

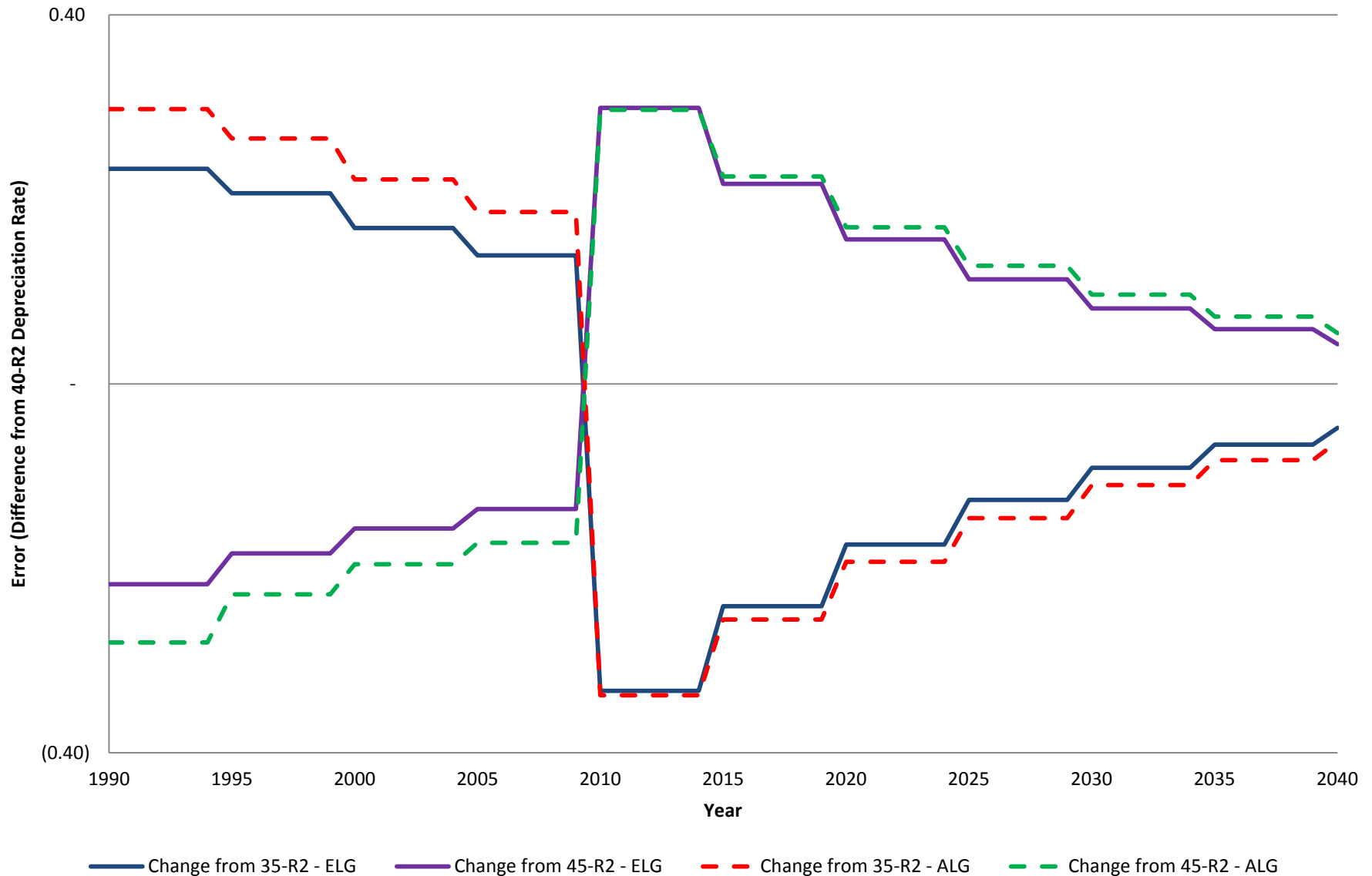
1 **Q. [ELG] – Please provide all input and output values on electronic medium in Excel**
2 **readable format with all formulas intact corresponding to the calculations relating**
3 **to each “Figure” in Appendix A under the heading Forecast Error for ELG and**
4 **ALG Calculation Procedures. Further, clearly identify which lines in Figure 1 are**
5 **the “dashed lines,” as referred to on page 10 of Appendix A.**

6
7 **A.** An electronic version of the requested data can be found in “CA-NP-632, Attachment
8 A.xlsx” on Newfoundland Power’s stranded website at the link <ftp.nfpower.nf.ca>.
9

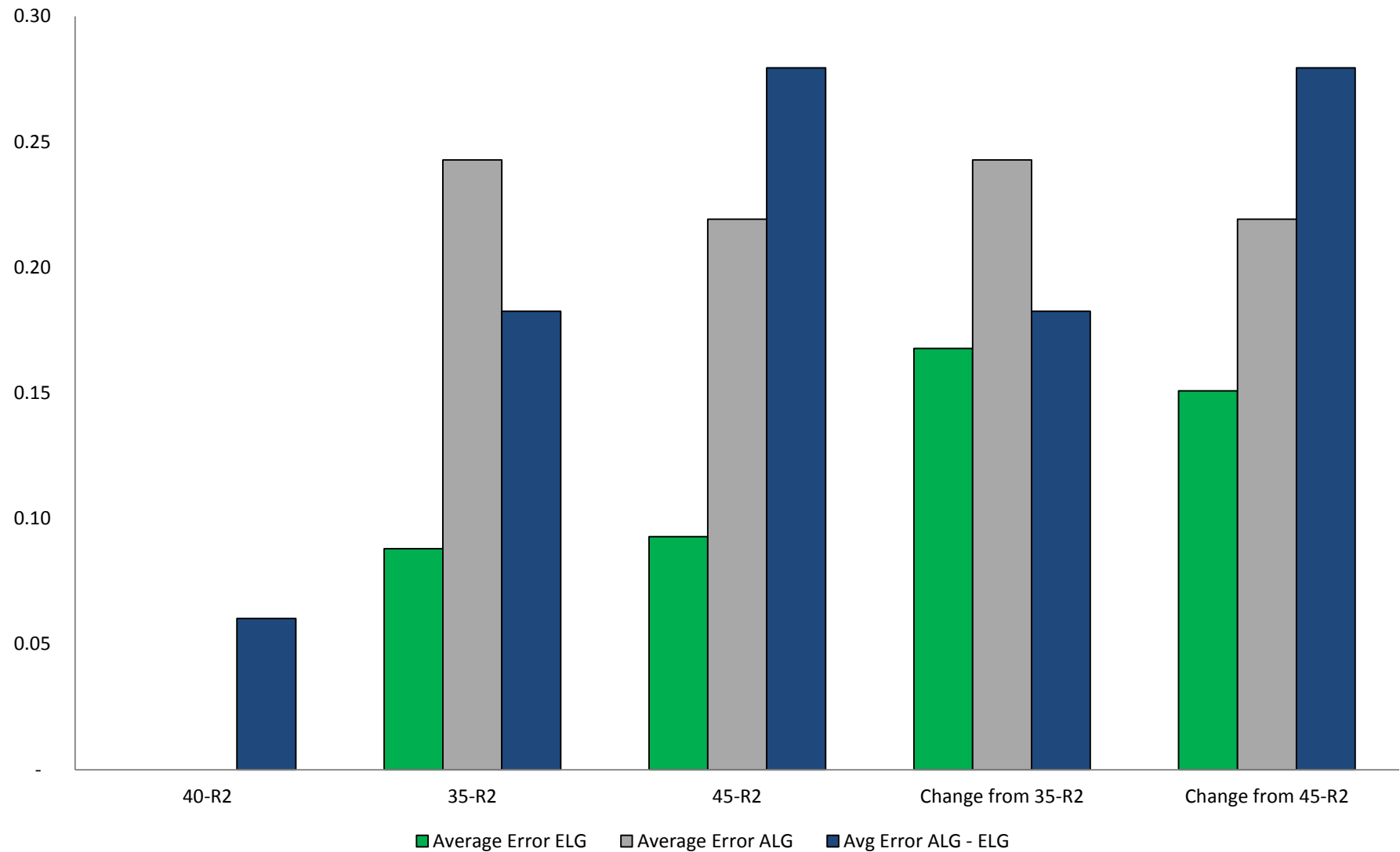
10 The dashed lines referred to on page 10 of Appendix A are the red line representing the
11 differences in depreciation rates between scenarios 2 and scenario 1 and the green line
12 representing the differences in depreciation rates between scenarios 3 and scenario 1,
13 both using the ALG procedure. The formatting of the red and green lines should have
14 been dashed and not solid. The reformatted Figure 1 is provided in the electronic version
15 of the data requested for this Request for Information, and a revised page 10 of Appendix
16 A is being filed together with this response.

**Calculation of Annual Depreciation Rates and Accruals For Depreciation Scenarios Based
on ELG Calculation Procedure**

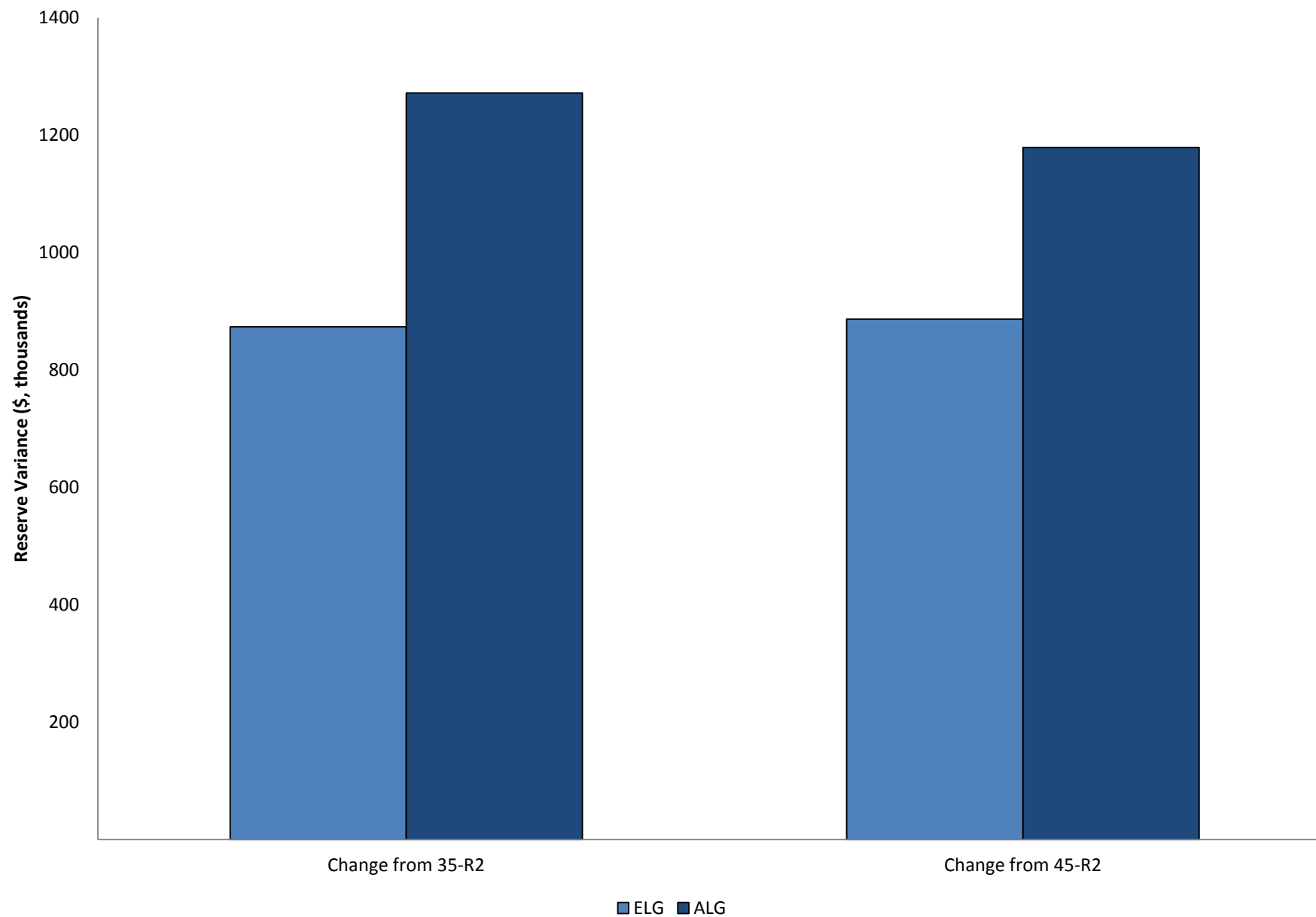
Comparison of Error for ELG and ALG Procedures Based on Correction in Service Life Estimates from 5 Year Difference from Actual Service Life



Comparison in Error Between ELG and ALG Procedures, Based on Correction in Service Life Estimates from 5 Year Difference from Actual Service Life



Comparison of Reserve Variance at Time of Change to 40-R2 Survivor Curve



Newfoundland Power**Comparison of Reserve Variance at Change to 40-R2 Survivor Curve**

	<u>ELG Book Reserve</u>	<u>ELG Theoretical Reserve</u>	<u>Variance</u>	<u>ALG Book Reserve</u>	<u>ALG Theoretical Reserve</u>	<u>Variance</u>
<i>Change from 35-R2 Survivor Curve to 40-R2 Survivor Curve</i>						
2010	17,426,002.39	16,552,615.00	(873,387.39)	15,634,744.70	14,362,950.00	(1,271,794.70)
<i>Change from 45-R2 Survivor Curve to 40-R2 Survivor Curve</i>						
2010	13,102,320.23	13,988,706.00	886,385.77	10,620,533.92	11,799,451.00	1,178,917.08

	<u>Chart Data</u>	
	<u>ELG</u>	<u>ALG</u>
Change from 35-R2	873,387.39	1,271,794.70
Change from 45-R2	886,385.77	1,178,917.08

Newfoundland Power
Calculation of Annual Depreciation Rates and Accruals For Depreciation Scenarios Based on ELG Calculation Procedure

Net Salvag 0

Accumulated Depreciation Based on 40-R2 Survivor Curve										Accumulated Depreciation Based on 35-R2 Survivor Curve										Accumulated Depreciation Based on 45-R2 Survivor Curve									
	Additions	Retirements	Balance	RL	Rate	Accruals	Retirements	Net Salvage	Book Reserve	RL	Rate	Accruals	Retirements	Net Salvage	Book Reserve	RL	Rate	Accruals	Retirements	Net Salvage	Book Reserve								
1990			29,112,088.16	20.46	2.51				14,133,486.00 (1)	17.28	2.75				15,288,945.00 (1)	23.9	2.30					13,127,421.00 (1)							
1991	873,362.64	(1,091,173.06)	28,894,277.74		2.51	729,353.31	(1,091,173.06)	-	13,771,666.25		2.75	796,957.89	(1,091,173.06)	-	14,994,729.83		2.30	666,312.56	(1,091,173.06)	-		12,702,560.50							
1992	866,828.33	(945,772.59)	28,815,333.48		2.51	725,622.02	(945,772.59)	-	13,551,515.68		2.75	792,880.73	(945,772.59)	-	14,841,837.97		2.30	662,903.77	(945,772.59)	-		12,419,691.69							
1993	864,460.00	(859,836.48)	28,819,957.00		2.51	724,687.53	(859,836.48)	-	13,416,366.73		2.75	791,859.63	(859,836.48)	-	14,773,861.11		2.30	662,050.06	(859,836.48)	-		12,221,905.27							
1994	864,598.71	(801,709.53)	28,882,846.18	21.05	2.51	725,536.41	(801,709.53)	-	13,340,193.62	17.63	2.75	792,787.19	(801,709.53)	-	14,764,938.77	24.58	2.30	662,825.57	(801,709.53)	-		12,083,021.31							
1995	866,485.39	(759,835.03)	28,989,496.54		2.57	727,668.15	(759,835.03)	-	13,308,026.74		2.78	795,116.52	(759,835.03)	-	14,800,220.27		2.30	664,773.05	(759,835.03)	-		11,987,959.33							
1996	869,684.90	(728,654.97)	29,130,526.47		2.57	746,775.01	(728,654.97)	-	13,326,146.77		2.78	806,794.71	(728,654.97)	-	14,878,360.00		2.30	693,364.21	(728,654.97)	-		11,952,668.57							
1997	873,915.79	(705,059.86)	29,299,382.40		2.57	750,756.68	(705,059.86)	-	13,371,843.60		2.78	811,096.40	(705,059.86)	-	14,984,396.54		2.30	697,061.11	(705,059.86)	-		11,944,669.82							
1998	878,981.47	(687,130.91)	29,491,232.96	21.11	2.57	755,391.34	(687,130.91)	-	13,440,104.03	17.63	2.78	816,103.56	(687,130.91)	-	15,113,369.19	24.67	2.30	701,364.29	(687,130.91)	-		11,958,903.20							
1999	884,736.99	(673,598.29)	29,702,371.66		2.57	760,569.29	(673,598.29)	-	13,527,075.03		2.78	821,697.66	(673,598.29)	-	15,261,468.56		2.30	706,171.90	(673,598.29)	-		11,991,476.80							
2000	891,071.15	(663,576.69)	29,929,866.12		2.58	766,205.22	(663,576.69)	-	13,629,703.55		2.75	827,786.56	(663,576.69)	-	15,425,678.43		2.42	711,404.73	(663,576.69)	-		12,039,304.85							
2001	897,895.98	(656,422.91)	30,171,339.19		2.58	775,268.46	(656,422.91)	-	13,748,549.10		2.75	826,018.00	(656,422.91)	-	15,595,273.52		2.42	728,120.45	(656,422.91)	-		12,111,002.39							
2002	905,140.18	(651,653.98)	30,424,825.39	21.03	2.58	781,653.13	(651,653.98)	-	13,878,548.25	17.53	2.75	832,820.61	(651,653.98)	-	15,776,440.15	24.6	2.42	734,116.83	(651,653.98)	-		12,193,465.24							
2003	912,744.76	(648,897.15)	30,688,673.00		2.58	788,326.41	(648,897.15)	-	14,017,977.51		2.75	839,930.74	(648,897.15)	-	15,967,473.74		2.42	740,384.28	(648,897.15)	-		12,284,952.37							
2004	920,660.19	(647,858.19)	30,961,475.00		2.58	795,248.86	(647,858.19)	-	14,165,368.18		2.75	847,300.33	(647,858.19)	-	16,166,921.88		2.42	746,885.74	(647,858.19)	-		12,383,979.93							
2005	928,844.25	(648,300.08)	31,242,019.17		2.58	802,386.69	(648,300.08)	-	14,319,454.79		2.71	854,911.40	(648,300.08)	-	16,373,533.20		2.44	753,589.48	(648,300.08)	-		12,489,269.33							
2006	937,260.58	(650,028.73)	31,529,251.02	20.91	2.58	808,385.90	(650,028.73)	-	14,477,811.96	17.4	2.71	852,072.71	(650,028.73)	-	16,575,577.19	24.48	2.44	765,811.14	(650,028.73)	-		12,605,051.74							
2007	945,877.53	(652,882.72)	31,822,245.83		2.58	815,858.22	(652,882.72)	-	14,640,787.45		2.71	859,948.85	(652,882.72)	-	16,782,643.32		2.44	772,889.92	(652,882.72)	-		12,725,058.94							
2008	954,667.37	(656,725.71)	32,120,187.49		2.58	823,468.46	(656,725.71)	-	14,807,530.21		2.71	867,970.37	(656,725.71)	-	16,993,887.98		2.44	780,099.36	(656,725.71)	-		12,848,432.59							
2009	963,605.62	(661,441.36)	32,422,351.75		2.58	831,196.79	(661,441.36)	-	14,977,285.64		2.71	876,116.36	(661,441.36)	-	17,208,562.98		2.44	787,420.67	(661,441.36)	-		12,974,411.90							
2010	972,670.55	(666,928.81)	32,728,093.49	20.91	2.57	839,025.58	(666,928.81)	-	15,149,382.41	17.4	2.69	884,368.22	(666,928.81)	-	17,426,002.39	24.48	2.45	794,837.14	(666,928.81)	-		13,102,320.23							
2011	981,842.80	(673,099.69)	33,036,836.60		2.57	844,649.75	(673,099.69)	-	15,320,932.46		2.69	883,578.61	(673,099.69)	-	17,636,481.31		2.45	805,487.91	(673,099.69)	-		13,234,708.44							
2012	991,105.10	(679,875.80)	33,348,065.90		2.57	852,612.34	(679,875.80)	-	15,493,669.01		2.69	891,908.19	(679,875.80)	-	17,848,513.71		2.45	813,081.32	(679,875.80)	-		13,367,913.96							
2013	1,000,441.98	(687,186.80)	33,661,321.08		2.57	860,632.89	(687,186.80)	-	15,667,115.09		2.69	900,298.40	(687,186.80)	-	18,061,625.30		2.45	820,730.00	(687,186.80)	-		13,501,457.16							
2014	1,009,839.63	(694,968.86)	33,976,191.85	20.81	2.57	868,700.20	(694,968.86)	-	15,840,846.43	17.31	2.69	908,737.53	(694,968.86)	-	18,275,393.97	24.37	2.45	828,423.27	(694,968.86)	-		13,634,911.57							
2015	1,019,285.76	(703,163.48)	34,292,314.13		2.56	876,804.34	(703,163.48)	-	16,014,487.30		2.66	917,215.17	(703,163.48)	-	18,489,445.66		2.46	836,151.67	(703,163.48)	-		13,767,899.75							
2016	1,028,769.42	(711,716.55)	34,609,367.00		2.56	882,379.70	(711,716.55)	-	16,185,150.44		2.66	917,153.20	(711,716.55)	-	18,694,882.32		2.46	846,093.34	(711,716.55)	-		13,902,276.54							
2017	1,038,281.01	(720,577.16)	34,927,070.85		2.56	890,508.62	(720,577.16)	-	16,355,081.91		2.66	925,602.48	(720,577.16)	-	18,899,907.63		2.46	853,887.97	(720,577.16)	-		14,035,587.35							
2018	1,047,812.13	(729,697.48)	35,245,185.50	20.74	2.56	898,651.14	(729,697.48)	-	16,524,035.57	17.26	2.66	934,065.88	(729,697.48)	-	19,104,276.03	24.3	2.46	861,695.64	(729,697.48)	-		14,167,585.51							
2019	1,057,355.56	(739,031.99)	35,563,509.07		2.56	906,801.60	(739,031.99)	-	16,691,805.18		2.66	942,537.54	(739,031.99)	-	19,307,781.58		2.46	869,510.93	(739,031.99)	-		14,298,064.45							
2020	1,066,905.27	(748,537.26)	35,881,877.08		2.56	914,955.30	(748,537.26)	-	16,858,223.22		2.64	951,012.57	(748,537.26)	-	19,510,256.89		2.46	877,329.32	(748,537.26)	-		14,426,856.51							
2021	1,076,456.31	(758,171.54)	36,200,161.85		2.56	921,312.78	(758,171.54)	-	17,021,364.46		2.64	952,736.45	(758,171.54)	-	19,704,821.80		2.46	886,838.57	(758,171.54)	-		14,555,523.54							
2022	1,086,004.86	(767,894.77)	36,518,271.94	20.72	2.56	929,446.83	(767,894.77)	-	17,182,916.52	17.26	2.64	961,147.93	(767,894.77)	-	19,898,074.97	24.26	2.46	894,668.26	(767,894.77)	-		14,682,297.03							
2023	1,095,548.16	(777,668.32)	36,836,151.78		2.56	937,575.70	(777,668.32)	-	17,342,823.90		2.64	969,554.06	(777,668.32)	-	20,089,960.97		2.46	902,492.96	(777,668.32)	-		14,807,121.67							
2024	1,105,084.55	(787,455.44)	37,153,780.89		2.56	945,698.42	(787,455.44)	-	17,501,066.88		2.64	977,953.83	(787,455.44)	-	20,280,459.10		2.46	910,311.74	(787,455.44)	-		14,929,977.97							
2025	1,114,613.43	(797,220.77)	37,471,173.55		2.55	953,814.92	(797,220.77)	-	17,657,661.03	17.24	2.63	986,347.16	(797,220.77)	-	20,469,585.49	24.26	2.47	918,124.53	(797,220.77)	-		15,050,881.73							
2026	1,124,135.21	(806,930.98)	37,788,377.78	20.72	2.55	960,298.07	(806,930.98)	-	17,811,028.13		2.63	990,345.11	(806,930.98)	-	20,652,999.62		2.47	928,078.69	(806,930.98)	-		15,172,029.43							
2027	1,133,651.33	(816,554.66)	38,105,474.45		2.55	968,391.64	(816,554.66)	-	17,962,865.10		2.63	998,691.92	(816,554.66)	-	20,835,136.87		2.47	935,900.70	(816,554.66)	-		15,291,375.47							
2028	1,143,164.23	(826,063.14)	38,422,575.54		2.55	976,483.88	(826,063.14)	-	18,113,285.84		2.63	1,007,037.36	(826,063.14)	-	21,016,111.10		2.47	943,721.44	(826,063.14)	-		15,409,033.77							
2029	1,152,677.27	(835,429.98)	38,739,822.83	20.72	2.55	984,578.05	(835,429.98)	-	18,262,433.91	17.24	2.63	1,015,384.79	(835,429.98)	-	21,196,065.91	24.26	2.47	951,544.04	(835,429.98)	-		15,525,147.83							
2030	1,162,194.68	(844,632.10)	39,057,385.41		2.55	992,678.11	(844,632.10)	-	18,410,479.92		2.63	1,023,738.00	(844,632.10)	-	21,375,172.11		2.47	959,372.33	(844,632.10)	-		15,639,888.05							
2031	1,171,721.56	(853,649.76)	39,375,457.21		2.55	1,000,529.76	(853,649.76)	-	18,557,359.92		2.63	1,029,826.72	(853,649.76)	-	21,551,349.07		2.47	969,202.39	(853,649.76)	-		15,755,440.68							
2032	1,181,263.72	(862,466.92)	39,694,254.01		20.74	2.55	1,008,659.92	(862,466.92)	-	18,705,549.92	17.26	2.63	1,038,188.83	(862,466.92)	-	21,727,070.98	24.28	2.47	977,072.24	(862,466.92)	-		15,870,046.00						
2033	1,190,827.62	(871,009.82)	39,985,263.83	2.55		1,016,799.69	(871,009.82)	-	18,854,774.06	2.63		1,046,574.06	(871,009.82)	-	21,902,572.83	2.47		977,072.24	(871,009.82)	-		15,983,178.00							
2034	1,200,420.29	(879,456.89)	40,334,972.22	2.55		1,024,973.04	(879,456.89)	-	19,004,973.04	2.63		1,054,985.73	(879,456.89)	-	22,078,010.27	2.47		992,880.32	(879,456.89)	-		16,100,880.32							
2035	1,210,049.20	(887,619.51)	40,657,402.91	20.74		2.55	1,033,180.91	(887,6																					

Newfound
Calculation

Net Salvage

Accumulated Depreciation Based on 35-R2 Survivor Curve through 2009, 40-R2 2010 and Subsequent							Accumulated Depreciation Based on 45-R2 Survivor Curve through 2009, 40-R2 2010 and Subsequent						
Year	RL	Rate	Accruals	Retirements	Net Salvage	Book Reserve	RL	Rate	Accruals	Retirements	Net Salvage	Book Reserve	(1)
1990	17.28	2.75				15,288,945.00	23.9	2.30				13,127,421.00	(1)
1991		2.75	796,957.89	(1,091,173.06)	-	14,994,729.83		2.30	666,312.56	(1,091,173.06)	-	12,702,560.50	
1992		2.75	792,880.73	(945,772.59)	-	14,841,837.97		2.30	662,903.77	(945,772.59)	-	12,419,691.69	
1993		2.75	791,859.63	(859,836.48)	-	14,773,861.11		2.30	662,050.06	(859,836.48)	-	12,221,905.27	
1994		2.75	792,787.19	(801,709.53)	-	14,764,938.77		2.30	662,825.57	(801,709.53)	-	12,083,021.31	
1995	17.63	2.78	795,116.52	(759,835.03)	-	14,800,220.27	24.58	2.39	664,773.05	(759,835.03)	-	11,987,959.33	
1996		2.78	806,794.71	(728,654.97)	-	14,878,360.00		2.39	693,364.21	(728,654.97)	-	11,952,668.57	
1997		2.78	811,096.40	(705,059.86)	-	14,984,396.54		2.39	697,061.11	(705,059.86)	-	11,944,669.82	
1998		2.78	816,103.56	(687,130.91)	-	15,113,369.19		2.39	701,364.29	(687,130.91)	-	11,958,903.20	
1999		2.78	821,697.66	(673,598.29)	-	15,261,468.56		2.39	706,171.90	(673,598.29)	-	11,991,476.80	
2000	17.63	2.75	827,786.56	(663,576.69)	-	15,425,678.43	24.67	2.42	711,404.73	(663,576.69)	-	12,039,304.85	
2001		2.75	826,018.00	(656,422.91)	-	15,595,273.52		2.42	728,120.45	(656,422.91)	-	12,111,002.39	
2002		2.75	832,820.61	(651,653.98)	-	15,776,440.15		2.42	734,116.83	(651,653.98)	-	12,193,465.24	
2003		2.75	839,930.74	(648,897.15)	-	15,967,473.74		2.42	740,384.28	(648,897.15)	-	12,284,952.37	
2004		2.75	847,306.33	(647,858.19)	-	16,166,921.88		2.42	746,885.74	(647,858.19)	-	12,383,979.93	
2005	17.53	2.71	854,911.40	(648,300.08)	-	16,373,533.20	24.6	2.44	753,589.48	(648,300.08)	-	12,489,269.33	
2006		2.71	852,072.71	(650,028.73)	-	16,575,577.19		2.44	765,811.14	(650,028.73)	-	12,605,051.74	
2007		2.71	859,948.85	(652,882.72)	-	16,782,643.32		2.44	772,889.92	(652,882.72)	-	12,725,058.94	
2008		2.71	867,970.37	(656,725.71)	-	16,993,887.98		2.44	780,099.36	(656,725.71)	-	12,848,432.59	
2009		2.71	876,116.36	(661,441.36)	-	17,208,562.98		2.44	787,420.67	(661,441.36)	-	12,974,411.90	
2010	20.91	2.24	884,368.22	(666,928.81)	-	17,426,002.39	20.91	2.87	794,837.14	(666,928.81)	-	13,102,320.23	
2011		2.24	735,259.10	(673,099.69)	-	17,488,161.80		2.87	943,010.23	(673,099.69)	-	13,372,230.77	
2012		2.24	742,190.46	(679,875.80)	-	17,550,476.47		2.87	951,900.08	(679,875.80)	-	13,644,255.05	
2013		2.24	749,172.27	(687,186.80)	-	17,612,461.93		2.87	960,854.63	(687,186.80)	-	13,917,922.88	
2014		2.24	756,194.78	(694,968.86)	-	17,673,687.86		2.87	969,861.39	(694,968.86)	-	14,192,815.41	
2015	20.81	2.32	763,249.36	(703,163.48)	-	17,733,773.73	20.81	2.78	978,909.27	(703,163.48)	-	14,468,561.20	
2016		2.32	799,379.49	(711,716.55)	-	17,821,436.67		2.78	957,010.77	(711,716.55)	-	14,713,855.42	
2017		2.32	806,743.77	(720,577.16)	-	17,907,603.29		2.78	965,827.23	(720,577.16)	-	14,959,105.49	
2018		2.32	814,120.37	(729,697.48)	-	17,992,026.18		2.78	974,658.44	(729,697.48)	-	15,204,066.45	
2019		2.32	821,504.17	(739,031.99)	-	18,074,498.36		2.78	983,498.26	(739,031.99)	-	15,448,532.72	
2020	20.74	2.38	828,890.90	(748,537.26)	-	18,154,852.00	20.74	2.71	992,341.59	(748,537.26)	-	15,692,337.05	
2021		2.38	858,517.24	(758,171.54)	-	18,255,197.69		2.71	977,776.48	(758,171.54)	-	15,911,941.99	
2022		2.38	866,096.88	(767,894.77)	-	18,353,399.80		2.71	986,409.03	(767,894.77)	-	16,130,456.25	
2023		2.38	873,671.70	(777,668.32)	-	18,449,403.18		2.71	995,036.09	(777,668.32)	-	16,347,824.02	
2024		2.38	881,240.79	(787,455.44)	-	18,543,188.53		2.71	1,003,656.62	(787,455.44)	-	16,564,025.20	
2025	20.72	2.43	888,804.07	(797,220.77)	-	18,634,771.83	20.72	2.67	1,012,270.55	(797,220.77)	-	16,779,074.98	
2026		2.43	912,940.61	(806,930.98)	-	18,740,781.46		2.67	1,002,880.35	(806,930.98)	-	16,975,024.35	
2027		2.43	920,635.04	(816,554.66)	-	18,844,861.84		2.67	1,011,332.80	(816,554.66)	-	17,169,802.49	
2028		2.43	928,328.21	(826,063.14)	-	18,947,126.92		2.67	1,019,783.88	(826,063.14)	-	17,363,523.24	
2029		2.43	936,023.22	(835,429.98)	-	19,047,720.15		2.67	1,028,236.97	(835,429.98)	-	17,556,330.23	
2030	20.72	2.46	943,723.82	(844,632.10)	-	19,146,811.87	20.72	2.63	1,036,696.21	(844,632.10)	-	17,748,394.34	
2031		2.46	964,847.80	(853,649.76)	-	19,258,009.91		2.63	1,032,613.81	(853,649.76)	-	17,927,358.39	
2032		2.46	972,682.29	(862,466.92)	-	19,368,225.28		2.63	1,040,998.55	(862,466.92)	-	18,105,890.02	
2033		2.46	980,537.50	(871,071.81)	-	19,477,690.97		2.63	1,049,405.47	(871,071.81)	-	18,284,223.68	
2034		2.46	988,419.35	(879,456.89)	-	19,586,653.43		2.63	1,057,840.91	(879,456.89)	-	18,462,607.70	
2035	20.74	2.49	996,334.11	(887,619.51)	-	19,695,368.03	20.74	2.61	1,066,311.55	(887,619.51)	-	18,641,299.74	
2036		2.49	1,014,734.80	(895,561.53)	-	19,814,541.30		2.61	1,065,760.37	(895,561.53)	-	18,811,498.58	
2037		2.49	1,022,817.95	(903,289.79)	-	19,934,069.46		2.61	1,074,249.98	(903,289.79)	-	18,982,458.77	
2038		2.49	1,030,953.99	(910,815.76)	-	20,054,207.69		2.61	1,082,795.14	(910,815.76)	-	19,154,438.15	
2039		2.49	1,039,149.34	(918,155.44)	-	20,175,201.60		2.61	1,091,402.59	(918,155.44)	-	19,327,685.30	
2040	20.76	2.51	1,047,410.16	(925,328.76)	-	20,297,283.00	20.76	2.60	1,100,078.80	(925,328.76)	-	19,502,435.34	

Notes:
(1)

Newfound
Calculation

Net Salvag

Depreciation Rate						Error Measure					Compare ELG-ALG Error					ABS Error									
Year	Year	40-R2	35-R2	45-R2	nge from 3 nee from 45-R2		Year	40-R2	35-R2	45-R2	nge from 3 nee from 45-R2		Year	t from 35-R2 t from 45-R2 t from 35-R2 t from 45-R2 t from 45-R2 - ALG - R2 - ALG, Compare t					Year	40-R2	35-R2	45-R2	Change from 35-R2	Change from 45-R2	
1990	1990	2.51	2.75	2.30	2.75	2.30	1990	-	0.23	(0.22)	0.23	(0.22)	1990	0.23	(0.22)	0.30	(0.28)	0.28	(0.29)	1990	-	0.23	0.22	0.23	0.22
1991	1991	2.51	2.75	2.30	2.75	2.30	1991	-	0.23	(0.22)	0.23	(0.22)	1991	0.23	(0.22)	0.30	(0.28)	0.28	(0.29)	1991	-	0.23	0.22	0.23	0.22
1992	1992	2.51	2.75	2.30	2.75	2.30	1992	-	0.23	(0.22)	0.23	(0.22)	1992	0.23	(0.22)	0.30	(0.28)	0.28	(0.29)	1992	-	0.23	0.22	0.23	0.22
1993	1993	2.51	2.75	2.30	2.75	2.30	1993	-	0.23	(0.22)	0.23	(0.22)	1993	0.23	(0.22)	0.30	(0.28)	0.28	(0.29)	1993	-	0.23	0.22	0.23	0.22
1994	1994	2.51	2.75	2.30	2.75	2.30	1994	-	0.23	(0.22)	0.23	(0.22)	1994	0.23	(0.22)	0.30	(0.28)	0.28	(0.29)	1994	-	0.23	0.22	0.23	0.22
1995	1995	2.57	2.78	2.39	2.78	2.39	1995	-	0.21	(0.18)	0.21	(0.18)	1995	0.21	(0.18)	0.27	(0.23)	0.20	(0.30)	1995	-	0.21	0.18	0.21	0.18
1996	1996	2.57	2.78	2.39	2.78	2.39	1996	-	0.21	(0.18)	0.21	(0.18)	1996	0.21	(0.18)	0.27	(0.23)	0.20	(0.30)	1996	-	0.21	0.18	0.21	0.18
1997	1997	2.57	2.78	2.39	2.78	2.39	1997	-	0.21	(0.18)	0.21	(0.18)	1997	0.21	(0.18)	0.27	(0.23)	0.20	(0.30)	1997	-	0.21	0.18	0.21	0.18
1998	1998	2.57	2.78	2.39	2.78	2.39	1998	-	0.21	(0.18)	0.21	(0.18)	1998	0.21	(0.18)	0.27	(0.23)	0.20	(0.30)	1998	-	0.21	0.18	0.21	0.18
1999	1999	2.57	2.78	2.39	2.78	2.39	1999	-	0.21	(0.18)	0.21	(0.18)	1999	0.21	(0.18)	0.27	(0.23)	0.20	(0.30)	1999	-	0.21	0.18	0.21	0.18
2000	2000	2.58	2.75	2.42	2.75	2.42	2000	-	0.17	(0.16)	0.17	(0.16)	2000	0.17	(0.16)	0.22	(0.20)	0.14	(0.28)	2000	-	0.17	0.16	0.17	0.16
2001	2001	2.58	2.75	2.42	2.75	2.42	2001	-	0.17	(0.16)	0.17	(0.16)	2001	0.17	(0.16)	0.22	(0.20)	0.14	(0.28)	2001	-	0.17	0.16	0.17	0.16
2002	2002	2.58	2.75	2.42	2.75	2.42	2002	-	0.17	(0.16)	0.17	(0.16)	2002	0.17	(0.16)	0.22	(0.20)	0.14	(0.28)	2002	-	0.17	0.16	0.17	0.16
2003	2003	2.58	2.75	2.42	2.75	2.42	2003	-	0.17	(0.16)	0.17	(0.16)	2003	0.17	(0.16)	0.22	(0.20)	0.14	(0.28)	2003	-	0.17	0.16	0.17	0.16
2004	2004	2.58	2.75	2.42	2.75	2.42	2004	-	0.17	(0.16)	0.17	(0.16)	2004	0.17	(0.16)	0.22	(0.20)	0.14	(0.28)	2004	-	0.17	0.16	0.17	0.16
2005	2005	2.58	2.71	2.44	2.71	2.44	2005	-	0.14	(0.14)	0.14	(0.14)	2005	0.14	(0.14)	0.19	(0.17)	0.11	(0.25)	2005	-	0.14	0.14	0.14	0.14
2006	2006	2.58	2.71	2.44	2.71	2.44	2006	-	0.14	(0.14)	0.14	(0.14)	2006	0.14	(0.14)	0.19	(0.17)	0.11	(0.25)	2006	-	0.14	0.14	0.14	0.14
2007	2007	2.58	2.71	2.44	2.71	2.44	2007	-	0.14	(0.14)	0.14	(0.14)	2007	0.14	(0.14)	0.19	(0.17)	0.11	(0.25)	2007	-	0.14	0.14	0.14	0.14
2008	2008	2.58	2.71	2.44	2.71	2.44	2008	-	0.14	(0.14)	0.14	(0.14)	2008	0.14	(0.14)	0.19	(0.17)	0.11	(0.25)	2008	-	0.14	0.14	0.14	0.14
2009	2009	2.58	2.71	2.44	2.71	2.44	2009	-	0.14	(0.14)	0.14	(0.14)	2009	0.14	(0.14)	0.19	(0.17)	0.11	(0.25)	2009	-	0.14	0.14	0.14	0.14
2010	2010	2.57	2.69	2.45	2.24	2.87	2010	-	0.12	(0.12)	(0.33)	0.30	2010	(0.33)	0.30	(0.34)	0.30	(0.41)	0.23	2010	-	0.12	0.12	0.33	0.30
2011	2011	2.57	2.69	2.45	2.24	2.87	2011	-	0.12	(0.12)	(0.33)	0.30	2011	(0.33)	0.30	(0.34)	0.30	(0.41)	0.23	2011	-	0.12	0.12	0.33	0.30
2012	2012	2.57	2.69	2.45	2.24	2.87	2012	-	0.12	(0.12)	(0.33)	0.30	2012	(0.33)	0.30	(0.34)	0.30	(0.41)	0.23	2012	-	0.12	0.12	0.33	0.30
2013	2013	2.57	2.69	2.45	2.24	2.87	2013	-	0.12	(0.12)	(0.33)	0.30	2013	(0.33)	0.30	(0.34)	0.30	(0.41)	0.23	2013	-	0.12	0.12	0.33	0.30
2014	2014	2.57	2.69	2.45	2.24	2.87	2014	-	0.12	(0.12)	(0.33)	0.30	2014	(0.33)	0.30	(0.34)	0.30	(0.41)	0.23	2014	-	0.12	0.12	0.33	0.30
2015	2015	2.56	2.66	2.46	2.32	2.78	2015	-	0.10	(0.11)	(0.24)	0.22	2015	(0.24)	0.22	(0.26)	0.22	(0.32)	0.16	2015	-	0.10	0.11	0.24	0.22
2016	2016	2.56	2.66	2.46	2.32	2.78	2016	-	0.10	(0.11)	(0.24)	0.22	2016	(0.24)	0.22	(0.26)	0.22	(0.32)	0.16	2016	-	0.10	0.11	0.24	0.22
2017	2017	2.56	2.66	2.46	2.32	2.78	2017	-	0.10	(0.11)	(0.24)	0.22	2017	(0.24)	0.22	(0.26)	0.22	(0.32)	0.16	2017	-	0.10	0.11	0.24	0.22
2018	2018	2.56	2.66	2.46	2.32	2.78	2018	-	0.10	(0.11)	(0.24)	0.22	2018	(0.24)	0.22	(0.26)	0.22	(0.32)	0.16	2018	-	0.10	0.11	0.24	0.22
2019	2019	2.56	2.66	2.46	2.32	2.78	2019	-	0.10	(0.11)	(0.24)	0.22	2019	(0.24)	0.22	(0.26)	0.22	(0.32)	0.16	2019	-	0.10	0.11	0.24	0.22
2020	2020	2.56	2.64	2.46	2.38	2.71	2020	-	0.09	(0.10)	(0.17)	0.16	2020	(0.17)	0.16	(0.19)	0.17	(0.25)	0.11	2020	-	0.09	0.10	0.17	0.16
2021	2021	2.56	2.64	2.46	2.38	2.71	2021	-	0.09	(0.10)	(0.17)	0.16	2021	(0.17)	0.16	(0.19)	0.17	(0.25)	0.11	2021	-	0.09	0.10	0.17	0.16
2022	2022	2.56	2.64	2.46	2.38	2.71	2022	-	0.09	(0.10)	(0.17)	0.16	2022	(0.17)	0.16	(0.19)	0.17	(0.25)	0.11	2022	-	0.09	0.10	0.17	0.16
2023	2023	2.56	2.64	2.46	2.38	2.71	2023	-	0.09	(0.10)	(0.17)	0.16	2023	(0.17)	0.16	(0.19)	0.17	(0.25)	0.11	2023	-	0.09	0.10	0.17	0.16
2024	2024	2.56	2.64	2.46	2.38	2.71	2024	-	0.09	(0.10)	(0.17)	0.16	2024	(0.17)	0.16	(0.19)	0.17	(0.25)	0.11	2024	-	0.09	0.10	0.17	0.16
2025	2025	2.55	2.63	2.47	2.43	2.67	2025	-	0.08	(0.09)	(0.13)	0.11	2025	(0.13)	0.11	(0.15)	0.13	(0.20)	0.08	2025	-	0.08	0.09	0.13	0.11
2026	2026	2.55	2.63	2.47	2.43	2.67	2026	-	0.08	(0.09)	(0.13)	0.11	2026	(0.13)	0.11	(0.15)	0.13	(0.20)	0.08	2026	-	0.08	0.09	0.13	0.11
2027	2027	2.55	2.63	2.47	2.43	2.67	2027	-	0.08	(0.09)	(0.13)	0.11	2027	(0.13)	0.11	(0.15)	0.13	(0.20)	0.08	2027	-	0.08	0.09	0.13	0.11
2028	2028	2.55	2.63	2.47	2.43	2.67	2028	-	0.08	(0.09)	(0.13)	0.11	2028	(0.13)	0.11	(0.15)	0.13	(0.20)	0.08	2028	-	0.08	0.09	0.13	0.11
2029	2029	2.55	2.63	2.47	2.43	2.67	2029	-	0.08	(0.09)	(0.13)	0.11	2029	(0.13)	0.11	(0.15)	0.13	(0.20)	0.08	2029	-	0.08	0.09	0.13	0.11
2030	2030	2.55	2.63	2.47	2.46	2.63	2030	-	0.07	(0.08)	(0.09)	0.08	2030	(0.09)	0.08	(0.11)	0.10	(0.16)	0.05	2030	-	0.07	0.08	0.09	0.08
2031	2031	2.55	2.63	2.47	2.46	2.63	2031	-	0.07	(0.08)	(0.09)	0.08	2031	(0.09)	0.08	(0.11)	0.10	(0.16)	0.05	2031	-	0.07	0.08	0.09	0.08
2032	2032	2.55	2.63	2.47	2.46	2.63	2032	-	0.07	(0.08)	(0.09)	0.08	2032	(0.09)	0.08	(0.11)	0.10	(0.16)	0.05	2032	-	0.07	0.08	0.09	0.08
2033	2033	2.55	2.63	2.47	2.46	2.63	2033	-	0.07	(0.08)	(0.09)	0.08	2033	(0.09)	0.08	(0.11)	0.10	(0.16)	0.05	2033	-	0.07	0.08	0.09	0.08
2034	2034	2.55	2.63	2.47	2.46	2.63	2034	-	0.07	(0.08)	(0.09)	0.08	2034	(0.09)	0.08	(0.11)	0.10	(0.16)	0.05	2034	-	0.07	0.08	0.09	0.08
2035	2035	2.55	2.62	2.48	2.49	2.61	2035	-	0.07	(0.08)	(0.07)	0.06	2035	(0.07)	0.06	(0.08)	0.07	(0.13)	0.02	2035	-	0.07	0.08	0.07	0.06
2036	2036	2.55	2.62	2.48	2.49	2.61	2036	-	0.07	(0.08)	(0.07)	0.06	2036	(0.07)	0.06	(0.08)	0.07	(0.13)	0.02	2036	-	0.07	0.08	0.07	0.06
2037	2037	2.55	2.62	2.48	2.49	2.61	2037	-	0.07	(0.08)	(0.07)	0.06	2037	(0.07)	0.06	(0.08)	0.07	(0.13)	0.02	2037	-	0.07	0.08	0.07	0.06
2038	2038	2.55	2.62	2.48	2.49	2.61	2038	-	0.07	(0.08)	(0.07)	0.06	2038	(0.07)	0.06	(0.08)	0.07	(0.13)	0.02	2038	-	0.07	0.08	0.07	0.06
2039	2039	2.55	2.62	2.48	2.49	2.61	2039	-	0.07	(0.08)	(0.07)	0.06	2039	(0.07)	0.06	(0.08)	0.07	(0.13)	0.02	2039	-	0.07	0.08	0.07	0.06
2040	2040	2.55	2.62	2.48	2.51	2.60	2040	-	0.07	(0.07)	(0.05)	0.04	2040	(0.05)	0.04	(0.06)	0.05	(0.12)	0.00	2040	-	0.07	0.07	0.05	0.04

Notes:
(1)

Bar Chart Data					
Avg Error ELG	Avg Error ALG	Avg Error ALG - ELG	ABS Error		
			40-R2	35-R2	45-R2
			Change from 35-R2		
			Change from 45-R2		
-	-	-	0.13	0.12	0.18
-	-	-	0.17	0.16	0.21
0.06	0.11	0.22	0.22		0.17
Before 2010					
Avg Error ELG	Avg Error ALG	Avg Error ALG - ELG	ABS Error		
			40-R2	35-R2	45-R2
			Change from 35-R2		
			Change from 45-R2		
-	-	-	0.19	0.17	0.19
-	-	-	0.24	0.22	0.24
0.06	0.18	0.28	0.18		0.28
2010 and Subsequent					
Average Error ELG	Average Error ALG	Average Error ALG - ELG	ABS Error		
			40-R2	35-R2	45-R2
			Change from 35-R2		
			Change from 45-R2		
-	-	-	0.09	0.09	0.17
-	-	-	0.24	0.22	0.24
0.06	0.18	0.28	0.18		0.28

Newfoundland Power
Calculation of Annual Depreciation Rates and Accruals For Depreciation Scenarios Based on ALG Calculation Procedure

Net Salvag 0

Accumulated Depreciation Based on 40-R2 Survivor Curve										Accumulated Depreciation Based on 35-R2 Survivor Curve									
Year	Additions	Retirements	Balance	RL	Rate	Accruals	Retirements	Net Salvage	Book Reserve	RL	Rate	Accruals	Retirements	Net Salvage	Book Reserve				
1990			29,112,088.16	23.07	2.50				12,319,644.00 (1)	19.13	2.80				13,529,745.00 (1)				
1991	873,362.64	(1,091,173.06)	28,894,277.74		2.50	725,167.99	(1,091,173.06)	-	11,953,638.93		2.80	811,502.94	(1,091,173.06)	-	13,250,074.88				
1992	866,828.33	(945,772.59)	28,815,333.48		2.50	721,458.10	(945,772.59)	-	11,729,324.43		2.80	807,351.38	(945,772.59)	-	13,111,653.67				
1993	864,460.00	(859,836.48)	28,819,957.00		2.50	720,528.98	(859,836.48)	-	11,590,016.93		2.80	806,311.64	(859,836.48)	-	13,058,128.82				
1994	864,598.71	(801,709.53)	28,882,846.18		2.50	721,372.99	(801,709.53)	-	11,509,680.39		2.80	807,256.13	(801,709.53)	-	13,063,675.42				
1995	866,485.39	(759,835.03)	28,989,496.54	24.17	2.50	723,492.49	(759,835.03)	-	11,473,337.85	19.8	2.77	809,627.97	(759,835.03)	-	13,113,468.37				
1996	869,684.90	(728,654.97)	29,130,526.47		2.50	726,469.41	(728,654.97)	-	11,471,152.29		2.77	803,769.98	(728,654.97)	-	13,188,583.37				
1997	873,915.79	(705,059.86)	29,299,382.40		2.50	730,342.81	(705,059.86)	-	11,496,435.24		2.77	808,055.54	(705,059.86)	-	13,291,579.05				
1998	878,981.47	(687,130.91)	29,491,232.96		2.50	734,851.45	(687,130.91)	-	11,544,155.79		2.77	813,043.92	(687,130.91)	-	13,417,492.06				
1999	884,736.99	(673,598.29)	29,702,371.66		2.50	739,888.61	(673,598.29)	-	11,610,446.10		2.77	818,617.06	(673,598.29)	-	13,562,510.83				
2000	891,071.15	(663,576.69)	29,929,866.12	24.38	2.50	745,371.29	(663,576.69)	-	11,692,240.70	19.9	2.72	824,683.13	(663,576.69)	-	13,723,617.27				
2001	897,895.98	(656,422.91)	30,171,339.19		2.50	751,074.47	(656,422.91)	-	11,786,892.26		2.72	817,669.58	(656,422.91)	-	13,884,863.93				
2002	905,140.18	(651,653.98)	30,424,825.39		2.50	757,259.89	(651,653.98)	-	11,892,498.18		2.72	824,403.44	(651,653.98)	-	14,057,613.39				
2003	912,744.76	(648,897.15)	30,688,673.00		2.50	763,724.93	(648,897.15)	-	12,007,325.96		2.72	831,441.70	(648,897.15)	-	14,240,157.94				
2004	920,660.19	(647,858.19)	30,961,475.00		2.50	770,431.35	(647,858.19)	-	12,129,899.11		2.72	838,742.75	(647,858.19)	-	14,431,042.50				
2005	928,844.25	(648,300.08)	31,242,019.17	24.31	2.50	777,346.42	(648,300.08)	-	12,258,945.45	19.8	2.69	846,270.96	(648,300.08)	-	14,629,013.38				
2006	937,260.58	(650,028.73)	31,529,251.02		2.50	784,464.69	(650,028.73)	-	12,393,381.41		2.69	842,897.67	(650,028.73)	-	14,821,882.32				
2007	945,877.53	(652,882.72)	31,822,245.83		2.50	791,715.90	(652,882.72)	-	12,532,214.59		2.69	850,689.00	(652,882.72)	-	15,019,688.60				
2008	954,667.37	(656,725.71)	32,120,187.49		2.50	799,100.95	(656,725.71)	-	12,674,589.83		2.69	858,624.14	(656,725.71)	-	15,221,587.03				
2009	963,605.62	(661,441.36)	32,422,351.75		2.50	806,600.59	(661,441.36)	-	12,819,749.05		2.69	866,682.41	(661,441.36)	-	15,426,828.08				
2010	972,670.55	(666,928.81)	32,728,093.49	24.15	2.50	814,197.70	(666,928.81)	-	12,967,017.95	19.64	2.66	874,845.42	(666,928.81)	-	15,634,744.70				
2011	981,842.80	(673,099.69)	33,036,836.60		2.50	822,123.58	(673,099.69)	-	13,116,041.83		2.66	874,438.62	(673,099.69)	-	15,836,083.63				
2012	991,105.10	(679,875.80)	33,348,065.90		2.50	829,873.82	(679,875.80)	-	13,266,039.85		2.66	882,682.04	(679,875.80)	-	16,038,889.87				
2013	1,000,441.98	(687,186.80)	33,661,321.08		2.50	837,680.46	(687,186.80)	-	13,416,533.51		2.66	890,985.45	(687,186.80)	-	16,242,688.52				
2014	1,009,839.63	(694,968.86)	33,976,191.85		2.50	845,532.63	(694,968.86)	-	13,567,097.28		2.66	899,337.28	(694,968.86)	-	16,447,056.95				
2015	1,019,285.76	(703,163.48)	34,292,314.13	24	2.50	853,420.63	(703,163.48)	-	13,717,354.43	19.5	2.64	907,727.24	(703,163.48)	-	16,651,620.70				
2016	1,028,769.42	(711,716.55)	34,609,367.00		2.50	861,253.07	(711,716.55)	-	13,866,890.95		2.64	908,832.96	(711,716.55)	-	16,848,737.12				
2017	1,038,281.01	(720,577.16)	34,927,070.85		2.50	869,187.36	(720,577.16)	-	14,015,501.15		2.64	917,205.59	(720,577.16)	-	17,045,365.54				
2018	1,047,812.13	(729,697.48)	35,245,185.50		2.50	877,134.93	(729,697.48)	-	14,162,938.59		2.64	925,592.22	(729,697.48)	-	17,241,260.28				
2019	1,057,355.56	(739,031.99)	35,563,509.07		2.50	885,090.24	(739,031.99)	-	14,308,996.84		2.64	933,987.02	(739,031.99)	-	17,436,215.31				
2020	1,066,905.27	(748,537.26)	35,881,877.08	23.89	2.50	893,048.72	(748,537.26)	-	14,453,508.29	19.4	2.62	942,385.16	(748,537.26)	-	17,630,063.21				
2021	1,076,456.31	(758,171.54)	36,200,161.85		2.50	900,937.94	(758,171.54)	-	14,596,274.69		2.62	944,987.83	(758,171.54)	-	17,816,879.50				
2022	1,086,004.86	(767,894.77)	36,518,271.94		2.50	908,892.10	(767,894.77)	-	14,737,272.02		2.62	953,330.90	(767,894.77)	-	18,002,315.62				
2023	1,095,548.16	(777,668.32)	36,836,151.78		2.50	916,841.20	(777,668.32)	-	14,876,444.91		2.62	961,668.66	(777,668.32)	-	18,186,315.96				
2024	1,105,084.55	(787,455.44)	37,153,780.89		2.50	924,784.29	(787,455.44)	-	15,013,773.76		2.62	970,000.11	(787,455.44)	-	18,368,860.63				
2025	1,114,613.43	(797,220.77)	37,471,173.55	23.83	2.50	932,721.29	(797,220.77)	-	15,149,274.28	19.35	2.61	978,325.18	(797,220.77)	-	18,549,965.04				
2026	1,124,135.21	(806,930.98)	37,788,377.78		2.50	940,678.97	(806,930.98)	-	15,283,022.27		2.61	981,979.08	(806,930.98)	-	18,725,013.14				
2027	1,133,651.33	(816,554.66)	38,105,474.45		2.50	948,607.18	(816,554.66)	-	15,415,074.80		2.61	990,255.38	(816,554.66)	-	18,898,713.86				
2028	1,143,164.23	(826,063.14)	38,422,575.54		2.50	956,534.10	(826,063.14)	-	15,545,545.76		2.61	998,530.33	(826,063.14)	-	19,071,181.04				
2029	1,152,677.27	(835,429.98)	38,739,822.83		2.50	964,462.91	(835,429.98)	-	15,674,578.68		2.61	1,006,807.24	(835,429.98)	-	19,242,558.30				
2030	1,162,194.68	(844,632.10)	39,057,385.41	23.81	2.50	972,397.48	(844,632.10)	-	15,802,344.06	19.34	2.60	1,015,090.18	(844,632.10)	-	19,413,016.38				
2031	1,171,721.56	(853,649.76)	39,375,457.21		2.50	980,669.15	(853,649.76)	-	15,929,363.45		2.60	1,019,873.73	(853,649.76)	-	19,579,240.35				
2032	1,181,263.72	(862,466.92)	39,694,254.01		2.50	988,632.11	(862,466.92)	-	16,055,528.64		2.60	1,028,155.03	(862,466.92)	-	19,744,928.46				
2033	1,190,827.62	(871,071.81)	40,014,009.82		2.50	996,616.12	(871,071.81)	-	16,181,072.95		2.60	1,036,458.22	(871,071.81)	-	19,910,314.87				
2034	1,200,420.29	(879,456.89)	40,334,973.22		2.50	1,004,627.22	(879,456.89)	-	16,306,243.28		2.60	1,044,789.59	(879,456.89)	-	20,075,647.57				
2035	1,210,049.20	(887,619.51)	40,657,402.91	23.83	2.50	1,012,671.76	(887,619.51)	-	16,431,295.53	19.36	2.59	1,053,155.72	(887,619.51)	-	20,241,183.78				
2036	1,219,722.09	(895,561.53)	40,981,563.47		2.50	1,020,674.97	(895,561.53)	-	16,556,408.97		2.59	1,058,760.75	(895,561.53)	-	20,404,383.00				
2037	1,229,446.90	(903,289.79)	41,307,720.58		2.50	1,028,805.44	(903,289.79)	-	16,681,924.61		2.59	1,067,194.60	(903,289.79)	-	20,568,287.81				
2038	1,239,231.62	(910,815.76)	41,636,136.44		2.50	1,036,989.10	(910,815.76)	-	16,808,097.96		2.59	1,075,683.64	(910,815.76)	-	20,733,155.69				
2039	1,249,084.09	(918,155.44)	41,967,065.09		2.50	1,045,232.43	(918,155.44)	-	16,935,174.94		2.59	1,084,234.56	(918,155.44)	-	20,899,234.81				
2040	1,259,011.95	(925,328.76)	42,300,748.28	23.87	2.50	1,053,541.61	(925,328.76)	-	17,063,387.79	19.39	2.59	1,092,853.79	(925,328.76)	-	21,066,759.84				

Notes:
(1) The beginning reserve balance is calculated as the theoretical reserve based on the survivor curve estimate and beginning plant balance

Newfoundl
Calculation

Net Salvag

Accumulated Depreciation Based on 45-R2 Survivor Curve							Accumulated Depreciation Based on 35-R2 Survivor Curve through 2009, 40-R2 2010 and Subsequent						
Year	RL	Rate	Accruals	Retirements	Net Salvage	Book Reserve	RL	Rate	Accruals	Retirements	Net Salvage	Book Reserve	
1990	27.58	2.22				11,288,890.00 (1)	19.13	2.80				13,529,745.00 (1)	
1991		2.22	643,818.84	(1,091,173.06)	-	10,841,535.78		2.80	811,502.94	(1,091,173.06)	-	13,250,074.88	
1992		2.22	640,525.12	(945,772.59)	-	10,536,288.31		2.80	807,351.38	(945,772.59)	-	13,111,653.67	
1993		2.22	639,700.23	(859,836.48)	-	10,316,152.06		2.80	806,311.64	(859,836.48)	-	13,058,128.82	
1994		2.22	640,449.56	(801,709.53)	-	10,154,892.09		2.80	807,256.13	(801,709.53)	-	13,063,675.42	
1995	28.78	2.27	642,331.30	(759,835.03)	-	10,037,388.36	19.8	2.77	809,627.97	(759,835.03)	-	13,113,468.37	
1996		2.27	660,118.41	(728,654.97)	-	9,968,851.80		2.77	803,769.98	(728,654.97)	-	13,188,583.37	
1997		2.27	663,638.05	(705,059.86)	-	9,927,429.99		2.77	808,055.54	(705,059.86)	-	13,291,579.05	
1998		2.27	667,734.90	(687,130.91)	-	9,908,033.98		2.77	813,043.92	(687,130.91)	-	13,417,492.06	
1999		2.27	672,311.99	(673,598.29)	-	9,906,747.67		2.77	818,617.06	(673,598.29)	-	13,562,510.83	
2000	29.02	2.30	677,293.92	(663,576.69)	-	9,920,464.90	19.9	2.72	824,683.13	(663,576.69)	-	13,723,617.27	
2001		2.30	692,285.28	(656,422.91)	-	9,956,327.27		2.72	817,669.58	(656,422.91)	-	13,884,863.93	
2002		2.30	697,986.55	(651,653.98)	-	10,002,659.84		2.72	824,403.44	(651,653.98)	-	14,057,613.39	
2003		2.30	703,945.54	(648,897.15)	-	10,057,708.22		2.72	831,441.70	(648,897.15)	-	14,240,157.94	
2004		2.30	710,127.02	(647,858.19)	-	10,119,977.05		2.72	838,742.75	(647,858.19)	-	14,431,042.50	
2005	28.96	2.33	716,500.83	(648,300.08)	-	10,188,177.80	19.8	2.69	846,270.96	(648,300.08)	-	14,629,013.38	
2006		2.33	730,339.21	(650,028.73)	-	10,268,488.28		2.69	842,897.67	(650,028.73)	-	14,821,882.32	
2007		2.33	737,090.10	(652,882.72)	-	10,352,695.66		2.69	850,689.00	(652,882.72)	-	15,019,688.60	
2008		2.33	743,965.61	(656,725.71)	-	10,439,935.55		2.69	858,624.14	(656,725.71)	-	15,221,587.03	
2009		2.33	750,947.79	(661,441.36)	-	10,529,491.99		2.69	866,682.41	(661,441.36)	-	15,426,828.08	
2010	28.8	2.35	758,020.74	(666,928.81)	-	10,620,533.92	24.15	2.16	874,845.42	(666,928.81)	-	15,634,744.70	
2011		2.35	771,244.32	(673,099.69)	-	10,718,678.54		2.16	711,137.66	(673,099.69)	-	15,672,782.67	
2012		2.35	778,514.91	(679,875.80)	-	10,817,317.65		2.16	717,841.63	(679,875.80)	-	15,710,748.49	
2013		2.35	785,838.42	(687,186.80)	-	10,915,969.27		2.16	724,594.38	(687,186.80)	-	15,748,156.08	
2014		2.35	793,204.64	(694,968.86)	-	11,014,205.05		2.16	731,386.51	(694,968.86)	-	15,784,573.73	
2015	28.64	2.36	800,604.47	(703,163.48)	-	11,111,646.04	24	2.24	738,209.65	(703,163.48)	-	15,819,619.89	
2016		2.36	813,122.47	(711,716.55)	-	11,213,051.97		2.24	773,253.74	(711,716.55)	-	15,881,157.08	
2017		2.36	820,613.36	(720,577.16)	-	11,313,088.17		2.24	780,377.34	(720,577.16)	-	15,940,957.26	
2018		2.36	828,116.78	(729,697.48)	-	11,411,507.47		2.24	787,512.86	(729,697.48)	-	15,998,772.64	
2019		2.36	835,627.52	(739,031.99)	-	11,508,103.00		2.24	794,655.33	(739,031.99)	-	16,054,395.98	
2020	28.52	2.37	843,141.24	(748,537.26)	-	11,602,706.99	23.89	2.31	801,800.64	(748,537.26)	-	16,107,659.36	
2021		2.37	855,078.98	(758,171.54)	-	11,699,614.42		2.31	831,390.53	(758,171.54)	-	16,180,878.35	
2022		2.37	862,628.26	(767,894.77)	-	11,794,347.92		2.31	838,730.68	(767,894.77)	-	16,251,714.26	
2023		2.37	870,172.74	(777,668.32)	-	11,886,852.34		2.31	846,066.15	(777,668.32)	-	16,320,112.09	
2024		2.37	877,711.52	(787,455.44)	-	11,977,108.42		2.31	853,396.08	(787,455.44)	-	16,386,052.73	
2025	28.45	2.38	885,244.52	(797,220.77)	-	12,065,132.17	23.83	2.35	860,720.39	(797,220.77)	-	16,449,552.35	
2026		2.38	896,786.51	(806,930.98)	-	12,154,987.70		2.35	885,883.27	(806,930.98)	-	16,528,504.64	
2027		2.38	904,344.78	(816,554.66)	-	12,242,777.82		2.35	893,349.65	(816,554.66)	-	16,605,299.63	
2028		2.38	911,901.83	(826,063.14)	-	12,328,616.51		2.35	900,814.82	(826,063.14)	-	16,680,051.30	
2029		2.38	919,460.67	(835,429.98)	-	12,412,647.20		2.35	908,281.76	(835,429.98)	-	16,752,903.08	
2030	28.44	2.39	927,025.01	(844,632.10)	-	12,495,040.11	23.81	2.39	915,754.13	(844,632.10)	-	16,824,025.11	
2031		2.39	937,781.41	(853,649.76)	-	12,579,171.76		2.39	937,584.68	(853,649.76)	-	16,907,960.03	
2032		2.39	945,396.12	(862,466.92)	-	12,662,100.96		2.39	945,197.80	(862,466.92)	-	16,990,690.90	
2033		2.39	953,030.97	(871,071.81)	-	12,744,060.12		2.39	952,831.04	(871,071.81)	-	17,072,450.14	
2034		2.39	960,691.72	(879,456.89)	-	12,825,294.95		2.39	960,490.19	(879,456.89)	-	17,153,483.43	
2035	28.46	2.40	968,384.44	(887,619.51)	-	12,906,059.88	23.83	2.42	968,181.30	(887,619.51)	-	17,234,045.22	
2036		2.40	978,987.12	(895,561.53)	-	12,989,485.47		2.42	986,854.16	(895,561.53)	-	17,325,337.85	
2037		2.40	986,785.51	(903,289.79)	-	13,072,981.19		2.42	994,715.22	(903,289.79)	-	17,416,763.28	
2038		2.40	994,634.93	(910,815.76)	-	13,156,800.36		2.42	1,002,627.72	(910,815.76)	-	17,508,575.23	
2039		2.40	1,002,541.57	(918,155.44)	-	13,241,186.49		2.42	1,010,597.89	(918,155.44)	-	17,601,017.68	
2040	28.49	2.40	1,010,511.37	(925,328.76)	-	13,326,369.11	23.87	2.44	1,018,631.74	(925,328.76)	-	17,694,320.66	

Notes:
(1)

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Calculation

Net Salvag

Accumulated Depreciation Based on 45-R2 Survivor Curve through 2009, 40-R2 2010 and Subsequent							Depreciation Rate					Error Measure						
Year	RI	Rate	Accruals	Retirements	Net Salvage	Book Reserve	Year	40-R2	35-R2	45-R2	nge from 3 nge from 45-R2	Year	40-R2	35-R2	45-R2	nge from 3 nge from 45-R2		
1990	27.58	2.22				11,288,890.00	1990	2.50	2.80	2.22	2.80	2.22	1990	-	0.30	(0.28)	0.30	(0.28)
1991		2.22	643,818.84	(1,091,173.06)	-	10,841,535.78	1991	2.50	2.80	2.22	2.80	2.22	1991	-	0.30	(0.28)	0.30	(0.28)
1992		2.22	640,525.12	(945,772.59)	-	10,536,288.31	1992	2.50	2.80	2.22	2.80	2.22	1992	-	0.30	(0.28)	0.30	(0.28)
1993		2.22	639,700.23	(859,836.48)	-	10,316,152.06	1993	2.50	2.80	2.22	2.80	2.22	1993	-	0.30	(0.28)	0.30	(0.28)
1994		2.22	640,449.56	(801,709.53)	-	10,154,892.09	1994	2.50	2.80	2.22	2.80	2.22	1994	-	0.30	(0.28)	0.30	(0.28)
1995	28.78	2.27	642,331.30	(759,835.03)	-	10,037,388.36	1995	2.50	2.77	2.27	2.77	2.27	1995	-	0.27	(0.23)	0.27	(0.23)
1996		2.27	660,118.41	(728,654.97)	-	9,968,851.80	1996	2.50	2.77	2.27	2.77	2.27	1996	-	0.27	(0.23)	0.27	(0.23)
1997		2.27	663,638.05	(705,059.86)	-	9,927,429.99	1997	2.50	2.77	2.27	2.77	2.27	1997	-	0.27	(0.23)	0.27	(0.23)
1998		2.27	667,734.90	(687,130.91)	-	9,908,033.98	1998	2.50	2.77	2.27	2.77	2.27	1998	-	0.27	(0.23)	0.27	(0.23)
1999		2.27	672,311.99	(673,598.29)	-	9,906,747.67	1999	2.50	2.77	2.27	2.77	2.27	1999	-	0.27	(0.23)	0.27	(0.23)
2000	29.02	2.30	677,293.92	(663,576.69)	-	9,920,464.90	2000	2.50	2.72	2.30	2.72	2.30	2000	-	0.22	(0.20)	0.22	(0.20)
2001		2.30	692,285.28	(656,422.91)	-	9,956,327.27	2001	2.50	2.72	2.30	2.72	2.30	2001	-	0.22	(0.20)	0.22	(0.20)
2002		2.30	697,986.55	(651,653.98)	-	10,002,659.84	2002	2.50	2.72	2.30	2.72	2.30	2002	-	0.22	(0.20)	0.22	(0.20)
2003		2.30	703,945.54	(648,897.15)	-	10,057,708.22	2003	2.50	2.72	2.30	2.72	2.30	2003	-	0.22	(0.20)	0.22	(0.20)
2004		2.30	710,127.02	(647,858.19)	-	10,119,977.05	2004	2.50	2.72	2.30	2.72	2.30	2004	-	0.22	(0.20)	0.22	(0.20)
2005	28.96	2.33	716,500.83	(648,300.08)	-	10,188,177.80	2005	2.50	2.69	2.33	2.69	2.33	2005	-	0.19	(0.17)	0.19	(0.17)
2006		2.33	730,339.21	(650,028.73)	-	10,268,488.28	2006	2.50	2.69	2.33	2.69	2.33	2006	-	0.19	(0.17)	0.19	(0.17)
2007		2.33	737,090.10	(652,882.72)	-	10,352,695.66	2007	2.50	2.69	2.33	2.69	2.33	2007	-	0.19	(0.17)	0.19	(0.17)
2008		2.33	743,965.61	(656,725.71)	-	10,439,935.55	2008	2.50	2.69	2.33	2.69	2.33	2008	-	0.19	(0.17)	0.19	(0.17)
2009		2.33	750,947.79	(661,441.36)	-	10,529,441.99	2009	2.50	2.69	2.33	2.69	2.33	2009	-	0.19	(0.17)	0.19	(0.17)
2010	24.15	2.80	758,020.74	(666,928.81)	-	10,620,533.92	2010	2.50	2.66	2.35	2.16	2.80	2010	-	0.16	(0.15)	(0.34)	0.30
2011		2.80	919,744.77	(673,099.69)	-	10,867,179.00	2011	2.50	2.66	2.35	2.16	2.80	2011	-	0.16	(0.15)	(0.34)	0.30
2012		2.80	928,415.30	(679,875.80)	-	11,115,718.50	2012	2.50	2.66	2.35	2.16	2.80	2012	-	0.16	(0.15)	(0.34)	0.30
2013		2.80	937,148.92	(687,186.80)	-	11,365,680.62	2013	2.50	2.66	2.35	2.16	2.80	2013	-	0.16	(0.15)	(0.34)	0.30
2014		2.80	945,933.48	(694,968.86)	-	11,616,645.24	2014	2.50	2.66	2.35	2.16	2.80	2014	-	0.16	(0.15)	(0.34)	0.30
2015	24	2.72	954,758.13	(703,163.48)	-	11,868,239.89	2015	2.50	2.64	2.36	2.24	2.72	2015	-	0.14	(0.14)	(0.26)	0.22
2016		2.72	938,655.68	(711,716.55)	-	12,095,179.01	2016	2.50	2.64	2.36	2.24	2.72	2016	-	0.14	(0.14)	(0.26)	0.22
2017		2.72	947,303.04	(720,577.16)	-	12,321,904.89	2017	2.50	2.64	2.36	2.24	2.72	2017	-	0.14	(0.14)	(0.26)	0.22
2018		2.72	955,964.87	(729,697.48)	-	12,548,172.29	2018	2.50	2.64	2.36	2.24	2.72	2018	-	0.14	(0.14)	(0.26)	0.22
2019		2.72	964,635.14	(739,031.99)	-	12,773,775.44	2019	2.50	2.64	2.36	2.24	2.72	2019	-	0.14	(0.14)	(0.26)	0.22
2020	23.89	2.67	973,308.87	(748,537.26)	-	12,998,547.04	2020	2.50	2.62	2.37	2.31	2.67	2020	-	0.12	(0.13)	(0.19)	0.17
2021		2.67	962,110.57	(758,171.54)	-	13,202,486.08	2021	2.50	2.62	2.37	2.31	2.67	2021	-	0.12	(0.13)	(0.19)	0.17
2022		2.67	970,604.81	(767,894.77)	-	13,405,196.12	2022	2.50	2.62	2.37	2.31	2.67	2022	-	0.12	(0.13)	(0.19)	0.17
2023		2.67	979,093.65	(777,668.32)	-	13,606,621.45	2023	2.50	2.62	2.37	2.31	2.67	2023	-	0.12	(0.13)	(0.19)	0.17
2024		2.67	987,576.07	(787,455.44)	-	13,806,742.08	2024	2.50	2.62	2.37	2.31	2.67	2024	-	0.12	(0.13)	(0.19)	0.17
2025	23.83	2.63	996,051.98	(797,220.77)	-	14,005,573.29	2025	2.50	2.61	2.38	2.35	2.63	2025	-	0.11	(0.12)	(0.15)	0.13
2026		2.63	988,876.28	(806,930.98)	-	14,187,518.59	2026	2.50	2.61	2.38	2.35	2.63	2026	-	0.11	(0.12)	(0.15)	0.13
2027		2.63	997,210.71	(816,554.66)	-	14,368,174.64	2027	2.50	2.61	2.38	2.35	2.63	2027	-	0.11	(0.12)	(0.15)	0.13
2028		2.63	1,005,543.78	(826,063.14)	-	14,547,655.28	2028	2.50	2.61	2.38	2.35	2.63	2028	-	0.11	(0.12)	(0.15)	0.13
2029		2.63	1,013,878.83	(835,429.98)	-	14,726,104.12	2029	2.50	2.61	2.38	2.35	2.63	2029	-	0.11	(0.12)	(0.15)	0.13
2030	23.81	2.60	1,022,219.94	(844,632.10)	-	14,903,691.96	2030	2.50	2.60	2.39	2.39	2.60	2030	-	0.10	(0.11)	(0.11)	0.10
2031		2.60	1,018,565.46	(853,649.76)	-	15,068,607.67	2031	2.50	2.60	2.39	2.39	2.60	2031	-	0.10	(0.11)	(0.11)	0.10
2032		2.60	1,026,836.14	(862,466.92)	-	15,232,976.88	2032	2.50	2.60	2.39	2.39	2.60	2032	-	0.10	(0.11)	(0.11)	0.10
2033		2.60	1,035,128.68	(871,071.81)	-	15,397,033.75	2033	2.50	2.60	2.39	2.39	2.60	2033	-	0.10	(0.11)	(0.11)	0.10
2034		2.60	1,043,449.36	(879,456.89)	-	15,561,026.22	2034	2.50	2.60	2.39	2.39	2.60	2034	-	0.10	(0.11)	(0.11)	0.10
2035	23.83	2.57	1,051,804.76	(887,619.51)	-	15,725,211.47	2035	2.50	2.59	2.40	2.42	2.57	2035	-	0.09	(0.10)	(0.08)	0.07
2036		2.57	1,050,423.14	(895,561.53)	-	15,880,073.08	2036	2.50	2.59	2.40	2.42	2.57	2036	-	0.09	(0.10)	(0.08)	0.07
2037		2.57	1,058,790.57	(903,289.79)	-	16,035,573.86	2037	2.50	2.59	2.40	2.42	2.57	2037	-	0.09	(0.10)	(0.08)	0.07
2038		2.57	1,067,212.76	(910,815.76)	-	16,191,970.86	2038	2.50	2.59	2.40	2.42	2.57	2038	-	0.09	(0.10)	(0.08)	0.07
2039		2.57	1,075,696.34	(918,155.44)	-	16,349,511.75	2039	2.50	2.59	2.40	2.42	2.57	2039	-	0.09	(0.10)	(0.08)	0.07
2040	23.87	2.55	1,084,247.69	(925,328.76)	-	16,508,430.68	2040	2.50	2.59	2.40	2.44	2.55	2040	-	0.09	(0.10)	(0.06)	0.05

Notes:
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Calculation

Net Salvag

Error Measure - Compare to EIG							ABS Error					ABS Error - Compare to EIG				
Year	40-R2	35-R2	45-R2	nge from 3/nge from 45-R2			40-R2	35-R2	45-R2	nge from 3	Change from 45-R2	40-R2	35-R2	45-R2	nge from 3 nge from 45-R2	
1990	1990	(0.01)	0.28	(0.29)	0.28	(0.29)	-	0.30	0.28	0.30	0.28	0.01	0.28	0.29	0.28	0.29
1991	1991	(0.01)	0.28	(0.29)	0.28	(0.29)	-	0.30	0.28	0.30	0.28	0.01	0.28	0.29	0.28	0.29
1992	1992	(0.01)	0.28	(0.29)	0.28	(0.29)	-	0.30	0.28	0.30	0.28	0.01	0.28	0.29	0.28	0.29
1993	1993	(0.01)	0.28	(0.29)	0.28	(0.29)	-	0.30	0.28	0.30	0.28	0.01	0.28	0.29	0.28	0.29
1994	1994	(0.01)	0.28	(0.29)	0.28	(0.29)	-	0.30	0.28	0.30	0.28	0.01	0.28	0.29	0.28	0.29
1995	1995	(0.07)	0.20	(0.30)	0.20	(0.30)	-	0.27	0.23	0.27	0.23	0.07	0.20	0.30	0.20	0.30
1996	1996	(0.07)	0.20	(0.30)	0.20	(0.30)	-	0.27	0.23	0.27	0.23	0.07	0.20	0.30	0.20	0.30
1997	1997	(0.07)	0.20	(0.30)	0.20	(0.30)	-	0.27	0.23	0.27	0.23	0.07	0.20	0.30	0.20	0.30
1998	1998	(0.07)	0.20	(0.30)	0.20	(0.30)	-	0.27	0.23	0.27	0.23	0.07	0.20	0.30	0.20	0.30
1999	1999	(0.07)	0.20	(0.30)	0.20	(0.30)	-	0.27	0.23	0.27	0.23	0.07	0.20	0.30	0.20	0.30
2000	2000	(0.08)	0.14	(0.28)	0.14	(0.28)	-	0.22	0.20	0.22	0.20	0.08	0.14	0.28	0.14	0.28
2001	2001	(0.08)	0.14	(0.28)	0.14	(0.28)	-	0.22	0.20	0.22	0.20	0.08	0.14	0.28	0.14	0.28
2002	2002	(0.08)	0.14	(0.28)	0.14	(0.28)	-	0.22	0.20	0.22	0.20	0.08	0.14	0.28	0.14	0.28
2003	2003	(0.08)	0.14	(0.28)	0.14	(0.28)	-	0.22	0.20	0.22	0.20	0.08	0.14	0.28	0.14	0.28
2004	2004	(0.08)	0.14	(0.28)	0.14	(0.28)	-	0.22	0.20	0.22	0.20	0.08	0.14	0.28	0.14	0.28
2005	2005	(0.08)	0.11	(0.25)	0.11	(0.25)	-	0.19	0.17	0.19	0.17	0.08	0.11	0.25	0.11	0.25
2006	2006	(0.08)	0.11	(0.25)	0.11	(0.25)	-	0.19	0.17	0.19	0.17	0.08	0.11	0.25	0.11	0.25
2007	2007	(0.08)	0.11	(0.25)	0.11	(0.25)	-	0.19	0.17	0.19	0.17	0.08	0.11	0.25	0.11	0.25
2008	2008	(0.08)	0.11	(0.25)	0.11	(0.25)	-	0.19	0.17	0.19	0.17	0.08	0.11	0.25	0.11	0.25
2009	2009	(0.08)	0.11	(0.25)	0.11	(0.25)	-	0.19	0.17	0.19	0.17	0.08	0.11	0.25	0.11	0.25
2010	2010	(0.07)	0.09	(0.22)	(0.41)	0.23	-	0.16	0.15	0.34	0.30	0.07	0.09	0.22	0.41	0.23
2011	2011	(0.07)	0.09	(0.22)	(0.41)	0.23	-	0.16	0.15	0.34	0.30	0.07	0.09	0.22	0.41	0.23
2012	2012	(0.07)	0.09	(0.22)	(0.41)	0.23	-	0.16	0.15	0.34	0.30	0.07	0.09	0.22	0.41	0.23
2013	2013	(0.07)	0.09	(0.22)	(0.41)	0.23	-	0.16	0.15	0.34	0.30	0.07	0.09	0.22	0.41	0.23
2014	2014	(0.07)	0.09	(0.22)	(0.41)	0.23	-	0.16	0.15	0.34	0.30	0.07	0.09	0.22	0.41	0.23
2015	2015	(0.06)	0.08	(0.20)	(0.32)	0.16	-	0.14	0.14	0.26	0.22	0.06	0.08	0.20	0.32	0.16
2016	2016	(0.06)	0.08	(0.20)	(0.32)	0.16	-	0.14	0.14	0.26	0.22	0.06	0.08	0.20	0.32	0.16
2017	2017	(0.06)	0.08	(0.20)	(0.32)	0.16	-	0.14	0.14	0.26	0.22	0.06	0.08	0.20	0.32	0.16
2018	2018	(0.06)	0.08	(0.20)	(0.32)	0.16	-	0.14	0.14	0.26	0.22	0.06	0.08	0.20	0.32	0.16
2019	2019	(0.06)	0.08	(0.20)	(0.32)	0.16	-	0.14	0.14	0.26	0.22	0.06	0.08	0.20	0.32	0.16
2020	2020	(0.06)	0.07	(0.18)	(0.25)	0.11	-	0.12	0.13	0.19	0.17	0.06	0.07	0.18	0.25	0.11
2021	2021	(0.06)	0.07	(0.18)	(0.25)	0.11	-	0.12	0.13	0.19	0.17	0.06	0.07	0.18	0.25	0.11
2022	2022	(0.06)	0.07	(0.18)	(0.25)	0.11	-	0.12	0.13	0.19	0.17	0.06	0.07	0.18	0.25	0.11
2023	2023	(0.06)	0.07	(0.18)	(0.25)	0.11	-	0.12	0.13	0.19	0.17	0.06	0.07	0.18	0.25	0.11
2024	2024	(0.06)	0.07	(0.18)	(0.25)	0.11	-	0.12	0.13	0.19	0.17	0.06	0.07	0.18	0.25	0.11
2025	2025	(0.05)	0.06	(0.17)	(0.20)	0.08	-	0.11	0.12	0.15	0.13	0.05	0.06	0.17	0.20	0.08
2026	2026	(0.05)	0.06	(0.17)	(0.20)	0.08	-	0.11	0.12	0.15	0.13	0.05	0.06	0.17	0.20	0.08
2027	2027	(0.05)	0.06	(0.17)	(0.20)	0.08	-	0.11	0.12	0.15	0.13	0.05	0.06	0.17	0.20	0.08
2028	2028	(0.05)	0.06	(0.17)	(0.20)	0.08	-	0.11	0.12	0.15	0.13	0.05	0.06	0.17	0.20	0.08
2029	2029	(0.05)	0.06	(0.17)	(0.20)	0.08	-	0.11	0.12	0.15	0.13	0.05	0.06	0.17	0.20	0.08
2030	2030	(0.05)	0.05	(0.16)	(0.16)	0.05	-	0.10	0.11	0.11	0.10	0.05	0.05	0.16	0.16	0.05
2031	2031	(0.05)	0.05	(0.16)	(0.16)	0.05	-	0.10	0.11	0.11	0.10	0.05	0.05	0.16	0.16	0.05
2032	2032	(0.05)	0.05	(0.16)	(0.16)	0.05	-	0.10	0.11	0.11	0.10	0.05	0.05	0.16	0.16	0.05
2033	2033	(0.05)	0.05	(0.16)	(0.16)	0.05	-	0.10	0.11	0.11	0.10	0.05	0.05	0.16	0.16	0.05
2034	2034	(0.05)	0.05	(0.16)	(0.16)	0.05	-	0.10	0.11	0.11	0.10	0.05	0.05	0.16	0.16	0.05
2035	2035	(0.05)	0.04	(0.15)	(0.13)	0.02	-	0.09	0.10	0.08	0.07	0.05	0.04	0.15	0.13	0.02
2036	2036	(0.05)	0.04	(0.15)	(0.13)	0.02	-	0.09	0.10	0.08	0.07	0.05	0.04	0.15	0.13	0.02
2037	2037	(0.05)	0.04	(0.15)	(0.13)	0.02	-	0.09	0.10	0.08	0.07	0.05	0.04	0.15	0.13	0.02
2038	2038	(0.05)	0.04	(0.15)	(0.13)	0.02	-	0.09	0.10	0.08	0.07	0.05	0.04	0.15	0.13	0.02
2039	2039	(0.05)	0.04	(0.15)	(0.13)	0.02	-	0.09	0.10	0.08	0.07	0.05	0.04	0.15	0.13	0.02
2040	2040	(0.05)	0.04	(0.15)	(0.12)	0.00	-	0.09	0.10	0.06	0.05	0.05	0.04	0.15	0.12	0.00

Notes:
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Avg Error E	-	0.17	0.16	0.21	0.18	0.06	0.11	0.22	0.22	0.17
Before 201	-	0.24	0.22	0.24	0.22	0.06	0.18	0.28	0.18	0.28
2010 and 5	-	0.12	0.12	0.18	0.16	0.06	0.06	0.18	0.24	0.10