

Kewaunee Nuclear Power Plant Operated by Nuclear Management Company, LLC

MISC-2004-0004

June 17, 2004

ĩ

Mr. Patrick Louden U.S. Nuclear Regulatory Commission Region III 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352

KNPP Technical Specifications Bases Revision

Dear Mr. Louden:

Nuclear Management Company (NMC), licensee for the Kewaunee Nuclear Power Plant (KNPP), submitted a revision to the Bases for the Technical Specification (TS) 4.8, "Auxillary Feedwater System". During the review of TS Amendment 172, a TS item number was changed (TS 3.4.b.2.B to TS 3.4.b.4.B) without a change to basis page TS B4-8.1. This change corrects that error.

These changes have been evaluated pursuant to the requirements of 10 CFR 50.59 in accordance with approval KNPP procedures and were determined to be acceptable.

Please follow the instructions on the enclosed page. If you have any technical or administrative questions regarding this revision, please contact Jerry Riste at (920) 388-8424.

Sincerely,

Gerald Riste Regulatory Affairs Manager (Acting)

Enclosures

cc: KNPP QA Vault (w/o enclosures)

INSTRUCTION SHEET

REMOVE PAGES

.

÷ 4

÷

Current Status 1-6 Revision Control

> Appendix A TS B4.8-1

INSERT PAGES

Current Status 1-6 Revision Control 61 Appendix A TS B4.8-1

06/17/2004						
PAGE NO.	AMENDMENT NUMBER	DATE				
TS i	165	03/11/2003				
TS ii	167	04/04/2003				
TS iii	162	09/19/2002				
TS iv	167	04/04/2003				
TS v	162	09/19/2002				
TS vi	168	07/08/2003				
1.0-1	162	09/19/2002 09/19/2002				
1.0-2	162					
1.0-3	162	09/19/2002				
1.0-4	172	02/27/2004				
1.0-5	162	09/19/2002				
1.0-6	167	04/04/2003				
Table 1.0-1	162	09/19/2002				
2.1-1	172	02/27/2004				
B2.1-1	172	02/27/2004				
2.2-1	162	09/19/2002				
B2.2-1	167	04/04/2003				
2.3-1	162	09/19/2002				
2.3-2	172	02/27/2004				
2.3-3	172	02/27/2004				
2.3-4	162	09/19/2002				
B2.3-1	165	03/11/2003				
B2.3-2	172	02/27/2004				
FIGURE 2.1-1	DELETED	03/11/2003				
3.0-1	119	04/18/1995				
B3.0-1	119	04/18/1995				
3.1-1	165	03/11/2003				
3.1-2	165	03/11/2003				
3.1-3	164	11/07/2002				
3.1-4	165	03/11/2003				
3.1-5	165	03/11/2003				
3.1-6	168	07/08/2003				
3.1-7	167	04/04/2003				
3.1-8	165	03/11/2003				
3.1-9	165	03/11/2003				
3.1-10	165	03/11/2003				
B3.1-1	165	03/11/2003				
B3.1-2	165	03/11/2003				
B3.1-3	165	03/11/2003				
B3.1-4	KAP 01-223 KAP 01-19886 KAP 01-19692	12/17/2001				
B3.1-5	165	03/11/2003				
B3.1-6	168	07/08/2003				
B3.1-0						
B3.1-7	167	04/04/2003				
05.1-0		04/04/2000				

· · · ·

06/17/2004 PAGE NO. AMENDMENT NUMBER DATE						
	DATE					
165	03/11/2003					
	03/11/2003					
	03/11/2003					
165	03/11/2003					
165	03/11/2003					
116	03/28/1995					
116	03/28/1995					
116	03/28/1995					
116	03/28/1995					
143	02/23/1999					
172	02/27/2004					
116	03/28/1995					
116	03/28/1995					
116	03/28/1995					
103	11/05/1993					
143	02/23/1999					
172	02/27/2004					
143	02/23/1999					
167	04/04/2003					
172	02/27/2004					
172	02/27/2004					
167	04/04/2003					
172	02/27/2004					
172	02/27/2004					
172	02/27/2004					
105	02/09/1994					
101	09/30/1993					
CAP 012480	07/25/2003					
KAP 00-070	04/23/2001					
KAP 00-070	04/23/2001					
155	06/08/2001					
155	06/08/2001					
155	06/08/2001					
155	06/08/2001					
155	06/08/2001					
155	06/08/2001					
155	06/08/2001					
155	06/08/2001					
155	06/08/2001					
122	12/21/1995					
122	12/21/1995					
KAP 00-070	04/23/2001					
165	03/11/2003					
165	03/11/2003					
172	02/27/2004					
172	02/27/2004					
	AMENDMENT NUMBER 165 165 165 165 165 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 116 1172 116 103 143 172 143 167 172 172 172 172 172 172 172 172 172 172 172 172 172 172 172 172 155 155 155					

-

, **,** .

06/17/2004					
PAGE NO.	AMENDMENT NUMBER	DATE			
3.10-1	167	04/04/2003			
3.10-2	167	04/04/2003			
3.10-3	167	04/04/2003			
3.10-4	165	03/11/2003			
3.10-5	165	03/11/2003			
3.10-6	165	03/11/2003			
3.10-7	167	04/04/2003			
B3.10-1	165	03/11/2003			
B3.10-2	167	04/04/2003			
B3.10-3	167	04/04/2003			
B3.10-4	167 04/04/200				
B3.10-5	167	04/04/2003			
B3.10-6	167	04/04/2003			
B3.10-7	167	04/04/2003			
3.11-1	-	-			
3.11-2	58	01/04/1985			
3.11-3	-	-			
3.12-1	152	02/28/2001			
B3.12-1	152	02/28/2001			
3.14-1	122	12/21/1995			
B3.14-1	122	12/21/1995			
Table 3.1-1	DELETED	06/09/1998			
Table 3.1-2	122	12/21/1995			
Table 3.5-1 (PAGE 1 OF 2)	172	02/27/2004			
Table 3.5-1 (PAGE 2 OF 2)	131 01/06/1997				
Table 3.5-2 (PAGE 1 OF 4)	137	06/09/1998			
Table 3.5-2 (PAGE 2 OF 4)	94	11/12/1991			
Table 3.5-2 (PAGE 3 OF 4)	94	11/12/1991			
Table 3.5-2 (PAGE 4 OF 4)	137 06/09/199				
Table 3.5-3 (PAGE 1 OF 2)	116	03/28/1995			
Table 3.5-3 (PAGE 2 OF 2)	116	03/28/1995			
Table 3.5-4 (PAGE 1 OF 2)	102	10/18/1993			
Table 3.5-4 (PAGE 2 OF 2)	102	10/18/1993			
Table 3.5-5	101	09/30/1993			
Table 3.5-6 (PAGE 1 OF 2)	105	02/09/1994			
Table 3.5-6 (PAGE 2 OF 2)	105 02/09/199				
Table 3.15-1	DELETED	03/04/1991			
Table 3.15-2	DELETED	03/04/1991			
FIGURE 3.1-1	168 07/08/200				
FIGURE 3.1-2	168 07/08/200				
FIGURE 3.1-3	DELETED 04/04/2003				
FIGURE 3.1-4	DELETED 04/04/1999				
FIGURE 3.10-1	DELETED 03/11/2003				
FIGURE 3.10-2	DELETED	03/11/2003			
FIGURE 3.10-3	DELETED	03/11/2003			
FIGURE 3.10-4	DELETED	ED 03/11/2003			

· ·

PAGE NO.	AMENDMENT NUMBER	DATE		
FIGURE 3.10-5	DELETED	03/11/2003		
FIGURE 3.10-6	DELETED	03/11/2003		
4.0-1	163	09/24/2002		
B4.0-1	163	09/24/2002		
B4.0-2	163	09/24/2002		
B4.0-3	163	09/24/2002		
4.1-1	119	04/18/1995		
B4.1-1	121	08/31/1995		
B4.1-2	121	08/31/1995		
4.2-1	158	09/20/2001		
4.2-2	158	09/20/2001		
4.2-3	158	09/20/2001		
4.2-4	158	09/20/2001		
4.2-5	171	11/20/2003		
4.2-6	171	11/20/2003		
B4.2-1	158	09/20/2001		
B4.2-2	158	09/20/2001		
B4.2-3	171	11/20/2003		
4.3-1	DELETED	06/22/1990		
4.3-2	DELETED	06/22/1990		
4.4-1	173	04/06/2004		
4.4-2	136	05/28/1998		
4.4-3	155	06/08/2001		
4.4-4	155	06/08/2001		
B4.4-1	155	06/08/2001 06/09/2003		
B4.4-2	CAP 005644			
B4.4-3	CAP 005644	06/09/2003		
B4.4-4	CAP 001927	10/25/2002		
B4.4-5	CAP 001927	10/25/2002		
4.5-1	137	06/09/1998		
4.5-2	137	06/09/1998		
B4.5-1	172	02/27/2004		
4.6-1	119	04/18/1995		
4.6-2	119	04/18/1995		
B4.6-1	CAP 003296	05/15/2003		
B4.6-2	119	04/18/1995		
4.7-1	119	04/18/1995		
B4.7-1	114/NRC SE	NRC letter 04/15/98		
4.8-1	97	02/01/1993		
B4.8-1	CAP 017038	03/30/2004		
4.9-1	122	12/21/1995		
B4.9-1	122	12/21/1995		
4.12-1	122	12/21/1995		
	4.12-2 122 12/2			
B4.12-1	CAP 005644	06/09/2003		
4.13-1	137	06/09/1998		

·

	06/1//2004					
PAGE NO.	AMENDMENT NUMBER	DATE				
B4.13-1	122	12/21/1995				
4.14-1	14	03/01/1977				
4.14-2	57	12/26/1984				
4.14-3	14	03/01/1977				
4.14-3a	57	12/26/1984				
4.15-1	DELETED	03/04/1991				
4.15-2	DELETED	03/04/1991				
4.15-3	DELETED	03/04/1991				
4.15-4	DELETED	03/04/1991				
4.16-1	59	03/10/1985				
4.17-1	137 06/09/199					
B4.17-1	152	02/28/2001				
Table 4.1-1 (PAGE 1 OF 7)	151	02/12/2001				
Table 4.1-1 (PAGE 2 OF 7)	151	02/12/2001				
Table 4.1-1 (PAGE 3 OF 7)	151	02/12/2001				
Table 4.1-1 (PAGE 4 OF 7)	151	02/12/2001				
Table 4.1-1 (PAGE 5 OF 7)	151	02/12/2001				
Table 4.1-1 (PAGE 6 OF 7)	151	02/12/2001				
Table 4.1-1 (PAGE 7 OF 7)	167	04/04/2003				
Table 4.1-2 (PAGE 1 OF 2)	119	04/18/1995				
Table 4.1-2 (PAGE 2 OF 2)	172	02/27/2004				
Table 4.1-3 (PAGE 1 OF 1)	125	08/07/1996				
Table 4.2-1	DELETED	10/02/1998				
Table 4.2-2	158	09/20/2001				
Table 4.2-3	DELETED	09/20/2001				
Figure 4.2-1	DELETED	09/20/2001				
5.1-1	162	09/19/2002				
5.2-1	167	04/04/2003				
5.2-2	162	09/19/2002				
5.3-1	167	04/04/2003				
5.4-1	162	09/19/2002				
Figure 5.4-1	162	09/19/2002				
6.1-1	162	09/19/2002				
6.2-1	162	09/19/2002				
6.3-1	170	10/02/2003				
6.4-1	162	09/19/2002				
6.5	DELETED	09/19/2002				
6.6	DELETED	09/19/2002				
6.7-1	162	09/19/2002				
6.8-1	162	09/19/2002				
6.9-1	162	09/19/2002				
6.9-2	162	09/19/2002				
6.9-3	168 07/08/2003					
6.9-4	168	07/08/2003				
6.9-5	168	07/08/2003				
6.9-6	167	04/04/2003				

. . .

PAGE NO.	AMENDMENT NUMBER	DATE		
6.10-1	162	09/19/2002		
6.10-2	162	09/19/2002		
6.11-1	162	09/19/2002		
6.12-1	162	09/19/2002		
6.13-1	162	09/19/2002		
6.14-1	DELETED	09/19/2002		
6.15-1	162	09/19/2002		
6.16-1	162	09/19/2002		
6.16-2	162	09/19/2002		
6.17-1	162	09/19/2002		
6.18-1	162	09/19/2002		
6.19-1	162	09/19/2002		
6.20-1	162 09/19/2002			
6.21-1	163	09/24/2002		

TECHNICAL SPECIFICATION REVISIONS

WPS Change #	PA # / KAP #	Date	Pages Submitted	NRC Change #	AA #	Approved Date	Removed Pages	Inserted Pages
	CAP 017038	3/30/2004	TS B4.8-1		N/A	3/30/2004	TS B4.8-1	TS B4.8-1

.

BASIS

۰.

The Auxiliary Feedwater System (AFW) mitigates the consequences of any event that causes a loss of normal feedwater. The design basis of the AFW System is to remove decay and residual heat by delivering the minimum required flow to at least one steam generator until the Reactor Coolant System (RCS) is cooled to the point of placing the Residual Heat Removal System into operation.

In accordance with ASME Code Section XI, Subsection IWP, an in-service test of each auxiliary feedwater pump shall be run nominally every 3 months (quarterly) during normal plant operation. It is recommended that this test frequency be maintained during shutdown periods if this can be reasonably accomplished, although this is not mandatory. If the normally scheduled test is not performed during a plant shutdown, then the motor-driven pumps shall be demonstrated OPERABLE within 1 week exceeding 350°F; and the turbine-driven pump shall be demonstrated OPERABLE within 72 hours of exceeding 350°.

Quarterly testing of the AFW pumps is used to detect degradation of the component. This type of testing may be accomplished by measuring the pump's developed head at one point of the pump characteristic curve. This verifies that the measured performance is within an acceptable tolerance of the original pump baseline performance.

TS 3.4.b requires all three AFW pumps be OPERABLE prior to heating the RCS average temperature > 350° F. It is acceptable to heat the RCS to > 350° F with the turbine-driven pump inoperable for a limited time period of 72 hours. The wording of TS 3.4.b.4.B and TS 4.8.b allows delaying the testing until the steam flow is consistent with the conditions under which the performance acceptance criteria were generated.

The discharge values of the two motor-operated pumps are normally open, as are the suction values from the condensate storage tanks and the two values on a cross tie line that directs the turbine-driven pump discharge to either or both steam generators. The only value required to function upon initiation of auxiliary feedwater flow is the steam admission value on the turbine-driven pump. Proper opening of the steam admission value will be demonstrated each time the turbine-driven pump is tested.