



THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

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MURRAY R. EDELMAN
VICE PRESIDENT
NUCLEAR

October 2, 1984
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Mr. B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, DC 20555

Perry Nuclear Power Plant
Docket Nos. 50-440; 50-441
Safety-Related Systems
Preoperational Test Requirements

Dear Mr. Youngblood:

This letter provides the requested clarification of the preoperational test requirements for safety related systems at the Perry Nuclear Power Plant. As requested, Attachment 1 to this letter identifies each of the safety related systems and the FSAR reference section where testing requirements are discussed. This is only a partial listing of the tests described in FSAR Chapter 14 and of all the tests included in the initial test program. (It should be noted that the list includes some items which are actually components, structures or integrated systems and their associated test requirement references).

All of these items listed in Attachment 1 are already included in the initial test program as preoperational tests or will be included in the FSAR as noted. This information supports the staff's conclusions in the SER that the initial test program meets the acceptance criteria of Section 14.2 of NUREG-0800. If you have any questions, please let us know.

Very truly yours,

Murray R. Edelman
Vice President
Nuclear Group

MRE:njc

Attachment

cc: Jay Silberg, Esq.
John Stefano
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FSAR PREOPERATIONAL TEST REFERENCES FOR SAFETY RELATED SYSTEMS

<u>MPL</u>	<u>SYSTEM</u>	<u>FSAR REF.</u>
B13	Reactor System (Internals)	14.2.12.1.33
B21	Nuclear Boiler	14.2.12.1.1
B33	Reactor Recirculation	14.2.12.1.2
C11	Containment Rod Drive Hydraulic Cont. Rod Control & Information	14.2.12.1.3 14.2.12.1.50
C22	Redundant Reactivity Control	Note 1, 2
C34	Feedwater Control	14.2.12.1.4
C41	Standby Liquid Control	14.2.12.1.5
C51	Neutron Monitoring (SRM, IRM, LPRM, & APRM) Transversing Incore Probe	14.2.12.1.6 14.2.12.1.7
C61	Remote Reactor Shutdown Division 2 Remote Shutdown	14.2.12.1.8 Note 1, 2
C71	Reactor Protection	14.2.12.1.9
D17A	Process Radiation Monitoring	14.2.12.1.10
D19	Post Accident Radiation Monitoring	Note 1, 2
D21	Area Radiation Monitoring	14.2.12.1.11
D23	Containment Atmosphere Monitoring	14.2.12.1.12
E12	Residual Heat Removal (includes FWLCS portion)	14.2.12.1.13
E15	Containment Spray	14.2.12.1.13.c.4
E21	Low Pressure Core Spray (includes FWLCS portion)	14.2.12.1.14
E22	High Pressure Core Spray	14.2.12.1.15
E31	Leak Detection	14.2.12.1.16
E32	MSIV Leakage Control	14.2.12.1.17

E51	Reactor Core Isolation Cooling	14.2.12.1.18 & 6.2.6.3
E53	Containment Isolation	14.2.12.1.1.c.5 and 6.2.6.3
E61	Integrated Leak Rate Test	6.2.6.1
	Local Leak Test Rate	6.2.6.2
	ILRT Instrumentation	14.2.12.1.53
	Containment Structural Integrity Test	3.8.2.7.1
E62	Drywell Leak Test	6.2.6.5.1
E64	Shield Building Leak Rate Test	14.2.12.1.43
E66	Drywell Structure Integrity Test	14.2.12.1.44
E67	Control Room Leakage	14.2.12.1.25
E68	System Vibration Testing	3.9.2.1
F11	Fuel Servicing Equipment	14.2.12.1.45
F13	Reactor Vessel Servicing Equipment	14.2.12.1.45
F14	In-Vessel Servicing Equipment	14.2.12.1.45
F15	Refueling Equipment	14.2.12.1.45
F16	Storage Equipment	14.2.12.1.45
F42	Fuel Transfer Equipment	14.2.12.1.19
G33	Reactor Water Cleanup	14.2.12.1.20
G41	Fuel Pool Cool and Cleanup	14.2.12.1.21
G43	Suppression Pool Makeup	14.2.12.1.22
L51	Reactor Building Polar Crane	14.2.12.1.51
	and Fuel Handling Area Crane	14.2.12.1.52
M15	Annulus Exhaust Gas Treatment	14.2.12.1.24
M16	Drywell Vacuum Relief	14.2.12.1.46
M17	Containment Vacuum Relief	14.2.12.1.47
M23	MCC Switchgear & Misc. Area HVAC	14.2.12.1.35
M24	Battery Room Exhaust	14.2.12.1.35

M25	Control Room HVAC	14.2.12.1.25
M26	Control Room Emergency Recirculation	14.2.12.1.25
M28	Emergency Pump Area Cooling	14.2.12.1.36
M32	Emergency Service Water Pump House Ventilation	14.2.12.1.37
M36	Off-Gas Building Exhaust	14.2.12.1.38
M39	ECCS Pump Room Cooling	14.2.12.1.39
M40	Fuel Handling Area Ventilation	14.2.12.1.40
M43	Diesel Generator Building Ventilation	14.2.12.1.26
M51	Combustible Gas Control	14.2.12.1.41
M56	Hydrogen Control	Note 1
P41	Service Water Cooling Tower Makeup Isolation Valves	Note 2
P42	Emergency Closed Cooling	14.2.12.1.28
P45	Emergency Service Water	14.2.12.1.29
P47	Control Complex Chilled Water	14.2.12.1.42
P49	Emergency Service Water Screen Wash	Note 2
P53	Penetration Pressurization	Note 3 & 6.2.6.2
	Personnel Airlock Leakage Control System	Note 3 & 6.2.6.2
P57	Safety-Related Instrument Air	14.2.12.1.48
P72	Plant Underdrain System	14.2.12.1.34
P87	Post Accident Sampling	9.3.6.4 & Note 4
R14A	Class 1E Uninterruptable Power Supply (RRCS)	Note 1, 2
R22	Metal Clad Switchgear	14.2.12.1.49
R23	480 Volt Load Centers	14.2.12.1.49
R24	Motor Control Centers	14.2.12.1.49
R25	Dist. Panels - 120, 240, & 480 V	14.2.12.1.49
R42	Class 1E 125 Volt DC	14.2.12.1.30
R43	Standby Diesel Generator	14.2.12.1.31
R44	Standby Diesel Generator Starting Air	14.2.12.1.31

R45	Standby Diesel Generator Fuel Oil	14.2.12.1.31
R46	Standby Diesel Generator Jacket Water Cooling	14.2.12.1.31
R47	Standby Diesel Generator Lube Oil	14.2.12.1.31
R48	Standby Diesel Generator Exhaust/Intake/Crankcase	14.2.12.1.31
R71	Emergency Lighting	Note 2
R76	ECCS Integrated Initiation with LOSP	14.2.12.1.32

- NOTES:
1. New or revised system as a result of changed regulatory requirements.
 2. Test abstract will be added to FSAR Chapter 14 in a future amendment.
 3. The safety-related portion of other systems (ie., containment isolation) is included in elements of B21 and E53 tests.
 4. Safety-related portion of Post Accident Sampling System (out to first isolation valve) included in process system test.