



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

October 6, 2015

Mr. Bryan C. Hanson  
Senior Vice President  
Exelon Generation Company, LLC  
President and Chief Nuclear Officer (CNO)  
Exelon Nuclear  
4300 Winfield Road  
Warrenville, IL 60555

SUBJECT: BRAIDWOOD STATION, UNITS 1 AND 2; BYRON STATION, UNIT NOS. 1 AND 2; AND QUAD CITIES NUCLEAR POWER STATION, UNITS 1 AND 2 – CORRECTION OF AMENDMENTS ADOPTING TECHNICAL SPECIFICATION TASK FORCE TRAVELER TSTF-523 (TAC NOS. MF4436–MF4446)

Dear Mr. Hanson:

The U.S. Nuclear Regulatory Commission (NRC) issued the following amendments on June 19, 2015 (Agencywide Documents Access and Management System Accession No. ML15114A188):

1. Amendment No. 183 to Facility Operating License No. NPF-72 and Amendment No. 183 to Facility Operating License No. NPF 77 for the Braidwood Station, Units 1 and 2, respectively;
2. Amendment No. 189 to Facility Operating License No. NPF-37 and Amendment No. 189 to Facility Operating License No. NPF-66 for the Byron Station, Unit Nos. 1 and 2, respectively; and
3. Amendment No. 257 to Renewed Facility Operating License No. DPR 29 and Amendment No. 252 to Renewed Facility Operating License No. DPR-30 for the Quad Cities Nuclear Power Station, Units 1 and 2, respectively.

The amendments revised the technical specifications (TSs) to adopt Technical Specification Task Force (TSTF) Traveler TSTF-523, Revision 2, "Generic Letter 2008-01, Managing Gas Accumulation," dated February 21, 2013. The revised TS pages were provided when the amendments were issued, except as follows:

1. TS page 3.4.7-3 for Braidwood Station, Units 1 and 2,
2. TS pages 3.4.7-3, 3.6.6-3, and 3.9.6-2 for Byron Station, Unit Nos. 1 and 2, and
3. TS page 3.4.8-2 for Quad Cities Nuclear Power Station, Units 1 and 2.

The NRC staff has determined that these pages were erroneously omitted and should have been issued with the amendments. The omitted TS pages are enclosed.

B. Hanson

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If you have any questions, please contact me at 301-415-1380.

Sincerely,

A handwritten signature in black ink, appearing to read 'Blake Purnell', written in a cursive style.

Blake Purnell, Project Manager  
Plant Licensing III-2 and  
Planning and Analysis Branch  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket Nos. STN 50-456, STN 50-457,  
STN 50-454, STN 50-455, 50-254,  
and 50-265

Enclosure:

1. Braidwood Station, Units 1 and 2,  
Replacement TS Pages
2. Byron Station, Unit Nos. 1 and 2,  
Replacement TS Pages
3. Quad Cities Nuclear Power Station, Units 1  
and 2, Replacement TS Pages

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BRAIDWOOD STATION, UNITS 1 AND 2  
REPLACEMENT TECHNICAL SPECIFICATION PAGES  
LICENSE AMENDMENT NOS. 183 AND 183  
FACILITY OPERATING LICENSE NOS. NPF-72 AND NPF-77  
DOCKET NOS. STN 50-456 AND STN 50-457

Replace the following pages of the technical specifications with the attached revised pages. The revised pages are identified by amendment number and contain marginal lines indicating the areas of change.

Remove TS Page  
3.4.7-3

Insert TS Page  
3.4.7-3

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
D. Two required RHR loops inoperable.  <u>OR</u>  Required RHR loop inoperable and one or both required SG secondary side water level(s) not within limits.	D.1 Suspend all operations involving a reduction of RCS boron concentration.	Immediately
	<u>AND</u>	
	D.2.1 Initiate action to restore one RHR loop to OPERABLE status.	Immediately
	<u>OR</u>	
	D.2.2 Initiate action to restore required SG secondary side water level(s) to within limits.	Immediately

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 3.4.7.1 Verify required RHR loop is in operation.	In accordance with the Surveillance Frequency Control Program
SR 3.4.7.2 Verify SG secondary side narrow range water level is $\geq 18\%$ in required SGs.	In accordance with the Surveillance Frequency Control Program
SR 3.4.7.3 Verify correct breaker alignment and indicated power are available to each required RHR pump that is not in operation.	In accordance with the Surveillance Frequency Control Program

(continued)

BYRON STATION, UNIT NOS. 1 AND 2

REPLACEMENT TECHNICAL SPECIFICATION PAGES

LICENSE AMENDMENT NOS. 189 AND 189

FACILITY OPERATING LICENSE NOS. NPF-37 AND NPF-66

DOCKET NOS. STN 50-454 AND STN 50-455

Replace the following pages of the technical specifications (TSs) with the attached revised pages. The revised pages are identified by amendment number and contain marginal lines indicating the areas of change.

Remove TS Page

3.4.7-3

3.6.6-3

3.9.6-2

Insert TS Page

3.4.7-3

3.6.6-3

3.9.6-2

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
D. Two required RHR loops inoperable.  <u>OR</u>  Required RHR loop inoperable and one or both required SG secondary side water level(s) not within limits.	D.1 Suspend all operations involving a reduction of RCS boron concentration.	Immediately
	<u>AND</u>	
	D.2.1 Initiate action to restore one RHR loop to OPERABLE status.	Immediately
	<u>OR</u>	
	D.2.2 Initiate action to restore required SG secondary side water level(s) to within limits.	Immediately

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 3.4.7.1 Verify required RHR loop is in operation.	In accordance with the Surveillance Frequency Control Program
SR 3.4.7.2 Verify SG secondary side narrow range water level is $\geq 18\%$ in required SGs.	In accordance with the Surveillance Frequency Control Program
SR 3.4.7.3 Verify correct breaker alignment and indicated power are available to each required RHR pump that is not in operation.	In accordance with the Surveillance Frequency Control Program

(continued) |

SURVEILLANCE REQUIREMENTS (continued)

SURVEILLANCE	FREQUENCY
SR 3.6.6.3      Verify each containment cooling train cooling water flow rate is $\geq$ 2660 gpm to each cooler.	In accordance with the Surveillance Frequency Control Program
SR 3.6.6.4      Verify each containment spray pump's developed head at the flow test point is greater than or equal to the required developed head.	In accordance with the Inservice Testing Program
SR 3.6.6.5      Verify each automatic containment spray valve in the flow path that is not locked, sealed, or otherwise secured in position, actuates to the correct position on an actual or simulated actuation signal.	In accordance with the Surveillance Frequency Control Program
SR 3.6.6.6      Verify each containment spray pump starts automatically on an actual or simulated actuation signal.	In accordance with the Surveillance Frequency Control Program
SR 3.6.6.7      Verify each containment cooling train starts automatically on an actual or simulated actuation signal.	In accordance with the Surveillance Frequency Control Program
SR 3.6.6.8      Verify each spray nozzle is unobstructed.	Following maintenance that could result in nozzle blockage  <u>OR</u> Following fluid flow through the nozzles

(continued) |

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
B. No RHR loop in operation.	B.1 Suspend operations involving a reduction in reactor coolant boron concentration.	Immediately
	<u>AND</u>	
	B.2 Initiate action to restore one RHR loop to operation.	Immediately
	<u>AND</u>	
	B.3 Close all containment penetrations providing direct access from containment atmosphere to outside atmosphere.	4 hours

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 3.9.6.1 Verify one RHR loop is in operation and circulating reactor coolant at a flow rate of $\geq 1000$ gpm.	In accordance with the Surveillance Frequency Control Program
SR 3.9.6.2 Verify correct breaker alignment and indicated power available to the required RHR pump that is not in operation.	In accordance with the Surveillance Frequency Control Program

(continued) |



QUAD CITIES NUCLEAR POWER STATION, UNITS 1 AND 2

REPLACEMENT TECHNICAL SPECIFICATION PAGES

LICENSE AMENDMENT NOS. 257 AND 252

RENEWED FACILITY OPERATING LICENSE NOS. DPR-29 AND DPR-30

DOCKET NOS. 50-254 AND 50-265

Replace the following pages of the technical specifications (TSs) with the attached revised pages. The revised pages are identified by amendment number and contain marginal lines indicating the areas of change.

Remove TS Page  
3.4.8-2

Insert TS Page  
3.4.8-2



B. Hanson

- 2 -

If you have any questions, please contact me at 301-415-1380.

Sincerely,

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Blake Purnell, Project Manager  
Plant Licensing III-2 and  
Planning and Analysis Branch  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

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DISTRIBUTION:

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Accession No. ML15268A486

OFFICE	LPL3-2/PM	LPL3-2/LA	LPL3-2/BC	LPL3-2/PM
NAME	BPurnell	SRohrer	TTate	BPurnell
DATE	10/5/15	9/28/15	10/5/15	10/6/15

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