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July 28, 2009

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, DC 20555

Subject: Duke Energy Carolinas, LLC  
Oconee Nuclear Station  
Docket 50-269, -270, -287  
Selected Licensee Commitments Manual (SLC)

Gentlemen:

Pursuant to 10CFR 50.4 and 50.71, please find attached the latest revisions to the Oconee Selected Licensee Commitments Manual (SLC). SLC Change 2008-09 will revise SLC 16.9.21, Standby Shutdown Facility (SSF) External Flood Protection, to reflect design change OD501920. This change was done to prevent flooding into the SSF and restore missile protection.

Sincerely,

Dave Baxter  
Vice President  
Oconee Nuclear Station

RGJ/rgj  
Attachment

A053  
NRR

U.S. Nuclear Regulatory Commission  
July 28, 2009  
Page 2

xc: Mr. Luis Reyes  
Regional Administrator, Region II  
Atlanta Federal Center  
61 Forsyth St., SW, Suite 23T85  
Atlanta, Georgia 30303

Mr. John Stang  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
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Washington, DC 20555

Mr. Eric Riggs  
Senior NRC Resident Inspector  
Oconee Nuclear Station

Bxc: ELL  
ONS Document Management  
MR Coordinator (Ron Harris)

July 28, 2009

Subject: Oconee Selected Licensee Commitments Manual (SLC)  
Revision

On 7/01/09, Station Management approved Selected Licensee Commitment (SLC) Change 2008-09. The SLC change will revise SLC 16.9.21, Standby Shutdown Facility (SSF) External Flood Protection, to reflect design change OD501920. This change was done to prevent flooding into the SSF and restore missile protection.

Please revise your manual as instructed below.

Remove these pages

SLC LOEP Pages 1-12  
SLC Page 16.9.21-1  
SLC Page 16.9.21-2  
SLC Page 16.9.21-3  
SLC Page 16.9.21-4

Insert these pages

SLC LOEP Pages 1-12  
SLC Page 16.9.21-1  
SLC Page 16.9.21-2  
SLC Page 16.9.21-3  
SLC Page 16.9.21-4

Any questions concerning these revisions may be directed to  
Reene' Gambrell at 864-873-3364.

By: Gail Joyner  
Regulatory Compliance

Oconee Nuclear Station  
Selected Licensee Commitments Revised 07/09/09

List of Effective Pages

<u>Page</u>	<u>Revision Date</u>
LOEP 1	07/09/09
LOEP 2	2/05/08
LOEP 3	3/31/08
LOEP 4	3/9/06
LOEP 5	1/04/07
LOEP 6	12/10/08
LOEP 7	10/14/08
LOEP 8	07/09/09
LOEP 9	11/20/08
LOEP 10	11/20/08
LOEP 11	11/08/07
LOEP 12	9/10/07
16.0-1	06/30/08
16.0-2	06/30/08
16.0-3	06/30/08
16.0-4	06/30/08
16.0-5	06/30/08
16.0-6	06/30/08
16.1-1	10/15/07
16.2-1	3/27/99
16.2-2	3/27/99
16.2-3	3/27/99
16.3-1	3/27/99
16.5.1-1	7/18/00
16.5.1-2	7/18/00
16.5.1-3	7/18/00
16.5.2-1	5/11/99
16.5.2-2	5/11/99
16.5.2-3	5/11/99
16.5.2-4	Delete 5/11/99
16.5.2-5	Delete 5/11/99
16.5.3-1	02/21/07
16.5.3-2	02/21/07
16.5.3-3	02/21/07
16.5.4-1	1/05/06
16.5.4-2	1/05/06
16.5.5-1	Delete 5/16/09
16.5.5-2	Delete 5/16/09
16.5.5-3	Delete 5/16/09
16.5.5-4	Delete 5/16/09
16.5.5-5	Delete 5/16/09

LOEP 1

Oconee Nuclear Station  
Selected Licensee Commitments Revised 07/09/09

List of Effective Pages

<u>Page</u>	<u>Revision Date</u>
16.5.6-1	02/05/08
16.5.6-2	02/05/08
16.5.7-1	12/13/06
16.5.7-2	12/13/06
16.5.7-3	12/13/06
16.5.7-4	12/13/06
16.5.7-5	12/13/06
16.5.7-6	12/13/06
16.5.8-1	01/31/07
16.5.8-2	01/31/07
16.5.8-3	01/31/07
16.5.8-4	01/31/07
16.5.8-5	01/31/07
16.5.8a-1	5/19/95
16.5.8a-2	5/19/05 (Delete)
16.5.8a-3	5/19/05 (Delete)
16.5.9-1	3/27/99
16.5.9-2	3/27/99
16.5.10-1	10/8/03
16.5.10-2	10/8/03
16.5.11-1	1/31/00
16.5.12-1	3/27/99
16.5.13-1	3/27/99
16.5.13-2	12/01/99
16.5.13-3	12/01/99
16.6.1-1	03/14/07
16.6.1-2	03/14/07
16.6.1-3	03/14/07
16.6.1-4	03/14/07
16.6.1-5	Delete
16.6.2-1	01/31/07
16.6.2-2	01/31/07
16.6.2-3	01/31/07
16.6.2-4	01/31/07
16.6.2-5	01/31/07
16.6.2-6	01/31/07
16.6.2-7	01/31/07
16.6.2-8	Delete
16.6.2-9	Delete
16.6.2-10	Delete
16.6.2-11	Delete

Oconee Nuclear Station  
Selected Licensee Commitments Revised 07/09/09

List of Effective Pages

<u>Page</u>	<u>Revision Date</u>
16.6.2-12	Delete
16.6.3-1	3/27/99
16.6.4-1	3/13/07
16.6.4-2	3/13/07
16.6.4-3	3/13/07
16.6.4-4	3/13/07
16.6.4-5	3/13/07
16.6.4-6	3/13/07
16.6.5-1	12/14/00
16.6.6-1	3/27/99
16.6.7-1	3/27/99
16.6.8-1	3/27/99
16.6.9-1	6/12/01
16.6.9-2	3/27/99
16.6.10-1	12/15/04
16.6.10-2	12/15/04
16.6.10-3	12/15/04
16.6.11-1	10/1/02
16.6.11-2	10/1/02
16.6.12-1	03/14/07
16.6.12-2	03/14/07
16.6.12-3	03/14/07
16.6.12-4	5/17/05 (Delete)
16.6.12-5	Delete
16.6.12-6	Delete
16.6.12-7	Delete
16.6.13-1	03/31/08
16.6.13-2	03/31/08
16.6.13-3	03/31/08
16.6.14-1	8/15/02
16.6.14-2	8/15/02
16.6.14-3	8/15/02
16.6.14-4	8/15/02
16.6.15-1	03/14/07
16.6.15-2	03/14/07
16.7.1-1	3/27/99
16.7.1-2	3/27/99
16.7.2-1	12/14/04
16.7.2-2	12/14/04
16.7.2-3	12/14/04
16.7.3-1	3/27/99

Oconee Nuclear Station  
Selected Licensee Commitments Revised 07/09/09

List of Effective Pages

<u>Page</u>	<u>Revision Date</u>
16.7.3-2	3/27/99
16.7.4-1	7/14/05
16.7.4-2	7/14/05
16.7.4-3	7/14/05
16.7.5-1	10/8/03
16.7.5-2	10/8/03
16.7.5-3	10/8/03
16.7.5-4	10/8/03
16.7.6-1	3/27/99
16.7.7-1	3/27/99
16.7.7-2	3/27/99
16.7.8-1	3/27/99
16.7.8-2	3/27/99
16.7.9-1	10/23/03
16.7.10-1	3/27/99
16.7.10-2	3/27/99
16.7.11-1	3/9/06
16.7.11-2	3/9/06
16.7.11-3	3/9/06
16.7.12-1	6/30/04
16.7.12-2	6/30/04
16.7.13-1	6/30/04
16.7.13-2	6/30/04
16.7.13-3	6/30/04
16.7.14-1	2/17/00
16.7.14-2	2/17/00
16.7.14-3	2/17/00
16.7.14-4	2/17/00
16.8.1-1	8/09/01
16.8.1-2	8/09/01
16.8.2-1	2/10/05
16.8.2-2	2/10/05
16.8.3-1	3/27/99
16.8.3-2	1/31/00
16.8.3-3	1/31/00
16.8.3-4	3/27/99
16.8.3-5	1/31/00
16.8.3-6	1/31/00
16.8.3-7	1/31/00
16.8.4-1	2/10/05
16.8.4-2	2/10/05

Oconee Nuclear Station  
Selected Licensee Commitments Revised 07/09/09

List of Effective Pages

<u>Page</u>	<u>Revision Date</u>
16.8.4-3	2/10/05
16.8.4-4	2/10/05
16.8.4-5	Delete 2/10/05
16.8.4-6	Delete 2/10/05
16.8.4-7	Delete 2/10/05
16.8.4-8	Delete 2/10/05
16.8.4-9	Delete 9/25/04
16.8.5-1	4/27/06
16.8.5-2	4/27/06
16.8.5-3	4/27/06
16.8.5-4	Delete 12/21/04
16.8.5-5	Delete 12/21/04
16.8.6-1	01/04/07
16.8.6-2	01/04/07
16.8.6-3	01/04/07
16.8.7-1	1/31/00
16.8.8-1	1/31/00
16.8.9-1	6/21/05
16.8.9-2	6/21/05
16.8.9-3	6/21/05
16.8.9-4	6/21/05
16.9.1-1	1/31/00
16.9.1-2	3/27/99
16.9.1-3	3/27/99
16.9.1-4	3/27/99
16.9.1-5	6/12/01
16.9.2-1	6/28/05
16.9.2-2	6/28/05
16.9.2-3	6/28/05
16.9.2-4	6/28/05
16.9.2-5	6/28/05
16.9.3-1	1/14/04
16.9.3-2	1/14/04
16.9.4-1	1/31/00
16.9.4-2	1/31/00
16.9.4-3	1/31/00
16.9.4-4	3/27/99
16.9.4-5	6/12/01
16.9.5-1	1/31/00
16.9.5-2	4/29/99
16.9.5-3	4/29/99



Oconee Nuclear Station  
Selected Licensee Commitments Revised 07/09/09

List of Effective Pages

<u>Page</u>	<u>Revision Date</u>
16.9.5-4	6/12/01
16.9.6-1	12/10/08
16.9.6-2	12/10/08
16.9.6-3	12/10/08
16.9.6-4	12/10/08
16.9.6-5	12/10/08
16.9.6-6	12/10/08
16.9.6-7	12/10/08
16.9.6-8	12/10/08
16.9.6-9	12/10/08
16.9.7-1	09/30/08
16.9.7-2	09/30/08
16.9.7-3	09/30/08
16.9.7-4	09/30/08
16.9.7-5	09/30/08
16.9.7-6	09/30/08
16.9.7-7	09/30/08
16.9.7-8	09/30/08
16.9.7-9	Delete
16.9.8-1	2/15/06
16.9.8-2	2/15/06
16.9.8-3	Delete 2/15/06
16.9.8-4	Delete
16.9.8-5	Delete
16.9.8-6	Delete
16.9.8-7	Delete
16.9.8a-1	2/7/05
16.9.8a-2	2/7/05
16.9.8a-3	2/7/05
16.9.9-1	11/27/07
16.9.9-2	11/27/07
16.9.9-3	11/27/07
16.9.9-4	11/27/07
16.9.10-1	1/12/04
16.9.10-2	1/12/04
16.9.11-1	09/30/08
16.9.11-2	09/30/08
16.9.11-3	09/30/08
16.9.11-4	09/30/08
16.9.11-5	09/30/08
16.9.11-6	09/30/08

Oconee Nuclear Station  
Selected Licensee Commitments Revised 07/09/09

List of Effective Pages

<u>Page</u>	<u>Revision Date</u>
16.9.11-7	09/30/08
16.9.11-8	09/30/08
16.9.11a-1	10/14/08
16.9.11a-2	10/14/08
16.9.11a-3	10/14/08
16.9.11a-4	10/14/08
16.9.11a-5	10/14/08
16.9.11a-6	10/14/08
16.9.11a-7	10/14/08
16.9.11a-8	10/14/08
16.9.11a-9	10/14/08
16.9.11a-10	10/14/08
16.9.11a-11	10/14/08
16.9.11a-12	10/14/08
16.9.11a-13	10/14/08
16.9.11a-14	10/14/08
16.9.11a-15	10/14/08
16.9.11a-16	Deleted 3/10/08
16.9.12-1	5/31/04
16.9.12-2	5/31/04
16.9.12-3	5/31/04
16.9.12-4	5/31/04
16.9.12-5	5/31/04
16.9.12-6	5/31/04
16.9.12-7	5/31/04
16.9.12-8	5/31/04
16.9.12-9	5/31/04
16.9.12-10	5/31/04
16.9.12-11	5/31/04
16.9.12-12	5/31/04
16.9.12-13	5/31/04
16.9.12-14	5/31/04
16.9.12-15	5/31/04
16.9.12-16	5/31/04
16.9.12-17	5/31/04
16.9.12-18	5/31/04
16.9.12-19	5/31/04
16.9.12-20	5/31/04
16.9.12-21	5/31/04
16.9.12-22	5/31/04
16.9.13-1	01/31/07

Oconee Nuclear Station  
Selected Licensee Commitments Revised 07/09/09

List of Effective Pages

<u>Page</u>	<u>Revision Date</u>
16.9.13-2	01/31/07
16.9.13-3	01/31/07
16.9.13-4	01/31/07
16.9.14-1	10/28/04
16.9.14-2	10/28/04
16.9.15-1	3/27/99
16.9.15-2	3/27/99
16.9.15-3	3/27/99
16.9.16-1	4/01/08
16.9.16-2	4/01/08
16.9.16-3	4/01/08
16.9.17-1	5/23/01
16.9.17-2	3/27/99
16.9.18-1	5/02/07
16.9.18-2	5/02/07
16.9.18-3	5/02/07
16.9.18-4	5/02/07
16.9.18-5	5/02/07
16.9.18-6	5/02/07
16.9.18-7	5/02/07
16.9.18-8	5/02/07
16.9.18-9	5/02/07
16.9.18-10	5/02/07
16.9.18-11	5/02/07
16.9.18-12	5/02/07
16.9.18-13	5/02/07
16.9.18-14	5/02/07
16.9.18-15	5/02/07
16.9.18-16	5/02/07
16.9.19-1	3/31/05
16.9.19-2	3/31/05
16.9.20-1	09/06/06
16.9.20-2	09/06/06
16.9.20-3	09/06/06
16.9.20-4	09/06/06
16.9.21-1	07/09/09
16.9.21-2	07/09/09
16.9.21-3	07/09/09
16.9.21-4	07/09/09
16.10.1-1	Deleted 9/18/03
16.10.1-2	Deleted 9/18/03

Oconee Nuclear Station  
Selected Licensee Commitments Revised 07/09/09

List of Effective Pages

<u>Page</u>	<u>Revision Date</u>
16.10.1-3	Deleted 9/18/03
16.10.2-1	12/2/03
16.10.2-2	12/2/03
16.10.3-1	3/27/99
16.10.3-2	3/27/99
16.10.4-1	1/31/00
16.10.5-1	Deleted 8/24/04
16.10.6-1	3/27/99
16.10.7-1	4/29/99
16.10.7-2	4/29/99
16.10.7-3	1/31/00
16.10.7-4	4/29/99
16.10.7-5	4/29/99
16.10.7-6	4/29/99
16.10.7-7	4/29/99
16.10.7-8	4/29/99
16.10.7-9	4/29/99
16.10.8-1	11/27/06
16.10.8-2	11/27/06
16.10.8-3	11/27/06
16.10.8-4	11/27/06
16.10.8-5	11/27/06
16.11.1-1	08/14/08
16.11.1-2	08/14/08
16.11.1-3	08/14/08
16.11.1-4	08/14/08
16.11.1-5	08/14/08
16.11.1-6	08/14/08
16.11.1-7	08/14/08
16.11.2-1	1/31/00
16.11.2-2	3/27/99
16.11.2-3	1/31/00
16.11.2-4	3/27/99
16.11.2-5	1/31/00
16.11.2-6	1/31/00
16.11.3-1	11/20/08
16.11.3-2	11/20/08
16.11.3-3	11/20/08
16.11.3-4	11/20/08
16.11.3-5	11/20/08
16.11.3-6	11/20/08

Oconee Nuclear Station  
Selected Licensee Commitments Revised 07/09/09

List of Effective Pages

<u>Page</u>	<u>Revision Date</u>
16.11.3-7	11/20/08
16.11.3-8	11/20/08
16.11.3-9	11/20/08
16.11.3-10	11/20/08
16.11.3-11	11/20/08
16.11.3-12	11/20/08
16.11.3-13	11/20/08
16.11.3-14	11/20/08
16.11.3-15	11/20/08
16.11.3-16	11/20/08
16.11.3-17	11/20/08
16.11.3-18	11/20/08
16.11.3-19	11/10/04 (Deleted)
16.11.4-1	11/10/04
16.11.4-2	11/10/04
16.11.4-3	11/10/04
16.11.4-4	11/10/04
16.11.4-5	11/10/04
16.11.4-6	11/10/04
16.11.4-7	11/10/04
16.11.4-8	11/10/04 (Delete)
16.11.5-1	10/30/02
16.11.5-2	10/30/02
16.11.5-3	10/30/02
16.11.5-4	10/30/02
16.11.6-1	2/1/05
16.11.6-2	2/1/05
16.11.6-3	2/1/05
16.11.6-4	2/1/05
16.11.6-5	2/1/05
16.11.6-6	2/1/05
16.11.6-7	2/1/05
16.11.6-8	2/1/05
16.11.6-9	2/1/05
16.11.6-10	2/1/05
16.11.7-1	1/31/00
16.11.7-2	1/31/00
16.11.7-3	3/27/99
16.11.7-4	1/31/00
16.11.8-1	9/25/03
16.11.8-2	9/25/03

Oconee Nuclear Station  
Selected Licensee Commitments Revised 07/09/09

List of Effective Pages

<u>Page</u>	<u>Revision Date</u>
16.11.9-1	11/14/00
16.11.9-2	1/31/00
16.11.9-3	1/31/00
16.11.10-1	2/25/03
16.11.10-2	2/25/03
16.11.11-1	3/27/99
16.11.12-1	4/10/03
16.11.12-2	4/10/03
16.11.13-1	3/27/99
16.11.13-2	3/27/99
16.11.14-1	3/27/99
16.11.14-2	3/27/99
16.12.1-1	3/27/99
16.12.2-1	5/3/07
16.12.2-2	5/3/07
16.12.3-1	5/1/03
16.12.3-2	5/1/03
16.12.4-1	3/27/99
16.12.5-1	3/27/99
16.12.6-1	11/08/07
16.13.1-1	5/13/04
16.13.1-2	5/13/04
16.13.1-3	5/13/04
16.13.1-4	5/13/04
16.13.1-5	5/13/04
16.13.1-6	5/13/04
16.13.1-7	5/13/04
16.13.1-8	5/13/04
16.13.1-9	5/13/04
16.13.2-1	12/15/04
16.13.2-2	Delete 12/15/04
16.13.2-3	Delete 12/15/04
16.13.2-4	Delete 12/15/04
16.13.3-1	12/15/04
16.13.3-2	Delete 12/15/04
16.13.4-1	3/27/99
16.13.5-1	Delete
16.13.5-2	Delete
16.13.6-1	3/27/99
16.13.7-1	12/15/04
16.13.7-2	12/15/04

Oconee Nuclear Station  
Selected Licensee Commitments Revised 07/09/09

List of Effective Pages

<u>Page</u>	<u>Revision Date</u>
16.13.8-1	3/27/99
16.13.9-1	3/27/99
16.13.9-2	3/27/99
16.13.10-1	3/27/99
16.13.11-1	3/27/99
16.14.1-1	3/27/99
16.14.2-1	12/14/04
16.14.2-2	12/14/04
16.14.3-1	3/27/99
16.14.4-1	12/14/04
16.14.4.a-1	12/14/04
16.15.1-1	4/12/06
16.15.1-2	Deleted 4/12/06
16.15.1-3	Deleted 4/12/06
16.15.1-4	Deleted 4/12/06
16.15.1-5	Deleted 4/12/06
16.15.2-1	09/10/07
16.15.2-2	09/10/07
16.15.2-3	09/10/07
16.15.2-4	09/10/07
16.15.2-5	09/10/07
16.15.3-1	4/12/06
16.15.3-2	4/12/06
16.15.3-3	4/12/06
16.15.3-4	4/12/06
16.15.3-5	4/12/06

16.9 AUXILIARY SYSTEMS

16.9.21 Standby Shutdown Facility (SSF) External Flood Protection

COMMITMENT SSF External Flood protection integrity shall be maintained.

APPLICABILITY: Whenever the SSF is required to be OPERABLE

ACTIONS

-----NOTE-----

Conditions are not applicable if SSF External Flood protection integrity is breached due to planned maintenance activities which will require contingency measures prior to breaching the barrier.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. SSF External Flood protection integrity maintained $\leq$ 801 feet.	A.1 Perform a risk assessment using the Electronic Risk Assessment Tool.	Immediately
	<u>AND</u>	
	A.2.1 Implement contingency actions in accordance with Table 16.9.21-1.	7 days
	<u>OR</u>	
	A.2.2 Restore the SSF External Flood Protection integrity of SSF building.	7 days
B. SSF External Flood protection integrity of the SSF building maintained $\leq$ 796.5 feet.	B.1 Enter applicable TS Condition.	Immediately



CONDITION	REQUIRED ACTION	COMPLETION TIME
C. Required Actions and Associated Completion Times not met.	C.1 Initiate a PIP.	24 hours

**SURVEILLANCE REQUIREMENTS**

SURVEILLANCE	FREQUENCY
SR 16.9.21.1 NA	NA

**BASES**

This SLC provides monitoring of Maintenance Rule High Safety Significant Function 8094.3, Provide barrier to external flooding of the SSF. Based on information from the Oconee Probabilistic Risk Assessment (PRA), external flood walls were installed at the south and north entrances to the SSF Building to reduce the consequences of a Jocassee dam failure. Following installation of the flood walls, the SSF is protected from flooding to an elevation of 801'. SSF flood barriers are adequate to protect the SSF from the most probable Jocassee dam failure flood scenarios.

Access through the south wall is provided through a water tight door. A stairway over the north flood wall provides access to the north entrance. Flood protection integrity of the SSF must be maintained except for normal ingress and egress through the south side water tight door. In addition to the flood wall located at the north entrance to the SSF and to the flood wall and water tight door located at the south entrance to the SSF, the following features prevent flood water from entering the SSF:

- SSF exterior concrete wall (not located within area protected by north and south flood walls).  
SSF exterior concrete wall located below 801' is credited. Though the SSF exterior concrete wall was not originally designed for external flooding due to a Jocassee dam failure, the design of the SSF exterior concrete wall is considered to be inherently capable of providing adequate flood protection.
- Bolted plate, electrical/temporary access (pipe), and closed valves CO-14 and CO-17, located at CO<sub>2</sub> fill lines that penetrate the South wall of the SSF. Use of the CO<sub>2</sub> system valves to fill and vent the CO<sub>2</sub> system is acceptable because the UFSAR allows the use of seismic boundary valves under procedural controls. These valves are procedurally controlled. Use of the electrical/temporary access pipe is acceptable because the

elevation of the access pipe opening in the SSF is above the elevation of the flood wall that protects the SSF from external flooding.

- SSF sewer system piping including check valve ST-53 and downstream SSF sewer system piping located inside the SSF.

Check valve ST-53 prevents flood water from entering the SSF via the SSF sewer system.

- Piping and electrical exterior wall penetration seals located below 801' elevation.

When flood protection integrity of the SSF is degraded, a risk assessment shall be performed immediately by RA A.1. RA A.1 is required to be performed in conjunction with either, RA A.2.1 to implement compensatory measures in accordance with Table 16.9.21-1 or RA A.2.2 to restore SSF External Flood Protection Integrity within 7 days. A 7-day Completion Time is sufficient for either of these RA.

Table 16.9.21-1  
Compensatory Actions

Com#	Protective Measure	Compensatory Actions
1	Flood protection integrity of the SSF building shall be maintained	<ol style="list-style-type: none"> <li>1. Place sandbags at breach.</li> <li>2. Place sealing materials at breach.</li> <li>3. Take other appropriate measures to provide flood protection to SSF.</li> </ol>

This SLC addresses SSF external flood protection which is considered in the Oconee PRA for floods up to elevation 801'. SSF External flood protection is not a licensed requirement of the SSF. Therefore, entry into Condition A of this SLC does not require entry into any TS. However, there is a potential that the SSF's mitigation of a Turbine Building flood could be affected if a flood protection feature located at an elevation of  $\leq 796.5'$  is defeated. Condition B requires immediate entry into applicable TS (TS 3.10.1 Condition A, B, C, D, and E) if a flood protection feature located at an elevation of  $\leq 796.5'$  is defeated.

Condition C will also initiate a PIP within 24 hours if required actions and associated completion times are not met.

The Actions are modified by a NOTE that states that the Conditions are not applicable if SSF External Flood protection integrity is breached due to planned maintenance activities which require contingency measures prior to breaching the barrier. Contingencies as specified by Table 16.9.21-1 or the Control of Passive Design Features Site Directive will be in place when SSF External Flood protection integrity is intentionally breached. SLC actions will not be required.

REFERENCES

- 1) OSS-0254.00-00-1005, Design Basis Document for SSF ASW System
- 2) Individual Plant Examination of External Events (IPEEE) Submittal Report dated December 21, 1995
- 3) Letter from JW Hampton (Duke) to NRC dated 3/14/94, Providing Response to Several Findings from the Service Water Audit.
- 4) Letter from AF Gibson (NRC) to JW Hampton (Duke) dated 2/21/94, Sending Notice of Violation and Deviation for Service Water Audit.
- 5) Generic Letter 88-20, dated 11/23/88, "Individual Plant Examination for Severe Accident Vulnerabilities"
- 6) Letter from JF Stolz (NRC) to HB Tucker (Duke), dated 8/14/85, Providing Review of the Oconee PRA that was Performed in Conjunction with NAC of EPRI.
- 7) NSD 213, "Risk Management Process."
- 8) NSD 415, "Operational Risk Management (Modes 1-3) per 10 CFR 50.65 (a)(4)."
- 9) NSD 403, "Shutdown Risk Management (Modes 4, 5, 6, and No-Mode) per 10 CFR 50.65 (a)(4)."
- 10) PIP O-05-3770, SSF Risk Reduction PIP
- 11) PIP O-05-4978, Access panel on south side of SSF below flood level
- 12) PIP O-06-740, SSF sewage lift station vent line elevation is too low to prevent backflow into the SSF during a Turbine Building Flood.
- 13) PIP O-06-5375, MRFF on SSF Flood System.
- 14) PIP O-06-5649, NRC letter dated August 31, 2006, issued a preliminary white finding, associated with a failure to maintain control of the standby shutdown facility (SSF) flood protection barrier.
- 15) O-320-Z-3, External Barrier Walls Concrete
- 16) OSC-631, Standby Shutdown Facility Design
- 17) SD 3.2.16, Control of Passive Design Features