

UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

TENNESSEE VALLEY AUTHORITY

DOCKET NO. 50-259

BROWNS FERRY NUCLEAR PLANT, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No.124 License No. DPR-33

- 1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Tennessee Valley Authority (the licensee) dated May 8, 1985, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission:
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
- 2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 2.C(2) of Facility Operating License No. DPR-33 is hereby amended to read as follows:

(2) <u>Technical Specifications</u>

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 124, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

This license amendment is effective 90 days from the date of issuance.

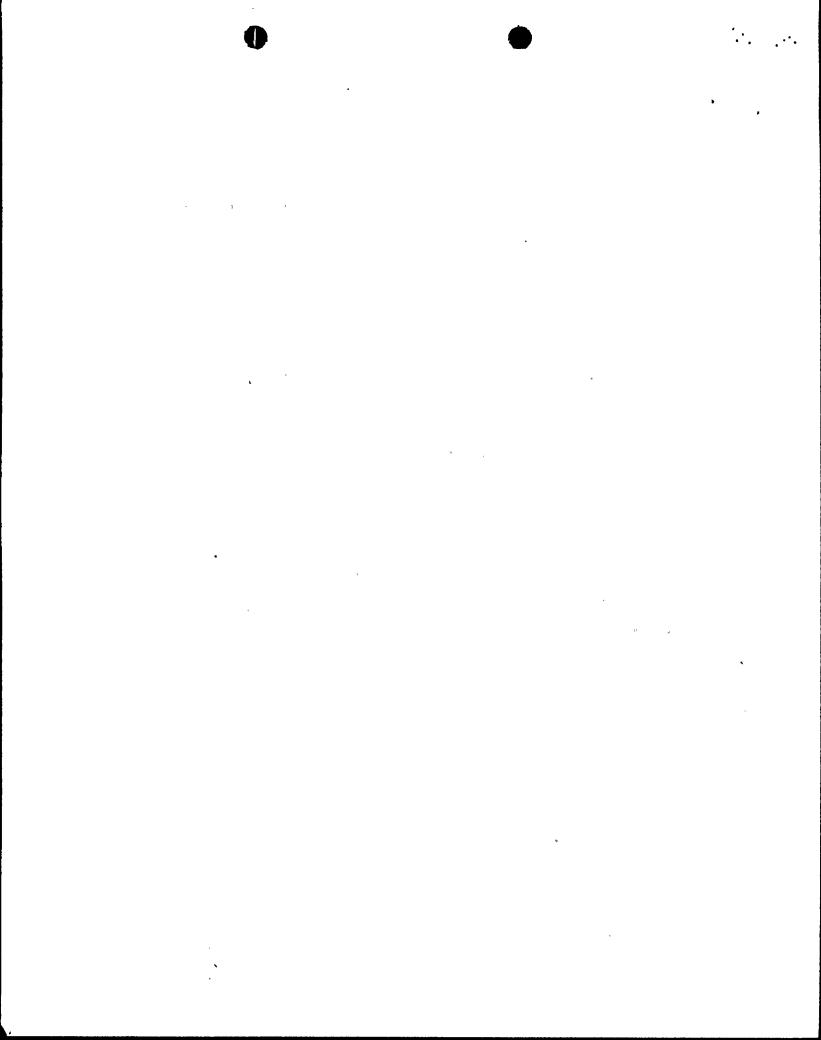
FOR THE NUCLEAR REGULATORY COMMISSION

Domenic B. Vassallo, Chief Operating Reactors Branch #2

Division of Licensing

Attachment: Changes to the Technical Specifications

Date of Issuance: November 19, 1985



ATTACHMENT TO LICENSE AMENDMENT NO. 124

FACILITY OPERATING LICENSE NO. DPR-33

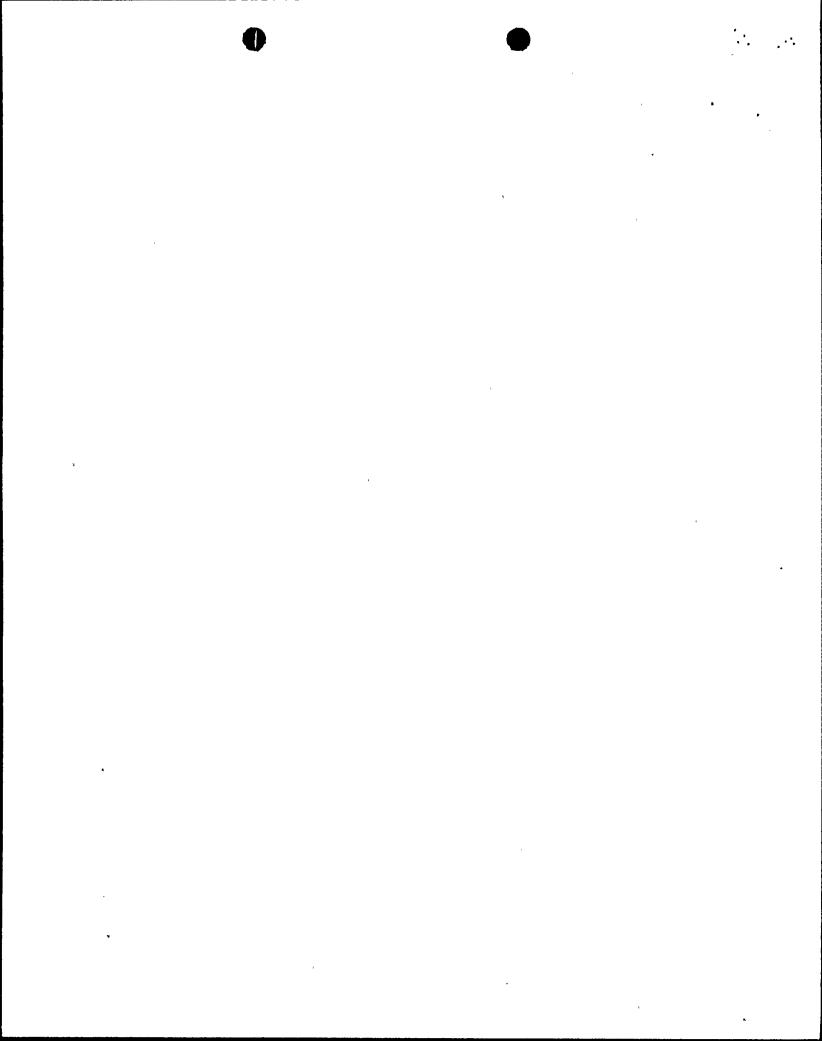
DOCKET NO. 50-259

Revise Appendix A as follows:

1. Remove the following pages and replace with identically numbered pages.

324, 325

2. The marginal lines on these pages denote the areas being changed.



324

TABLE 3.11.A FIRE PROTECTION SYSTEM HYDRAULIC REQUIREMENTS

	Station	Flow Required (gpm)	Residual Pressure (psig)	
1.	Reactor Building Roof	,		
	A. Valve 26-849 B. Valve 26-889	200 200	65 65	
2.	Refuel Floor	•		
	A. Valve 26-835 B. Valve 26-843 C. Valve 26-870 D. Valve 26-865 E. Valve 26-876 F. Valve 26-888 G. Valve 26-898	75 75 75 75 75 75 75	70 70 70 70 70 70 70	
3.	3. Cable Tray Fixed Water Spray Systems (1)			
	A. Unit 1 - A,B,C & D B. Unit 1 - E & F C. Unit 1 - G & H D. Unit 1 - K & L E. Unit 1 - N, P, & Q F. Unit 2 - A & B G. Unit 2 - C, D, E & F H. Unit 2 - J, K & L I. Unit 2 - N, P, Q & R J. Unit 3 - A & B K. Unit 3 - C, D, E & F L. Unit 3 - J, K, L & M M. Unit 3 - N, P & Q N. Turbine Building O. Unit 3 - Diesel Generator Building	200 180 300 70 115 200 200 85 120 200 265 135 100 30 55	70 65 55 65 75 70 70 65 60 70 75 75 40 55	
4.	Diesel Generator Buildings			
	A. Valve 26-1032 B. Valve 26-1069	75 75	70 70	

	Station	Flow Required (GPM)	Residual Pressure (PSIG)
5.	Pump Intake Station		
•	A. Valve 26-578	75	70
6.	Control Bay		
	A. Valve 26-1076	75	70
7.	Yard Loop (2)		
	A. Hydrant at Valve 0-26-526 B. Hydrant at Valve 0-26-530	500 500	65 65
8.	Cooling Tower Loop		
	A. Hydrant at Valve 0-26-1023-6	500	65

Note (1) Cable tray fixed water spray systems are to be tested simultaneously with one 1½-inch hose station.

Note (2) Yard hydrants and the cooling tower hydrant are to be tested using the longest path for flow.



UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

TENNESSEE VALLEY AUTHORITY

DOCKET NO. 50-260

BROWNS FERRY NUCLEAR PLANT, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 119 License No. DPR-52

- 1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Tennessee Valley Authority (the licensee) dated May 8, 1985, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter J;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
- Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 2.C(2) of Facility Operating License No. DPR-52 is hereby amended to read as follows:

(2) <u>Technical Specifications</u>

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 119, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective 90 days from the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Domenic B. Vassallo, Chief Operating Reactors Branch #2

Division of Licensing

Attachment: Changes to the Technical Specifications

Date of Issuance: November 19, 1985

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ATTACHMENT TO LICENSE AMENDMENT NO. 119

FACILITY OPERATING LICENSE NO. DPR-52

DOCKET NO. 50-260

Revise Appendix A as follows:

1. Remove the following pages and replace with identically numbered pages.

324, 325

2. The marginal lines on these pages denote the areas being changed.

Amen	2	Station	Flow Required (gpm)	Residual Pressure' (psig).
Amendment	1. Re	eactor Building Roof		•
No.	A.		200	65
	В.	Valve 26-889	200	65
119	2. Re	efuel Floor	,	
	A	. Valve 26-835	75	70
	В		75	70
	C.	. Valve 26-870	75	70
	D.	• Valve 26-865	75	70
	E	. Valve 26-876	75	70
	F	Valve 26-888	75	70
t.)	G.	. Valve 26-898	75	70
324	3. Ca	able Tray Fixed Water Spray Systems (1)		
	A.	. Unit 1 - A,B,C & D	200	70
1		. Unit 1 - E & F	180	65
	C	Unit 1 - G & H	300	55
- 1	D.	- Unit 1 - K & L	70 ·	65
- 1	E.	. Unit 1 - N, P, & Q	115	75
	F	Unit 2 - A & B	200	70
	G	Unit 2 - C, D, E & F	200	70
	H.		85	65
I	I.	Unit 2 - N, P, Q & R	120	60
	J.		200	70
	K	Unit 3 - C, D, E & F	265	75
		Unit 3 - J, K, L & M	135	75
1	M.	Unit 3 - N, P & Q	100	40
	N.	Turbine Building	30	55 [°]
	0.	Unit 3 - Diesel Generator Building	55	50
	4. Di	lesel Generator Buildings		:
	Α.	. Valve 26-1032	75	70
		Valve 26-1069	75	70 70

<u> </u>	Station	Flow Required (GPM)	: Residual Pressure (PSIG)
5.	Pump Intake Station	•	
	A. Valve 26-578	75	70
6.	Control Bay		
	A. Valve 26-1076	75	70
7.	Yard Loop (2)		
	A. Hydrant at Valve 0-26-526 B. Hydrant at Valve 0-26-530	500 500	65 65
8.	Cooling Tower Loop		
	A. Hydrant at Valve 0-26-1023-6	500	65

- Note (1) Cable tray fixed water spray systems are to be tested simultaneously with one 1½-inch hose station.
- Note (2) Yard hydrants and the cooling tower hydrant are to be tested using the longest path for flow.



UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

TENNESSEE VALLEY AUTHORITY

DOCKET NO. 50-296

BROWNS FERRY NUCLEAR PLANT, UNIT 3

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 95 License No. DPR-68

- 1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Tennessee Valley Authority (the licensee) dated May 8, 1985, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter J;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
- 2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 2.C(2) of Facility Operating License No. DPR-68 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 95, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective 90 days from the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Domenic B. Vassallo, Chief Operating Reactors Branch #2

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Division of Licensing

Attachment: Changes to the Technical Specifications

Date of Issuance: November 19, 1985

ATTACHMENT TO LICENSE AMENDMENT NO. 95 FACILITY OPERATING LICENSE NO. DPR-68 DOCKET NO. 50-296

Revise Appendix A as follows:

1. Remove the following pages and replace with identically numbered pages.

355a, 355b

2. The marginal lines on these pages denote the area being changed.

Station Flow Required (gpm) Residual Pressure	Residual Pressure (psig)
A. Valve 26-849 B. Valve 26-889 2. Refuel Floor A. Valve 26-835 B. Valve 26-833 A. Valve 26-833 B. Valve 26-843 A. Valve 26-865 B. Valve 26-865 B. Valve 26-865 A. Valve 26-888 A. Valve 26-876 A. Valve 26-876 A. Valve 26-888 A. Valve 26-876 A. Valve 26-876 A. Valve 26-876 A. Valve 26-888 A. Valve 26-875 A. Valve 26-875 A. Valve 26-875 A. Valve 26-888 A. Valve 26-875 A. Valve 26-875 A. Valve 26-875 A. Valve 26-888 A. Valve 26-875 A. Valve 26-875 A. Valve 26-875 A. Valve 26-888 A. Valve 26-875 A. Valve 26-	
2. Refuel Floor A. Valve 26-835 B. Valve 26-843 C. Valve 26-870 D. Valve 26-876 F. Valve 26-865 F. Valve 26-888 F. Valve 26-888 F. Valve 26-898 3. Cable Tray Fixed Water Spray Systems (1) A. Unit 1 - A,B,C & D B. Unit 1 - E & F B. Unit 1 - E & F B. Unit 1 - F & C B. Unit 2 - F & C B. Unit 2 - F & C B. Unit 3 - F & C B. Unit 1 - F &	
A. Valve 26-835 B. Valve 26-843 C. Valve 26-843 C. Valve 26-870 D. Valve 26-855 F. Valve 26-876 E. Valve 26-876 F. Valve 26-888 F. Valve 26-898 F. Valve 26-876 F. Valve 26-876 F. Valve 26-876 F. Valve 26-876 F. Valve 26-878 F. Valve 26-87	
B. Valve 26-843 C. Valve 26-870 D. Valve 26-870 F. Valve 26-876 F. Valve 26-876 F. Valve 26-888 C. Valve 26-898 3. Cable Tray Fixed Water Spray Systems (1) 3. Cable Tray Fixed Water Spray Systems (1) A. Unit 1 - A,B,C & D B. Unit 1 - E & F B. Unit 1 - E & F C. Unit 1 - G & H D. Unit 1 - K & L F. Unit 1 - N, P, & Q F. Unit 2 - A & B C. Unit 2 - C, D, E & F D. Unit 3 - A & B F. Unit 3 - C, D, E & F L. Unit 3 - J, K, L & M M. Unit 3 - D, P & Q N. Turbine Building O. Unit 3 - Diesel Generator Building 4. Diesel Generator Building 55 77 78 75 76 77 78 79 70 70 70 70 70 70 70 70 70	
C. Valve 26-870 D. Valve 26-865 E. Valve 26-865 F. Valve 26-888 G. Valve 26-888 G. Valve 26-898 3. Cable Tray Fixed Water Spray Systems (1) A. Unit 1 - A,B,C & D B. Unit 1 - E & F C. Unit 1 - G & H 300 55 D. Unit 1 - K & L F. Unit 1 - N, P, & Q H. Unit 2 - A, & B G. Unit 2 - C, D, E & F L. Unit 3 - A & B K. Unit 3 - A, E & Q N. Turbine Building O. Unit 3 - Diesel Generator Buildings	
D. Valve 26-865 E. Valve 26-876 F. Valve 26-888 G. Valve 26-898 75 70 3. Cable Tray Fixed Water Spray Systems (1) A. Unit 1 - A,B,C & D B. Unit 1 - E & F C. Unit 1 - G & H D. Unit 1 - K & L E. Unit 1 - N, P, & Q G. Unit 2 - A & B G. Unit 2 - J, K & L I. Unit 2 - J, K & L I. Unit 2 - N, P, Q & R J. Unit 3 - A & B K. Unit 3 - C, D, E & F M. Unit 3 - N, P & Q N. Turbine Building O. Unit 3 - Diesel Generator Buildings	
E. Valve 26-876 F. Valve 26-888 G. Valve 26-898 3. Cable Tray Fixed Water Spray Systems (1) A. Unit 1 - A,B,C & D B. Unit 1 - E & F C. Unit 1 - E & F 180 65 C. Unit 1 - E & E 180 65 D. Unit 1 - E & E 180 65 E. Unit 1 - N, P, & Q 115 F. Unit 2 - A & B C. Unit 2 - C, D, E & F 180 65 E. Unit 2 - J, K & L 85 G. Unit 2 - J, K & L 100 H. Unit 2 - J, F, Q & R 110 J. Unit 3 - A & B K. Unit 3 - C, D, E & F L. Unit 3 - N, P & Q N. Turbine Building O. Unit 3 - Diesel Generator Buildings	
F. Valve 26-888 G. Valve 26-898 75 70 3. Cable Tray Fixed Water Spray Systems (1) A. Unit 1 - A,B,C & D B. Unit 1 - E & F C. Unit 1 - G & H D. Unit 1 - K & L E. Unit 1 - N, P, & Q F. Unit 2 - A & B G. Unit 2 - C, D, E & F L. Unit 3 - A & B K. Unit 3 - A & B K. Unit 3 - N, P & Q N. Turbine Building O. Unit 3 - Diesel Generator Building 4. Diesel Generator Buildings	
G. Valve 26-898 3. Cable Tray Fixed Water Spray Systems (1) A. Unit 1 - A,B,C & D B. Unit 1 - E & F C. Unit 1 - G & H D. Unit 1 - K & L F. Unit 1 - N, P, & Q G. Unit 2 - A, B B C. Unit 2 - G, D, E & F L. Unit 3 - A & B M. Unit 3 - A & B M. Unit 3 - N, P & Q N. Turbine Building O. Unit 3 - Diesel Generator Buildings 75 76 77 78 79 200 70 70 70 70 70 70 70 70 7	
3. Cable Tray Fixed Water Spray Systems (1) A. Unit 1 - A,B,C & D B. Unit 1 - E & F C. Unit 1 - G & H D. Unit 1 - K & L E. Unit 1 - N, P, & Q G. Unit 2 - A & B G. Unit 2 - G, D, E & F I. Unit 2 - J, K & L I. Unit 3 - A & B X. Unit 3 - C, D, E & F L. Unit 3 - J, K, L & M N. Unit 3 - N, P & Q N. Turbine Building O. Unit 3 - Diesel Generator Buildings	
A. Unit 1 - A,B,C & D B. Unit 1 - E & F C. Unit 1 - G & H D. Unit 1 - N, P, & Q E. Unit 1 - N, P, & Q Unit 2 - A & B C. Unit 2 - J, K & L I. Unit 2 - N, P, Q & R J. Unit 3 - A & B K. Unit 3 - C, D, E & F L. Unit 3 - N, P & Q N. Turbine Building O. Unit 3 - Diesel Generator Buildings 200 70 70 70 70 70 70 70 70 7	
C. Unit 1 - G & H O. Unit 1 - G & H O. Unit 1 - K & L E. Unit 1 - N, P, & Q E. Unit 1 - N, P, & Q F. Unit 2 - A & B O. Unit 2 - C, D, E & F O. Unit 2 - J, K & L O. Unit 2 - N, P, Q & R O. Unit 3 - A & B O. Unit 3 - C, D, E & F O. Unit 3 - N, P & Q N. Turbine Building O. Unit 3 - Diesel Generator Building 4. Diesel Generator Buildings	
C. Unit 1 - G & H O. Unit 1 - G & H O. Unit 1 - K & L E. Unit 1 - N, P, & Q E. Unit 1 - N, P, & Q F. Unit 2 - A & B O. Unit 2 - C, D, E & F O. Unit 2 - J, K & L O. Unit 2 - N, P, Q & R O. Unit 3 - A & B O. Unit 3 - C, D, E & F O. Unit 3 - N, P & Q N. Turbine Building O. Unit 3 - Diesel Generator Building 4. Diesel Generator Buildings	
C. Unit 1 - G & H O. Unit 1 - G & H O. Unit 1 - K & L E. Unit 1 - N, P, & Q E. Unit 1 - N, P, & Q F. Unit 2 - A & B O. Unit 2 - C, D, E & F O. Unit 2 - J, K & L O. Unit 2 - N, P, Q & R O. Unit 3 - A & B O. Unit 3 - C, D, E & F O. Unit 3 - N, P & Q N. Turbine Building O. Unit 3 - Diesel Generator Building 4. Diesel Generator Buildings	
D. Unit 1 - K & L E. Unit 1 - N, P, & Q F. Unit 2 - A & B C. Unit 2 - C, D, E & F H. Unit 2 - J, K & L S	
E. Unit 1 - N, P, & Q F. Unit 2 - A & B C. Unit 2 - C, D, E & F C. Unit 2 - J, K & L F. Unit 2 - J, K & L F. Unit 2 - J, K & L F. Unit 3 - A & B F. Unit 3 - A & B F. Unit 3 - A & B F. Unit 3 - C, D, E & F F. Unit 3 - J, K, L & M F. Unit 3 - N, P & Q F. Unit 3 - N, P & Q F. Unit 3 - N, P & Q F. Unit 3 - Diesel Generator Building	
F. Unit 2 - A & B G. Unit 2 - C, D, E & F H. Unit 2 - J, K & L H. Unit 2 - N, P, Q & R J. Unit 3 - A & B K. Unit 3 - C, D, E & F L. Unit 3 - J, K, L & M N. Turbine Building O. Unit 3 - Diesel Generator Building 4. Diesel Generator Buildings	
G. Unit 2 - C, D, E & F H. Unit 2 - J, K & L I. Unit 2 - N, P, Q & R J. Unit 3 - A & B K. Unit 3 - C, D, E & F L. Unit 3 - J, K, L & M N. Turbine Building O. Unit 3 - Diesel Generator Building 4. Diesel Generator Buildings	
H. Unit 2 - J, K & L I. Unit 2 - N, P, Q & R J. Unit 3 - A & B K. Unit 3 - C, D, E & F L. Unit 3 - J, K, L & M N. Unit 3 - N, P & Q N. Turbine Building O. Unit 3 - Diesel Generator Building 4. Diesel Generator Buildings	
I. Unit 2 - N, P, Q & R J. Unit 3 - A & B 200 K. Unit 3 - C, D, E & F L. Unit 3 - J, K, L & M N. Unit 3 - N, P & Q N. Turbine Building O. Unit 3 - Diesel Generator Building 4. Diesel Generator Buildings	
J. Unit 3 - A & B K. Unit 3 - C, D, E & F L. Unit 3 - J, K, L & M N. Unit 3 - N, P & Q N. Turbine Building O. Unit 3 - Diesel Generator Building 4. Diesel Generator Buildings	
K. Unit 3 - C, D, E & F L. Unit 3 - J, K, L & M 135 M. Unit 3 - N, P & Q 100 N. Turbine Building 0. Unit 3 - Diesel Generator Building 55 4. Diesel Generator Buildings	
L. Unit 3 - J, K, L & M M. Unit 3 - N, P & Q N. Turbine Building O. Unit 3 - Diesel Generator Building 4. Diesel Generator Buildings	
M. Unit 3 - N, P & Q 100 40 N. Turbine Building 30 55 O. Unit 3 - Diesel Generator Building 55 50 4. Diesel Generator Buildings	
N. Turbine Building 30 55 O. Unit 3 - Diesel Generator Building 55 50 4. Diesel Generator Buildings	
0. Unit 3 - Diesel Generator Building 55 50 4. Diesel Generator Buildings	
4. Diesel Generator Dullungs	i.
A. Valve 26-1032 75 70	•
B. Valve 26-1069 75 70	

men		Station	Flow Required (GPM)	Residual Pressure (PSIG)
mendment	5.	Pump Intake Station		
Z 2		A. Valve 26-578	75	70
O 7	6.	Control Bay		
		A. Valve 26-1076	75	70
	7.	Yard Loop (2)		
·		A. Hydrant at Valve 0-26-526 B. Hydrant at Valve 0-26-530	500 500	65 65
	8.	Cooling Tower Loop		
ລ ກ ກ		A. Hydrant at Valve 0-26-1023-6	500	65

- Note (1) Cable tray fixed water spray systems are to be tested simultaneously with one light hose station.
- Note (2) Yard hydrants and the cooling tower hydrant are to be tested using the longest path for flow.