industry/151F Standard Technical Specification Change Traveler								
Revise the Applicability for the Intermediate Range Neutron Flux Specification								
Classification: 1	Correct Specifica	ntions	_					
NUREGs Affected	: 🔽 1430 🔲	1431 🗆	1432		1433		1434	
Description:								
								ent channel is required in MODE 2 the CRD System capable of rod
Justification:								
of the applicable M Without the addition intermediate range Applicability criter	MODES for the request on of the appropriate channel would be in. Such a required provide indication	uired intermented MODES to required at a sement would on of neutron	ediate ra o the sec all times be incom a power	inge i cond in M isiste while	instrum statemed SODE 1 int with coperate	ent content of since the content of	channel a f the App ce all of I design of at low po	is made to maintain the upper limit as being MODE 2 or 5% RTP. plicability for ITS 3.3.10, an MODE 1 meets the second the intermediate range instrument wer levels (MODE 2). The required in MODE 1.
Industry Contact:	Clarkson, Noel			(864	1) 855-3	3077		ntclarks@duke-energy.com
NRC Contact:	Schulten, Carl			301-	-314-11	92		css1@nrc.gov
Revision Histor	У		* - -					
OG Revision 0		Revision	Status	s: A	ctive		N	lext Action: NRC
Revision I	Proposed by: AN	O-1						
Revision I Original I	Description: ssue							
Owners	Group Review	/ Informati	ion					
Date Originated by OG: 09-Mar-98								
Owners G ANO-1-05	roup Comments							
Owners G	roup Resolution:	Approved	Date:	: 09	-Mar-9	8		
TSTF R	eview Informa	tion						
TSTF Received Date: 09-Mar-98 Date Distributed for Review 28-May-98								
OG Review Completed: ☑ BWOG ☑ WOG ☑ CEOG ☑ BWROG								
TSTF Con BWOG Or								
TSTF Reso	•	ed Date:	10-Jul	-98				
NRC Re	view Informat	ion						
NRC Rece		Nov-98	NRC	Rev	riewer:			
NRC Com	ments:							

(BWOG-91, Rev. 0)

TSTF-291

OG Revision 0

Revision Status: Active

Next Action: NRC

(No Comments)

Final Resolution:

NRC Action Pending

Final Resolution Date:

Incorporation Into the NUREGs

File to BBS/LAN Date:

TSTF Informed Date:

TSTF Approved Date:

NUREG Rev Incorporated:

Affected Technical Specifications

Appl. 3.3.10

Intermediate Range Neutron Flux

Appl. 3.3.10 Bases

Intermediate Range Neutron Flux

TSTF-291

3.3 INSTRUMENTATION

3.3.10 Intermediate Range Neutron Flux

LCO 3.3.10 Two intermediate range neutron flux channels shall be OPERABLE.

APPLICABILITY:

MODE 2. MODES 3, 4, and 5 with

When any CONTROL ROD drive (CRD) trip breaker is in the closed position and the CRD System is capable of rod withdrawal.

ACTIONS

CONDITION			REQUIRED ACTION	COMPLETION TIME	
Α.	One channel inoperable.	A.1	Reduce THERMAL POWER to < 1E-10 amp.	2 hours	
В.	Two channels inoperable.	B.1	Suspend operations involving positive reactivity changes.	Immediately	
		AND			
		B.2	Open CRD trip breakers.	1 hour	

SURVEILLANCE REQUIREMENTS

	SURVEILLANCE	FREQUENCY
SR 3.3.10.1	Perform CHANNEL CHECK.	12 hours

(continued)

BASES

(continued)

neutron flux transients that could result in reactor trip during power escalation.

APPLICABILITY

in MODES

3, 4, and 5

with

The intermediate range neutron flux channels shall be OPERABLE in MODE 2 and when any CONTROL ROD drive (CRD) trip breaker in the closed position and the CRD System capable of rod withdrawal.

The intermediate range instrumentation is designed to detect power changes during initial criticality and power escalation when the power range and source range instrumentation cannot provide reliable indications. Since those conditions can exist in all of these MODES, the intermediate range instrumentation must be OPERABLE.

ACTIONS

A. 1

If one intermediate range channel becomes inoperable when the channels indicate 1E-10 amp, the unit is exposed to the possibility that a single failure will disable all neutron monitoring instrumentation. To avoid this, the inoperable channel must be repaired or power must be reduced to the point where source range channels can provide neutron flux indication. Completion of Required Action A.1 places the unit in this state, and LCO 3.3.9, "Source Range Neutron Flux," requires OPERABILITY of two source range detectors once this state is reached. If the one channel failure occurs when indicated power is < 1E-10 amp, the Required Action prohibits increases in power above the source range capability.

The 2 hour Completion Time allows controlled reduction of power into the source range and is based on unit operating experience that demonstrates the improbability of the second intermediate range channel failing during the allowed interval.

B.1 and **B.2**

With two intermediate range neutron flux channels inoperable when THERMAL POWER is \leq 5% RTP, the operators must place the

(continued)