

**Disposition Destination of LLW Assumed in Preliminary Decommissioning Cost Estimates<sup>1</sup>**

						Class A, B, C & GTCC Waste Disposal	Processed Waste Disposal	Total Volume of Waste Generated	Percent of Processed Waste	Percent of Direct Disposal
PLANT	TYPE	CAPACITY (MWe)	METHOD	DOCKET NO.	ADAMS NO. <sup>2</sup>	Volume (Thousands ft <sup>3</sup> )	Volume (Thousands ft <sup>3</sup> )	(Direct + Vendor Disposal)	(Vendor Disposal Option)	(Direct Disposal)
<b>Braidwood 1:</b>	PWR	1178		50-456	ML100120241 - 01/11/2010					
Scenario 1			DECON			114	192	306	62.74%	37.26%
Scenario 2			SAFSTOR			106	223	329	67.88%	32.12%
<b>Braidwood 2:</b>	PWR	1152		50-457	ML100120241 - 01/11/2010					
Scenario 1			DECON			114	192	306	62.74%	37.26%
Scenario 2			SAFSTOR			106	223	329	67.88%	32.12%
<b>Byron 1:</b>	PWR	1164		50-454	ML093210130 - 11/16/2009					
Scenario 1			DECON			115	189	304	62.17%	37.83%
Scenario 2			SAFSTOR			107	222	329	67.57%	32.43%
<b>Byron 2:</b>	PWR	1136		50-455	ML093210130 - 11/16/2009					
Scenario 1			DECON			115	189	304	62.17%	37.83%
Scenario 2			SAFSTOR			107	222	329	67.57%	32.43%
<b>Columbia Generating Station (PNNL Study)<sup>b</sup></b>	BWR	1100	DECON	50-397		534	Not applicable	534	Not available	100.00%
<b>Cooper:</b>	BWR	830		50-298	ML083580119 - 12/15/2008					
Scenario 1			2014 DECON			239	320	559	57.25%	42.75%
Scenario 2			2014 SAFSTOR			229	385	614	62.70%	37.30%
<b>Diablo Canyon 1:</b>	PWR	1122		50-275	ML050960544 - 02/12/2002					
Scenario 1			DECON			116	Not available	116	Not available	100.00%
Scenario 2			SAFSTOR			102	Not available	102	Not available	100.00%
<b>Diablo Canyon 2:</b>	PWR	1118		50-323	ML050960544 - 02/12/2002					
Scenario 1			SAFSTOR			110	Not available	110	Not available	100.00%
Scenario 2			DECON			124	Not available	124	Not available	100.00%
<b>Duane Arnold:</b>	BWR	580		50-331	ML100540029 - 01/27/2010					
Scenario 1			DECON			401	Not available	401	Not available	100.00%
Scenario 2			SAFSTOR			401	Not available	401	Not available	100.00%
<b>Hope Creek</b>	BWR	1061	SAFSTOR		ML091820277 - 06/23/2009	228	233	461	50.54%	49.46%
<b>Kewaunee:</b>	PWR	556	DECON	50-305	ML091880777 - 06/16/2006	97	13	110	11.42%	88.58%
<b>LaSalle 1:</b>	BWR	1118		50-373	ML092400244 - 08/27/2009					
Scenario 1			DECON			181	679	860	78.95%	21.05%
Scenario 2			SAFSTOR			125	686	811	84.59%	15.41%
<b>LaSalle 2:</b>	BWR	1120		50-374	ML092400244 - 08/27/2009					
Scenario 1			DECON			115	679	794	85.52%	14.48%
Scenario 2			SAFSTOR			125	686	811	84.59%	15.41%
<b>Monticello</b>	BWR	572	DECON	50-263	ML0613806380 - 05/05/2006	59	50	109	45.67%	54.33%
<b>Oyster Creek:</b>	BWR	619		50-219	ML041130434 - 04/14/2004					
Scenario 1			DECON			310	386	696	55.50%	44.50%
Scenario 2			SAFSTOR			266	457	723	63.15%	36.85%

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PLANT	TYPE	CAPACITY (MWe)	METHOD	DOCKET NO.	ADAMS NO. <sup>2</sup>	Volume (Thousands ft <sup>3</sup> )	Volume (Thousands ft <sup>3</sup> )	(Direct + Vendor Disposal)	(Vendor Disposal Option)	(Direct Disposal)
Palisades	PWR	778	SAFSTOR	50-255	ML062840446 - 10/10/2006	169	326	495	65.83%	34.17%
Pilgrim	BWR	685	SAFSTOR	50-293	ML082170672 - 07/16/2008	199	409	608	67.24%	32.76%
Prairie Island 1	PWR	551	DECON	50-282	ML082260425 - 08/08/2008	110	55	165	33.33%	66.67%
Prairie Island 2	PWR	545	DECON	50-306	ML082260425 - 08/08/2008	110	55	165	33.33%	66.67%
Salem 1	PWR	1174	DECON	50-272	ML081050556 - 04/07/2008	105	25	130	19.17%	80.83%
Salem 2	PWR	1130	DECON	50-311	ML081050556 - 04/07/2008	113	25	138	18.16%	81.84%
Three Mile Island 1:	PWR	819		50-289	ML091170630 - 02/11/2009					
Scenario 1			DECON			223	180	403	44.68%	55.32%
Scenario 2			SAFSTOR			186	248	434	57.20%	42.80%
Trojan (PNNL Study) <sup>a</sup>	PWR	1130	DECON			291	Not applicable	291	Not available	100.00%
Vermont Yankee:	BWR	620		50-271	ML080430658 - 02/06/2008					
Scenario 1			DECON			334	340	674	50.48%	49.52%
Scenario 2			SAFSTOR			349	347	696	49.91%	50.09%

<sup>1</sup>The NRC staff with PNNL support is updating NUREG-1307, Revision 14, and as part of the update, we are also evaluating several site specific disposal cost estimates that were submitted in various year dollars to the NRC. To make sensible comparisons between the disposal cost estimates, the costs were converted to 2009 dollars. The escalation factor developed for waste disposal is 1.046 percent annual factor.

<sup>2</sup>All information is available thru the United States Nuclear Regulatory Commission's Public Website in the Agencywide Documents Access and Management System (ADAMS) .

<sup>a</sup>Waste volumes from 1995 PNNL Study (NUREG/CR-5884)

<sup>b</sup>Waste volumes from 1996 PNNL Study (NUREG/CR-6174)

**Note:** Not applicable - the site specific cost estimate did not consider an option to use waste processing vendors; direct disposal of LLW was the only option considered.