



# Management of Spent Fuel Pool Criticality

## Boiling Water Reactors

Spring 2014 Update

BWR	Current Subcriticality Credit	License Amendment Reference	Date updated to
Browns Ferry Unit 1	Boral	LA #42 09/21/1978 ML020040269	February 15, 2014
Browns Ferry Unit 2	Boral	LA #39 09/21/1978 ML020040269	February 15, 2014
Browns Ferry Unit 3	Boral	LA #16 09/21/1978 ML020040269	February 15, 2014
Brunswick Unit 1	Boral (BWR Fuel) 8.95 inch distance for low-density PWR fuel 8.625 in distance for low-density BWR fuel	LA #8 08/26/1977 ML020370382 (low-density racks) LA #61 12/15/1983 ML020380374 (Boral racks)	February 15, 2014
Brunswick Unit 2	Boral (BWR Fuel) 8.95 inch distance for low-density PWR fuel 8.625 inch distance for low-density BWR fuel	LA #30 08/26/1977 ML020370382 (low-density racks) LA #87 12/15/1983 ML020380374 (Boral racks)	February 15, 2014
Clinton	Boral + Metamic + low-density racks + burnup	LA #170 10/31/2005 ML053070593	February 15, 2014
Columbia Generating Station	B4C granule in phenolic resin	<b>B4C is original to plant; therefore there is no license amendment for installation.</b> See LR RAI response ML102440342 p5, 08/19/2010	February 15, 2014
Cooper	Boral + 2 Metamic racks + burnup + Gd in Metamic racks	LA #52 09/29/1978 ML021350079 (Boral) LA #227 09/06/2007 ML072130023 (Metamic + burnup) Holtec Licensing Report 10/07/2006 ML062990432 p48 (Gd credit)	February 15, 2014
Dresden Unit 2	Boral	LA #74 08/27/1982 ML021150164	February 15, 2014
Dresden Unit 3	Boral	LA #66 08/27/1982 ML021150164	February 15, 2014
Duane Arnold	Boral + Gd burnable absorbers	LA #195 02/02/1994 ML021910481 (Boral) LA #226 06/08/1999 ML021920201 (add GE 10x10 fuel)	February 15, 2014
Edwin I. Hatch Unit 1	Boral	LA #74 04/21/80 ML012950485 (Boral) LA #220 03/23/00 ML003711959 (168 rack cells)	February 15, 2014
Edwin I. Hatch Unit 2	Boral	LA #15 04/21/80 ML012950485 (Boral) LA #161 03/23/00 ML003711959 (168 rack cells)	February 15, 2014
Fermi Unit 2	Boraflex + Boral + Gd burnable absorber	LA #141 01/25/2001 ML011150103	February 15, 2014
Grand Gulf Unit 1	Boraflex + storage patterns	LA #17 08/18/1986 ML021420285 LA #195 9/25/13 ML13261A264	February 15, 2014
Hope Creek Unit 1	Boral	<b>No Amendment for Boral Installation.</b> Boral monitoring in place; see SER for LR ML110690244 p314, 03/09/2011	February 15, 2014
James A. Fitzpatrick	Boral + Gd burnable absorbers	SER for LA #256 11/10/1999 ML993260026	February 15, 2014

La Salle County Unit 1	Boral + storage patterns/burnup + Gadolinia rods	LA #90 02/24/1993 ML021120427	February 15, 2014
La Salle County Unit 2	Rio Tinto Alcan NETCO Snap-In Inserts	LA #186 01/29/2011 ML 110250251 Withdrawal of LAR and notification of completion, 01/06/2012, ML120060432	February 15, 2014
Limerick Unit 1	Boral	LA #82 11/29/1994 ML011560690	February 15, 2014
Limerick Unit 2	Boral	LA #82 11/29/1994 ML011560690	February 15, 2014
Monticello	Boral	LA #34 04/14/1978 ML020880176	February 15, 2014
Nine Mile Point Unit 1	Boraflex + Boral	LA #54 02/01/1984 ML010990385 (Boraflex) LA #167 06/17/1999 ML011030037 (Boral)	February 15, 2014
Nine Mile Point Unit 2	Boral	<b>No amendment found in ADAMS for Boral Installation</b> See Holtec criticality analysis ML103500365 12/13/2010	February 15, 2014
Oyster Creek Unit 1	Boraflex (2645 cells) + Boral (390 cells) + Gd burnable absorbers	LA #76 09/17/1984 ML011160078 (Boraflex) LA #179 04/10/1995 ML011220244 (Gd) LA #215 09/15/2000 ML003730135 (Boral)	February 15, 2014
Peach Bottom Unit 2	Boraflex, storage patterns, burnup during installation of NETCO Snap-in inserts	LA #116 02/19/1986 (Boraflex) ML021570574 LA#287 5/21/2013 (to install Snap-in) ML13114A929	February 15, 2014
Peach Bottom Unit 3	Boraflex, storage patterns, burnup during installation of NETCO Snap-in inserts	LA #120 02/19/1986 (Boraflex) ML021570574 LA#290 5/21/2013 (to install Snap-in) ML13114A929	February 15, 2014
Perry Unit 1	No public reference to neutron absorber or subcriticality credit found	<b>No amendment found in ADAMS</b>	February 15, 2014
Pilgrim Unit 1	Boraflex + Boral + Metamic	LA #33 08/17/1978 ML011910005 (Install Boral) LA#155 06/22/1994 ML011940178 (Install more Boral) <b>No LA found for installation of Boraflex or Metamic</b> LR SER on 6/28/2007 ML071410455 (Boraflex) LR Supp. SER on 6/30/2011 ML11147A036 (Metamic)	February 15, 2014
Quad Cities Unit 1	Boraflex + storage patterns	LA #79 06/09/1982 ML020940141	February 15, 2014
Quad Cities Unit 2	Boraflex + storage patterns	LA #79 06/09/1982 ML020940141	February 15, 2014
River Bend Unit 1	Boraflex II	See Licence Amendment Request ML13214A334 7/29/13	February 15, 2014
Susquehanna Unit 1	Boral	<b>Boral is original to plant; therefore there is no license amendment for installation;</b> see SER for License Renewal ML093170792 p249, 11/30/2009	February 15, 2014
Susquehanna Unit 2	Boral	<b>Boral is original to plant; therefore there is no license amendment for installation;</b> see SER for License Renewal ML093170792 p249, 11/30/2009	February 15, 2014
Vermont Yankee	Boral	LA #104 05/20/88 ML011640093	February 15, 2014

March 7, 2014

# Management of Spent Fuel Pool Criticality

Decommissioned Plants which still hold fuel in either wet or dry storage

Spring 2014 update

Plant	Plant type	Pool status	Sources	Date pdated to
LaCrosse	BWR	Empty	Correspondance 10/31/2012 ML12264A384	February 15, 2014
Millstone Unit 1	BWR	Active	Decommission cost update ML103420582 06/23/2009 p55	February 15, 2014
Zion Units 1+2 Shared pool	PWR	Actively removing fuel	Letter intent remove all fuel to ISFSI ML13301A078, 9/22/13	February 15, 2014