



March 23, 1993
LD-93-052

Docket No. 52-002

Attn: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: System 80+™ Quality Assurance Program

Dear Sirs:

Enclosed with this letter are minor revisions to Draft Safety Evaluation Report responses which were requested by the NRC/RPEB reviewer. Also enclosed are revisions to CESSAR-DC, including a revision of Table 3.2-1 to show the graded quality classifications for System 80+ structures, systems, and components.

If you have any questions, please call me or Mr. Stan Ritterbusch at (203) 285-5206.

Very truly yours,

COMBUSTION ENGINEERING, INC.

C. B. Brinkman
Acting Director
Nuclear Systems Licensing

CBB/ser

cc: J. Trotter (EPRI)
T. Wambach (NRC)
P. Lang (DOE)

290102

ABB Combustion Engineering Nuclear Power

9303290284 930323
PDR ADOCK 05200002
A PDR

Combustion Engineering, Inc.

1000 Prospect Hill Road
Post Office Box 500
Windsor, Connecticut 06095-0500

Telephone (203) 686-1911
Fax (203) 285-9512
Telex 99297 COMBEN WSOR

OPEN ITEM 17.1.3-2

The applicant should revise CESSAR Table 1.8-1 to reference NQA-2 vice ANSI standards referenced in RGs 1.30, 1.37, 1.38, 1.39, 1.94 and 1.116.

RESPONSE 17.1.3-2 (Rev. 1)

A note has been added to Table 1.8-1 for RG 1.37, 1.38, 1.94, 1.116 that says "The QA Program description for System 80+ (CENPD-210-A) commits to NQA-2". RGs 1.30, 1.39 are noted as having been replaced or not applicable. The marked up sheets are attached.

*Superseded by RG 1.28 Rev 3
as part of RAI 17.1.3-1.*

TABLE 1.8-1 (Cont'd)

(Sheet 5 of 20)

REGULATORY GUIDES

<u>Document/Title GDC References</u>	<u>Original or Revision Issue Date</u>	<u>Reference CESSAR Section</u>	
Reg. Guide 1.37 - Quality Assurance Requirements for Cleaning of Fluid Systems and Associated Components of Water-Cooled Nuclear Power Plants	3/73	5.2.3.4.1.2.1, 10.3.6.2 (Note A)	A
Reg. Guide 1.38 - Quality Assurance Requirements for Packaging, Shipping, Receiving, Storage, and Handling of Items for Water Cooled Nuclear Power Plants	Revision 2 5/77	17 (Note A)	E
Reg. Guide 1.39 - Housekeeping Requirements for Water Cooled Nuclear Power Plants		(NOTE A) Not applicable	I
Reg. Guide 1.40 - Qualification Tests of Continuous - Duty Motors Installed Inside of Containment of Water Cooled Nuclear Power Plants	3/73	3.11	
Reg. Guide 1.41 - Preoperational Testing of Redundant On-site Electric Power Systems to Verify Proper Load Group Assignments	3/73	8.1.4.2, 14	E
Reg. Guide 1.42 - Interim Licensing Policy on as Low as Practicable for Gaseous Radioiodine Releases from Light Water-Cooled Nuclear Power Reactors	Withdrawn		B

TABLE 1.8-1 (Cont'd)

(Sheet 20 of 20)

REGULATORY GUIDES

<u>Document/Title GDC References</u>	<u>Original or Revision Issue Date</u>	<u>Reference CESSAR Section</u>	
Reg. Guide 8.12 - Criticality Accident Alarm Systems	Revision 2 10/88	7.1.2.34, 7.7.1.1.10	E
Reg. Guide 8.19 - Occupational Radiation Dose Assessment in Light-Water Reactor Plants-Design Stage Man-Rem Estimates	Revision 1 6/79	12	J E

Note A: CENPD-210-A is committed to NQA -2

TABLE 3.2-1 (Cont'd)

(Sheet 4 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

Component Identification	Safety Class	Seismic Category	Location	Quality Assurance Requirement (27)
Piping (28)	1/2/3/NWS	1/NS	SSCV/NA/YD	Q/N
Valves (28)	1/2/3/NWS	1/NS	SSCV/NA/YD	Q/N
Emergency Feedwater System				
Cavitating Venturi	2	1	SSCV	Q
Motor-Driven Emergency Feedwater Pumps	3	1	RXB	Q
Steam-Driven Emergency Feedwater Pumps	3	1	RXB	Q
Emergency Feedwater Pump Turbines	3	1	RA	Q
Emergency Feedwater Storage Tanks	3	1	NA	Q
Piping (28)	2/3	1	RXB/SSCV/NA	Q
Valves (28)	2/3	1	RXB/SSCV/NA	Q
Fuel Handling System				
Spent Fuel Pool	--	1	NA	Q
Refueling Machine	NWS	11	SSCV	N
Fuel Transfer System	NWS	11	SSCV/NA	N
1. Transfer Carriage	NWS	11	SSCV/NA	N
2. Upending Machine	NWS	11	SSCV/NA	N
3. Hydraulic Power Unit	NWS	11	SSCV/NA	N
Fuel Transfer Tube, Valve, Stand	NWS	11	SSCV/NA	N
CEA Change Platform	NWS	11	SSCV	N
Long and Short Fuel Handling Tools	NWS	NS	SSCV	N
Upper Guide Structure Lifting Rig	NWS	11 (11)	SSCV	N
Core Barrel Lifting Rig	NWS	11 (11)	SSCV	N
Spent Fuel Handling Machine	NWS	11	NA	N
New Fuel Elevator	NWS	11	NA	N
Underwater Television	NWS	NS	SSCV	N
Refueling Pool Seal	NWS	NS	SSCV	N
In-Core Instrumentation and CEA Cutter	NWS	NS	SSCV	N
Extension Shaft Uncoupling Tool	NWS	NS	SSCV	N
Fuel Transfer Tube Quick Closure	2	1	SSCV	Q
CEA Handling Tools	NWS	NS	SSCV	N
ICI Insertion and Removal Tools	NWS	NS	SSCV	N
Spent Fuel Racks	NWS 3	1	NA	N
New Fuel Racks	NWS 3	1	NA	N

K

QC-1
OC-1

TABLE 3.2-1

(Sheet 1 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

<u>Component Identification</u>	<u>Safety Class</u>	<u>Seismic Category</u>	<u>Location</u>	<u>Quality Class</u> (29)
Reactor Coolant System				
Reactor Vessel	1	I	RC	1
Steam Generators (primary/secondary)	1/2 (1)	I	RC	1
Pressurizer	1	I	RC	1
Reactor Coolant Pumps (2) (3) (9)	1	I	RC	1
Piping within Reactor Coolant Pressure Boundary (5)	1/2 (4)	I	RC	1
Control Element Drive Mechanisms	(6)	(6)		1
Core Support Structures and Internals Structures (7)	3	I	RC	1
Fuel Assemblies (8)	2	I	RC	1
Control Element Assemblies (8)	3	I	RC	1
Closure Head Lift Rig	NNS	II (10)		2
Heated Junction Thermocouple Probe Assembly	1/3 (12)	I	RC	1
HJTC Pressure Housing	1	I	RC	1
ICI Cable Tray Support Frame	3	I	RC	1
ICI Holding Frame	NNS	NS	RC	3
ICI Guide Tubes	1	I	RC	1
ICI Guide Tube Supports	1	I	RC	1
ICI Seal Housing	1	I	RC	1
ICI Seal Table	1	I	RC	1
Piping (27)	1/2	I	RC	1
Valves (27)	1/2	I		1
In-containment Water Storage System				
IRWST	2	I	RC	1
Holdup Volume	2	I	RC	1
Steam Relief System				
Piping	1/2	I	RC	1
Valves	1/2	I	RC	1
Spargers	2	I	RC	1

Footnotes to this table are given at the end of the table.

TABLE 3.2-1 (Cont'd)

(Sheet 2 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

<u>Component Identification</u>	<u>Safety Class</u>	<u>Seismic Category</u>	<u>Location</u>	<u>Quality Class</u>
Cavity Flooding System				
Piping	2	I	RC	1
Valves	2	I	RC	1
Safety Depressurization System				
Valves	1/2	I	RC	1
Piping	1/2	I	RC	1
Reactor Coolant Gas Vent System				
Valves	1/2	I	RC	1
Piping	1/2	I	RC	1
Safety Injection System				
Safety Injection Pumps	2	I	RB	1
Safety Injection Tanks	2	I	RC	1
Piping (24) (27)	1/2	I	RB/RC	1
Valves (27)	1/2	I	RB/RC	1
Shutdown Cooling System				
Shutdown Cooling Heat Exchangers	2/3 (1)	I	RB	1
Shutdown Cooling Pumps	2	I	RB	1
Shutdown Cooling Mini-Flow Heat Exchanger	2/3 (1)	I	RB	1
Piping (27)	1/2	I	RB/RC	1
Valves (27)	1/2	I	RB/RC	1
Containment Spray System				
Containment Spray Pumps	2	I	RB	1
Containment Spray Heat Exchangers	2/3 (1)	I	RB	1
Containment Spray Mini-Flow Heat Exchanger	2/3 (1)	I	RB	1
Spray Nozzles	2	I	RC	1
Piping (27)	2	I	RB/RC	1
Valves (27)	2	I	RB/RC	1

Amendment N
April 1, 1993

TABLE 3.2-1 (Cont'd)

(Sheet 3 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

<u>Component Identification</u>	<u>Safety Class</u>	<u>Seismic Category</u>	<u>Location</u>	<u>Quality Class</u>
Chemical and Volume Control System				
Regenerative Heat Exchanger	2	I	RC	1
Letdown Heat Exchanger	2/3 (1)	I	RC	1
Seal Injection Heat Exchanger	3	I	NA	1
Purification Ion Exchangers	3	I	NA	1
Deborating Ion Exchanger	3	I	NA	1
Volume Control Tank	3	I	NA	1
Chemical Addition Package	NNS	NS	NA	2
Boric Acid Batching Tank	NNS	NS	NA	2
Charging Pumps	3	I	NA	1
Boric Acid Makeup Pumps	3	I	NA	1
Reactor Makeup Water Pumps	NNS	NS	NA	2
Boric Acid Concentrator	NNS	NS	NA	2
Pre-holdup Ion Exchanger	3	I	NA	1
Charging Pump Mini-flow Heat Exchangers	3	I	NA	1
Boric Acid Condensate Ion Exchanger	NNS	NS	NA	2
Reactor Drain Pumps	3	I	NA	1
Holdup Pumps	NNS	NS	NA	2
Reactor Drain Tank	NNS	NS	RC	2
Holdup Tank	NNS	NS	YA	2
Equipment Drain Tank	3	I	NA	1
Reactor Makeup Water Tank	NNS	NS	YA	2
Gas Stripper	3	I	NA	1
Purification Filters	3	I	NA	1
Reactor Drain Filter	3	I	NA	1
Seal Injection Filters	3	I	NA	1
Reactor Makeup Filter	NNS	NS	NA	2
Boric Acid Filter	3	I	NA	1
Letdown Strainer	3	I	NA	1
Pre-holdup Strainer	3	I	NA	1
Boric Acid Condensate IX Strainer	NNS	NS	NA	2
Ion Exchanger Drain Header Strainer	NNS	NS	NA	3
Boric Acid Batching Strainer	NNS	NS	NA	3
Chemical Addition Strainer	NNS	NS	NA	3
Boric Acid Storage Tank	3	I	YA	
Boric Acid Batching Eductor	NNS	NS	NA	2
Letdown Orifices	2	I	RC	1

Amendment N
April 1, 1993

TABLE 3.2-1 (Cont'd)

(Sheet 4 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

<u>Component Identification</u>	<u>Safety Class</u>	<u>Seismic Category</u>	<u>Location</u>	<u>Quality Class</u>
Piping (27)	1/2/3/NNS	1/NS	RC/NA/YA	1/2
Valves (27)	1/2/3/NNS	1/NS	RC/NA/YA	1/2
Emergency Feedwater System				
Cavitating Venturi	2	1	RC	1
Motor-Driven Emergency Feedwater Pumps	3	1	RB	1
Steam-Driven Emergency Feedwater Pumps	3	1	RB	1
Emergency Feedwater Pump Turbines	3	1	RB	1
Emergency Feedwater Storage Tanks	3	1	NA	1
Piping (27)	2/3	1	RB/RC	1
Valves (27)	2/3	1	RB/RC	1
Fuel Handling System				
Spent Fuel Pool	3	1	NA	1
Refueling Machine	NNS	11	RC	2
Fuel Transfer System	NNS	11	RC/NA	2
1. Transfer Carriage	NNS	11	RC/NA	2
2. Upending Machine	NNS	11	RC/NA	2
3. Hydraulic Power Unit	NNS	11	RC/NA	2
Fuel Transfer Tube, Valve, Stand	NNS	11	RC/NA	2
CEA Change Platform	NNS	11	RC	2
Long and Short Fuel Handling Tools	NNS	NS	RC	2
Upper Guide Structure Lifting Rig	NNS	11 (11)	RC	2
Core Barrel Lifting Rig	NNS	11 (11)	RC	2
Spent Fuel Handling Machine	NNS	11	NA	2
New Fuel Elevator	NNS	11	NA	2
Underwater Television	NNS	NS	RC	2
Refueling Pool Seal	NNS	NS	RC	2
In-Core Instrumentation and CEA Cutter	NNS	NS	RC	3
Extension Shaft Uncoupling Tool	NNS	NS	RC	2
Fuel Transfer Tube Quick Closure	2	1	RC	1
CEA Handling Tools	NNS	NS	RC	2
ICI Insertion and Removal Tools	NNS	NS	RC	
		3		
Spent Fuel Racks	3	1	NA	1
New Fuel Racks	3	1	NA	1

TABLE 3.2-1 (Cont'd)

(Sheet 5 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

<u>Component Identification</u>	<u>Safety Class</u>	<u>Seismic Category</u>	<u>Location</u>	<u>Quality Class</u>
Condensate and Feedwater System				
Condensate Pumps	NNS	NS	TB	2
Feedwater Pumps	NNS	NS	TB	2
Feedwater Pump Controllers	NNS	NS	TB	2
Feedwater Booster Pumps	NNS	NS	TB	2
Startup Feedwater Pump	NNS	NS	TB	2
Low Pressure Feedwater Heaters	NNS	NS	TB	2
High Pressure Feedwater Heaters	NNS	NS	TB	2
Deaerator	NNS	NS	TB	2
Piping (13)	2/NNS	1/NS	TB/NA/RC/MS	2/3
Valves (13)	2/NNS	1/NS	TB/NA/RC/MS	2/3
Main Condenser System				
Main Condenser	NNS	NS	TB	2
Condensate Storage System				
Condensate Storage Tanks	NNS	NS	YA	2
Condensate Storage Tank Recycle Pumps	NNS	NS	SB	2
Condensate Drain Tanks	NNS	NS	TB	2
Condensate Drain Tank Transfer Pump	NNS	NS	TB	2
Piping	NNS	NS	YA/SB/TB	2/3
Valves	NNS	NS	YA/SB/TB	2/3
Condensate Cleanup System				
Piping	NNS	NS	TB	2/3
Polishers/Demineralizers	NNS	NS	TB	2
Resin Traps	NNS	NS	TB	2
Valves	NNS	NS	TB	2/3
Main Condenser Evacuation System				
Vacuum Pumps	NNS	NS	TB	2

TABLE 3.2-1 (Cont'd)

(Sheet 6 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

<u>Component Identification</u>	<u>Safety Class</u>	<u>Seismic Category</u>	<u>Location</u>	<u>Quality Class</u>
Piping	NNS	NS	TB	2/3
Valves	NNS	NS	TB	2/3
Demineralized Water Makeup System				
Demineralizer Makeup Water Pumps	NNS	NS	YA	3
Demineralizers	NNS	NS	YA	3
Vacuum Degasifier	NNS	NS	YA	3
Demineralized Water Storage Tank	NNS	NS	YA	3
Vacuum Pumps	NNS	NS	YA	3
Filters	NNS	NS	YA	3
Recycle Pump	NNS	NS	YA	3
Vacuum Degasifier Transfer Pumps	NNS	NS	YA	3
Demineralized Water Transfer Pumps	NNS	NS	YA	3
Demineralizer Waste Tank	NNS	NS	YA	3
Piping (27)	2/NNS	1/NS	ALL	1/3
Valves (27)	2/NNS	1/NS	ALL	1/3
Extraction Steam System				
Piping	NNS	NS	TB	2
Valves	NNS	NS	TB	2
Heater Vents				
Piping	NNS	NS	TB	2
Valves	NNS	NS	TB	2
Turbine Generator System				
Turbine Generator				
High Pressure Turbine	NNS	NS	TB	2
Low Pressure Turbines	NNS	NS	TB	2
Generator	NNS	NS	TB	2
Moisture Separators	NNS	NS	TB	2
Steam Reheaters	NNS	NS	TB	2
Stop Valves	NNS	NS	TB	2
Control Valves	NNS	NS	TB	2
Reheat Stop Valves	NNS	NS	TB	2
Intercept Valves	NNS	NS	TB	2

Amendment N
April 1, 1993

TABLE 3.2-1 (Cont'd)

(Sheet 7 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

<u>Component Identification</u>	<u>Safety Class</u>	<u>Seismic Category</u>	<u>Location</u>	<u>Quality Class</u>
Valves, other	NNS	NS	TB	2/3
Piping	NNS	NS	TB	2/3
Turbine Bypass System				
Turbine Bypass Valves	NNS	NS	TB	2
Valves, other	NNS	NS	TB	2
Piping	NNS	NS	TB	2
Turbine Gland Sealing System				
Gland Seal Condenser	NNS	NS	TB	2
Gland Seal Regulator	NNS	NS	TB	2
Piping	NNS	NS	TB	2
Valves	NNS	NS	TB	2
Turbine Lube Oil System				
Pumps	NNS	NS	TB	2
Oil Tank	NNS	NS	TB	2
Oil Turbine	NNS	NS	TB	2
Oil Coolers	NNS	NS	TB	2
Oil Filters	NNS	NS	TB	2
Piping	NNS	NS	TB	2/3
Valves	NNS	NS	TB	2/3
Turbine Control System				
EHC Pumps	NNS	NS	TB	2
EHC Coolers	NNS	NS	TB	2
EHC Sumps	NNS	NS	TB	2
Piping	NNS	NS	TB	2
Valves	NNS	NS	TB	2
Turbine Generator Cooling System				
Hydrogen Coolers	NNS	NS	TB	2
Piping	NNS	NS	TB	2
Valves	NNS	NS	TB	2

Amendment N
April 1, 1993

TABLE 3.2-1 (Cont'd)

(Sheet 8 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

<u>Component Identification</u>	<u>Safety Class</u>	<u>Seismic Category</u>	<u>Location</u>	<u>Quality Class</u>
Liquid Waste Management System				
Waste Collection Tanks	NNS	NS	RW	2
Waste Sample Tanks	NNS	NS	RW	2
Process Pumps	NNS	NS	RW	2
Process Demineralizers	NNS	NS	RW	2
Process Filters	NNS	NS	RW	2
Piping (27)	2/NNS	1/NS	TB/NA/RW RC/RB	1/2
Valves (27)	2/NNS	1/NS	TB/NA/RW RC/RB	1/2
Gaseous Waste Management System				
Piping (27)	2/NNS	NS	NA/RW/RC	1/2
Gas Dryers	NNS	NS	RW	2
Charcoal Beds	NNS	NS	RW	2
Valves (27)	2/NNS	NS	NA/RW/RC	1/2
Solid Waste Management System				
Pumps	NNS	NS	NA/RW	2
Spent Resin Tanks	NNS	NS	NA/RW	2
HIC Fill/Dewatering Head	NNS	NS	RW	2
Slurry Pump	NNS	NS	RW	2
Dry Solids Compactor	NNS	NS	RW	2
Piping	NNS	NS	NA/RW	2
Valves	NNS	NS	NA/RW	2
Heater Drain System				
Piping	NNS	NS	TB	2/3
Reheater Drain Tanks	NNS	NS	TB	2
Moisture Separator Drain Tanks	NNS	NS	TB	2
Heater Drain Tank	NNS	NS	TB	2
Heater Drain Pumps	NNS	NS	TB	2
Valves	NNS	NS	TB	2/3

Amendment N
April 1, 1993

TABLE 3.2-1 (Cont'd)

(Sheet 9 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

<u>Component Identification</u>	<u>Safety Class</u>	<u>Seismic Category</u>	<u>Location</u>	<u>Quality Class</u>
Process and Effluent Radiation Monitoring System				
Gaseous Process and Effluent Monitors				
Unit Vent	NNS	NS	NA	2
Waste Gas	NNS	NS	RW	2
Unit Vent Post-Accident	NNS	NS	NA	2
Containment Purge Exhaust	NNS	NS	NA	2
Condenser Air Ejector	NNS	NS	TB	2
Liquid Process and Effluent Monitors				
Component Cooling Water	NNS	NS	NA	2
Liquid Waste Discharge	NNS	NS	RW	2
Plant Discharge Line	NNS	NS	RW	2
Station Service Water	NNS	NS	CX	2
Reactor Coolant Gross Activity	NNS	NS	NA	2
Turbine Building Drains	NNS	NS	TB	2
Steam Generator Blowdown	NNS	NS	TB	2
Airborne Radiation Monitors				
Containment Atmosphere	3	I	NA	1
Nuclear Annex	NNS	NS	NA	2
Radwaste Building	NNS	NS	RW	2
Fuel Building	NNS	NS	NA	2
Ventilation Systems Multisampler	NNS	NS	NA	2
Control Room Intake (A&B)	3	I	NA	1
Reactor Building Annulus	NNS	NS	NA	2
Subsphere Ventilation	NNS	NS	NA	2
Area Radiation Monitors	NNS	NS	RC/NA/RW	2
Special Purpose Area Monitors				
Main Steam Line	NNS	NS	NA	2
Purification Filter	NNS	NS	NA	2
Containment Area High Radiation	3	I	RC	1
Primary Coolant	3	I	RC	1
Containment Isolation System				
Piping	2	I	RC/RB	1
Valves	2	I	RC/RB	1

TABLE 3.2-1 (Cont'd)

(Sheet 10 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

<u>Component Identification</u>	<u>Safety Class</u>	<u>Seismic Category</u>	<u>Location</u>	<u>Quality Class</u>
Component Cooling Water System (14)				
Piping (27)	2/3/NNS	1/NS	CX/YA/NA RB/RC	1/2/3
Heat Exchangers	3	1	CX	1
Pumps	3	1	NA	1
Surge Tanks	3	1	NA	1
Sump Pumps	NNS	NS	NA	3
Chemical Addition Tank	NNS	NS	NA	3
Heat Exchanger Building Sump Pumps	NNS	NS	CX	3
Valves	2/3/NNS	1/NS	CX/YA/NA/ RB/RC	1/2/3
Pool Cooling and Purification System				
Spent Fuel Pool Cooling System				
Pumps	3	1	NA	1
Exchangers	3	1	NA	1
Piping	3	1	NA	1
Valves	3	1	NA	1
Pool Purification System				
Pumps	NNS	NS	NA	2
Strainers	NNS	NS	NA	3
Demineralizers	NNS	NS	NA	2
Filters	NNS	NS	NA	2
Skimmer	NNS	NS	NA	3
Piping (27)	2/NNS	1/NS	NA/RC	1/2
Valves (27)	2/NNS	1/NS	NA/RC	1/2
Process Sampling System				
Primary Sampling System				
Pump	NNS	NS	NA	2
Heat Exchangers	NNS	NS	NA	2
Sample Vessels	NNS	NS	NA	2
Piping (27)	2/NNS	1/NS	NA/RC	1/2
Valves (27)	2/NNS	1/NS	NA/RC	1/2
Sink	NNS	NS	NA	3
Boronometer	NNS	NS	NA	2
Process Radiation Monitor	NNS	NS	NA	2

Amendment N
April 1, 1993

TABLE 3.2-1 (Cont'd)

(Sheet 11 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

<u>Component Identification</u>	<u>Safety Class</u>	<u>Seismic Category</u>	<u>Location</u>	<u>Quality Class</u>
Secondary Chemistry Control System				
Heat Exchangers	NNS	NS	NA	2/3
Strainers	NNS	NS	NA	2/3
Monitors	NNS	NS	NA	2/3
Piping (27)	2/NNS	1/NS	NA/RC	1/3
Valves (27)	2/NNS	1/NS	NA/RC	1/3
Station Service Water System				
Piping	3/NNS	1/NS	SP/CX	1/3
Pumps	3	I	SP	1
Strainers	3	I	SP	1
Sump Pumps	NNS	NS	SP	3
Traveling Screens	3	I	YA	1
Valves	3/NNS	1/NS	SP/CX	1/3
Turbine Building Service Water System				
Piping	NNS	NS	TB	2/3
Valves	NNS	NS	TB	2/3
Pumps	NNS	NS	TB	2
Strainers	NNS	NS	TB	2
Turbine Building Cooling Water System				
Piping	NNS	NS	TB	2/3
Valves	NNS	NS	TB	2/3
Heat Exchangers	NNS	NS	TB	2/3
Pumps	NNS	NS	TB	2/3
Surge Tank	NNS	NS	TB	2/3
Chemical Addition Tank	NNS	NS	TB	3
Chilled Water System				
Essential Chilled Water System				
Refrigeration Units	3	I	NA	1
Pumps	3	I	NA	1
Compression Tanks	3	I	NA	1
Chemical Addition Tanks	NNS	NS	NA	3
Essential/Normal Heat Exchangers	3/NNS (1)	I	NA	1/2

Amendment N
April 1, 1993

TABLE 3.2-1 (Cont'd)

(Sheet 12 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

<u>Component Identification</u>	<u>Safety Class</u>	<u>Seismic Category</u>	<u>Location</u>	<u>Quality Class</u>
Piping (27)	2/3/NNS	1/NS	NA/RC/RB	1/2/3
Valves (27)	2/3/NNS	1/NS	NA/RC/RB	1/2/3
Strainers	3/NNS	1/NS	NA	1/3
Normal Chilled Water System (15)				
Refrigeration Units	NNS	NS	NA	2
Pumps	NNS	NS	NA	2
Compression Tanks	NNS	NS	NA	3
Air Separators	NNS	NS	NA	3
Chemical Addition Tanks	NNS	NS	NA	3
Piping (27)	2/NNS	1/NS	NA/RC	1/3
Valves (27)	2/NNS	1/NS	NA/RC	1/3
Strainers	NNS	NS	NA	3
Condenser Circulating Water System				
Pumps	NNS	NS	YA	2
Cooling Towers (mechanical portion)	NNS	NS	YA	2
Piping	NNS	NS	YA/TB	2/3
Valves	NNS	NS	YA/TB	2/3
Strainers	NNS	NS	YA/TB	2
Traveling Screens	NNS	NS	YA	2
Compressed Air Systems				
Instrument Air System				
Air Compressors	NNS	NS	NA	2
Piping (27)	2/NNS	NS	ALL	1/3
Valves (27)	2/NNS	NS	ALL	1/3
Air Receivers	NNS	NS	NA	3
Desiccant Air Dryers/Filters	NNS	NS	NA	2
Station Air System				
Air Compressors	NNS	NS	SB	3
Air Dryers/Filters	NNS	NS	SB	3
Piping (27)	2/NNS	NS	ALL	1/3
Air Receivers	NNS	NS	SB	3
Valves (27)	2/NNS	1/NS	ALL	1/3

TABLE 3.2-1 (Cont'd)

(Sheet 13 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

<u>Component Identification</u>	<u>Safety Class</u>	<u>Seismic Category</u>	<u>Location</u>	<u>Quality Class</u>
Breathing Air System				
Air Compressors	NNS	NS	SB	3
Piping (27)	2/NNS	1/NS	ALL	1/3
Valves (27)	2/NNS	1/NS	ALL	1/3
Air Receivers	NNS	NS	SB	3
Air Dryer/Filters	NNS	NS	SB	3
Compressed Gas Systems				
Piping (26) (27)	2/NNS	1/NS	ALL	1/3
High Pressure Gas Cylinders	NNS	NS	YA	3
Pressure Regulators	NNS	NS	YA	3
Leak Detection Systems	NNS	NS	ALL	3
Liquid Nitrogen Evaporators	NNS	NS	YA	3
Valves (27)	2/NNS	1/NS	ALL	1/3
Fire Protection System				
Jockey Pump	NNS	NS	FP	2
Surge Tank	NNS	I	NA	1
Fire Pumps	NNS	NS	FP	2
Storage Tanks	NNS	NS	FB	2
Water Spray Systems (Deluge and Sprinkler) Piping, Valves (16)(27)	2/NNS	1/NSS	TB/NA/RC/ RB/DG/SB	1/2
Hose Systems/Standpipes (16) (27)	2/NNS	1/NS	ALL	1/2
Portable Fire Extinguishers (16)	NNS	NS	ALL	2
Exterior Distribution System				
Piping	NNS	NS	YA	2
Valves	NNS	NS	YA	2
Strainers	NNS	NS	YA	2
Diesel Generator Systems				
DG Engine Fuel Oil System (17)				
Fuel Oil Storage Tanks	3	I	DF	1
Recirculation Pumps	NNS	NS	DF	3
Booster Pumps	3	I	DG	1
Fuel Oil Day Tanks	3	I	DG	1
Fuel Oil Transfer Pumps	3	I	DG	1

Amendment N
April 1, 1993

TABLE 3.2-1 (Cont'd)

(Sheet 14 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

<u>Component Identification</u>	<u>Safety Class</u>	<u>Seismic Category</u>	<u>Location</u>	<u>Quality Class</u>
Strainers	3/NNS	1/NS	DG/YA	1/3
Filters	3/NNS	1/NS	DG	1/3
Piping	3/NNS	1/NS	DG/DF/YA	1/3
Valves	3/NNS	1/NS	DG/DF	1/3
DG Engine Cooling Water System				
Circulation Pumps	3	I	DG	1
Keep Warm Pumps	3	I	DG	1
Jacket Water Coolers	3	I	DG	1
Jacket Water Standpipes	3	I	DG	1
Chemical Pot Feeders	3	I	DG	1
Piping	3	I	DG	1
Valves	3	I	DG	1
DG Engine Starting Air System (18)				
Compressors	NNS	NS	DG	2
Aftercoolers	NNS	NS	DG	3
Moisture Separators	NNS	NS	DG	3
Filter/Dryer Units	NNS	NS	DG	3
Air Receivers	3	I	DG	1
Strainers	3/NNS	1/NS	DG	1/3
Traps	NNS	NS	DG	3
Filters	3/NNS	1/NS	DG	1/3
Piping	3/NNS	1/NS	DG	1/3
Valves	3/NNS	1/NS	DG	1/3
DG Engine Lube Oil System (19)				
Lube Oil Sump Tanks	3	I	DG	1
Lube Oil Coolers	3	I	DG	1
Oil Transfer Pumps	NNS	NS	DG/YA	3
Pre-lube Oil Pumps	3	I	DG	1
Clean and Used Lube Oil Storage Tanks	NNS	NS	YA	3
Filters	3	I	DG	1
Strainers	3/NNS	1/NS	DG	1/3
Piping	3/NNS	1/NS	DG/YA	1/3
Valves	3/NNS	1/NS	DG/YA	1/3

TABLE 3.2-1 (Cont'd)

(Sheet 15 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

<u>Component Identification</u>	<u>Safety Class</u>	<u>Seismic Category</u>	<u>Location</u>	<u>Quality Class</u>
DG Engine Air Intake and Exhaust System				
Turbochargers	3	I	DG	1
Aftercoolers	3	I	DG	1
Silencers and Air Filters	3	I	DG	1
Piping	3	I	DG	1
Equipment and Floor Drainage System				
Reactor Building Subsphere Sump Pumps	3	I	RB	1
Other Sump Pumps	NNS	NS		3
Piping (27)	2/3/NNS	I/NS	ALL	1/3
Valves (27)	2/3/NNS	I/NS	ALL	1/3
Diesel Generator Building Sump Pump System				
Sump Pumps	3	I	LG	1
Piping	3/NNS	I/NS	DG/NA/RW	1/3
Valves	3/NNS	I/NS	DG/NA/RW	1/3
Control Building Ventilation System				
Main Control Room Air Handling System				
Air Handling Units w/Filters	3	I	NA	1
Fans, Ductwork	3	I	NA	1
Water-cooling Coils	3	I	NA	1
Heating Coils	3	I	NA	1
Dampers	3	I	NA	1
Technical Support Center Air Handling System				
Air Handling Units w/Filters	NNS	II	NA	2
Fans, Ductwork	NNS	II	NA	2
Dampers	NNS	II	NA	2
Computer Room Air Handling System				
Air Handling Units w/Filters	NNS	II	NA	2
Fans, Ductwork	NNS	II	NA	2
Dampers	NNS	II	NA	2

TABLE 3.2-1 (Cont'd)

(Sheet 16 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

<u>Component Identification</u>	<u>Safety Class</u>	<u>Seismic Category</u>	<u>Location</u>	<u>Quality Class</u>
Vital Instrumentation and Equipment				
Rooms (inc. Battery Rooms)				
Air Handling Units w/Filters	3	I	NA	1
Fans, Ductwork	3	I	NA	1
Dampers	3	I	NA	1
Balance of Building Air Handling System				
Filters	NNS	NS	NA	3
Water Cooling Coils	NNS	NS	NA	3
Fans, Ductwork	NNS	NS	NA	3
Dampers	NNS	NS	NA	3
Fuel Building Ventilation System				
Cooling Coil	NNS	NS	NA	3
Heating Coil, Supply	NNS	NS	NA	3
Air Handling Unit w/Filter	NNS	II	NA	2
Ductwork, Supply	NNS	II	NA	2
Exhaust System Filter Train	3	I	NA	1
Exhaust System Fans	3	I	NA	1
Exhaust System Dampers	3	I	NA	1
Ductwork, Exhaust	3	I	NA	1
Dampers, Supply	NNS	II	NA	2
Nuclear Annex				
Ventilation System (20)				
Recirculation Units	3	I	NA	1
Supply Air Handling Units	NNS	II	NA	2
Ductwork, Supply	NNS	II	NA	2
Cooling Coils	NNS	II	NA	3
Particulate Exhaust Filter Units	NNS	II	NA	2
Fans, Ductwork	NNS	II	NA	2
Dampers	NNS	II	NA	2
Room Recirculating Unit Cooling Coils	3	I	NA	1
Radwaste Building Ventilation System				
Supply Air Handling Units	NNS	NS	RW	2
Cooling Coils	NNS	NS	RW	3

Amendment N
April 1, 1993

TABLE 3.2-1 (Cont'd)

(Sheet 17 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

<u>Component Identification</u>	<u>Safety Class</u>	<u>Seismic Category</u>	<u>Location</u>	<u>Quality Class</u>
Exhaust Filter Units	NNS	NS	RW	2
Fans	NNS	NS	RW	2
Ductwork	NNS	NS	RW	2
Dampers	NNS	NS	RW	2
Reactor Building Subsphere Ventilation System				
Individual Cooling Units	3/NNS	1/II	RB	1/2
Exhaust Fans	3	I	NA	1
Cooling Coils and Heating Coils	3	I	NA	1
Exhaust System Filter Train	3	I	NA	1
Ductwork, Exhaust	3	I	NA/RB	1
Supply Fans	NNS	II	NA	2
Supply Air Handling Units	NNS	II	NA	2
Ductwork, Supply	NNS	II	NA/RB	2
Dampers, Exhaust	3	I	NA	1
Dampers, Supply	NNS	II	NA	2
Diesel Building Ventilation System				
Space Heater	3	I	DG	1
Supply/Exhaust Fans	3/NNS	1/II	DG	1/2
Ductwork	3/NNS	1/II	DG	1/2
Dampers	3/NNS	1/II	DG	1/2
Filter, Normal Supply	NNS	NS	DG	2
Annulus Ventilation System				
Filter Trains	3	I	NA	1
Fans	3	I	NA	1
Dampers	3	I	NA	1
Ductwork	3	I	NA/RB	1
Containment Purge Ventilation System				
Water Cooling Coil	NNS	NS	NA	3
Heating Coil	NNS	NS	NA	3

Amendment N
April 1, 1993

TABLE 3.2-1 (Cont'd)

(Sheet 18 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

<u>Component Identification</u>	<u>Safety Class</u>	<u>Seismic Category</u>	<u>Location</u>	<u>Quality Class</u>
Supply and Exhaust Fans	NNS	II	NA	2
Valves (27)	2/NNS	I/II	NA/RC	1/2
Filter Trains	NNS	II	NA	2
Ductwork (27)	2/NNS	I/II	NA/RC	1/2
Containment Cooling and Ventilation System				
Containment Cooling Subsystem	NNS	II	RC	2
Control Element Drive Mechanism Cooling Subsystem	NNS	II	RC	2
Containment Air Cleanup System	NNS	II	RC	2
Cavity Cooling Subsystem	NNS	II	RC	2
Ductwork	NNS	II	RC	2
Dampers	NNS	II	RC	2
Turbine Building Ventilation System				
Fans	NNS	NS	TB	3
Dampers	NNS	NS	TB	3
Exhausters	NNS	NS	TB	3
Ductwork	NNS	NS	TB	3
Station Service Water Pump Structure Ventilation System				
Fans	3	I	SP	1
Dampers	3	I	SP	1
Ductwork	3	I	SP	1
Main Steam Supply System				
Piping (21)				
Steam Generator to MSIV's	2	I	RC/MS	1
Other	NNS	NS	MS/NA/TB	3

TABLE 3.2-1 (Cont'd)

(Sheet 19 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

<u>Component Identification</u>	<u>Safety Class</u>	<u>Seismic Category</u>	<u>Location</u>	<u>Quality Class</u>
Valves (21)				
Safety Valves	2	I	MS	1
MSIV's, MSIV Bypass Valves	2	I	MS	1
Atmospheric Dump Valves	2	I	MS	1
Valves	2/NNS	I/NS	NA/MS/TB	1/3
Containment Hydrogen Recombiner System				
Piping (27)	2	I	NA/RC	1
Hydrogen Recombiners	2	I	NA	1
Hydrogen Analyzers	2	I	NA	1
Hydrogen Recombiner Control Panel	3	I	NA	1
Valves (27)	2	I	NA/RC	1
Steam Generator Blowdown System (22)				
Piping (27)	2/NNS	I/NS	RC/TB/MS	1/2
Flash Tank	NNS	NS	TB	2
Heat Exchanger	NNS	NS	TB	2
Filter	NNS	NS	TB	2
Demineralizers	NNS	NS	TB	2
Valves (27)	2/NSS	I/NS	RC/TB/MS	1/2
Steam Generator Wet Layup Recirculation System (22)				
Piping (27)	2/NNS	I/NS	RC/TB/MS	1/3
Valves (27)	2/NSS	I/NS	RC/TB/MS	1/3
Hydrogen Mitigation System				
Hydrogen Igniters	NNS	I	RC	2
Potable and Sanitary Water Systems	NNS	NS	YA	3

TABLE 3.2-1 (Cont'd)

(Sheet 20 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

<u>Component Identification</u>	<u>Safety Class</u>	<u>Seismic Category</u>	<u>Location</u>	<u>Quality Class</u>
Instrumentation and Control Systems				
Plant Protection System (PPS)				
The PPS includes the electrical and mechanical devices and circuitry (from sensors to actuation device input terminals) involved in generating the signals associated with the two protective functions defined below:				
Reactor Protective System (RPS)				
That portion of the PPS which generates signals that actuate reactor trip	3	1	NA/RC	1
Engineered Safety Features Actuation System (ESF)				
That portion of the PPS which generates signals that actuate engineered safety features	3	1	NA/RC	1
Safe Shutdown Systems				
The safe shutdown systems include those systems required to secure and maintain the reactor in a safe shutdown condition	3	1	DG/NA/CX SP/MS/ RB/RC	1
All other systems required for safety	3	1	NA/DG/CX SP/MS/ RB/RC	1

TABLE 3.2-1 (Cont'd)

(Sheet 21 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

<u>Component Identification</u>	<u>Safety Class</u>	<u>Seismic Category</u>	<u>Location</u>	<u>Quality Class</u>
Control systems not required for safety	NNS	NS	ALL	2/3
Control Room Panels (safety-related)	3	I	NA	1
Control Room Panels (other)	3	I	NA	1
Instrument valves and piping downstream of Safety Class 2 or 3 root valves (for safety-related instruments)				
Piping, tubing, and fittings	2/3	I	ALL	1
Instrument valves	NNS	NS	ALL	3
Electric Systems				
Class 1E AC Equipment (includes associated transformers, protective relays, instrumentation and control devices)				
4.16 kV Buses	3	I	NA	1
480V Load Centers	3	I	NA	1
480V Motor Control Centers	3	I	NA/CX/DG/SP	
Class 1E DC Equipment				
125V Station Batteries and Racks	3	I	NA	1
Battery Chargers	3	I	NA	1
125V Switchgear and Distribution Panels	3	I	NA	1

Amendment N
April 1, 1993

TABLE 3.2-1 (Cont'd)

(Sheet 22 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

<u>Component Identification</u>	<u>Safety Class</u>	<u>Seismic Category</u>	<u>Location</u>	<u>Quality Class</u>
120V Vital AC System Equipment				
Inverters	3	1	NA	1
120V Distribution Panels	3	1	NA	1
Electrical Cables for Class 1E Systems				
125V DC Cables (including cable splices, connectors, and terminal blocks)	3	1	NA	1
5 kV Power Cables (including cable splices, connectors, and terminal blocks)	3	1	NA/DG/CX/ SP	1
600V Power Cables (including cable splices, connectors, and terminal blocks)	3	1	NA/DG/CX/ SP/MS/ RB/RC	
Control and Instrumentation Cables (including cable splices, connectors, and terminal blocks)	3	1	DG/CX/NA SP/MS/RB	1
Conduit and cable trays and their supports containing Class 1E cables and those whose failure during a seismic event may damage other safety-related items	3	1	DG/CX/NA/ SP/MS/RB RC	1
Miscellaneous Class 1E Electrical Systems				
Containment building electrical penetration assemblies	3	1	RC	1
Non-Class 1E Electrical Systems	NNS	11/NS	ALL	2/3

TABLE 3.2-1 (Cont'd)

(Sheet 23 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

<u>Component Identification</u>	<u>Safety Class</u>	<u>Seismic Category</u>	<u>Location</u>	<u>Quality Class</u>
Structures				
Reactor Building				
Shield Building	2	I	RB	1
Steel Containment Vessel	2	I	RB	1
Internal Structure	3	I	RC	1
Equipment Hatch	2	I	RC	1
Personnel Airlocks	2	I	RC	1
Subsphere	3	I	RB	1
Nuclear Annex				
Control Area	3	I	NA	1
EFW Tank/Main Steam	3	I	NA	1
Valve House Area	3	I	NA	1
Emergency Diesel	3	I	NA	1
Generator Areas	3	I	NA	1
CVCS/Maintenance Area	3	I	NA	1
Spent Fuel Pool Area				
Turbine Building	NNS	II	TB	2
Radwaste Facility (2B)	3	II	RW	2
Station Service Water	3	I	SP	1
Pump Structure				
Station Service Water				
Intake Structure	3	I	SI	1
Component Cooling Water	3	I	CK	1
Heater Exchanger Structure				
Diesel Fuel Storage Building	3	I	DF	1

Amendment N
April 1, 1993

TABLE 3.2-1 (Cont'd)

(Sheet 24 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

<u>Component Identification</u>	<u>Safety Class</u>	<u>Seismic Category</u>	<u>Location</u>	<u>Quality Class</u>
Service Building	NNS	NS	SB	3
Administration Building	NNS	NS	ADB	3
Warehouse	NNS	NS	WH	3
Fire Pump House	NNS	NS	FP	3
Dike (CVCS Outdoor Tanks)	3	I	YA	1
Cranes				
Polar Crane	3	II	RC	1
Cask Handling Hoist	3	II	NA	1
New Fuel Handling Hoist	3	II	NA	1
Component Supports (23)	1/2/3/NNS	1/NS	ALL	1/2/3

- NOTES:
- (1) Two safety classes are used for heat exchangers to distinguish primary and secondary sides where they are different.
 - (2) Loss of cooling water and/or seal water service to the reactor coolant pumps (RCPs) may require stopping the pumps. However, the continuous operation of the pumps is not required during or following an SSE. The auxiliaries are therefore not necessarily Safety Class 3 or Seismic Category I. Provision for cooling water to the pump bearing oil cooler and pump motor air cooler will not comply with the requirements of Regulatory Guide 1.29 (see Section 5.4.1.3).
 - (3) Only those structural portions of the RCPs which are necessary to assure the integrity of the reactor coolant pressure boundary are Safety Class 1.
 - (4) Safety class of piping within the reactor coolant pressure boundary (as defined in 10 CFR 50) is selected in accordance with the ANSI/ANS 51.1 criteria identified in Section 3.2.2. For purposes of CESSAR, Safety Class 1, 2, 3, and NNS of ANSI/ANS 51.1 are equivalent to Quality Groups A, B, C, and D of Regulatory Guide 1.26.

TABLE 3.2-1 (Cont'd)

(Sheet 25 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

NOTES:
(Cont'd)

- (5) Flow restricting orifices are provided in the nozzles for RCS sampling lines, pressurizer level and pressure instruments, RCP differential pressure instrument lines, SIS pressure instrument lines, RCP seal pressure instrument lines, the charging line differential pressure instrument line, and the SIS hot leg injection pressure instrument lines, to limit flow in the event of a break downstream of the nozzle. The orifice size, 7/32-inch diameter and 1-inch long, precludes exceeding fuel design limits while utilizing minimum makeup rates. This permits an orderly shutdown in the event of a downstream break in accordance with General Design Criterion 33 (see Section 3.1.29). A reduction may, therefore, be made in the safety classification of lines downstream of the orifice.
- (6) The pressure boundary housing for this component is a react... vessel appurtenance and is Safety Class 1 and Seismic Category 1, as described in Section 3.9.4.3.
- (7) Core support structures and internals structures are designed to the criteria described in Section 3.9.5.4.
- (8) CEA and fuel assemblies are designed to the criteria described in Section 4.2.
- (9) Reactor coolant pump auxiliary components required for lubrication and cooling of pump seals and thrust bearings are not subject to the quality assurance requirements of 10CFR50, Appendix B.
- (10) Except Lifting Frame Assembly, which is NS.
- (11) During normal plant operation only.
- (12) Safety Class 1 for pressure boundary; Safety Class 3 for electrical portion of system.
- (13) The piping, valves, and associated supports/restraints of the Main Feedwater System from (and including) the Main Feedwater Isolation Valves to the steam generator feed nozzles are Safety Class 2, Seismic Category 1, and Quality Class 1; the remainder is Safety Class NNS.

TABLE 3.2-1 (Cont'd)

(Sheet 26 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

- NOTES:
(Cont'd)
- (14) Non-safety Cooling Headers are Safety Class NNS, Seismic Category II, Quality Class 2.
 - (15) The Normal Chilled Water System serves no safety function. Portions of the system which are located in non-safety related areas are classed as non-seismic.
 - (16) Portions of the Fire Protection System piping, valves, and extinguishers which are not in safety-related areas of the plant are designed as non-seismic.
 - (17) Fuel Oil Recirculation System and storage tank fill line strainer are Safety Class NNS.
 - (18) The Starting Air System is Safety Class NNS from the starting air compressor through the desiccant drying towers, and Safety Class 3 from the starting air receiver tank inlet check valve to the engine connections.
 - (19) The Clean and Used Oil Transfer System is Safety Class NNS.
 - (20) Mechanical Equipment Room cooling components are Safety Class 3, Seismic Category I, and Quality Class 1.
 - (21) The piping, valves, and associated supports/restraints of the Main Steam System from each steam generator to (and including) the Main Steam Isolation Valves are Safety Class 2, Seismic Category I, and Quality Class 1; the remainder is Safety Class NNS.
 - (22) Piping is Safety Class 2 from the Steam Generators through the Containment Isolation Valves.
 - (23) Component supports are designed to the criteria described in Section 3.9.3.4.
 - (24) Safety Injection drain and vent piping is Safety Class NNS, Seismic Category NS and Quality Class 3.

TABLE 3.2-1 (Cont'd)

(Sheet 27 of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

NOTES: (25) Locations:
(Cont'd)

CX	=	Component Cooling Water Heat Exchanger Structure
DG	=	Diesel Generator Building
FP	=	Fire Pump House
MS	=	Main Steam Valve House
RW	=	Radwaste Facility
RB	=	Reactor Building
RC	=	Steel Containment
SP	=	Station Service Water Pump Structure
SB	=	Service Building
TB	=	Turbine Building
NA	=	Nuclear Annex
YA	=	Yard Above Ground
SI	=	Station Service Water Intake Structure
DF	=	Diesel Fuel Oil Storage
ALL	=	Throughtout Plant

- (26) Hydrogen lines in safety-related areas are either designed to Seismic Category I requirements, or sleeved with the outer pipe vented to the outside, or equipped with excess flow check valves so that in case of a line break, the hydrogen concentration in the affected area will not exceed 2%.
- (27) Containment isolation valves and containment penetration piping are Safety Class 2, Seismic Category I, and Quality Class 1.
- (28) The Radwaste Building foundation and curb are designed to the seismic criteria of regulatory position 5 of RG 1.143.

TABLE 3.2-1 (Cont'd)

(Sheet 27a of 27)

CLASSIFICATION OF
STRUCTURES, SYSTEMS, AND COMPONENTS

NOTES:
(Cont'd)

- (29) The QA program provides a graded approach to the assurance of quality of work performed by and for ABB-CE by the use of quality class designations to describe the various levels of controls as follows:
- 1) QC-1 is the highest level quality class and embodies all necessary controls for items and/or services which are required to meet 10 CFR 50 Appendix B requirements.
 - 2) QC-2 is an intermediate level quality class which is used for items or services which require a moderate level of control of activities affecting quality, but which are neither Nuclear Safety-Related nor required to meet the requirements of 10 CFR 50 Appendix B. Circumstances appropriate for QC-2 designation include non-standard, complex items, or those which must perform reliably, in a harsh environment or with less than normal operator attention or maintenance.
 - 3) QC-3 is the quality class which applies to all items or services which are not assigned to another quality class. Quality requirements may be specified in quality plans, procurement documents and/or special procedures if deemed necessary.