#### APPENDIX A

### STARTUP TEST PROGRAM INSPECTION PROCEDURES

This Appendix identifies the general and specific inspection procedures that are applicable during the startup testing phase of the Light Water Reactor Inspection Program.

Inspection Procedure					
Number	Inspection Procedure Title				
	<u>General</u>				
35501	QA for Startup Test Program				
64100	Postfire Safe Shutdown, Emergency Lighting and Oil Collection Capability at Operating and Near-Term Operating Reactor Facilities				
72300	Startup Test Procedure Review <sup>1</sup>				
72301	Startup Test Results Evaluation <sup>1</sup>				
70302	Startup Test Witnessing and Observation 1				
72400	Overall Startup Test Program				
72500	Initial Fuel Loading Procedure Review				
72524	Initial Fuel Loading Witnessing				
81000 Series	Security and Safeguards <sup>2</sup>				
83521	Radiation Protection - Startup				
84521	Radwaste - Startup				
90501	Reportable Matters - Test Program				
93806	Operational Readiness Asessment Team Inspections				

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<sup>&</sup>lt;sup>1</sup> Generic Procedure referenced by other inspection procedures within MC 2514.

<sup>&</sup>lt;sup>2</sup> As Scheduled under MC 2515.

Inspection
Procedure
Number Inspection Procedure Title

Inspection Procedure <u>Number</u>
Number

### Inspection Procedure Title

Pressurized	Water	Reactor	(PWR)

- 72564 Precritical Test Procedure Review (Protective Trip Circuit, Group B, and Rod Drop Measurement, Group A)
- 72566 Precritical Test Procedure Review (RCS Leak Test, Group A, and Pressurizer Effectiveness, Group B)
- 72570 Initial Criticality Procedure Review (Group A and B)
- 72572 Low Power Test Procedure Review (Moderator Temperature Coefficient Measurement and Boron Reactivity Worth, Group B, and Rod Worth and Pseudo Rod Ejection, Group A)
- 72576 Power Ascension Test Procedure Review (Natural Circulation, Group A, and Power Reactivity Coefficient Measurement, Group B)
- 72578 Power Ascension Test Procedure Review (Evaluation of Core Performance) (Group A and B)
- 72580 Power Ascension Test Procedure Review (Turbine Trip, Group B, and Generator Trip, Group A)
- 72582 Power Ascension Test Procedure Review: Loss of Offsite
  Power (Group A and B)
- 72583 Power Ascension Test Procedure Review: Shutdown from Outside the Control Room (Group B)
- 72584 Power Ascension Procedure Review (Evaluation of Flux Asymmetry or Pseudo Rod Ejection Test) (Group A)
- 72592 Initial Criticality Witnessing
- 72596 Precritical Data Review
- 72600 Power Level Plateau Data Review (25%)
- 72608 Power Level Plateau Data Review (50%)
- 72616 Power Level Plateau Data Review (75%)
- 72624 Power Level Plateau Data Review (100%)

#### Boiling Water Reactor (BWR)

- 72502 Initial Criticality Procedure Review (Group A and B)
- 72504 Heatup Phase Procedures Review

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Inspection Procedure <u>Number</u>	Inspection Procedure Title
72508	Power Ascension Procedure Review: HPCI System (Group A)
72509	Power Ascension Procedure Review: Control Rod Drive Systems (Group A and B)
72510	Power Ascension Procedure Review (Relief Valves, Group A, and MSIVs, Group B)
72512	Startup Test Procedure Review (RCIC and Recirculation Pump) (Group B)
72514	Startup Test Procedure Review (Turbine Trip, Group A, and Generator Trip, Group B)
72516	Startup Test Procedure Review: Shutdown from Outside the Control Room (Group A)
72517	Startup Test Procedure Review: Loss of Offsite Power (Group A and B)
72518	Startup Test Procedure Review (Core Performance) (Group A and B)
72526	Initial Criticality Witnessing
72532	Power Level Plateau Data Review and Evaluation

END

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### TABLE I

# TEST CATEGORIES, TEST DESCRIPTION, AND INSPECTION REQUIREMENTS

<u>Category Test Description</u> <u>Inspection Requirements</u>

I	Tests on those systems o	r	Ascertain that
evaluatio	subsystems that directly prevent unsafe conditions or that mitigate the consequences of accidents.		procedures exist for all tests. Review of test procedures, test witnessing, and
	••	done Grou (see	test results shall be for either Group A or up B, Category I tests a Table II). In addition, anced test observation
and			data review are required power ascension tests.
II	Tests on those systems or subsystems whose failure to operate properly will re- quire action from a system		Ascertain that approved procedures exist for all tests. Evaluate the results of 50% of the
tests evalua-	or subsystem tested in		and determine that
licensee	Category I to prevent or		tions made by the
tests	mitigate an unsafe condition	٠.	for the remaining
			icate satisfactory ults.
III that	Tests on those systems or subsystems whose failure to		Ascertain that approved procedures exist and
	operate properly will have a <u>lesser</u> safety significance than for systems or sub-		evaluations made by the licensee indicate satisfactory test
results.	systems in Categories I or I	ī.	
IV are	Tests on those systems or		Tests of these systems
0	subsystems not significantly related to safety.	•	not included in the inspection program.

## TABLE II

## STARTUP TEST GROUPS

(Category I Tests)

# <u>BWR</u>

<u>Group A</u>	<u>Group B</u>	<u>Reference*</u>	Inspection Procedure
X	X	<b>-</b> 1-	Initial Criticality (72502)
X	37	5k	HPCI (72508)
	X	2b	Control Rod Drive System (72509)
X		5c	Relief Valves (72510)
	X	5u	MSIVs (72510)
	X	5ii	Recirculation Pump Trip
			(72512)
	X	5k	RCIC (72512)
X		511	Turbine Trip (72514)
	X	5m	Generator Trip (72514)
X		5dd	Shutdown from Outside
the			Control Room (72583)
X	X	5jj	Loss of Offsite Power
(72517)			
X	X	4b	Core Performance (72518)
			<u>PWR</u>
	37	0	Destant in Mai Ginn it and
	X	2c	Protective Trip Circuit and
37		01-	Manual Scram (72564)
X (72564)		2b	Rod Drop Measurements
(72564)		24	Donator Coolant Cristom Look
X		2d	Reactor Coolant System Leak
	v	15	Test (72566) Pressurizer Effectiveness
	X	4p	
X	X		(72566)
Λ	X	4a	Initial Criticality (72570) Moderator Temperature
Coeffi-	Λ	4a	Moderator remperature
COGILI-			cient Measurement (72572)
X		4b	Rod Worth (72572)
Λ	X	4b 4a	Boron Reactivity Worth
	Λ	на	Measurements (72572)
X		4c	Pseudo Rod Ejection (72572)
X		4t	Natural Circulation (72576)
21	X	5a	Power Reactivity Coefficient
	21	Ja	(72576)
X	X	4e	Core Performance (72578)
X	21	5m	Generator Trip (72580)
25	X	511	Turbine Trip (72580)
	X	5dd	Shutdown from Outside
Control	25	344	SHACAOWH LIOM OACSIAE
COLLCTOT			Room (72583)
X		4e	Flux Asymmetry (72584)
X	X	5jj	Loss of Offsite Power
(72582)	25	ر ر د	HODD OF OFFDICE FOWER
(14304)			

\* Regulatory Guide 1.68, Revision 2, Appendices A, B, and C.

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