



**James R. Morris**  
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**Duke Energy Corporation**  
Catawba Nuclear Station / CN01VP  
4800 Concord Road  
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10 CFR 50.90

March 31, 2011

**803-701-4251**

**803-701-3221**

*Jim.Morris@duke-energy.com*

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

**SUBJECT: Duke Energy Carolinas, LLC (Duke Energy)**

Catawba Nuclear Station (CNS), Units 1 and 2,  
CNS Docket Nos. 50-413, 50-414

Supplement for License Amendment Request to Revise Technical Specification (TS) 3.3.2, "Engineered Safety Feature Actuation System (ESFAS) Instrumentation" Removal of the Superseded TS and Bases Requirements

**REFERENCES:**

1. Letter from Duke Energy, LLC to U.S. NRC, Technical Specification (TS) 3.3.2, "Engineered Safety Feature Actuation System (ESFAS) Instrumentation" Removal of the Superseded TS and Bases Requirements, dated September 16, 2010.
2. Letter from U.S. NRC to Duke Energy, LLC, Catawba Nuclear Station, Units 1 and 2, Issuance of Amendments Regarding Revision of the Technical Specifications to Relocate Specific Surveillance Frequencies to a Licensee-Controlled Program Using a Risk-Informed Justification (TSTF-425), dated March 29, 2011 (TAC NOS. ME3722 AND ME3723).

This letter provides a supplemented request regarding the Duke Energy License Amendment Request (LAR) dated September 16, 2010 (Ref. 1) related to an administrative request to remove superseded TS. This request was conveyed via email to Jon Thompson on March 28, 2011.

Catawba Nuclear Station is requesting upon issuance of the subject amendment a 90-day implementation is allotted in lieu of the standard 30-day implementation grace period. This request is being asked on the basis of the issuance of TSTF-425 (Ref. 2) prior to the subject LAR, thereby impacting parallel associated TS pages submitted on behalf of the subject amendment.

A001  
NRC

The final Technical Specification and Bases pages are provided in Attachment 1. They were not included in the initial submittal of Ref. 1 due to current amendments pending NRC review that would directly impact the issuance of the final TS pages within this submittal.

This letter contains no new commitments.

Please contact A.F. Driver at 803-701-3445 or [Adrienne.Driver@duke-energy.com](mailto:Adrienne.Driver@duke-energy.com).

Sincerely,

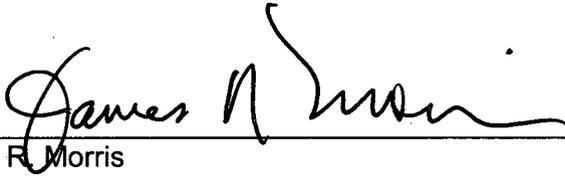
A handwritten signature in black ink, appearing to read "James R. Morris". The signature is fluid and cursive, with a prominent initial "J" and "M".

James R. Morris

Attachment 1: Catawba Technical Specification Final Pages

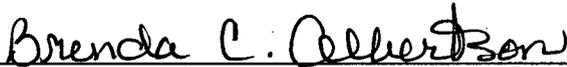
Oath or Affirmation

James R. Morris 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.



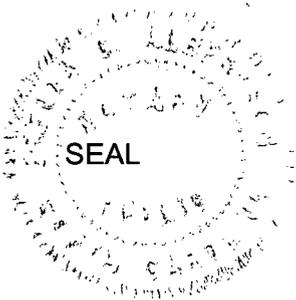
James R. Morris  
Site Vice President, Catawba Nuclear Station

Subscribed and sworn to me: March 31, 2011  
Date



Notary Public

My Commission Expires: Notary Public, South Carolina, State at Large  
My Commission Expires March 6, 2018  
Date



xc:

V. M. McCree, Region II Administrator  
U.S. Nuclear Regulatory Commission  
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J. B. Brady  
NRC Senior Resident Inspector  
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**Attachment 1:  
Catawba Technical Specification Final Pages**

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>J. One channel inoperable.</p>	<p>J.1 -----NOTE----- The inoperable channel may be bypassed for up to 12 hours for surveillance testing of other channels. ----- Place channel in trip.  <u>OR</u> J.2 Be in MODE 3.</p>	<p>72 hours   78 hours</p>
<p>K. One Main Feedwater Pumps trip channel inoperable.</p>	<p>K.1 Place channel in trip.  <u>OR</u> K.2 Be in MODE 3.</p>	<p>1 hour  7 hours</p>

(continued)

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
L. One channel inoperable.	L.1 -----NOTE----- The inoperable channel may be bypassed for up to 2 hours for surveillance testing of other channels. ----- Place channel in trip.	6 hours
	<u>OR</u> L.2 Be in MODE 3.	12 hours

(continued)

Table 3.3.2-1 (page 4 of 5)  
Engineered Safety Feature Actuation System Instrumentation

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS	CONDITIONS	SURVEILLANCE REQUIREMENTS	ALLOWABLE VALUE	NOMINAL TRIP SETPOINT
(2) SG Water Level- High High (P-14)	1,2(e),3(e)	4 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 3.3.2.9 SR 3.3.2.10	≤ 85.6% (Unit 1) ≤ 78.9% (Unit 2)	83.9% (Unit 1) 77.1% (Unit 2)
(3) Safety Injection	Refer to Function 1 (Safety Injection) for all initiation functions and requirements. See Item 5.b.(1) for Applicable MODES.					
(4) Tavg-Low	1,2(e)	4	J	SR 3.3.2.1 SR 3.3.2.5 SR 3.3.2.9	≥ 561°F	564°F
coincident with Reactor Trip, P-4	Refer to Function 8.a (Reactor Trip, P-4) for all initiation functions and requirements.					
(5) Doghouse WaterLevel - High High	1,2(e)	3 per train per doghouse	L	SR 3.3.2.8 SR 3.3.2.9 SR 3.3.2.12	≤ 12 inches above 577 ft floor level	11 inches above 577 ft floor level
6. Auxiliary Feedwater						
a. Automatic Actuation Logic and Actuation Relays	1,2,3	2 trains	H	SR 3.3.2.2 SR 3.3.2.4 SR 3.3.2.6	NA	NA
b. SG Water Level - Low Low	1,2,3	4 per SG	D	SR 3.3.2.1 SR 3.3.2.5 SR 3.3.2.9 SR 3.3.2.10	≥ 9% (Unit 1) ≥ 35.1% (Unit 2)	10.7% (Unit 1) 36.8% (Unit 2)
c. Safety Injection	Refer to Function 1 (Safety Injection) for all initiation functions and requirements.					
d. Loss of Offsite Power	1,2,3	3 per bus	D	SR 3.3.2.3 SR 3.3.2.9 SR 3.3.2.10	≥ 3242 V	3500 V
e. Trip of all Main Feedwater Pumps	1,2	3 per pump	K	SR 3.3.2.8 SR 3.3.2.10	NA	NA
f. Auxiliary Feedwater Pump Train A and Train B Suction Transfer on Suction Pressure - Low	1,2,3	3 per train	M	SR 3.3.2.8 SR 3.3.2.10	A) ≥ 9.5 psig B) ≥ 5.2 psig (Unit 1) ≥ 5.0 psig (Unit 2)	A) 10.5 psig B) 6.2 psig (Unit 1) 6.0 psig (Unit 2)

(continued)

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