CONNECTICUT YANKEE ATOMIC POWER COMPANY

HADDAM NECK PLAN♥
362 INJUN HOLLOW ROAD • EAST HAMPTON, CT 06424-3099

January 26, 1998

Docket No. 50-213 CY-98-005

Re: 10CFR50.71(e)

U. S. Nuclear Regulatory Commission Attention: Document Control Desk Washington, DC 20555

Haddam Neck Plant Decommissioning Updated Final Safety Analysis Report

The purpose of this letter is for Connecticut Yankee Atomic Power Company (CYAPCO) to provide the initial publication of the Decommissioning Updated Final Safety Analysis Report (UFSAR). This document is provided in Attachment 1 and is a complete revision of the Haddam Neck Plant (HNP) UFSAR.

Revision 10 has been prepared to resolve previously identified discrepancies and to reflect changes that have occurred since the previous submittal⁽¹⁾ as a result of the defueled status of the Haddam Neck Plant. In a letter dated December 5, 1996,⁽²⁾ CYAPCO informed the NRC that the Board of Directors of CYAPCO had decided to permanently cease operations at the HNP and that the fuel had been permanently removed from the reactor. Since that time, many of the systems and components have been recategorized to reflect the permanently defueled status. The recategorization effort is ongoing and coincides with decommissioning needs. In addition, the design basis accidents were revised and updated to reflect the permanently defueled status.

Pursuant to 10CFR50.71(e)(2)(i), I certify that this revision accurately presents changes completed since our previous submittal that are necessary to reflect information and analyses associated with changing the plant from power operations to the current

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⁽¹⁾ CYAPCO Letter B15762, from T. C. Feigenbaum, to the U. S. Nuclear Regulatory Commission, "Revision 9 to the Updated Final Safety Analysis Report," dated July 1, 1996.

⁽²⁾ CYAPCO Letter B16066, from T. C. Feigenbaum, to the U. S. Nuclear Regulatory Commission, "Certifications Of Permanent Cessation Of Power Operation And That Fuel Has Been Removed From The Reactor," dated December 5, 1996.

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defueled condition. As the plant continues to recategorize structures, systems, and components, the UFSAR will be updated in accordance with 10CFR50.71(e)(4).

Pursuant to 10CFR50.71(e) and 10CFR50.4(b)(6), this transmittal consists of one original and ten copies. As stipulated in 10CFR50.71(e)(2)(ii): "This submittal shall include an identification of changes made under the provisions of Section 50.59, but not previously submitted to the Commission." Pursuant to Section 50.59(b) and Technical Specification Section 6.9.1.4, such information is routinely submitted to the NRC as part of our annual reports, and is not included in this submittal. The most recent annual report was submitted on February 28, 1997, (1) for the period January 1, 1996, through December 31, 1996.

If the NRC should have any questions, please contact Mr. G. P. van Noordennen at (860) 267-3938.

Very truly yours.

CONNECTICUT YANKEE ATOMIC POWER COMPANY

Russell A Mellor

Vice President - Operations and Decommissioning

Subscribed and sworn to before me this 26 th day of January, 1998

Gerard P. van Noordenen

Date Commission Expires: 12/31/2002

Attachment

cc: H. J. Miller, NRC Region I Administrator

T. L. Fredrichs, NRC Project Manager, Haddam Neck Plant

W. J. Raymond, NRC Senior Resident Inspector, Haddam Neck Plant

D. Galloway, Acting Director, CT DEP Monitoring and Radiation Division

⁽³⁾ CYAPCO Letter B16240, from J. J. LaPlatney to the U. S. Nuclear Regulatory Commission, "Annual Reports," dated February 28, 1997.

CONNECTICUT YANKEE ATOMIC POWER COMPANY

HADDAM NECK PLANT 362 INJUN HOLLOW ROAD • EAST HAMPTON, CT 06424-3039

January 26, 1998

NL/CY-98-011

To:

HNP UFSAR Controlled Copyholders

From:

S. J. Sarver A Masser

Nuclear Licensing Extension 3936

Sub t

Distribution of Change No. 30 to the Haddam Neck Plant (HNP)

Updated Final Safety Analysis Report (UFSAR)

Attached, please find the subject change, dated January 26,1998, to the Haddam Neck Plant UFSAR. This change is a total rewrite of the HNP UFSAR that replaces the existing copy in its entirety. The old UFSAR, through change 29, should be returned to HNP Licensing.

Nuclear Document Services (NDS) will send you a form acknowledging that you have received this change to your controlled copy of the UFSAR and have turned in the old UFSAR. Please complete the form and return it to NDS.

SJS/jmc

ATTACHMENT

CC:

(w/o attachments)

R. B. Lundin

G. P. van Noordennen

Nuclear Records NL Memo File

RECORD OF CHANGES

Change No.	Date Received	Date Entered	Initials	Remarks
30				Remarks Total Rewrite issued 1/98
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Figure Number	Title	Drawing Number	Sheets
1.2-1	Legend	16103 - 26000	4-6
10.2-1	Hydrogen Gas System	16103 - 26055	2
10.3-1	Main Steam System	16103 - 26012	1-11
10.3-2	Hydrazine Feed and ETA System	16103 - 26068	1
10.4-1	Circulating Water and Vacuum Priming System	16103 - 26017	1
10.4-2	Arrangement Screenwell - Sh. 1	16103 - 27058	1
10.4-3	Arrangement Screenwell - Sh. 2	16103 - 27058	2
10.4-4	C.W. Discharge Canal	16103 - 10008	1
10.4-5	Feedwater and Condensate Systems	16103 - 26013	1-13
10.4-6	Feedwater and Condensate Sample System	16103 - 26016	1
11.2-1	Liquid Waste System	16103 - 26030	1-5
11.3-1	Gaseous Waste System	16103 - 26031	1-3
2.1-1	Location Map	N/A	N/A
2.1-2	Topographic Map	N/A	N/A
2.1-3	General Site Plan	N/A	N/A
2.1-4	Connecticut Yankee Site Plan	16103 - 10000	1
2.1-5	Restricted Area	N/A	N/A
2.1-6	Population Sectors Within 50 Miles	N/A	N/n
2.3-1	Meteorological Instrument and Data Quality Assurance Flow Diagram	N/A	N/A
2.4-1	Dam Failure Flood Hydrograph	N/A	N/A
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Figure Number	Title	Drawing Number	01
2.5-1		Drawing Number	Sheets
2.5-1	Borings and Seismic Survey Plan	16103 - 11004	1
2.5-2	Boring Record Sheet 1	16103 - 11003	1
2.5-3	Boring Record Sheet 2	16103 - 11003	2
2.5-4	Boring Record Sheet 3	16103 - 11003	3
3.7-1	Average Acceleration Spectrum for Use at Haddam, CT	N/A	N/A
3.7-2	Horizonta! Seismic Design- Response Spectra	N/A	N/A
3.7-3	Seismic Design Ground Spectrum Currently in Use	N/A	N/A
3.7-4	Free-Field Horizontal Acceleration Design Response Spectra		
3.7-5	Site Specific Spectrum	e Specific Spectrum N/A	
3.7-6	Modified Free-Field Horizontal Acceleration Time History	N/A	N/A
3.7-7	Comparison of the Response Spectrum of the Modified Free- Field Horizontal Acceleration Time History and the Design Response Spectrum With 5% Critical Damping	N/A	N/A
3.8-1	Arrangement-Primary Plant	16103 - 27002	1
3.8-10	Reactor Containment Piping Penetrations	16103 - 22027	2
3.8-2	Arrangement-Primary Plant	16103 - 27003	1
3.8-3	Arrangement-Primary Plant	16103 - 27004	1
3.8-4	Arrangement-Primary Plant	16103 - 27005	1

Figure Number	Title	Drawing Number	Sheets
3.8-5	Arrangement-Primary Plant	16103 - 27006	1
3.8-6	Arrangement-Primary Plant	16103 - 27007	1
3.8-7	Arrangement - Primary Auxiliary Building	16103 - 27042	1
3.8-8	Arrangement - Primary Auxiliary Building	16103 - 27042	2
3.8-9	General Arrangement - New & Spent Fuel Building	16103 - 27036	1
4.2-1	Fuel Rod Assembly	N/A	1-2
4.2-2	Bottom Nozzie	16103 - 29696	44
4.2-3	Top Nozzle Assembly	16103 - 29696	47
4.2-4	Thimble Assembly	N/A	N/A
4.2-5	Skeleton Structure	16103 - 29696	27
4.5-1	Control Rod Drive Mechanism Coil Stack	N/A	N/A
4.5-2	HJTC Probe Holder Support Tube	N/A	N/A
4.5-3	HJTC Probe Pressure Boundary Installation	N/A	N/A
4.5-4	Incore Instrumentation Arrangement	N/A	N/A
4.5-5	Connecticut Yankee Reactor General Assembly	16103 - 29305	1
5.1-1	Reactor Coolant System	16103 - 26007	1-3
5.1-2	Arrangement Primary Plant	16103 - 27002-27007	1-6
5.3-1	Reactor Vessel and Internals	N/A	N/A
5.4-1	Reactor Coolant Pump	N/A	N/A

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Figure Number	Title	Drawing Number	Shaata	
5.4-2	Steam Generator	N/A	Sheets N/A	
6.2-1	Containment Air Recirculation System	N/A	N/A	
6.3-1	Residual Heat Removal System	16103 - 26028	1	
6.3-2	Safety Injection System	16103 - 26010	1-2	
6.4-1	Control Room Plan Showing Air Conditioners and Ductwork	N/A	N/A	
8.1-1	Main One-Line Diagram	16103 - 30002	1	
8.2-1	Equipment Arrangement - 115kV Swyd.	16103 - 33004	1	
8.3-1	4160V One-Line Diagram - Bus 1A, 1B, 2, 3	16103 - 33003	1	
8.3-2	4160V One-Line Diagram - Emergency Bus 8 and 9	16103 - 30011	1	
8.3-3	Arrangement - Switchgear Room	16103 - 33002/27084	1-2	
8.3-4	Arrangement - New Diesel Generator Building	16103 - 27075	1	
8.3-5	Fuel Oil Supply to Diesel Generator and Auxiliary Steam Boiler	16103 - 26020	1	
8.3-6	Diesel Generator Systems - Compressed Air	16103 - 26020	2	
8.3-7	125V DC One-Line Diagram - Bus A, B and C Dist. Swbd. Swgr. Rm.	16103 - 30008	1-2	
9.1-1	Spent Fuel Pool Cooling System	16103 - 26049	1	
9.1-2	Spent Fuel Pool Decay Heat Loads	N/A	N/A	
9.2-1	Service Water System	16103 - 26014	1-9	

Figure Number	Title	Drawing Number	Sheets	
9.2-2	Component Cooling System	16103 - 26008	3-7	
9.2-3	Closed Cooling Water System	16103 - 26027	1-2	
9.2-4	Well Water and Water Treatment System	16103 - 26003	1-2	
9.2-5	Domestic Water System	16103 - 26067	1-6	
9.2-6	Turbine Building Waste Water Treatment System	16103 - 26047	1	
9.2-7	Nitrogen System	16103 - 26055	1	
9.2-8	Primary Water System	16103 - 26046	1-3	
9.3-1	Service Air System	16103 - 26051	1-4	
9.3-2	Control Air System	16103 - 26052	1-9	
9.3-3	Containment Control Air System	16103 - 26054	1	
9.3-4	Primary Sampling System	16103 - 26009	1-2	
9.3-5	Post Accident Sampling System	16103 - 26057	1	
9.3-6	Miscellancous Bottled Gas System	16103 - 26055	3	
9.3-7	Chemical and Volume Control System	16103 - 26018	1-6	
9.3-8	Boron Recovery System	16103 - 26004	1-4	
9.4-1	Primary Ventilation System	16103 - 26024	1-5	
9.4-2	Switchgear Building HVAC	16103 - 26063	1-2	
9.5-1	Fire Protection System	16103 - 26056	1-16	

Drawing Number	Sheets	Figure Number	Title
16103 - 10000	1	2.1-4	Connecticut Yankee Site Plan
16103 - 10008	1	10.4-4	C.V. Discharge Canal
16103 - 11003	1	2.5-2	Boring Record Sheet 1
16103 - 11003	2	2.5-3	Boring Record Sheet 2
16103 - 11003	3	2.5-4	Boring Record Sheet 3
16103 - 11004	1	2.5-1	Borings and Seismic Survey Plan
16103 - 22027	2	3.8-10	Reactor Containment Piping Penetrations
16103 - 26000	4-6	1.2-1	Legend
16103 - 26003	1-2	9.2-4	Well Water and Water Treatment System
16103 - 26004	1-4	9.3-8	Boron Recovery System
16103 - 26007	1-3	5.1-1	Reactor Coolant System
16103 - 26008	3-7	9.2-2	Component Cooling System
16103 - 26009	1-2	9.3-4	Primary Sampling System
16103 - 26010	1-2	6.3-2	Safety Injection System
16103 - 26012	1-11	10.3-1	Main Steam System
16103 - 26013	1-13	10.4-5	Feedwater and Condensate Systems
16103 - 26014	1-9	9.2-1	Service Water System
16103 - 26016	1	10.4-6	Feedwater and Condensate Sample System
16103 - 26017	1	10.4-1	Circulating Water and Vacuum Priming System

Drawing Number	Sheets	Figure Number	Title
16103 - 26018	1-6	9.3-7	Chemical and Volume Control System
16103 - 26020	1	8.3-5	Fuel Oil Supply to Diesel Generator and Auxiliary Steam Boiler
16103 - 26020	2	8.3-6	Diesel Generator Systems - Compressed Air
16103 - 26024	1-5	9.4-1	Primary Ventilation System
16103 - 26027	1-2	9.2-3	Closed Cooling Water System
16103 - 26028	1	6.3-1	Residual Heat Removal System
16103 - 26030	1-5	11.2-1	Liquid Waste System
16103 - 26031	1-3	11.3-1	Gaseous Waste System
16103 - 26046	1-3	9.2-8	Primary Water System
16103 - 26047	1	9.2-6	Turbine Building Waste Water Treatment System
16103 - 26049	1	9.1-1	Spent Fuel Pool Cooling System
16103 - 26051	1-4	9.3-1	Service Air System
16103 - 26052	1-9	9.3-2	Control Air System
16103 - 26054	1	9.3-3	Containment Control Air System
16103 - 26055	1	9.2-7	Nitrogen System
16103 - 26055	2	10.2-1	Hydrogen Gas System
16103 - 26055	3	9.3-6	Miscellaneous Bottled Gas System
16103 - 26056	1-16	9.5-1	Fire Protection System
16103 - 26057	1	9.3-5	Post Accident Sampling System
16103 - 26063	1-2	9.4-2	Switchgear Building HVAC

Drawing Number	Sheets	Figure Number	Title
16103 - 26067	1-6	9.2-5	Domestic Water System
16103 - 26068	1	10.3-2	Hydrazine Feed and ETA System
16103 - 27002	1	3.8-1	Arrangement-Primary Plant
16103 - 27002-27007	1-6	5.1-2	Arrangement Primary Plant
16103 - 27003	1	3.8-2	Arrangement-Primary Plant
16103 - 27004	1	3.8-3	Arrangement-Primary Plant
16103 - 27005	1	3.8-4	Arrangement-Primary Plant
16103 - 27006	1	3.8-5	Arrangement-Primary Plant
16103 - 27007	1	3.8-6	Arrangement-Primary Plant
16103 - 27036	1	3.8-9	General Arrangement - New & Spent Fuel Building
16103 - 27042	1	3.8-7	Arrangement - Primary Auxiliary Building
16103 - 27042	2	3.8-8	Arrangement - Primary Auxiliary Building
16103 - 27058	1	10.4-2	Arrangement Screenwell - Sh. 1
16103 - 27058	2	10.4-3	Arrangement Screenwell - Sh. 2
16103 - 27075	1	8.3-4	Arrangement - New Diesel Generator Building
16103 - 29305	1	4.5-5	Connecticut Yankee Reactor General Assembly
16103 - 29696		4.2-5	Skeleton Structure
16103 - 29696	44	4.2-2	Bottom Nozzie
16103 - 29696	47	4.2-3	Top Nozzle Assembly

Drawing Number	Sheets	Figure Number	Title
16103 - 30002	1	8.1-1	Main One-Line Diagram
16103 - 30008	1-2	8.3-7	125V DC One-Line Diagram - Bus A, B and C Dist. Swbd. Swgr. Rm.
16103 - 30011	1	8.3-2	4160V One-Line Diagram - Emergency Bus 8 and 9
16103 - 33002/27084	1-2	8.3-3	Arrangement - Switchgear Room
16103 - 33003	1	8.3-1	4160V One-Line Diagram - Bus 1A, 1B, 2, 3
16103 - 33004	1	8.2-1	Equipment Arrangement - 115kV Swyd.
N/A	1-2	4.2-1	Fuel Rod Assembly
N/A	N/A	2.1-1	Location Map
N/A	N/A	2.1-2	Topographic Map
N/A	N/A	2.1-3	General Site Plan
N/A	N/A	2.1-5	Restricted Area
N/A	N/A	2.1-6	Population Sectors Within 50 Miles
N/A	N/A	2.3-1	Meteorological Instrument and Data Quality Assurance Flow Diagram
N/A	N/A	2.4-1	Dam Failure Flood Hydrograph
N/A	N/A	3.7-1	Average Acceleration Spectrum for Use at Haddam, CT
N/A	N/A	3.7-2	Horizontal Seismic Design- Response Spectra
N/A	N/A	3.7-3	Seismic Design Ground Spectrum Currently in Use

Drawing Number	Sheets	Figure Number	Title
N/A	N/A	3.7-4	Free-Field Horizontal Acceleration Design Response Spectra
N/A	N/A	3.7-5	Site Specific Spectrum
N/A	N/A	3.7-6	Modified Free-Field Horizontal Acceleration Time History
N/A	N/A	3.7-7	Comparison of the Response Spectrum of the Modified Free-Field Horizontal Acceleration Time History and the Design Response Spectrum With 5% Critical Damping
N/A	N/A	4.2-4	Thimble Assembly
N/A	N/A	4.5-1	Control Rod Drive Mechanism Coil Stack
N/A	N/A	4.5-2	HJTC Probe Holder Support Tube
N/A	N/A	4.5-3	HJTC Probe Pressure Boundary Installation
N/A	N/A	4.5-4	Incore Instrumentation Arrangement
N/A	N/A	5.3-1	Reactor Vessel and Internals
N/A	N/A	5.4-1	Reactor Coolant Pump
N/A	N/A	5.4-2	Steam Generator
N/A	N/A	6.2-1	Containment Air Recirculation System
N/A	N/A	6.4-1	Control Room Plan Showing Air Conditioners and Ductwork
N/A	N/A	9.1-2	Spent Fuel Pool Decay Heat Loads

Section	Title
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1.1 1.2 1.3 1.4 1.5 1.6 1.7	INTRODUCTION GENERAL PLANT DESCRIPTION COMPARISON TABLES IDENTIFICATION OF AGENTS AND CONTRACTORS REQUIREMENTS FOR FURTHER TECHNICAL INFORMATION MATERIAL INCORPORATED BY REFERENCE DRAWINGS AND OTHER DETAILED INFORMATION CONFORMANCE TO NRC REGULATORY GUIDES
2.0	SITE CHARACTERISTICS
2.1 2.2 2.3 2.4 2.5	GEOGRAPHY AND DEMOGRAPHY NEARBY INDUSTRIAL, TRAN. 3PORTATION, AND MILITARY FACILITIES METEOROLOGY HYDROLOGIC ENGINEERING GEOLOGY, SEISMOLOGY, AND GEOTECHNICAL ENGINEERING
3.0	DESIGN OF STRUCTURES, COMPONENTS, EQUIPMENT AND SYSTEMS
3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 3.10	CONFORMANCE WITH NRC GENERAL DESIGN CRITERIA CLASSIFICATION OF STRUCTURES, COMPONENTS, AND SYSTEMS WIND AND TORNADO LOADINGS WATER LEVEL DESIGN MISSILE PROTECTION PROTECTION AGAINST DYNAMIC EFFECTS ASSOCIATED WITH THE POSTULATED RUPTURE OF PIPING SEISMIC DESIGN DESIGN OF CLASS I AND CLASS II STRUCTURES MECHANICAL SYSTEM AND COMPONENTS SEISMIC QUALIFICATION OF SEISMIC CATEGORY I INSTRUMENTATION AND ELECTRIC EQUIPMENT ENVIRONMENTAL DESIGN OF MECHANICAL AND ELECTRICAL EQUIPMENT
4.0	REACTOR
4.1 4.2 4.3 4.4 4.5 4.6	SUMMARY DESCRIPTION FUEL SYSTEM DESIGN NUCLEAR DESIGN THERMAL AND HYDRAULIC DESIGN REACTOR MATERIALS FUNCTIONAL DESIGN OF REACTIVITY CONTROL SYSTEMS

Section	Title
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5.1 5.2 5.3 5.4	SUMMARY DESCRIPTION INTEGRITY OF REACTOR COOLANT PRESSURE BOUNDARY REACTOR VESSEL COMPONENT AND SUBSYSTEM DESIGN
	VOLUME 2
6.0	ENGINEERED SAFETY FEATURES
6.1 6.2 6.3 6.4 6.5 6.6	ENGINEERED SAFETY FEATURE MATERIALS CONTAINMENT SYSTEM EMERGENCY CORE COOLING SYSTEM HABITABILITY SYSTEMS FISSION PRODUCT REMOVAL AND CONTROL SYSTEMS IN-SERVICE INSPECTION OF CLASS 2 AND 3 COMPONENTS
7.0	INSTRUMENTATION AND CONTROLS
7.1 7.2 7.3 7.4 7.5 7.6 7.7	INTRODUCTION REACTOR TRIP SYSTEM ENGINEERED SAFETY FEATURE SYSTEMS SYSTEMS REQUIRED FOR SAFE SHUTDOWN SAFETY-RELATED DISPLAY INSTRUMENTATION ALL OTHER INSTRUMENTATION SYSTEMS REQUIRED FOR SAFETY CONTROL SYSTEMS NOT REQUIRED FOR SAFETY
8.0	ELECTRIC POWER
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9.0	AUXILIARY SYSTEMS
9.1 9.2 9.3 9.4 9.5	FUEL STORAGE AND HANDLING WATER SYSTEMS PROCESS AUXILIARIES AIR CONDITIONING, HEATING, COOLING AND VENTILATION STORMS OTHER AUXILIARY SYSTEMS

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10.0	STEAM AND POWER CONVERSION SYSTEM
10.1 10.2 10.3 10.4	SUMMARY DESCRIPTION TURBINE-GENERATOR SYSTEM MAIN STEAM SYSTEM OTHER FEATURES OF THE STEAM AND POWER CONVERSION SYSTEM
11.0	RADIOACTIVE WASTE MANAGEMENT
11.1 11.2 11.3 11.4 11.5	SOURCE TERMS LIQUID WASTE MANAGEMENT SYSTEMS GASEOUS WASTE MANAGEMENT SYSTEM SOLID WASTE MANAGEMENT SYSTEM PROCESS AND EFFLUENT RADIOLOGICAL MONITORING
12.0	RADIATION PROTECTION
12.1	ENSURING THAT OCCUPATIONAL RADIATION EXPOSURES ARE AS LOW AS IS REASONABLY ACHIEVABLE (ALARA)
12.2	RADIATION SOURCES
12.3	RADIATION PROTECTIC N DESIGN FEATURES
12.4	DOSE ASSESSMENT
12.5	HEALTH PHYSICS PROGRAM
13.0	CONDUCT OF OPERATIONS
13.1	ORGANIZATIONAL STRUCTURE
13.2	TRAINING PROGRAMS
13.3	EMERGENCY PLANNING
13.4	REVIEW AND AUDIT
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13.6	PHYSICAL SECURITY PLANS
14.0	INITIAL TEST PROGRAM
15.0	ACCIDENT ANALYSES
15.1	SUMMARY
15.2	NON-LOCA TRANSIENT ANALYSES
15.3	LOSS OF COOLANT ACCIDENT TRANSIENT ANALYSES
15.4	ANTICIPATED TRANSIENTS WITHOUT SCRAM
15.5	RADIOACTIVE RELEASE FROM A SUBSYSTEM OR COMPONENT

Section	<u>Title</u>	
1€.0	TECHNICAL SPECIFICATIONS	
17.0 17.1	QUALITY ASSURANCE CONNECTICUT YANKEE QUALITY ASSURANCE PROGRAM	

Connecticut Yankee



DECOMMISSIONING UPDATED FINAL SAFETY ANALYSIS REPORT