



Nuclear Decommissioning Minimum Cost Estimates Based on Labor and Energy Escalation Factors as of December 2011 and Burial Cost Factors per NUREG 1307, Revision 14, Issued November 2010

Labor Region	Reactor	Compact	Burial Contract	Cost (\$MM) ¹	Compound Growth (%) ²	% Change '10 - '11
Northeast	PWR	Atlantic	Direct	837.0	8.7%	1.0%
Northeast	PWR	Atlantic	Waste Vendor	490.2	6.4%	1.7%
Northeast	PWR	Non-Atlantic	Direct	837.0	8.7%	1.0%
Northeast	PWR	Non-Atlantic	Waste Vendor	490.2	6.4%	1.7%
Northeast	BWR	Atlantic	Direct	990.2	8.3%	1.1%
Northeast	BWR	Atlantic	Waste Vendor	639.3	6.4%	1.8%
Northeast	BWR	Non-Atlantic	Direct	990.2	8.3%	1.1%
Northeast	BWR	Non-Atlantic	Waste Vendor	639.3	6.4%	1.8%
South	PWR	Atlantic	Direct	821.3	8.6%	1.0%
South	PWR	Atlantic	Waste Vendor	474.5	6.2%	1.7%
South	PWR	Non-Atlantic	Direct	821.3	8.6%	1.0%
South	PWR	Non-Atlantic	Waste Vendor	474.5	6.2%	1.7%
South	BWR	Atlantic	Direct	970.1	8.2%	1.1%
South	BWR	Atlantic	Waste Vendor	619.1	6.3%	1.7%
South	BWR	Non-Atlantic	Direct	970.1	8.2%	1.1%
South	BWR	Non-Atlantic	Waste Vendor	619.1	6.3%	1.7%
Midwest	PWR	Non-Atlantic	Direct	827.4	8.6%	0.9%
Midwest	PWR	Non-Atlantic	Waste Vendor	480.6	6.3%	1.6%
Midwest	BWR	Non-Atlantic	Direct	978.0	8.2%	1.1%
Midwest	BWR	Non-Atlantic	Waste Vendor	627.0	6.3%	1.7%
West	PWR	Non-Atlantic	Direct	827.4	8.6%	0.9%
West	PWR	Non-Atlantic	Waste Vendor	480.6	6.3%	1.6%
West	PWR	Northwest	Direct	382.6	5.3%	2.1%
West	PWR	Northwest	Waste Vendor	349.2	4.9%	2.3%
West	BWR	Non-Atlantic	Direct	978.0	8.2%	1.1%
West	BWR	Non-Atlantic	Waste Vendor	627.0	6.3%	1.7%
West	BWR	Northwest	Direct	475.0	5.2%	2.2%
West	BWR	Northwest	Waste Vendor	416.7	4.6%	2.5%

Prepared by: Duff & Phelps Investment Management Co. January 2012

¹Based on escalation formula of 0.65L (labor) + 0.13E (energy) + 0.22B (burial) and 1986 Base Cost of \$105 million for PWR Reactor and \$135 million for BWR Reactor.

²Compound Growth = Annualized % change over 25 years from 1986 Base Cost.



**Nuclear Decommissioning Minimum Cost Estimate Escalation Factors
 As of December 2011 for Labor and Energy and Burial Cost Factors
 per NUREG 1307, Revision 14, Issued November 2010**

Labor Factors as of December 2011	
Northeast	2.51
South	2.28
Midwest	2.37
West	2.37

Energy Factors as of December 2011	
PWR (1)	2.580
BWR (2)	2.656

	Burial Factors Effective 2010	
	PWR (1)	BWR (2)
Washington Burial Site (3)		
Direct	8.035	7.423
Waste Vendor	6.588	5.458
Barnwell, South Carolina Burial Site		
Atlantic Compact (4)		
Direct	27.292	24.356
Waste Vendor	12.280	12.54
Non-Atlantic Compact (5)		
Direct	27.292	24.356
Waste Vendor	12.28	12.54

- (1) Pressurized Water Reactor
- (2) Boiling Water Reactor
- (3) Applicable to Northwest and Rocky Mountain Compacts
- (4) Atlantic Compact Consists of Connecticut, New Jersey and South Carolina for burial at Barnwell, South Carolina
- (5) NRC is assuming Atlantic Compact Factors will apply to Non-Atlantic Compact even though Barnwell burial site stopped accepting waste from outside the Atlantic Compact as of 7-1-08

Note: This report was compiled for educational purposes by Duff & Phelps Investment Management Co. from public sources. Information contained herein, including material supplied by others, is believed to be accurate, but cannot be guaranteed.