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May 3, 2004

U. S. Nuclear Regulatory Commission Washington, DC 20555-0001 ATTENTION: Document Control Desk

SUBJECT: Duke Energy Corporation McGuire Nuclear Station Units 1 and 2 Docket Nos. 50-369, 50-370

> Supplement to License Amendment Request for McGuire Technical Specifications 3.3.2, Engineered Safety Features Actuation System

In a letter to Duke Energy Corporation (Duke) dated March 16, 2004, the NRC issued Amendments Nos. 220/202 for the McGuire Nuclear Station, Units 1 and 2, Facility Operating Licenses and Technical Specifications. During the implementation of these amendments, Duke discovered an administrative alignment problem on Page 3.3.2-12 of this amendment package. Attachments 1 and 2 contain the corrected Page 3.3.2-12 in marked-up and reprinted versions. Duke is requesting that the NRC re-issue the corrected Page 3.3.2-12 in a timely manner, such that the implementation of these amendments can proceed.

Inquiries on this matter should be directed to J. S. Warren at (704) 875-5171.

Very truly yours,

G. R. Peterson

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xc w/Attachments:

W. D. Travers, Regional Administrator
U. S. Nuclear Regulatory Commission, Region II
Atlanta Federal Center
61 Forsyth St., SW, Suite 23T85
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J. J. Shea (Addressee Only) NRC Senior Project Manager (MNS) U. S. Nuclear Regulatory Commission Mail Stop O-7 D11 Washington, DC 20555-0001

J. B. Brady Senior Resident Inspector U. S. Nuclear Regulatory Commission McGuire Nuclear Site

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G. R. Peterson, affirms that he is the person who subscribed his name to the foregoing statement, and that all the matters and facts set forth herein are true and correct to the best of his knowledge.

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G. R. Peterson, Site Vice President

Subscribed and sworn to me: May 3, 2004

Juda K. Crump, Notary Public



ssion expires: <u>August 17, 2006</u> Date

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Attachment 1

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McGuire Units 1 and 2 Technical Specifications

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## **ESFAS** Instrumentation 3.3.2

Table 3.3.2-1 (page 3 of 5)           Engineered Safety Feature Actuation System Instrumentation						I		
	F	UNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED	CONDITIONS	SURVEILLANCE REQUIREMENTS	ALLOWABLE VALUE	NOMINAL TRIP SETPOINT
4.	Stea (cont	m Line Isolation tinued)					•	
		(2) Negative Rate - High	3(p)(c)	3 per steam line	D	SR 3.3.2.1 SR 3.3.2.5 SR 3.3.2.8 SR 3.3.2.9	≤ 120 <sup>(d)</sup> psi	100 <sup>(d)</sup> .psi
5.	Turbine Trip and Feedwater Isolation							
	a.	Turbine Trip	<u> </u>	2 trains	I	SR 3.3.2.2 SR 3.3.2.4	NA	NA
		Actuation Logic and Actuation Relays				SH 3.3.2.0		
		(2) SG Water Level-High High (P-14)	1,2	3 per SG	L	SR 3.3.2.1 SR 3.3.2.2 SR 3.3.2.4 SR 3.3.2.5 SR 3.3.2.6 SR 3.3.2.8 SR 3.3.2.9	<u>≤</u> 85.6%	83.9%
	(3) Safety Refer to Function 1 (Safety Injection) for all initiation functions and requirements. See item Injection 5.a.(1) for Applicable MODES.							
	b.	Feedwater Isolation						
		(1) Automatic Actuation Logic and Actuation Relays	<sub>1,2</sub> (e) <sub>, 3</sub> (e)	2 trains	н	SR 3.3.2.2 SR 3.3.2.4 SR 3.3.2.6-	NA ·	NA
	ł	(2) SG Water Level-High High (P-14)	1,2 <sup>(e)</sup> , 3 <sup>(e)</sup>	3 per SG	D	SR 3.3.2.1 SR 3.3.2.2 SR 3.3.2.4 SR 3.3.2.5 SR 3.3.2.6 SR 3.3.2.8 SR 3.3.2.9	<u>&lt;</u> 85.6	83.9%
								(continued)

(b) Except when all MSIVs are closed and de-activated.

Trip function automatically blocked above P-11 (Pressurizer Pressure) interlock and may be blocked below P-11 when Safety Injection Steam Line Pressure-Low is not blocked. (c)

Time constant utilized in the rate/lag controller is  $\geq$  50 seconds. (d)

(e) Except when all MFIVs, MFCVs, and associated bypass valves are closed and de-activated or isolated by a closed manual valve.

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Attachment 2

1. 5

McGuire Units 1 and 2 Technical Specifications

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Table 3.3.2-1 (page 3 of 5)	
Engineered Safety Feature Actuation System Instrumentation	١

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4. Steam Line Isolation (continued)       (2) Negative Rate - High $3^{(b)(c)}$ 3 per steam line       D       SR 3.3.2.1 SR 3.3.2.5 SR 3.3.2.8 SR 3.3.2.9       ≤ $120^{(d)}$ psi $100^{(d)}$ psi         5. Turbine Trip and Feedwater Isolation       a.       Turbine Trip       1.2       2 trains       I       SR 3.3.2.2 SR 3.3.2.4       NA       NA         a.       Turbine Trip       1.2       2 trains       I       SR 3.3.2.4 SR 3.3.2.6       NA       NA         (1) Automatic Actuation Relays       1.2       3 per SG       J       SR 3.3.2.1 SR 3.3.2.6       ≤ 85.6%       83.9%         (2) SG Water Level-High High (P-14)       1.2       3 per SG       J       SR 3.3.2.2 SR 3.3.2.6 SR 3.3.2.6       ≤ 85.6%       83.9%         (3) Safety Injection       Refer to Function 1 (Safety Injection) for all initiation functions and requirements. See item 5.a.(1) for Applicable MODES.       SR 3.3.2.2 SR 3.3.2.6       NA       NA         b.       Feedwater Isolation Actuation Relays       1.2 <sup>(a)</sup> , 3 <sup>(a)</sup> 2 trains       H       SR 3.3.2.6 SR 3.3.2.6       NA       NA         (2) SG Water Isolation Relays       1.2 <sup>(a)</sup> , 3 <sup>(b)</sup> 3 per SG       D       SR 3.3.2.1 SR 3.3.2.6       ≤ 85.6       83.9%         (2) SG Water Isolation Relays       1.2 <sup>(a)</sup> , 3 <sup>(b)</sup> 3 per SG       D </th <th></th> <th>FUNCTION</th> <th>APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS</th> <th>REQUIRED CHANNELS</th> <th>CONDITIONS</th> <th>SURVEILLANCE REQUIREMENTS</th> <th>ALLOWABLE VALUE</th> <th>NOMINAL TRIP SETPOINT</th>		FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS	CONDITIONS	SURVEILLANCE REQUIREMENTS	ALLOWABLE VALUE	NOMINAL TRIP SETPOINT
	4.	Steam Line Isolation (continued)						
<ul> <li>Turbine Trip and Feedwater Isolation</li> <li>a. Turbine Trip</li> <li>(1) Automatic Actuation Relays</li> <li>(2) SG Water Level-High High (P-14)</li> <li>(3) Safety Injection</li> <li>(4) Sefer to Function 1 (Safety Injection) for all Initiation functions and requirements. See Item Sea (1) for Applicable MODES.</li> <li>(5) Feedwater Isolation</li> <li>(1) Automatic Actuation</li> <li>(2) SG Water Level-High High (P-14)</li> <li>(3) Safety Injection</li> <li>(4) Safety Injection</li> <li>(5) Feedwater Isolation</li> <li>(6) Safety Injection</li> <li>(7) Safety Injection</li> <li>(8) Safety Injection</li> <li>(9) Safety Injection</li> <li>(1) Automatic Actuation Actuation Actuation Actuation Actuation Actuation Actuation Injection</li> <li>(2) SG Water Isolation</li> <li>(2) SG Water Isolation</li> <li>(2) SG Water Isolation</li> <li>(2) SG Water Isolation</li> <li>(1) Automatic Actuation Actuation Actuation Actuation Actuation Actuation Actuation Actuation Actuation High (P-14)</li> <li>(2) SG Water Isolation</li> <li>(3) Safety Isolation</li> <li>(4) Automatic Isolation</li> <li>(5) Safety Isolation</li> <li>(7) Automatic Isolation</li> <li>(7) Automatisolation</li> <li>(7) Automatic Isolation</li> <li>(</li></ul>		(2) Negative Rate - High	<sub>З</sub> (b)(с)	3 per steam line	D	SR 3.3.2.1 SR 3.3.2.5 SR 3.3.2.8 SR 3.3.2.9	<u>≺</u> 120 <sup>(d)</sup> psi	100 <sup>(d)</sup> psi
a. Turbine Trip         (1) Automatic Actuation Logic and Actuation Relays       1,2       2 trains       I       SR 3.3.2.4 SR 3.3.2.6       NA       NA         (2) SG Water Level-High High (P-14)       1,2       3 per SG       J       SR 3.3.2.1 SR 3.3.2.4 SR 3.3.2.6 SR 3.3.2.4 SR 3.3.2.6       ≤ 85.6%       83.9%         (3) Safety Injection       Refer to Function 1 (Safety Injection) for all Initiation functions and requirements. See Item 5.a.(1) for Applicable MODES.       See 3.3.2.6 SR 3.3.2.6       See 1tem SR 3.3.2.6         b. Feedwater Isolation       1,2 <sup>(e)</sup> , 3 <sup>(e)</sup> 2 trains       H       SR 3.3.2.2 SR 3.3.2.6       NA       NA         (1) Automatic Actuation Relays       1,2 <sup>(e)</sup> , 3 <sup>(e)</sup> 2 trains       H       SR 3.3.2.2 SR 3.3.2.6       NA       NA         (2) SG Water Level-High High (P-14)       1,2 <sup>(e)</sup> , 3 <sup>(e)</sup> 3 per SG       D       SR 3.3.2.1 SR 3.3.2.6 SR 3.3.2.6       SA.6       83.9%         (2) SG Water Level-High High (P-14)       1,2 <sup>(e)</sup> , 3 <sup>(e)</sup> 3 per SG       D       SR 3.3.2.1 SR 3.3.2.6 SR	5.	Turbine Trip and Feedwater Isolation						
		a. Turbine Trip						
		(1) Automatic Actuation Logic and Actuation Relays	1,2	2 trains	I	SR 3.3.2.2 SR 3.3.2.4 SR 3.3.2.6	NA	NA
(3) Safety InjectionRefer to Function 1 (Safety Injection) for all initiation functions and requirements. See item 5.a.(1) for Applicable MODES.b. Feedwater Isolation1,2 <sup>(e)</sup> , 3 <sup>(e)</sup> 2 trainsHSR 3.3.2.2 SR 3.3.2.6NANA(1) Automatic Actuation Relays1,2 <sup>(e)</sup> , 3 <sup>(e)</sup> 2 trainsHSR 3.3.2.6 SR 3.3.2.6SR 3.3.2.6SR 3.3.2.6(2) SG Water Level-High High (P-14)1,2 <sup>(e)</sup> , 3 <sup>(e)</sup> 3 per SGDSR 3.3.2.1 SR 3.3.2.6 $\leq 85.6$ 83.9%(2) SG Water Level-High High (P-14)1,2 <sup>(e)</sup> , 3 <sup>(e)</sup> 3 per SGDSR 3.3.2.1 SR 3.3.2.6 $\leq 85.6$ 83.9%(continued)SR 3.3.2.6SR 3.3.2.6SR 3.3.2.6SR 3.3.2.6SR 3.3.2.6SR 3.3.2.6		(2) SG Water Level-High High (P-14)	1,2	3 per SG	J	SR 3.3.2.1 SR 3.3.2.2 SR 3.3.2.4 SR 3.3.2.5 SR 3.3.2.6 SR 3.3.2.8 SR 3.3.2.9	<u>≺</u> 85.6%	83.9%
b. Feedwater Isolation (1) Automatic Actuation Logic and Actuation Relays (2) SG Water Level-High High (P-14) (2) SG Water Level-High High (P-14) (3) SG Water Level-High High (P-14) (3) SG Water Level-High High (P-14) (4) SG Water Level-High High (P-14) (5) SG W		(3) Safety Refer to Function 1 (Safety Injection) for all initiation functions and requirements. See item Injection 5.a.(1) for Applicable MODES.						
$ \begin{array}{c ccc} (1) & \text{Automatic} & 1,2^{(e)},3^{(e)} & 2 \text{ trains} & H & SR 3.3.2.2 & NA & NA \\ & \text{Actuation} & & \text{Actuation} & & SR 3.3.2.6 \\ & \text{Actuation} & & \text{Relays} & & 1,2^{(e)},3^{(e)} & 3 \text{ per SG} & D & SR 3.3.2.1 & \leq 85.6 & 83.9\% \\ & \text{Level-High} & & H & SR 3.3.2.4 & & SR 3.3.2.2 & & \\ & \text{High (P-14)} & & SR 3.3.2.6 & & SR 3.3.2.6 & & \\ & \text{SR 3.3.2.6 } & & SR 3.3.2.6 & & \\ & \text{SR 3.3.2.6 } & & SR 3.3.2.6 & & \\ & \text{SR 3.3.2.6 } & & \text{SR 3.3.2.6 } & & \\ & \text{SR 3.3.2.6 } & & \text{SR 3.3.2.6 } & & \\ & \text{SR 3.3.2.6 } & & \text{SR 3.3.2.6 } & & \\ & \text{SR 3.3.2.6 } & & \text{SR 3.3.2.6 } & & \\ & \text{SR 3.3.2.6 } & & \text{SR 3.3.2.6 } & & \\ & \text{SR 3.3.2.6 } & & \text{SR 3.3.2.6 } & & \\ & \text{SR 3.3.2.6 } & & \text{SR 3.3.2.6 } & & \\ & \text{SR 3.3.2.6 } & & \text{SR 3.3.2.6 } & & \\ & \text{SR 3.3.2.6 } & & \text{SR 3.3.2.6 } & & \\ & \text{SR 3.3.2.6 } & & \text{SR 3.3.2.6 } & & \\ & \text{SR 3.3.2.6 } & & \text{SR 3.3.2.6 } & & \\ & \text{SR 3.3.2.6 } & & \text{SR 3.3.2.6 } & & \\ & \text{SR 3.3.2.6 } & & \text{SR 3.3.2.6 } & & \\ & \text{SR 3.3.2.6 } & & \text{SR 3.3.2.6 } & & \\ & \text{SR 3.3.2.6 } & & \text{SR 3.3.2.6 } & & \\ & \text{SR 3.3.2.6 } & & & \\ & SR 3.4$		b. Feedwater Isolation						
(2) SG Water 1,2 <sup>(e)</sup> , 3 <sup>(e)</sup> 3 per SG D SR 3.3.2.1 ≤ 85.6 83.9% Level-High High (P-14) SR 3.3.2.4 SR 3.3.2.5 SR 3.3.2.6 SR 3.3.2.8 SR 3.3.2.9 (continued)		(1) Automatic Actuation Logic and Actuation Relays	1,2 <sup>(e)</sup> , 3 <sup>(e)</sup>	2 trains	Н	SR 3.3.2.2 SR 3.3.2.4 SR 3.3.2.6	NA	NA
SR 3.3.2.9 (continued)		(2) SG Water Level-High High (P-14)	1,2 <sup>(e)</sup> , 3 <sup>(e)</sup>	3 per SG	D	SR 3.3.2.1 SR 3.3.2.2 SR 3.3.2.4 SR 3.3.2.5 SR 3.3.2.6 SR 3.3.2.8	<u>≺</u> 85.6	83.9%
						SR 3.3.2.9		(continued)

(b) Except when all MSIVs are closed and de-activated.
(c) Trip function automatically blocked above P-11 (Pressurizer Pressure) interlock and may be blocked below P-11 when Safety injection Steam Line Pressure-Low is not blocked.
(d) Time constant utilized in the rate/lag controller is ≥ 50 seconds.
(e) Except when all MFIVs, MFCVs, and associated bypass valves are closed and de-activated or isolated by a closed manual value.

valve.