismantle of Radiological Areas
(Table 3 of Appendix F, Reg. Guide 3.66)

Building	Area (ft^2)[b]	Hours	Rate	Cost
Building 2 (Control zone 4A)				
- Decon/Dismantle[a] equipment	1640	120	$21.97	$2,636.40
- Ventilation (Removal)	20 (ft)	30	$35.00	$1,050.00
- Supplies	-----	-----	-----	$3,000.00
- Survey/H.P. Coverage	1640	120	$24.85	$2,982.00
- H.P. Support	1640	20	$50.90	$1,018.00
- Craft	-----	40	$35.00	$1,400.00
Building 2 (Control Zone 4B)				
- Decon/Dismantle[a] equipment	2056	115	$21.97	$2,526.55
- Ventilation (Removal)	20 (ft)	40	$35.00	$1,400.00
- Supplies	-----	-----	-----	$5,000.00
- Survey/H.P. Coverage	2056	115	$24.85	$2,857.75
- H.P. Support	2056	20	$50.90	$1,018.00
- Craft	-----	50	$35.00	$1,750.00

[a] Indicates hoods, benches, walls, ceiling, etc.
[b] Indicates walls, floor, and ceiling.

Table 5.4 (Cont.)
Cost for Decon/Dismantle of Radiological Areas
(Table 3 of Appendix F, Reg. Guide 3.66)

Building	Area (ft^2)[b]	Hours	Rate	Cost
Building 5 (Room 106)				
- Decon/Dismantle[a] equipment	2148	120	$21.97	$2,636.40
- Ventilation (Removal)	0 (ft)	0	$35.00	$0.00
- Supplies	----	----	----	$2,000.00
- Survey/H.P. Coverage	2148	120	$24.85	$2,982.00
- H.P. Support	1848	10	$50.90	$509.00
- Craft	----	15	$35.00	$525.00
Building 5 (Room 218)				
- Decon/Dismantle[a] equipment	1,292	75	$21.97	$1,647.75
- Ventilation (Removal)	100 (ft)	40	$35.00	$1,400.00
- Supplies	----	----	----	$1,500.00
- Survey/H.P. Coverage	1,292	75	$24.85	$1,863.75
- H.P. Support	1,292	15	$50.90	$763.50
- Craft	----	20	$35.00	$700.00

[a] Indicates hoods, benches, walls, ceiling, etc.
[b] Indicates walls, floor, and ceiling.

Table 5.4 (Cont.)
Cost for Decon/Dismantle of Radiological Areas
(Table 3 of Appendix F, Reg. Guide 3.66)

Building	Area (ft^2)[b]	Hours	Rate	Cost
Building 5 (Room 221)				
- Decon/Dismantle[a] equipment	1080	60	$21.97	$1,318.20
- Ventilation (Removal)	0 (ft)	0	$35.00	$0.00
- Supplies	----	----	----	$3,000.00
- Survey/H.P. Coverage	1080	60	$24.85	$1,491.00
- H.P. Support	1848	10	$50.90	$509.00
- Craft	----	40	$35.00	$1,400.00
Building 5 (Room 224A)				
- Decon/Dismantle[a] equipment	2176	120	$21.97	$2,636.40
- Ventilation (Removal)	75 (ft)	30	$35.00	$1,050.00
- Supplies	----	----	----	$2,500.00
- Survey/H.P. Coverage	2176	120	$24.85	$2,982.00
- H.P. Support	1848	20	$50.90	$1,018.00
- Craft	----	10	$35.00	$350.00

[a] Indicates hoods, benches, walls, ceiling, etc.
[b] Indicates walls, floor, and ceiling.

Table 5.4 (Cont.)
Cost for Decon/Dismantle of Radiological Areas
(Table 3 of Appendix F, Reg. Guide 3.66)

Building	Area (ft^2)[(b)]	Hours	Rate	Cost
Building 5 (Room 224; C, D. G. H)				
- Decon/Dismantle[(a)] equipment	3088	180	$21.97	$3,954.60
- Ventilation (Removal)	100 (ft)	40	$35.00	$1,400.00
- Supplies	-----	-----	-----	$5,000.00
- Survey/H.P. Coverage	3088	180	$24.85	$4,473.00
- H.P. Support	1848	20	$50.90	$1,018.00
- Craft	-----	50	$35.00	$1,750.00
Building 5 (Room 225)				
- Decon/Dismantle[(a)] equipment	3240	180	$21.97	$3,954.60
- Ventilation	0 (ft)	0	$35.00	$0.00
- Supplies	-----	-----	-----	$4,000.00
- Survey/H.P. Coverage	3240	180	$24.85	$4,473.00
- H.P. Support	3240	10	$50.90	$509.00
- Craft	-----	20	$35.00	$700.00

[(a)] Indicates hoods, benches, walls, ceiling, etc.
[(b)] Indicates walls, floor, and ceiling.

Table 5.4 (Cont.)
Cost for Decon/Dismantle of Radiological Areas
(Table 3 of Appendix F, Reg. Guide 3.66)

Building	Area (ft^2)[b]	Hours	Rate	Cost
Building 5 (Room 228)				
- Decon/Dismantle[a] equipment	4540	200	$21.97	$4,394.00
- Ventilation (Removal)	140 (ft)	40	$35.00	$1,400.00
- Supplies	-----	-----	----	$5,000.00
- Survey/H.P. Coverage	4540	200	$24.85	$4,970.00
- H.P. Support	4540	20	$50.90	$1,018.00
- Craft	-----	50	$35.00	$1,750.00
Building 5 (Room 231)				
- Decon/Dismantle[a] equipment	1020	55	$21 97	$1,208.35
- Ventilation (Removal)	0 (ft)	0	$35.00	$0.00
- Supplies	-----	-----	-----	$1,000.00
- Survey/H.P. Coverage	1020	55	$24.85	$1,366.75
- H.P. Support	1020	10	$50.90	$509.00
- Craft	-----	10	$35.00	$350.00

[a] Indicates hoods, benches, walls, ceiling, etc.
[b] Indicates walls, floor, and ceiling.

Table 5.4 (Cont.)
Cost for Decon/Dismantle of Radiological Areas
(Table 3 of Appendix F, Reg. Guide 3.66)

Building	Area (ft^2)[b]	Hours	Rate	Cost
Building 5 (Room 231A)				
- Decon/Dismantle[a] equipment	980	40	$21.97	$878.80
- Ventilation (Removal)	0 (ft)	0	$35.00	$0.00
- Supplies	-----	-----	-----	$1,250.00
- Survey/H.P. Coverage	980	40	$24.85	$994.00
- H.P. Support	980	10	$50.90	$509.00
- Craft	-----	10	$35.00	$350.00
Building 5 (Room 232)				
- Decon/Dismantle[a] equipment	1120	50	$21.97	$1,098.50
- Ventilation (Removal)	0 (ft)	0	$35.00	$0.00
- Supplies	-----	-----	-----	$2,000.00
- Survey/H.P. Coverage	1120	50	$24.85	$1,242.50
- H.P. Support	1120	10	$50.90	$509.00
- Craft	-----	10	$35.00	$350.00

[a] Indicates hoods, benches, walls, ceiling, etc.
[b] Indicates walls, floor, and ceiling.

Table 5.4 (Cont.)
Cost for Decon/Dismantle of Radiological Areas
(Table 3 of Appendix F, Reg. Guide 3.66)

Building	Area (ft^2)[b]	Hours	Rate	Cost
Building 5 (Room 232A and B)				
- Decon/Dismantle[a] equipment	9768	320	$21.97	$7,030.40
- Ventilation (Removal)	0 (ft)	0	$35.00	$0.00
- Supplies	----	----	-----	$5,000.00
- Survey/H.P. Coverage	9768	320	$24.85	$7,952.00
- H.P. Support	9768	40	$50.90	$2,036.00
- Craft	----	40	$35.00	$1,400.00
Building 5 (Room 305)				
- Decon/Dismantle[a] equipment	1548	85	$21.97	$1,867.45
- Ventilation (Removal)	120 (ft)	40	$35.00	$1,400.00
- Supplies	----	----	-----	$2,000.00
- Survey/H.P. Coverage	1548	85	$24.85	$2,112.25
- H.P. Support	1548	10	$50.90	$509.00
- Craft	----	50	$35.00	$1,750.00

[a] Indicates hoods, benches, walls, ceiling, etc.
[b] Indicates walls, floor, and ceiling.

Table 5.4 (Cont.)
Cost for Decon/Dismantle of Radiological Areas
(Table 3 of Appendix F, Reg. Guide 3.66)

Building	Area (ft^2)[b]	Hours	Rate	Cost
Building 5 (Room 308)				
- Decon/Dismantle[a] equipment	740	40	$21.97	$878.80
- Ventilation (Removal)	0 (ft)	0	$35.00	$0.00
- Supplies	-----	-----	-----	$2,000.00
- Survey/H.P. Coverage	740	40	$24.85	$994.00
- H.P. Support	740	10	$50.90	$509.00
- Craft	-----	10	$35.00	$350.00
Building 5 (Room 309)				
- Decon/Dismantle[a] equipment	4240	320	$21.97	$7,030.40
- Ventilation (Removal)	259 (ft)	80	$35.00	$2,800.00
- Supplies	-----	-----	-----	$11,000.00
- Survey/H.P. Coverage	4240	320	$24.85	$7,952.00
- H.P. Support	4240	45	$50.90	$2,290.50
- Craft	-----	110	$35.00	$3,850.00

[a] Indicates hoods, benches, walls, ceiling, etc.
[b] Indicates walls, floor, and ceiling.

Table 5.4 (Cont.)
Cost for Decon/Dismantle of Radiological Areas
(Table 3 of Appendix F, Reg. Guide 3.66)

Building	Area (ft^2)[b]	Hours	Rate	Cost
Building 6 (Retention/Dilution Tanks)				
- Decon/Dismantle[a] equipment	----	300	$21.97	$6,591.00
- Ventilation (Removal)	0 (ft)	0	$35.00	$0.00
- Supplies	----	----	----	$7,000.00
- Survey/H.P. Coverage	----	300	$24.85	$7,455.00
- H.P. Support	----	40	$50.90	$2,036.00
- Craft	----	360	$35.00	$12,600.00
Buildings (1, 1A, 2, 2A, 5, 6,) (Underground Piping)				
- Decon/Dismantle	----	575	$21.97	$12,632.75
- Supplies/equipment	----	----	----	$100,000.00
- Survey/H.P. Coverage	----	300	$24.85	$7,455.00
- H.P. Support	----	120	$50.90	$6,108.00
- Craft	----	680	$35.00	$23,800.00

[a] Indicates hoods, benches, walls, ceiling, etc.
[b] Indicates walls, floor, and ceiling.

Subtotal		$427,246.57
CONTINGENCY OF 25%		0.25
	Total	$534,058.21

Table 5.5
Equipment and Supplies
(Table 4 of Appendix F, Reg. Guide 3.66)

Cost of equipment and supplies have been included in Table 5.3 "Cost for Surveying Non-contaminated Areas" and 5.4 "Cost for Decon/Dismantle of Radiological Areas" of this DFP. The types, quantity, and cost will depend on the work performed. Within the DFP, a total of $181,750.00 has been included to cover the cost of equipment and supplies (e.g., smears, rags, HEPA units, strippable paint, soil removal/rigging equipment, etc.).

Table 5.6
Packaging, Shipping and Disposal of Radioactive Wastes
(Table 5, 6, and 7 of Appendix F, Reg. Guide 3.66)

Building	Waste Type[a]	Volume (ft^3)	Cost[b]
1.Disposal of Radioactive Wastes			
Bldg 1 - Control zone 5	Solid	85	$34,000.00
Bldg 2/2A			
- Control zone 1	Solid	100	$40,000.00
- Control zone 2	Solid	100	$40,000.00
- Control zone 3	Solid	25	$10,000.00
- Control zone 4A	Solid	90	$36,000.00
- Control zone 4B	Solid	210	$84,000.00
Bldg 5			
- Room 106	Solid	10	$4,000.00
- Room 218	Solid	20	$8,000.00
- Room 221	Solid	10	$4,000.00
- Room 224A	Solid	5	$2,000.00
- Room 224 (C,D,G,H)	Solid	90	$36,000.00
- Room 225	Solid	10	$4,000.00
- Room 228	Solid	30	$12,000.00
- Room 231	Solid	30	$12,000.00
- Room 231A	Solid	5	$2,000.00

[a] Indicates wood, metal, wallboard, concrete, floor tiles, etc.
[b] Cost based upon average of $400/$ft^3$ of waste.

Table 5.6 (Cont.)
Packaging, Shipping and Disposal of Radioactive Wastes
(Table 5, 6, and 7 of Appendix F, Reg. Guide 3.66)

Building	Waste Type[a]	Volume (ft^3)	Cost[b]
Bldg 5 (Cont.)			
- Room 232	Solid	10	$4,000.00
- Room 232 A and B	Solid	10	$4,000.00
- Room 305	Solid	10	$4,000.00
- Room 308	Solid	30	$12,000.00
- Room 309	Solid	20	$8,000.00
- Room 320A	Solid	10	$4,000.00
- Room 321	Solid	30	$12,000.00
Bldg 6			
- Tanks (14)	Solid	180	$72,000.00
Ancillary Areas			
- Piping	Solid	40	$16,000.00
2. Packaging and Shipping - Bldg (1, 1A, 2, 2A, 5, 6)			
- Containers and Transportation	Solid	-----	$10,000.00

Subtotal		$474,000.00
CONTINGENCY OF 25%		.25
	Total	$592,500.00

[a] Indicates wood, metal, wallboard, concrete, floor tiles, etc.
[b] Cost based upon average of $400/$ft^3$ of waste.

Table 5.7
Restoration of Contaminated Areas on Facility Ground
(Table 8 of Appendix F, Reg. Guide 3.66)

The estimates of the preceding tables include costs for remediating the facilities to release for unrestricted use. Therefore, necessary costs are included and additional costs for restoration are not applicable.

Table 5.8
Final Radiation Survey
(Table 9 of Appendix F, Reg. Guide 3.66)

A total of 10,889 man-hours have been estimated in this DFP for surveying which includes the final radiation survey. Also, 780 man-hours have been included in the estimates for supervision support of the final radiation survey. See Tables 5.3 "Cost for Surveying Non-contaminated Areas" and 5.4 "Cost for Decon/Dismantle of Radiological Areas."

Table 5.9
Site Stabilization, Long-term Surveillance
(Table 10 of Appendix F, Reg. Guide 3.66)

The estimates of the preceding tables include costs for remediating the facilities to release for unrestricted use. Therefore, additional costs for site stabilization or long term surveillance are not applicable.

6.0 FINANCIAL ASSURANCE METHOD

A. Standby Trust Agreement

10 CFR 30.25(e) and 10 CFR 70.25(e) require that a description of the method of assuring funds for decommissioning be contained in each decommissioning funding plan. In References (6 &7), CE submitted to the NRC the previous financial assurance for decommissioning associated with License No. 06-00217-06 An executed Standby Trust Agreement was included in that submittal. Combustion Engineering continues to use the surety method permitted by 10 CFR 30.25(f)(2) and 10 CFR 70.25(f)(2); the Standby Trust Agreement of References(6 & 7) continues to be valid.

B. Surety Bond

The attachment to this Decommissioning Funding Plan provides an appropriately executed rider to the existing surety bond, as submitted to the NRC by Reference (6), to increase its limit from $750,000 to $2,000,000.00. This amount is based on and consistent with the cost estimates for decommissioning summarized in Table 4.2 and detailed in Section 5.0 herein.

C. Cost Estimate and Funding Adjustments

The estimated decommissioning costs are based on 1995 dollars. 10 CFR 70.25(e) and 10 CFR 30.35(e) require that decommissioning cost estimates and associated funding levels be adjusted "periodically over the life of the facility." CE will adjust the DFP upon the next license renewal.

7.0 REFERENCES

1. USNRC Regulatory Guide 1.86, "Termination of Operating Licenses for Nuclear Reactors", June 1974

2. "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of License for Byproduct, Source, or Special Nuclear Material", USNRC, Division of Industrial and Medical Nuclear Safety, April 1993

3. NRC Branch Technical Position: "Disposal or On-Site Storage of Residual Thorium or Uranium (NRC, 1981, 46FR52061)

4. "Standard Format and Content Guide for Financial Assurance Mechanisms Required for Decommissioning Under 10 CFR Parts 30, 40, 70, and 72", USNRC, NUREG-1336, Rev. 1 (August 1989)

5. "Standard Format and Content of Financial Assurance Mechanisms Required for Decommissioning Under 10 CFR Parts 30, 40, 70, and 72", USNRC, Regulatory Guide 3.66 (Task DG-3002), (June 1990)

6. CE (J. F. Conant) letter to NRC (L. H. Bettenhausen), LD-90-049, dated July 19, 1990, "Financial Assurance for Decommissioning"

ATTACHMENT I

RIDER TO INCREASE SURETY BOND

CHUBB GROUP OF INSURANCE COMPANIES

100 William Street, New York, New York 10038-4668

FEDERAL INSURANCE COMPANY

RIDER to be attached to and form a part of Bond No. 81266980 wherein Combustion Engineering, Inc.

is named as Principal, and FEDERAL INSURANCE COMPANY, as Surety, in favor of U.S. Nuclear Regulatory Commission

in the amount of $750,000.00 effective May 24, 1990

IT IS HEREBY STIPULATED AND AGREED THAT effective May 24, 1995 said bond is hereby amended as follows:

The bond shall be increased:

From: Seven hundred fifty thousand & 00/100 ($750,000.00)

To: Two million & 00/100 ($2,000,000.00)

and that Combustion Engineering, Inc. shall be held and firmly bound and hereby binds itself, its successors and assigns, as Principal, and FEDERAL INSURANCE COMPANY hereby binds itself, its successors and assigns, as Surety, in accordance with the terms, provisions and conditions of said bond as so amended.

IN WITNESS WHEREOF, the said Principal and said Surety have signed or caused this Rider to be duly signed and their respective seals to be hereunto affixed this 12th day of May 19 95 .

Combustion Engineering, Inc.

By: _____

Assistant Secretary

FEDERAL INSURANCE COMPANY

By: _____

Vincent Moy

Attorney-in-fact

POWER OF ATTORNEY

FEDERAL INSURANCE COMPANY
ATTN: SURETY DEPARTMENT
15 Mountain View Road, Warren, NJ 07059
(908) 580-2000

[redacted] Know all Men by these Presents, That FEDERAL INSURANCE COMPANY, an Indiana Corporation, has constituted and appointed, and does hereby [redacted]ute and appoint Vincent Moy, William J. Paterno and Catherine Rosano of New York, New York --------

each its true and lawful Attorney-in-Fact to execute under such designation in its name and to affix its corporate seal to and deliver for and on its behalf as surety thereon or otherwise, bonds or obligations (other than Bail Bonds) given or executed in the course of its business, and any instruments amending or altering the same, and consents to the modification or alteration of any instruments referred to in said bonds or obligations.

In Witness Whereof, the said FEDERAL INSURANCE COMPANY has, pursuant to its By-Laws, caused these presents to be signed by its Vice-President and Assistant Secretary and its corporate seal to be hereto affixed this 21st day of June 19 94

Corporate Seal

FEDERAL INSURANCE COMPANY
By
Gerardo G. Maunz
Vice-President

Kenneth C. Wendel
Assistant Secretary

STATE OF NEW JERSEY
County of Somerset } ss.

On this 21st day of June 19 94 before me personally came Kenneth C. Wendel to me known and by me known to be Assistant Secretary of FEDERAL INSURANCE COMPANY, the corporation described in and which executed the foregoing Power of Attorney, and the said Kenneth C. Wendel being by me duly sworn, did depose and say that he is Assistant Secretary of FEDERAL INSURANCE COMPANY and knows the corporate seal thereof; that the seal affixed to the foregoing Power of Attorney is such corporate seal and was thereto affixed by authority of the By-Laws of said Company, and that he signed said Power of Attorney as Assistant Secretary of said Company by like authority; and that he is acquainted with Gerardo G. Maunz and knows him to be the Vice-President of said Company, and the signature of said Gerardo G. Maunz subscribed to said Power of Attorney is in the genuine handwriting of said Gerardo G. Maunz and was thereto subscribed by authority of said By-Laws and in his presence.

No. Seal

Acknowledged and Sworn to before me
on the date above written.

Notary Public

CERTIFICATION

STATE OF NEW JERSEY
County of Somerset } ss.

I, the undersigned, Assistant Secretary of FEDERAL INSURANCE COMPANY, do hereby certify that the following is a true excerpt from the By-Laws of the said Company as adopted by its Board of Directors on June 13, 1974 and most recently amended March 2, 1990 and that this By-Law is in full force and effect.

"ARTICLE XVIII

Section 2. All bonds, undertakings, contracts and other instruments other than as above for and on behalf of the Company which it is authorized by law or its charter to execute, may and shall be executed in the name and on behalf of the Company either by the Chairman or the Vice-Chairman or the President or a Vice-President, jointly with the Secretary or an Assistant Secretary, under their respective designations, except that any one or more officers or attorneys-in-fact designated in any resolution of the Board of Directors or the Executive Committee, or in any power of attorney executed as provided for in Section 3 below, may execute any such bond, undertaking or other obligation as provided in such resolution or power of attorney.

Section 3. All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the Vice-Chairman or the President or a Vice-President or an Assistant Vice-President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, Vice Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I further certify that said FEDERAL INSURANCE COMPANY is duly licensed to transact fidelity and surety business in each of the States of the United States of America, District of Columbia, Puerto Rico, and each of the Provinces of Canada with the exception of Prince Edward Island; and is also duly licensed to become sole surety on bonds, undertakings, etc., permitted or required by the law.

I, the undersigned Assistant Secretary of FEDERAL INSURANCE COMPANY, do hereby certify that the foregoing Power of Attorney is now in full force and effect.

Given under my hand and the seal of said Company at Warren, N.J., this 12th day of May 19 95

Assistant Secretary

Form 15-10-0136 (Rev. 10-93) CONSENT

M-55629 (5001)

PRINTED IN U.S.A.

STATE OF NEW YORK)
)
COUNTY OF NEW YORK)

On this 12th day of May, 1995 before me personally came Vincent Moy who, being by me duly sworn, did depose and say that he/she is an Attorney-In-Fact of the FEDERAL INSURANCE COMPANY, and knows the corporate seal thereof, that the seal affixed to said annexed instrument is such corporate seal, and was thereto affixed by authority of the Power of Attorney of said Company, of which a Certified Copy is hereto attached, and that he/she signed said Instrument as an Attorney-In-Fact of said Company by like authority.

Acknowledged and Sworn to before me
on the date above written

ANA W. OLIVERAS
NOTARY PUBLIC, State of New York
No. 03-4975178
Qualified in Bronx County
Commission Expires Jan. 14, 19 97

Ana W. Oliveras

STATEMENT OF ASSETS, LIABILITIES AND SURPLUS TO POLICYHOLDERS

Statutory Basis

DECEMBER 31, 1993

(in thousands of dollars)

ASSETS		LIABILITIES AND SURPLUS TO POLICYHOLDERS	
Cash	$ 5,253	Outstanding Losses and Loss Expenses	$4,425,194
United States Treasury Bonds	217,699	Unearned Premiums	990,348
United States Government and Federal Agency Guaranteed Bonds	189,859	Provision for Reinsurance	51,872
State and Municipal Bonds	3,148,953	Loss Portfolio Transfer	(140,894)
Other Bonds	419,945	Other Liabilities	530,812
Stocks	326,509		
Short Term Investments	715,720	TOTAL LIABILITIES	5,857,432
Other Invested Assets	158,527		
TOTAL INVESTMENTS	5,184,475		
Investments in Affiliates:			
Vigilant Insurance Company	317,750	Capital Stock	13,957
Great Northern Insurance Company	111,566	Paid-In Surplus	472,986
Pacific Indemnity Company	543,069	Unassigned Funds	906,292
Bellemead Development Corporation	412,569	Unrealized Appreciation of Investments	400,795
CC Canada Holdings Ltd.	77,043		
Other Affiliates	94,840	SURPLUS TO POLICYHOLDERS	1,794,060
Net Premiums Receivable	447,222		
Other Assets	262,818		
TOTAL ADMITTED ASSETS	$7,451,492	TOTAL LIABILITIES AND SURPLUS TO POLICYHOLDERS	$7,451,492

Investments are valued in accordance with requirements of the National Association of Insurance Commissioners. Investments valued at $16,745 are deposited with government authorities as required by law.

State, County & City of New York, – ss:

Richard Eight, Assistant Secretary of the Federal Insurance Company being duly sworn, deposes and says that the foregoing Statement of Assets, Liabilities and Surplus to Policyholders of said Federal Insurance Company on December 31, 1993 is true and correct and is a true abstract of the Annual Statement of said Company as filed with the Secretary of the Treasury of the United States for the 12 months ending December 31, 1993.

Subscribed and sworn to before me this _____ day of _____, 1994.

Assistant Secretary

Notary Public

KELLY L. BROWN
Notary Public, State of New York
No. 31-4685139
Qualified in New York County
Commission Expires December 8, 1994

FORM 27-10-00 TA (Rev. 12-93)

IN USA

Combustion Engineering, Inc.

2000 Day Hill Road
Windsor, CT 06095-0500

Decommissioning Funding Plan

Part 2
Building 17

License No. 06-00217-06

Docket No. 030-03754

DECOMMISSIONING FUNDING PLAN

TABLE OF CONTENTS

1.0 INTRODUCTION

This Decommissioning Funding Plan (DFP) is pursuant to 10 CFR 70.25 and 30.35 and contains the information required by 10 CFR 70.25(e) and 10 CFR 30.35(e) . This DFP consists of seven parts: Introduction, Scope, Facility Description, Decommissioning Criteria, Decommissioning Cost Estimates, Financial Assurance Method and References.

2.0 SCOPE

This Decommissioning Funding Plan is for the Combustion Engineering, Inc. (CE), Type A Broad Scope License No. 06-00217-06 for facilities located at 2000 Day Hill Road, Windsor, Connecticut. This part of the Plan includes Building 17.

3.0 FACILITY DESCRIPTION

Building #17 is the former Nuclear Fuel Manufacturing Facility. The building consists of three (3) bays, A,B, and C. This part of the decommissioning plan addresses primarily Bay C and its environs, primarily because an extensive remediation of the building took place between 1993 and 1995. Bay C is currently an empty area 300ft x 40ft x 30ft. The floor is scarified concrete, the walls are concrete cinder block , which have been cleaned. The contamination levels on the floor and walls are generally below the release criteria set forth in **Table 4.1** The roof and its attendant joists are contaminated to a level exceeding the release criteria set forth in **Table 4.1**. A HEPA filtered, exhaust fan unit is the only piece of equipment left in Bay C. It is expected that this unit will be used for byproduct operations once reconstruction is completed. The intent is to introduce byproduct material into Bay C and perform operations similar to the ones being carried out in Buildings 2 & 2A.

The decommissioning costs for this building will be similar to the costs for buildings 2/2A (see Table 5.4 pages 18-21 of DFP Part 1) for byproduct material. The additional (i.e. "leftover") costs will be for the decontamination or dismantlement of Bay C, the removal of contaminated piping associated with the building, and final release surveys for uranium and byproduct material.

4.0 DECOMMISSIONING CRITERIA

This Decommissioning Funding Plan is for the Type A Broad Scope license for CE's Building 17 facilities at 2000 Day Hill Road, Windsor, CT, License No. 06-00217-06 Docket No. 030-03754.

4.1 Residual Contamination Criteria

Cost estimates were based on the assumption that facilities and equipment would be released for unrestricted use when residual contamination met the criteria established in Regulatory Guide 1.86, Reference (1), as shown in Table 4.1, which is consistent with "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of License for Byproduct, Source, or Special Nuclear Material", Reference (2). Estimates are further based on the assumption that soils will be free released according to NRC Branch Technical Position: "Disposal or On-Site Storage of Residual Thorium or Uranium", Reference (3).

4.2 Salvage

The salvage value of any material or equipment was not included in this DFP. Likewise, the costs associated with moving equipment to the Hematite Missouri Fuel Manufacturing Plant or CE's Southeast Nuclear Service Center prior to decommissioning are beyond the scope of this plan.

4.3 Low Level Waste

This plan assumes that a Low Level Waste (LLW) burial site will be available to bury material and equipment that does not meet free release criteria. Also included is the projected burial cost and surcharges, totaling an average of $\$400/ft^3$, for LLW to be buried and the cost for containers (B-25) and transportation.

4.4 Estimation Methodology

Since Building 17 is under anapproved Decommissioning Plan, it is Combustion Engineering's intent to maintain currently approved Decommissioning Funding Plan levels (i.e. $2,000,000) that is bonded under License SNM-1067, in favor of the U.S. Nuclear Regulatory Commission, and will be maintained in a current status. A copy of the bond rider is enclosed.

Provisions have been made to include sufficient contingency funds in the cost estimates. Further revisions and refinements to the plan that may better define the cost estimates may also result in reduction of associated contingency funding.

Estimates provided in this Plan are shown in 1995 dollars. A summary of the cost estimates is given in Table 4.2. The details of the costs estimates are given in the tables of Section 5.0.

4.5 Duration of Decommissioning

Cost estimates are based on the assumption that the majority of the decontamination and decommissioning activities will be completed within two years of commencing.

4.6 Decontamination Methodology

Cost estimates are also based on the assumption that decontamination tasks will be completed using methodologies drawn from the following listing:

1)Hand Wiping: It is anticipated that the majority of the contaminated equipment and materials will be cleaned using hand wiping. This will involve manually cleaning equipment, structure, and/or material surfaces using rags, maslin, paper and/or abrasive pads and a cleaning solution such as Alconox or similar. Decontamination solutions will be carefully selected to ensure that mixed waste is not generated. This method has been selected because it is a simple and effective method for routine decontamination tasks and personnel are easily trained to safely use this technique. Rags, etc., used in these operations may be laundered and reused.

2)Hydrolasing: This methodology is an available option for removal of widespread areas of loose surface contamination. This method will only be utilized in an enclosed area that is set up specifically for hydrolasing. Specific allowances will be made for the recapture and recycling of contaminated water.

3)CO_2 Cleaning: This technology is an available option for surface cleaning by means of tiny, solidified pellets of CO_2. The gaseous CO_2 is then collected by a suction line and passes through a HEPA filter. Advantages to this process include its effectiveness at cleaning intricate surfaces, its lack of physical surface damage, and its lack of secondary radioactive waste generation.

4) Strippable Paint: This material, commonly used in nuclear power plants, may have some applicability in two areas. First, it may be used to provide a removable, protective coating over decontaminated areas remaining in the vicinity of ongoing decontamination work. Second, it may be utilized to perform actual decontamination tasks on large smooth surfaces such as metal sheets or similar. If used, it is intended that, following its removal, the paint may be incinerated in an approved facility, thus reducing radioactive waste burial volumes.

5) Abrasive Media Cleaning: This process utilizes either sponge-like material, sand, or grit accelerated by high pressure air to effect controlled decontamination of contaminated surfaces. These media have the advantage of being reusable, to a degree. When exhausted, the sponge material may be incinerated in an approved facility, resulting in relatively small volumes of low level waste. The sand and/or grit will be disposed of as low level radioactive waste if it exceeds the criteria listed in Reference (3).

6) Material Surface Removal: In cases where hand wiping or other surface cleaning methods are insufficient to remove contaminates present, removal of material surfaces may be required. For tools, equipment, and other metal objects, grinders may be utilized to remove contaminants that would otherwise be considered fixed contamination. This will avoid the necessity of disposing of large inventories of materials as radioactive waste. For contaminated structural materials such as concrete floors and walls, scabblers and scarifiers may be utilized to remove contaminated surface from those materials. To the extent practical, engineering controls will be used to reduce aerosols that can result from scabbling and/or scarifying operations. Scabbling has been proven successful in a number of areas and buildings during recent decontamination projects.

Table 4.1
Acceptable Surface Contamination Levels

NUCLIDE[a]	AVERAGE[b c]	MAXIMUM[b d]	REMOVABLE[b e]
U-nat, U-235, U-238, and associated decay products	5,000 dpm α/100cm^2	15,000 dpm α/100cm^2	1,000 dpm α/100 cm^2
Transuranics, Ra-226, Ra-228,Th-230, Th-228, Pa-231, Ac-227, I-125, I-129	100 dpm/100cm^2	300 dpm/100cm^2	20 dpm/100cm^2
Th-nat, Th-232, Sr-90 Ra-223, Ra-224, U-232 I-126, I-131, I-133	1000 dpm/100cm^2	3000 dpm/100cm^2	200 dpm/100cm^2
Beta-gamma emitters (nuclides with decay modes other than alpha emission or spontaneous fission) except Sr-90 and others noted above	5000 dpm$\beta\gamma$/100cm^2	15,000 dpm$\beta\gamma$/100cm^2	1000 dpm$\beta\gamma$/100cm^2

[a] Where surface contamination by both alpha- and beta-gamma-emitting nuclides exists, the limits established for alpha- and beta-gamma-emitting nuclides should apply independently.

[b] As used in this table, dpm (disintegrations per minute) means the rate of emission by radioactive material as determined by correcting the counts per minute observed by an appropriate detector for background, efficiency, and geometric factors associated with the instrumentation.

[c] Measurements of average contaminant should not be averaged over more than 1 square meter. For objects of less surface area, the average should be derived for each such object.

[d] The maximum contamination level applies to an area of not more than 100 cm^2.

[e] The amount of removable radioactive material per 100 cm^2 of surface area should be determined by wiping that area with dry filter or soft absorbent paper, applying moderate pressure, and assessing the amount of radioactive material on the wipe with an appropriate instrument of known efficiency. When removable contamination on objects of less surface area is determined, the pertinent levels should be reduced proportionally and the entire surface should be wiped.

Table 4.2
Summary of DFP Cost Estimates

Description	Table Herein	Table of Appendix F, Reg. Guide 3.66	Cost Estimate Summary
Unit Cost for Workers	Table 5.1	Table 2	(included)
Planning and Preparation	Table 5.2	Table 1	$123,077.00
Cost for Surveying Non-Contaminated Areas	Table 5.3	Table 3	$ 43,980.00
Cost for Decon/Dismantle of Radiological Areas	Table 5.4-A Table 5.4-B	Table 3 Table 3	$ 84,138.00 $158,580.00
Equipment and Supplies	Table 5.5	Table 4	(included)
Packaging, Shipping, and Disposal of Radioactive Waste	Table 5.6	Table 5, 6, and 7	$620,000.00
Restoration	Table 5.7	Table 8	(included)
Final Radiation Survey	Table 5.8	Table 9	(included)
Stabilization	Table 5.9	Table 10	(not applicable)
		Total	$1,029,775.00

+25% Contingency $ 257,443.75

GRAND TOTAL **$1,287,218.75**

SECTION 5.0
DECOMMISSIONING
COST ESTIMATES

Table 5.1
Unit Cost for Workers
(Table 2 of Appendix F, Reg. Guide 3.66)

Classification	$/Hour
Project Manger	$50.90
Decontamination Technicians	
Supervisor	$37.41
Senior	$24.16
Junior	$21.97
Health Physics Technicians	
Supervisor	$41.70
Senior	$31.90
Junior	$24.85
Health Physicist	$50.90
Engineer	$55.55
Clerical	$10.96
Labor	$22.00
Craft	$35.00

Note: Wage rates are from cognizant services companies and include overhead expenses.

Table 5.2
Planning and Preparation
(Table 1 of Appendix F, Reg. Guide 3.66)

1. Preparation of Documentation for Regulatory Agencies

Staff	Hours	Rate	Cost
H.P. Engineer	200	$50.90	$10,180.00
Project Manager	80	$50.90	$4,072.00
Clerical	200	$10.96	$2,192.00
		Total	$16,444.00

2. Submission of Decommissioning Plan to NRC when required by 10 CFR 30

Staff	Hours	Rate	Cost
H.P. Engineer	600	$50.90	$30,540.00
Project Manager	100	$50.90	$ 5,090.00
Clerical	400	$10.96	$4,384.00
		Total	$40,014.00

3. Development of Work Plans

Staff	Hours	Rate	Cost
H.P. Engineer	250	$50.90	$12,725.00
Project Manager	80	$50.90	$4,072.00
Clerical	200	$10.96	$2,192.00
		Total	$18,989.00

Table 5.2 (Cont.)
Planning and Preparation
(Table 1 of Appendix F, Reg. Guide 3.66)

4. Procurement of Special Equipment

   No additional cost associated with this item, as we will have all necessary equipment from the operational phase.

5. Staff Training

Staff	Hours	Rate	Cost
H.P. Engineer	40	$50.90	$2,036.00
Project Manager	0	$50.90	$0.00
Clerical	100	$10.96	$1,096.00
H.P. Supervisor	200	$41.70	$ 8,34000
		Total	$11,47200

6. Characterization of Radiological Condition of Facility

Staff	Hours	Rate	Cost
H.P. Engineer	100	$50.90	$5,090.00
Project Manager	100	$50.90	$5,090.00
Clerical	100	$10.96	$1,096.00
H.P. Supervisor	200	$41.70	$8,340.00
		Total	$19,616.00

Table 5.2 (Cont.)
Planning and Preparation
(Table 1 of Appendix F, Reg. Guide 3.66)

7. Other

Staff	Hours	Rate	Cost
H.P. Engineer	100	$50.90	$ 5090.00
Project Manager	100	$50.90	$ 5090.00
Clerical	100	$10.96	$2,192.00
H.P. Supervisor	200	$41.70	$ 4,170.00
		Total	$16,542.00

Total $123,077.00

Table 5.3
Cost for Surveying Non-contaminated Areas
(Table 3 of Appendix F, Reg. Guide 3.66)

3. Cost of griding /surveying non-contaminated areas.

Building	Area (ft^2)	Hours	Rate	Cost
17	66,000	600	$22.00	$13,200.00

4. Cost of Instrumentation support and supplies.

Building	Area (ft^2)	Hours	Rate	Cost
17	----	100	$31.90	$3,190.00
Supplies	----	-----	-----	$5,000.00

5. Cost for collecting and analyzing volumetric samples

Building	Area (ft^2)	Hours	Rate	Cost
17	-----	100	$50.90	$5,090.00
Grid layout		600	$22.00	$13,200.00
Collecting	----	150	$22.00	$3,300.00
Analyses (100 @ $60 each)	----	----	----	$6,000.00

Total $ 43,980.00

Table 5.4-A
Cost for Decon/Dismantle of Radiological Areas
(Table 3 of Appendix F, Reg. Guide 3.66)

Building	Area (ft^2)[b]	Hours	Rate	Cost
Building 17 (Control Zones)				
- Decon/Dismantle[a] equipment	10,420	606	$21.97	$13,313.82
- Ventilation (Removal)	500(ft)	250	$35.00	$8.750.00
- Supplies	-----	-----	-----	$20,000.00
- Survey/H.P. Coverage **	26,400	970	$24.85	$24,104.50
- H.P. Support**	26,400	144	$50.90	$7,329.60
- Craft		-----	$35.00	$10,640.00
			Total	$84,137.92

[a] Indicates hoods, benches, walls, ceiling, etc.
[b] Indicates walls, and floor only
** Indicates floor and walls only

Table 5.4 - B
Cost for Decon/ Dismantle of Radiological Area
(Table 3 of Appendix F, Reg. Guide 3.66)

Building	Area (ft^2)	Hours	Rate	Cost
Building 17 (Dismantle Structure)				
- Decon/Dismantle [a]	38,400	3,200	$21.97	$70,340.00
- Supplies	------	-------	--------	$20,000.00
- Survey/H.P. Coverage	38,400	800	$24.85	$19,880.00
- H.P. Support	38,400	400	$50.90	$20,360.00
- Craft	38,400	800	$35.00	$28,000.00
			Total	$158,580.00

[a] Indicates: Floor, Walls, and Roof

Table 5.5
Equipment and Supplies
(Table 4 of Appendix F, Reg. Guide 3.66)

Cost of equipment and supplies have been included in Table 5.3 "Cost for Surveying Non-contaminated Areas" and 5.4 "Cost for Decon/Dismantle of Radiological Areas" of this DFP. The types, quantity, and cost will depend on the work performed. Within the DFP, a total of $45,000.00 has been included to cover the cost of equipment and supplies (e.g., smears, rags, HEPA units, strippable paint, soil removal/rigging equipment, etc.).

Table 5.6
Packaging, Shipping and Disposal of Radioactive Wastes
(Table 5, 6, and 7 of Appendix F, Reg. Guide 3.66)

Building	Waste Type[a]	Volume (ft^3)	Cost [b]
Disposal of Radioactive Wastes			
Building 17 - Control Zones	Solid	600	$240,000
Building 17 - Structure**	Solid	3,500	$350,000
Building 17 - Underground Piping	Solid	300	$30,000
		Total	$620,000.00

[a] Indicates wood, metal, wallboard, concrete, floor tiles, etc.
[b] Cost based upon average of $400/$ft^3$ of byproduct waste and $100/$ft^3$ of uranium bearing waste.
** Includes all of the roof and portions of the main structure

Table 5.7
Restoration of Contaminated Areas on Facility Ground
(Table 8 of Appendix F, Reg. Guide 3.66)

The estimates of the preceding tables include costs for remediating the facilities to release for unrestricted use. Therefore, necessary costs are included and additional costs for restoration are not applicable.

Table 5.8
Final Radiation Survey
(Table 9 of Appendix F, Reg. Guide 3.66)

A total of 3,170 man-hours have been estimated in this DFP for surveying which includes the final radiation survey. Also, 544 man-hours have been included in the estimates for supervision support of the final radiation survey. See Tables 5.3 "Cost for Surveying Non-contaminated Areas" and 5.4 "Cost for Decon/Dismantle of Radiological Areas."

Table 5.9
Site Stabilization, Long-term Surveillance
(Table 10 of Appendix F, Reg. Guide 3.66)

The estimates of the preceding tables include costs for remediating the facilities to release for unrestricted use. Therefore, additional costs for site stabilization or long term surveillance are not applicable.

6.0 FINANCIAL ASSURANCE METHOD

A. Standby Trust Agreement

10 CFR 30.25(e) and 10 CFR 70.25(e) require that a description of the method of assuring funds for decommissioning be contained in each decommissioning funding plan. In References (6 &7), CE submitted to the NRC the previous financial assurance for decommissioning associated with License No. 06-00217-06 An executed Standby Trust Agreement was included in that submittal. Combustion Engineering continues to use the surety method permitted by 10 CFR 30.25(f)(2) and 10 CFR 70.25(f)(2); the Standby Trust Agreement of References(6 & 7) continues to be valid.

B. Surety Bond

The attachment to this Decommissioning Funding Plan provides an appropriately executed rider to the existing surety bond, as submitted to the NRC by Reference (6), This amount is based on and consistent with the cost estimates for decommissioning summarized in Table 4.2 and detailed in Section 5.0 herein and in Part 1.

C. Cost Estimate and Funding Adjustments

The estimated decommissioning costs are based on 1995 dollars. 10 CFR 70.25(e) and 10 CFR 30.35(e) require that decommissioning cost estimates and associated funding levels be adjusted "periodically over the life of the facility." CE will adjust the DFP upon the next license renewal.

7.0 REFERENCES

1. USNRC Regulatory Guide 1.86, "Termination of Operating Licenses for Nuclear Reactors", June 1974

2. "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of License for Byproduct, Source, or Special Nuclear Material", USNRC, Division of Industrial and Medical Nuclear Safety, April 1993

3. NRC Branch Technical Position: "Disposal or On-Site Storage of Residual Thorium or Uranium (NRC, 1981, 46FR52061)

4. "Standard Format and Content Guide for Financial Assurance Mechanisms Required for Decommissioning Under 10 CFR Parts 30, 40, 70, and 72", USNRC, NUREG-1336, Rev. 1 (August 1989)

5. "Standard Format and Content of Financial Assurance Mechanisms Required for Decommissioning Under 10 CFR Parts 30, 40, 70, and 72", USNRC, Regulatory Guide 3.66 (Task DG-3002), (June 1990)

6. CE (J. F. Conant) letter to NRC (L. H. Bettenhausen), LD-90-049, dated July 19, 1990, "Financial Assurance for Decommissioning"

7. Decommissioning Funding Plan Part 1 of License 06-00217-06.

ATTACHMENT I

RIDER TO SURETY BOND FOR BUILDING 17

CHUBB

CHUBB GROUP OF INSURANCE COMPANIES

[illegible] William Street [illegible]

FEDERAL INSURANCE COMPANY

RIDER to be attached to and form a part of Bond No. 8126-69-74 wherein FEDERAL INSURANCE COMPANY is named Surety, on behalf of COMBUSTION ENGINEERING, INC. as Principal, in favor of U.S. NUCLEAR REGULATORY COMMISSION as Obligee, in the sum of $750,000.00 dated May 24, 1990, effective May 24, 1990

IT IS HEREBY UNDERSTOOD AND AGREED that effective the 12th day of June, 1992 the penalty of this bond is INCREASED

FROM: Seven Hundred and Fifty Thousand and 00/100----------
----------Dollars ($750,000.00)

TO: Two Million and 00/100----------Dollars ($2,000,000.00)
as to losses occurring after said effective date.

Provided, however, that the liability of the Principal and Surety hereon shall not be cumulative or in any event exceed the revised bond amount referred to herein.

It is hereby stipulated and agreed that effective June 12, 1992 said bond is hereby amended as follows:

That the BOND NUMBER of said bond be changed from **8126-69-74** to **8126-79-74.**

The attached bond shall be subject to all its agreements, limitations and conditions except as herein expressly modified.

Signed, sealed and dated this 12th day of June, 1992.

COMBUSTION ENGINEERING, INC.

BY: _____
J.F. McCarthy, Treasurer

FEDERAL INSURANCE COMPANY

BY: _____
David B. Norris, Jr.,
Attorney-in-fact

POWER OF ATTORNEY

Know all Men by these Presents, That the FEDERAL INSURANCE COMPANY, 15 Mountain View Road, Warren, New Jersey, an Indiana Corporation as constituted and appointed, and does hereby constitute and appoint David B. Norris, Jr., Richard G. Hight, Greg Kuruvilla, Edward J. Reilly, Tammy B. Noren, Barton S. Pitts, Anna Maria Lovecchio, Maria Scardigno, Helen Brown and Earnestine Porter of New York, New York----------

[redacted] true and lawful Attorney-in-Fact to execute under such designation in its name and to affix its corporate seal to and deliver for and on its behalf as surety thereon or otherwise, bonds or obligations (other than Bail Bonds) given or executed in the course of its business, and any instruments amending or altering the same, and consents to the modification or alteration of any instruments referred to in said bonds or obligations.

In Witness Whereof, the said FEDERAL INSURANCE COMPANY has, pursuant to its By-Laws, caused these presents to be signed by its Vice President and Assistant Secretary and its corporate seal to be hereto affixed this 21st day of February 19 92

Corporate Seal

FEDERAL INSURANCE COMPANY
By

Richard D. O'Connor
Assistant Secretary

James D. Dixon
Vice President

STATE OF NEW JERSEY
County of Somerset } ss.

[redacted]

On this 21st day of February 19 92, before me personally came Richard D. O'Connor to me known and by me known to be Assistant Secretary of the FEDERAL INSURANCE COMPANY, the corporation described in and which executed the foregoing Power of Attorney, and the said Richard D. O'Connor being by me duly sworn, did depose and say that he is Assistant Secretary of the FEDERAL INSURANCE COMPANY and knows the corporate seal thereof; that the seal affixed to the foregoing Power of Attorney is such corporate seal and was thereto affixed by authority of the By-Laws of said Company, and that he signed said Power of Attorney as Assistant Secretary of said Company by like authority; and that he is acquainted with James D. Dixon and knows him to be the Vice President of said Company, and that the signature of said James D. Dixon subscribed to said Power of Attorney is in the genuine handwriting of said James D. Dixon and was thereto subscribed by authority of said By-Laws and in deponent's presence.

Notarial Seal

Janet A. Scarrone
JANET A. SCARRONE Notary Public
Notary Public, State of New Jersey
No. 2[illegible]20
Commission Expires October 2, 1994

Acknowledged and Sworn to before me
on the date above written

NOTARIAL ACKNOWLEDGEMENT

CITY, COUNTY & STATE OF NEW YORK, ss

On the 12 day of June 19 92 before me personally came David B. Norris, Jr.

to me known, who, being by me duly sworn, did depose and say that he is an Attorney-in-Fact of the FEDERAL INSURANCE COMPANY, the Corporation described in and which executed the annexed instrument; that he knows the corporate seal; that it was so affixed by order and authority of the Board of Directors of said corporation, and that he signed his name thereto by like order and authority.

HELEN S. BROWN
NOTARY PUBLIC, State of New York
No. 31-4682129
Qualified in New York County
Commission Expires December 31, 1992

Sworn to and Acknowledged
before me on the date above written

Helen S. Brown
(Notary's Signature, Description and Seal)

TE OF NEW JERSEY
unty of Somerset } ss.

the undersigned, Assistant Secretary of the FEDERAL INSURANCE COMPANY, do hereby certify that the following is a true excerpt from the By-Laws of the said Company as adopted by its Board of Directors March 2, 1990 and that this By-Law is in full force and effect

ARTICLE XVIII

Section 2. All bonds, undertakings, contracts and other instruments other than as above for and on behalf of the Company which it is authorized by law or its charter to execute may and shall be executed in the name and on behalf of the Company either by the Chairman or the Vice Chairman or the President or a Vice President, jointly with the Secretary or an Assistant Secretary under their respective designations, except that any one or more officers or attorneys-in-fact designated in any resolution of the Board of Directors or the Executive Committee or in any power of attorney executed as provided for in Section 3 below may execute any such bond, undertaking or other obligation as provided in such resolution or power of attorney

Section 3. All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company either by the Chairman or the Vice Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, Vice Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

further certify that said FEDERAL INSURANCE COMPANY is duly licensed to transact fidelity and surety business in each of the States of the United States of America, District of Columbia, Puerto Rico, and of the Provinces of Canada, with the exception of Prince Edward Island, and is also duly licensed to become sole surety on bonds, undertakings, etc., permitted or required by law

he undersigned Assistant Secretary of FEDERAL INSURANCE COMPANY, do hereby certify that the foregoing Power of Attorney is in full force and effect

ven under my hand and the seal of said Company at Warren, N.J., this 12 day of June 19 92

orate Seal

FEDERAL INSURANCE COMPANY INDIANA

Assistant Secretary

Financial Statement of Federal Insurance Company as of December 31, 1990
IN THOUSANDS OF DOLLARS
STATUTORY BASIS

ASSETS

Short Term Investments	$ 186,734	
United States Treasury Bonds	315,035	
United States Government and Federal Agency Guaranteed Bonds	276,270	
State and Municipal Bonds	2,177,474	
Other Bonds	414,420	
Common Stocks	209,554	
Other Invested Assets	87,099	
TOTAL INVESTMENTS	3,666,586	
Investments in Affiliates:		
Vigilant Insurance Company	200,591	
Great Northern Insurance Company	68,809	
Pacific Indemnity Company	321,258	
Bellemeade Development Corporation	376,501	
C.C. Canada Holdings Ltd	68,062	
Other Affiliates	47,482	
Cash	12,963	
Net Premiums Receivable	402,322	
Other Assets	235,476	
TOTAL ADMITTED ASSETS	$ 5,400,050	

LIABILITIES AND SURPLUS TO POLICYHOLDERS

Outstanding Losses and Loss Expenses	$ 2,935,643	
Unearned Premiums	871,957	
Accrued Expenses	80,181	
Non-Admitted Reinsurance	30,185	
Dividends to Policyholders	24,746	
Loss Portfolio Transfer	(145,626)	
Other Liabilities	198,332	
TOTAL LIABILITIES		3,995,418
Capital Stock		13,987
Paid-in Surplus		472,986
Unassigned Funds		591,747
Unrealized Appreciation of Investments		325,912
SURPLUS TO POLICYHOLDERS		1,404,632
TOTAL LIABILITIES AND SURPLUS TO POLICYHOLDERS		$ 5,400,050

Investments are valued in accordance with requirements of the National Association of Insurance Commissioners.
Investments valued at $13,173 are deposited with government authorities as required by law.

NRC FORM 577 (1-95)

U.S. NUCLEAR REGULATORY COMMISSION

LICENSE FEE REQUIREMENTS

LICENSE FEE AND DEBT COLLECTION BRANCH
DIVISION OF ACCOUNTING AND FINANCE
OFFICE OF THE CONTROLLER
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

ABB COMBUSTION ENGINEERING, INC.
ATTN: DESE A. CIRELLI, DIRECTOR
FINANCE & FACILITIES ADMINISTRATION
CENO, FIELD SERVICES
1000 PROSPECT HILL ROAD
POST OFFICE BOX 500
WINDSOR, CT 06095-0500

TYPE OF ACTION

- ☐ NEW LICENSE
- ☐ RENEWAL OF LICENSE
- ☒ AMENDMENT TO LICENSE

REQUESTED DATE: 4-23-96

LICENSE NUMBER: 06-00217-06

CONTROL NUMBER: 123132

I. APPLICATION FEE DUE

Your request for a licensing action is subject to the fee(s) in the category(ies) noted below in accordance with Section 170.31 of the enclosed Federal Register notice. Payment of the fee is required prior to the issuance of the license, renewal, or amendment.

FEE CATEGORY	APPLICATION	RENEWAL	AMENDMENT
3L	$	$	$ 640.00
	$	$	$
	$	$	$
	$	$	$
	$	$	$
	$	$	$
	$	$	$
	$	$	$
	$	$	$
	$	$	$

FEE(s) DUE	$ 640.00
PAYMENT RECEIVED	$ 630.00
AMOUNT DUE	$ 10.00

☒ Your request was received without the prescribed application fee.

☒ We received your Check No. 54374 in the amount of $ 630.00. Payment of the additional fee noted above is required.

☐ Your request will increase the scope of your license program. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(d)(2).

☐ Your license expired prior to the receipt of your application for renewal. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(a).

MAKE PAYMENT OF THE FEE(S) TO THE U.S. NUCLEAR REGULATORY COMMISSION AND MAIL THE PAYMENT TO THE ADDRESS LISTED AT THE TOP OF THIS FORM. IF WE DO NOT RECEIVE A REPLY FROM YOU WITHIN 30 CALENDAR DAYS FROM THE DATE LISTED BELOW, WE SHALL ASSUME THAT YOU DO NOT WISH TO PURSUE YOUR APPLICATION AND WILL VOID THIS ACTION.

II. FEE NOT REQUIRED

☐ Enclosed is Check No. _____ which accompanied your request. The fee is not required because:

- ☐ We received your Check No. _____ in payment of the fee.
- ☐ The Licensing staff has informed us that your request is to be considered as a continuation of your request dated _____, Control No. _____.
- ☐ Your request was combined, prior to review, with your request, Control No. _____.

III. CHECK RETURNED

☐ Enclosed is Check No. _____ which was returned to us by the bank for:

- ☐ INSUFFICIENT FUNDS
- ☐ ACCOUNT CLOSED
- ☐ OTHER

MAIL THE REPLACEMENT CHECK TO THE ADDRESS LISTED AT THE TOP OF THIS FORM AND REFERENCE THE ABOVE CONTROL NUMBER.

IV. LICENSE ISSUED WITHOUT THE REQUIRED FEE

☐ License No. _____, Amendment No. _____, issued on _____ was issued without the required fee being collected. The fee required is noted in Section I of this form.

☐ The scope of your licensed program was increased. Therefore, your request is subject to the application fee(s) noted in Section 1 of this form. Refer to Section 170.31 and Footnote 1(d)(2).

☐ Because of the urgency of your request, the license was issued without remittance of the prescribed fee noted in Section 1 of this form.

SIGNATURE -- LICENSE FEE ANALYST	LFDCB	LFDCB
BRENDA BROWN	BB BB 5/6/96	

Distribution: Pending File
MAF Correspondence FY
LFDCB Chief
LFDCB Analyst
Invoice File w/encl
LFDCB R/F (2)
DAF R/F
OC/DAF/SF (LF-3.2.7)

DATE: 5-6-96

WEEN:

ENSE FEE MANAGEMENT BRANCH, ARM
AND
IONAL LICENSING SECTIONS

(FOR LFMS USE)
INFORMATION FROM LTS

PROGRAM CODE: 03610
STATUS CODE: 0
FEE CATEGORY: 3L 3N 3P 1D 2C
EXP. DATE: 20010228
FEE COMMENTS: 2C ADDED 2/25/96 SER&
DECOM FIN ASSUR REQD: Y

ENSE FEE TRANSMITTAL

REGION I

APPLICATION ATTACHED
APPLICANT/LICENSEE: ABB COMBUSTION ENGINEERING INC.
RECEIVED DATE: 960425
DOCKET NO: 3003754
CONTROL NO.: 123132
LICENSE NO.: 06-00217-06
ACTION TYPE: AMENDMENT

FEE ATTACHED
AMOUNT: $630.00
CHECK NO.: 54374

COMMENTS

SIGNED M. A. Perkins
DATE 4/28/96

LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED / \ /)

FEE CATEGORY AND AMOUNT: 3L 3N 3P 1D 2C $630

CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:
AMENDMENT
RENEWAL
LICENSE

OTHER

SIGNED Brenda Byrum
DATE 6/7/96

Log Dec 4 (96)
Payment
Check No. 054374 0000603250
Amount $630 FLO
Fee Category 3L 3N 3P 1D 2C
Type of Fee AMD
Date Check Rec'd 5/6/96
Date Completed 6/7/96
By: BByrum

1996 MAY -6 AM 7:44