

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	B4C is original to plant; therefore there is no license amendment for installation. 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	No Amendment for Boral Installation. 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	No amendment found in ADAMS for Boral Installation 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	No amendment found in ADAMS	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) No LA found for installation of Boraflex or Metamic 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	Boral is original to plant; therefore there is no license amendment for installation; see SER for License Renewal ML093170792 p249, 11/30/2009	February 15, 2014
Susquehanna Unit 2	Boral	Boral is original to plant; therefore there is no license amendment for installation; 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

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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