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APPENDIX 8D: SENSITIVITY ANALYSIS

8D.1 DESIGN LINE 1 RESULTS

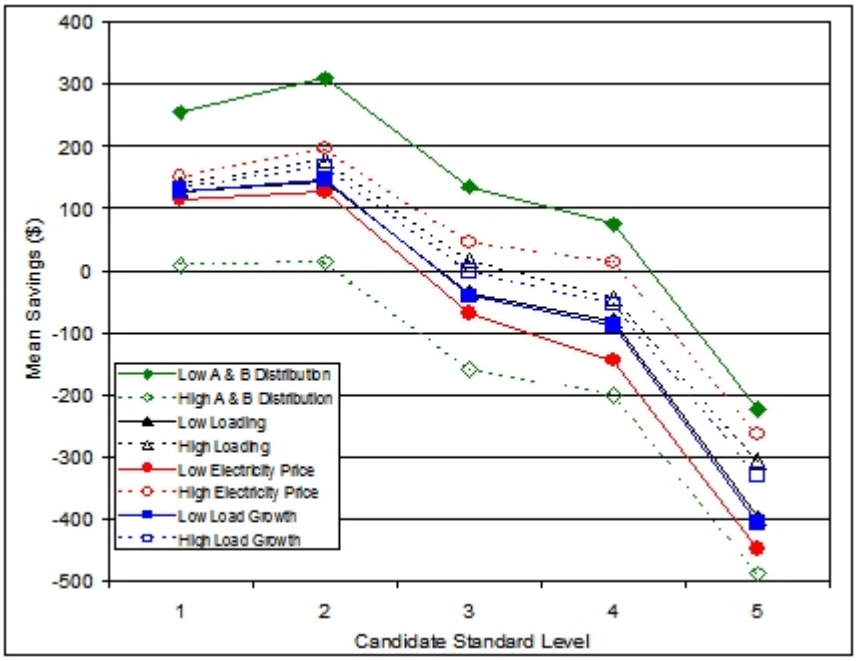

Figure 8D.1.1 Mean LCC Savings ($), by Scenario for Design Line 1

Table 8D.1.1 Mean LCC Savings ($), Summary Table for Design Line 1

Scenario	CandidateStandard Level for DL 1				
	1	**2**	**3**	**4**	**5**
Baseline	134	158	-13	-64	-359
Low A & B Distribution	254	309	134	75	-223
High A & B Distribution	9	14	-159	-201	-488
Low Loading	129	142	-35	-80	-397
High Loading	138	177	16	-45	-307
Low Electricity Price	114	126	-69	-144	-448
High Electricity Price	150	196	44	13	-263
Low Load Growth	127	146	-41	-88	-406
High Load Growth	132	168	-2	-55	-328

8D.1.1 Design Line 1; Candidate Standard Level 1

Table 8D.1.2 Standard Level: 1; Summary Table

Scenario	Transformers having LCC Savings > $0 (%)	Mean LCC Savings ($)	Mean Payback (Years)
Baseline	99.5%	$134	6.3
Low A & B Distribution	99.0%	$254	6.2
High A & B Distribution	99.9%	$9	7.8
Low Loading	99.4%	$129	6.5
High Loading	99.4%	$138	6.2
Low Electricity Price	99.3%	$114	6.9
High Electricity Price	99.6%	$150	5.8
Low Load Growth	99.4%	$127	6.2
High Load Growth	99.5%	$132	6.4

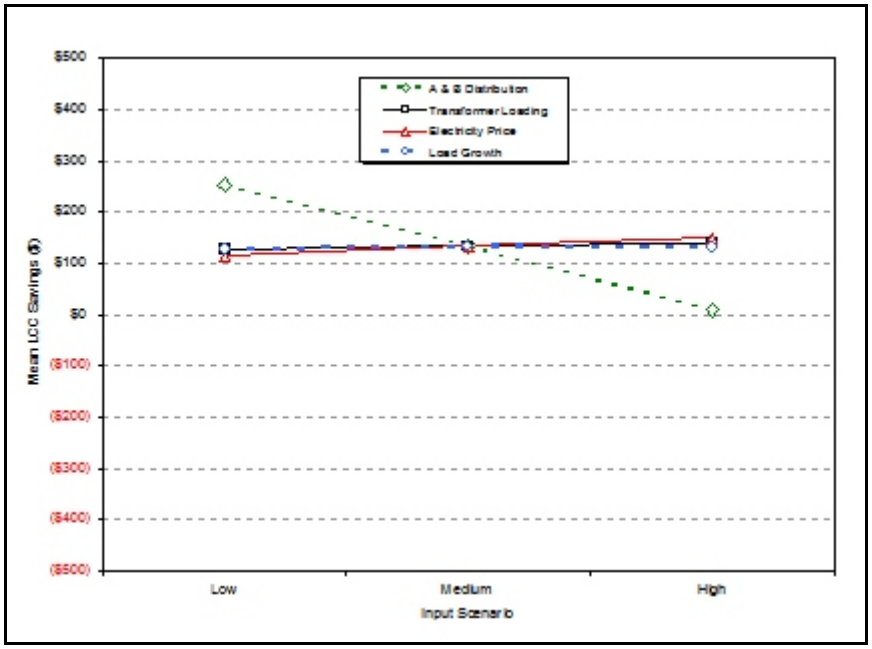

Figure 8D.1.2 Sensitivity of LCC to Input Changes for Design Line 1, Standard Level 1

8D.1.1.1 Baseline

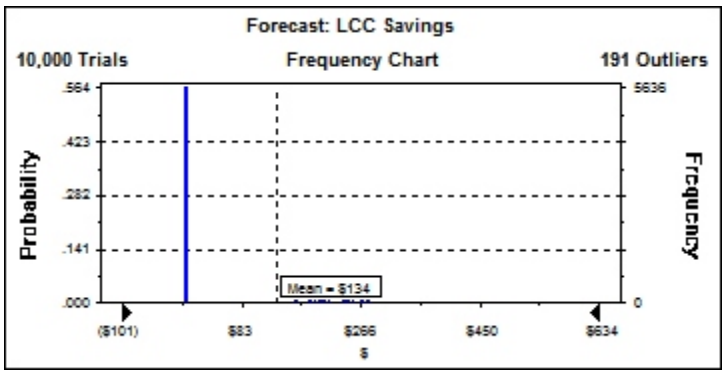

Figure 8D.1.3 **LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 1; Baseline Scenario**

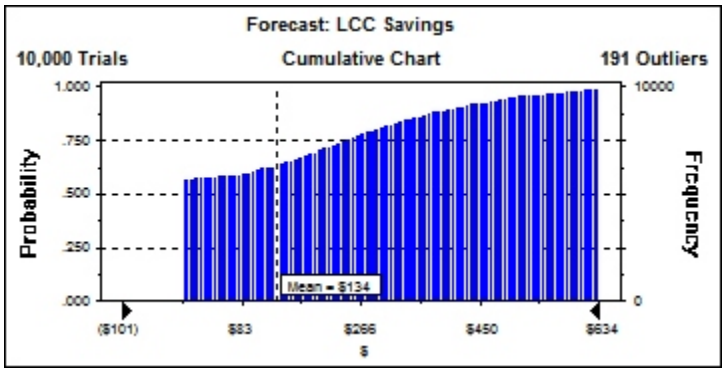

Figure 8D.1.4 **LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 1; Baseline Scenario**

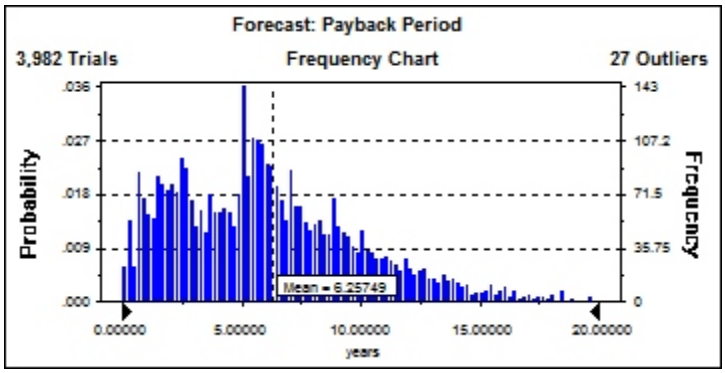

Figure 8D.1.5 **Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 1; Baseline Scenario**

8D.1.1.2 Low A & B Distribution

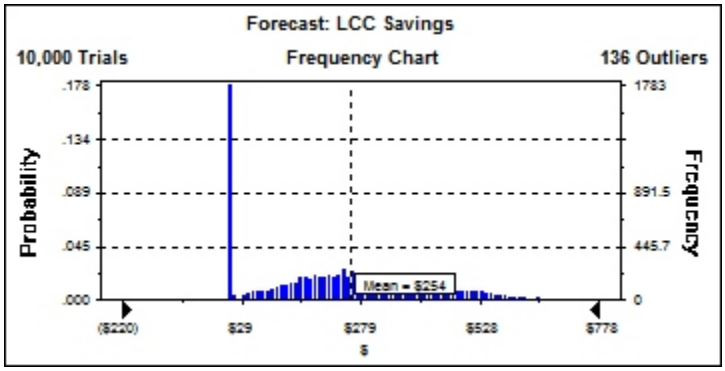

Figure 8D.1.6 **LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 1; Low A & B Distribution Scenario**

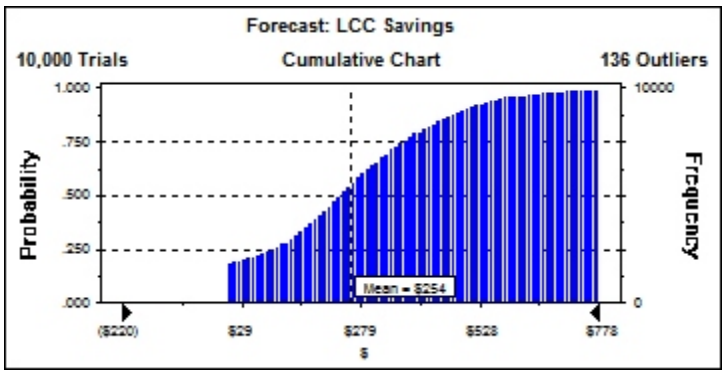

Figure 8D.1.7 **LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 1; Low A & B Distribution Scenario**

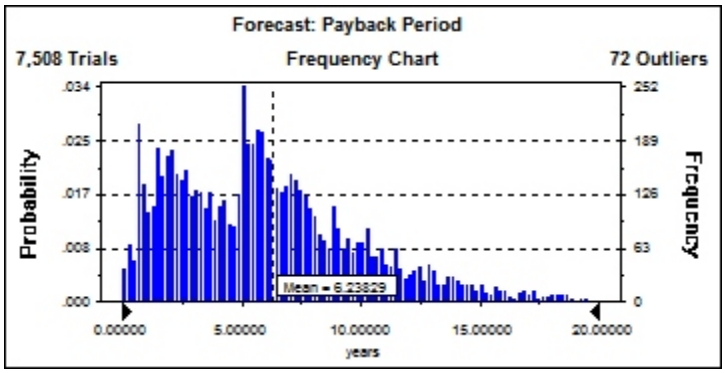

Figure 8D.1.8 **Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 1; Low A & B Distribution Scenario**

8D.1.1.3 High A & B Distribution

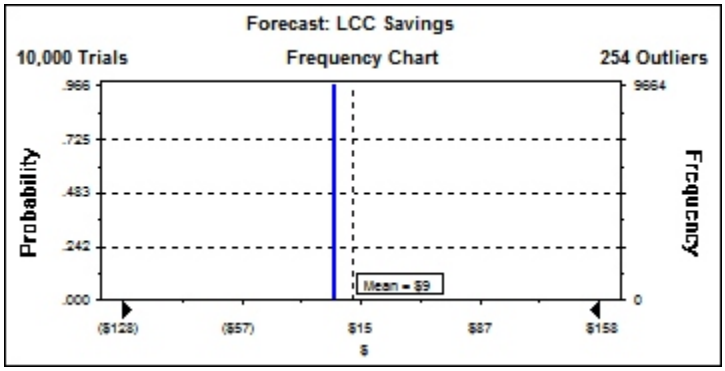

Figure 8D.1.9 **LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 1; High A & B Distribution Scenario**

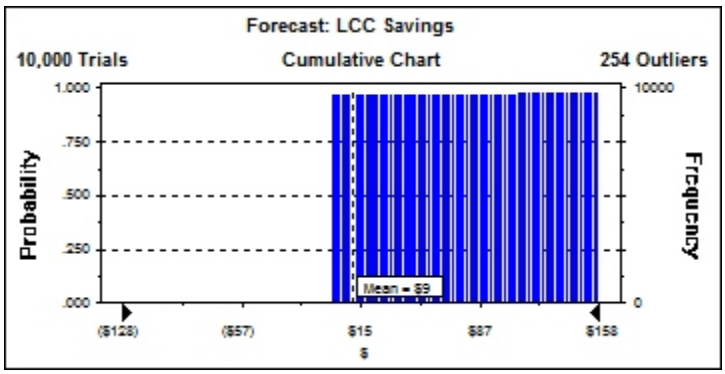

Figure 8D.1.10 **LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 1; High A & B Distribution Scenario**

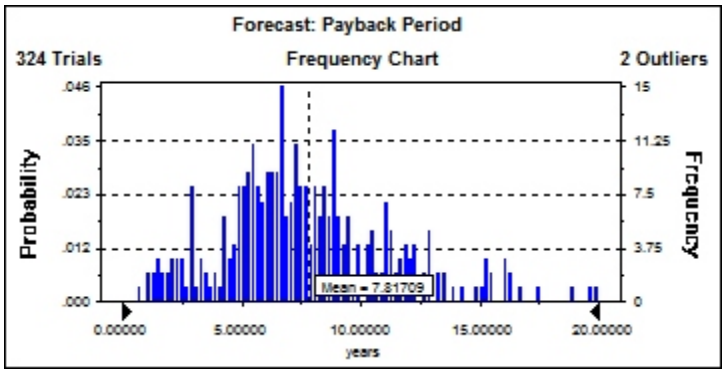

Figure 8D.1.11 **Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 1; High A & B Distribution Scenario**

8D.1.1.4 Low Loading

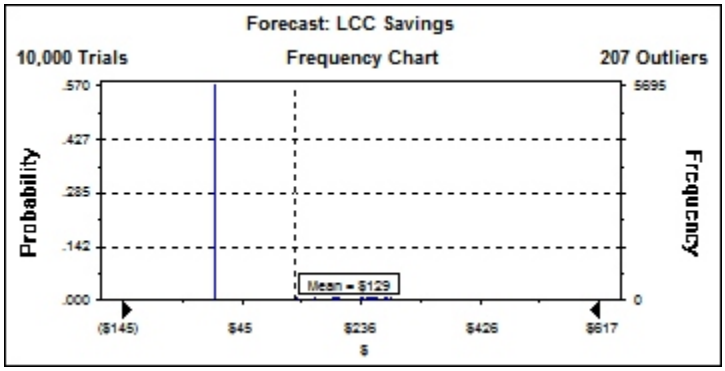

Figure 8D.1.12 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 1; Low Transformer Loading Scenario

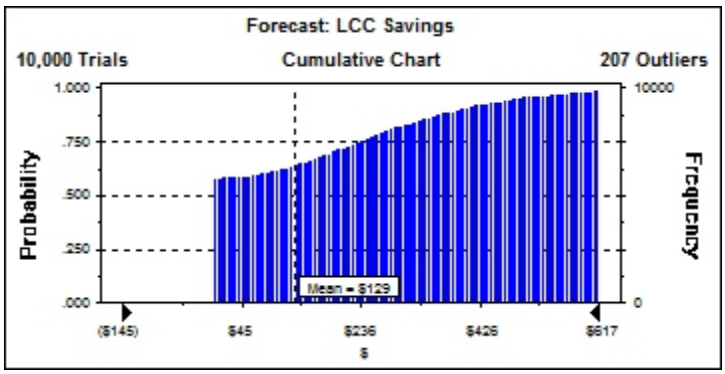

Figure 8D.1.13 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 1; Low Transformer Loading Scenario

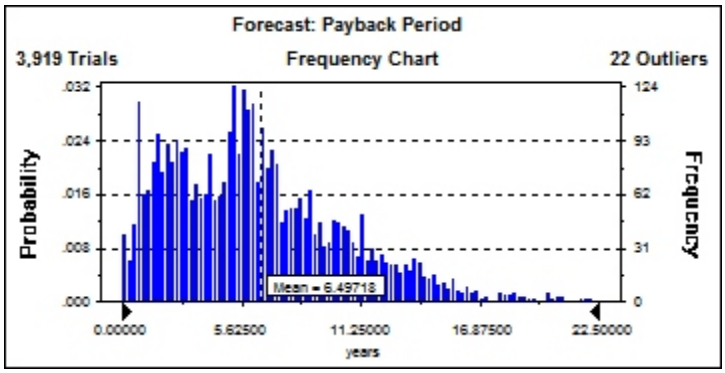

Figure 8D.1.14 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 1; Low Transformer Loading Scenario

8D.1.1.5 High Loading

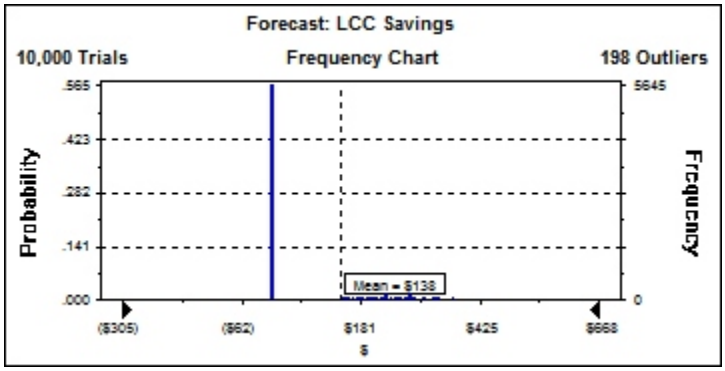

Figure 8D.1.15 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 1; High Transformer Loading Scenario

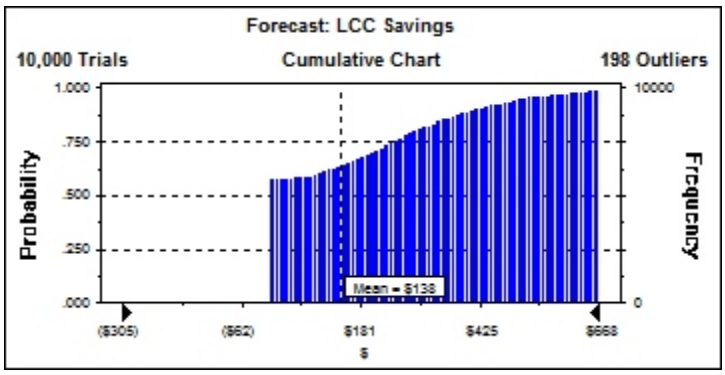

Figure 8D.1.16 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 1; High Transformer Loading Scenario

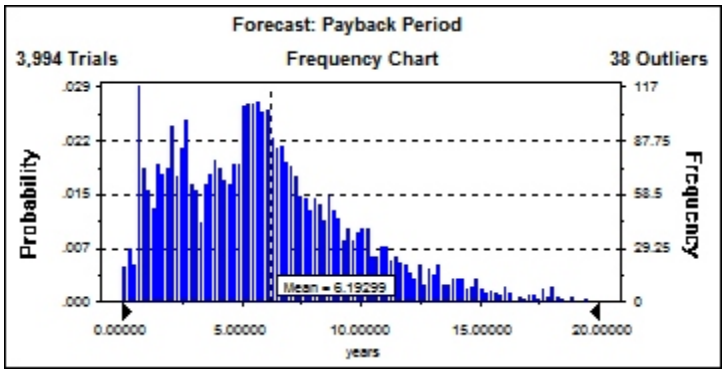

Figure 8D.1.17 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 1; High Transformer Loading Scenario

8D.1.1.6 Low Electricity Price

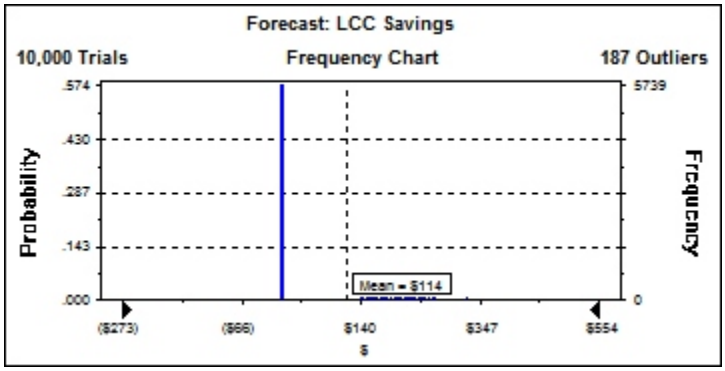

Figure 8D.1.18 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 1; Low Electricity Price Scenario

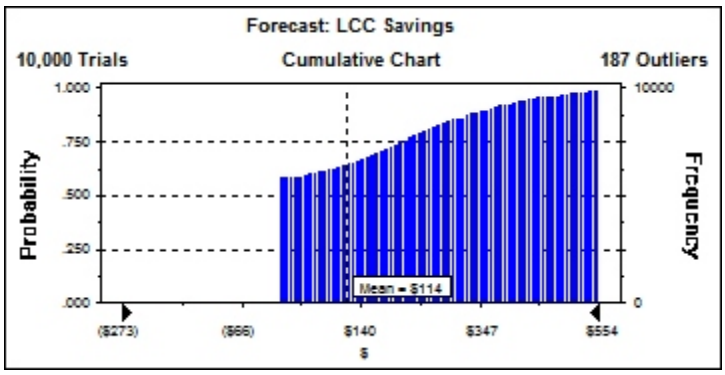

Figure 8D.1.19 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 1; Low Electricity Price Scenario

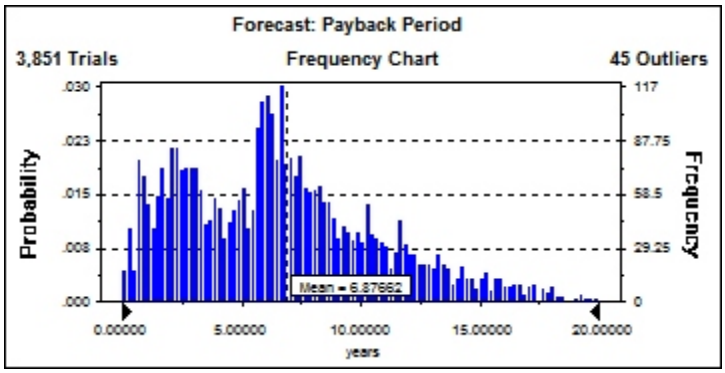

Figure 8D.1.20 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 1; Low Electricity Price Scenario

8D.1.1.7 High Electricity Price

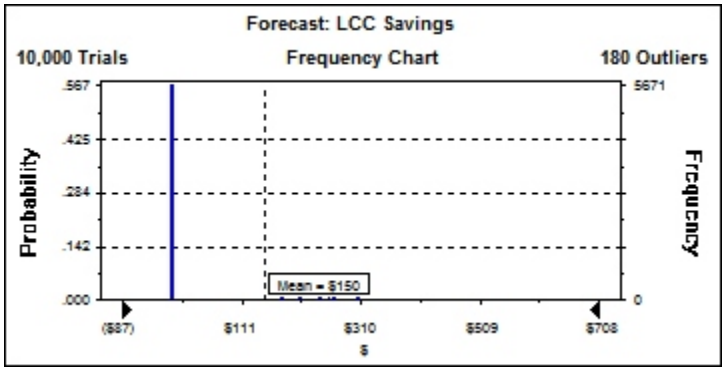

Figure 8D.1.21 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 1; High Electricity Price Scenario

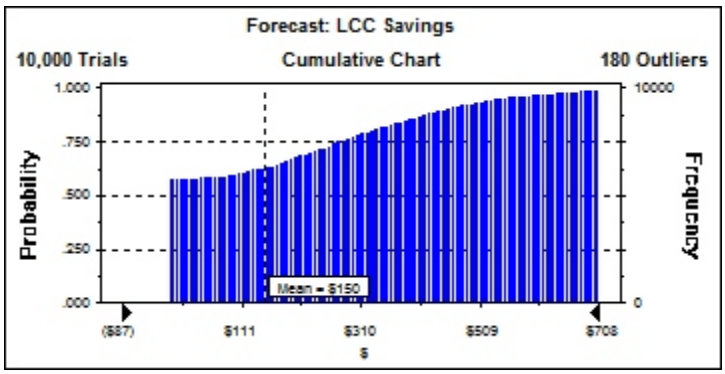

Figure 8D.1.22 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 1; High Electricity Price Scenario

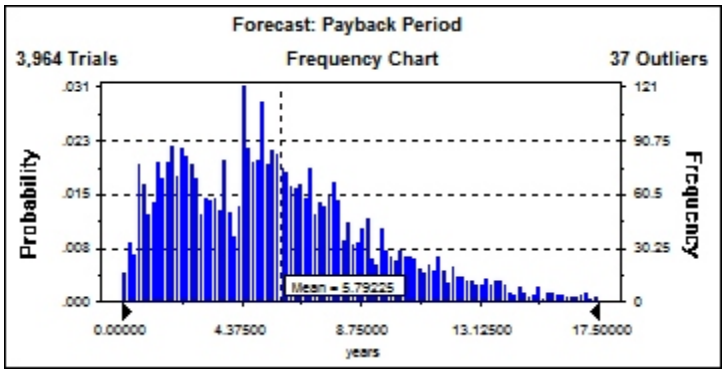

Figure 8D.1.23 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 1; High Electricity Price Scenario

8D.1.1.8 Low Load Growth

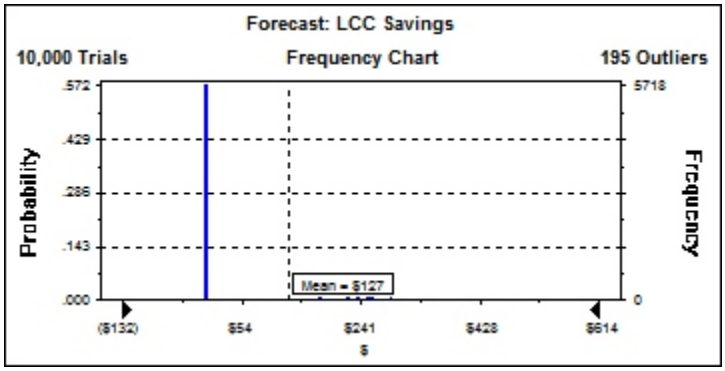

Figure 8D.1.24 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 1; Low Load Growth Scenario

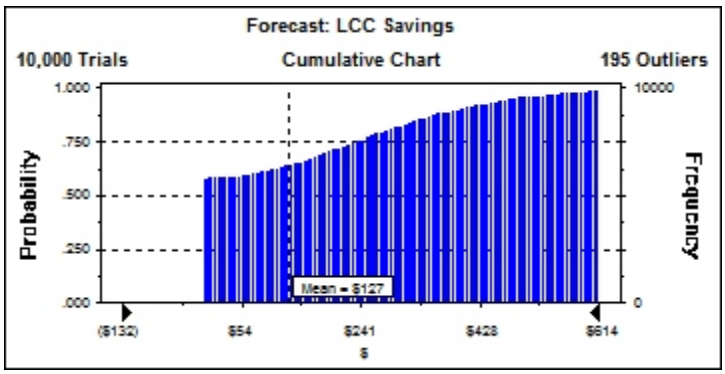

Figure 8D.1.25 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 1; Low Load Growth Scenario

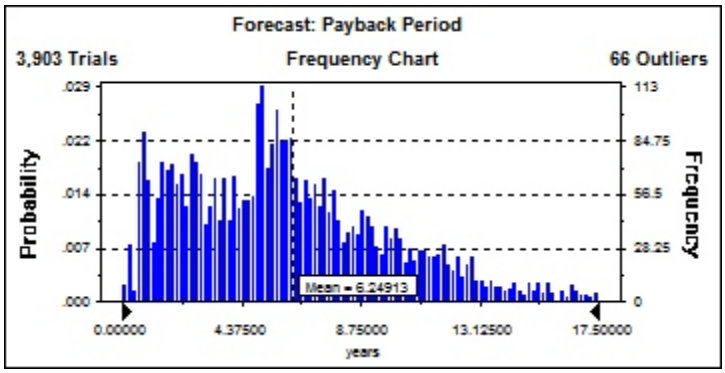

Figure 8D.1.26 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 1; Low Load Growth Scenario

8D.1.1.9 High Load Growth

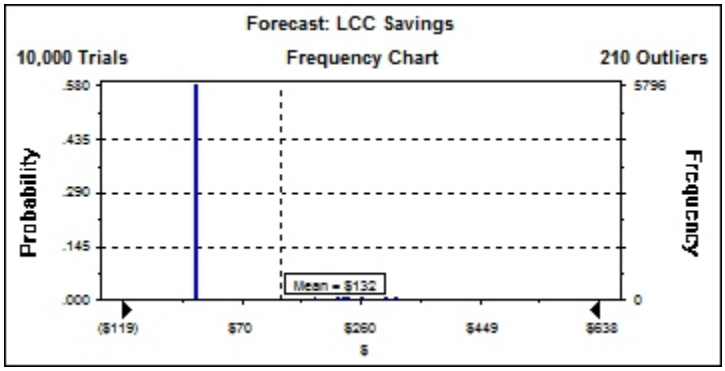

Figure 8D.1.27 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 1; High Load Growth Scenario

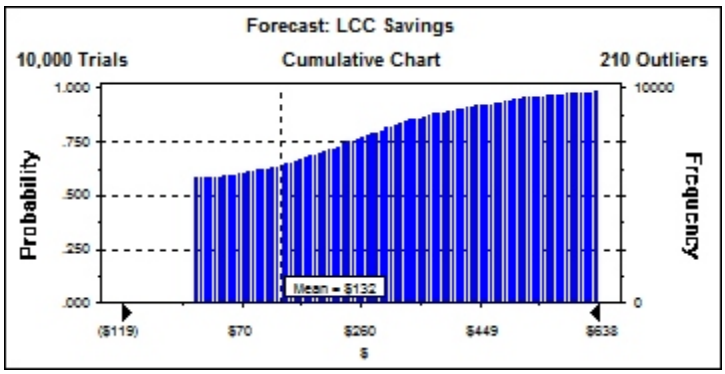

Figure 8D.1.28 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 1; High Load Growth Scenario

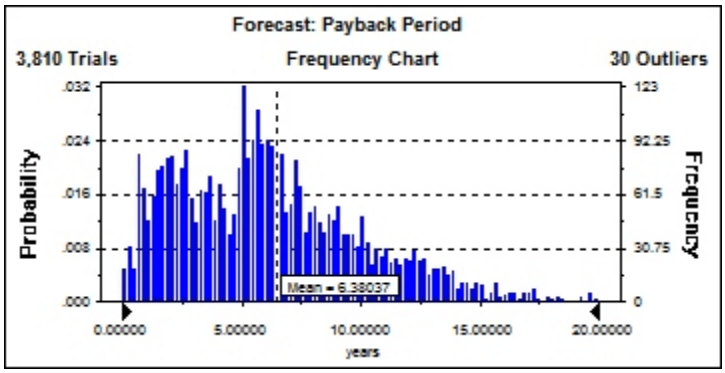

Figure 8D.1.29 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 1; High Load Growth Scenario

8D.1.2 Design Line 1; Candidate Standard Level 2

Table 8D.1.3 Standard Level: 2; Summary Table

Scenario	Transformers having LCC Savings > $0 (%)	Mean LCC Savings ($)	Mean Payback (Years)
Baseline	86.3%	$158	14.5
Low A & B Distribution	92.4%	$309	10.6
High A & B Distribution	81.4%	$14	23.8
Low Loading	85.6%	$142	14.8
High Loading	88.1%	$177	13.6
Low Electricity Price	83.9%	$126	15.9
High Electricity Price	88.4%	$196	13.0
Low Load Growth	84.9%	$146	14.2
High Load Growth	87.1%	$168	14.4

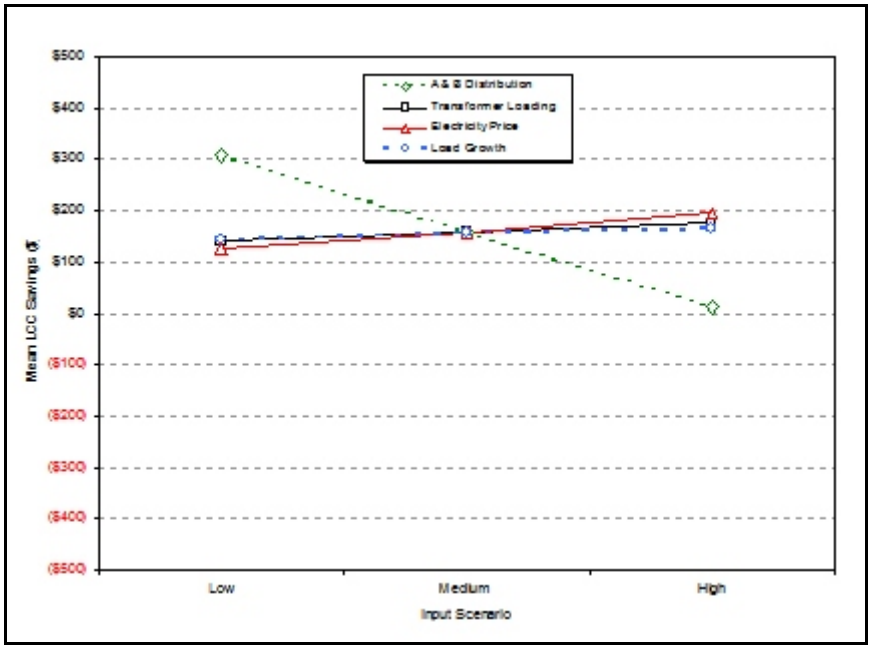

Figure 8D.1.30 Sensitivity of LCC to Input Changes for Design Line 1, Standard Level 2

8D.1.2.1 Baseline

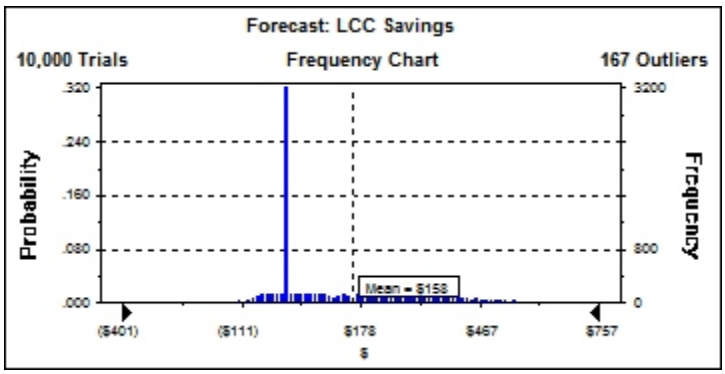

Figure 8D.1.31 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 2; Baseline Scenario

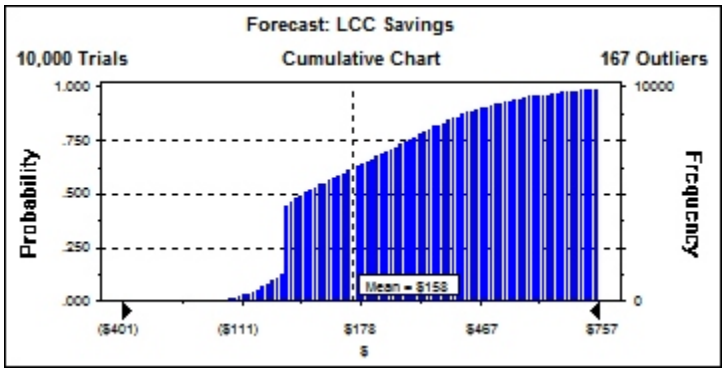

Figure 8D.1.32 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 2; Baseline Scenario

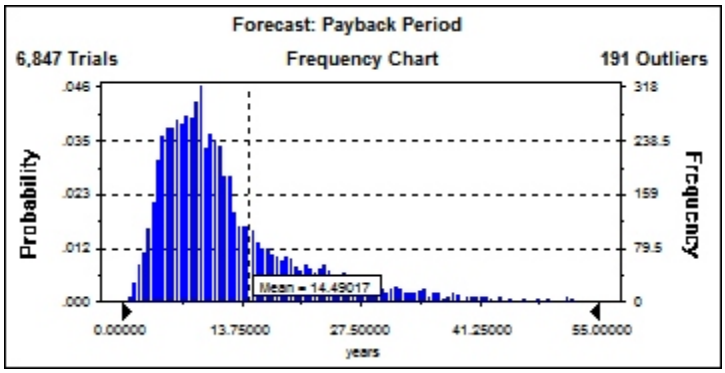

Figure 8D.1.33 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 2; Baseline Scenario

8D.1.2.2 Low A & B Distribution

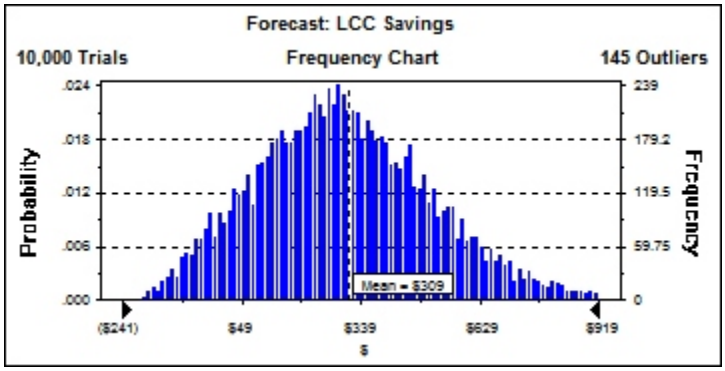

Figure 8D.1.34 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 2; Low A & B Distribution Scenario

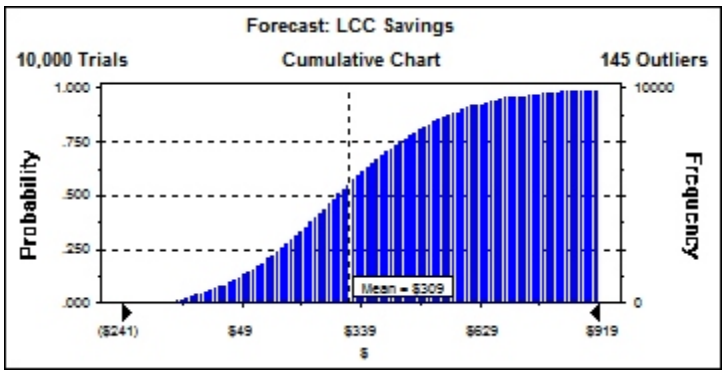

Figure 8D.1.35 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 2; Low A & B Distribution Scenario

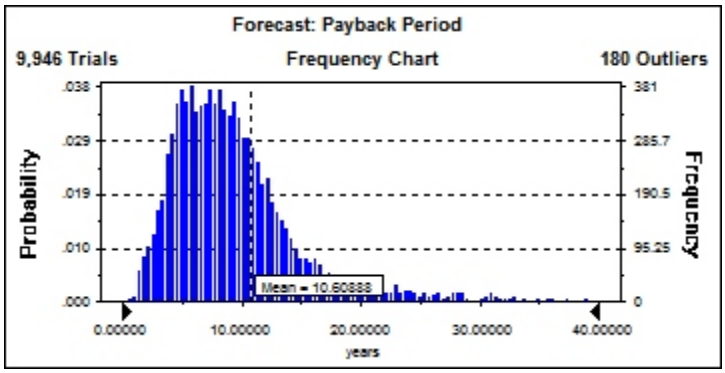

Figure 8D.1.36 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 2; Low A & B Distribution Scenario

8D.1.2.3 High A & B Distribution

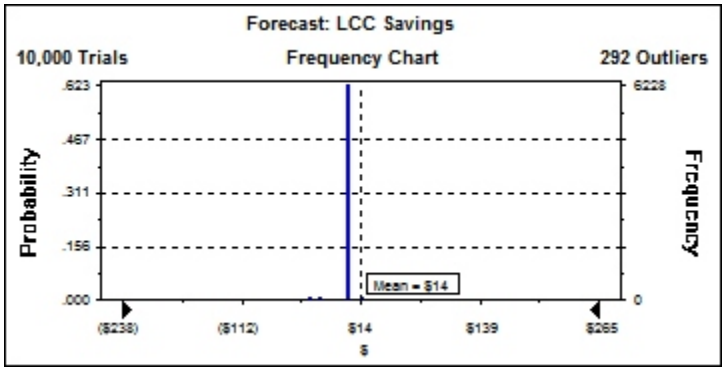

Figure 8D.1.37 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 2; High A & B Distribution Scenario

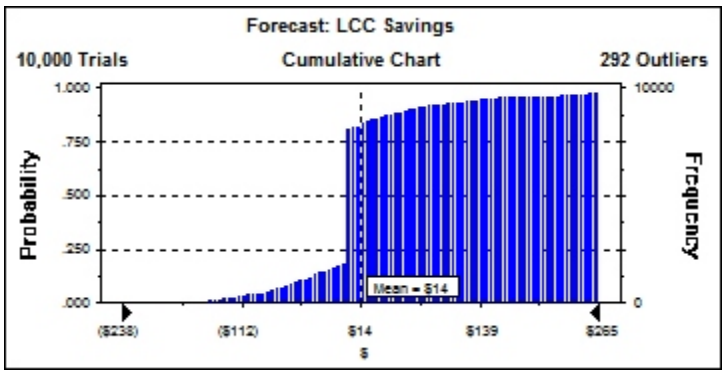

Figure 8D.1.38 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 2; High A & B Distribution Scenario

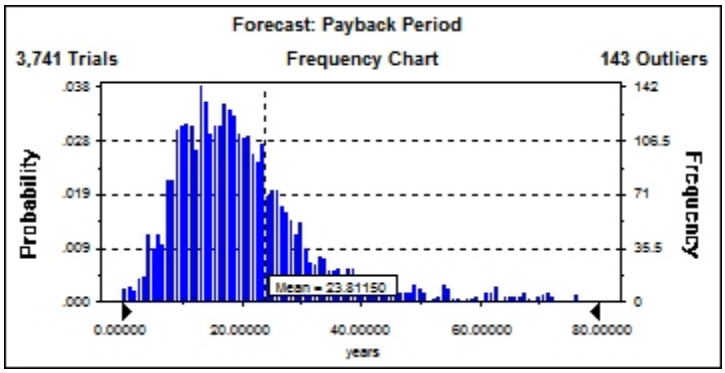

Figure 8D.1.39 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 2; High A & B Distribution Scenario

8D.1.2.4 Low Loading

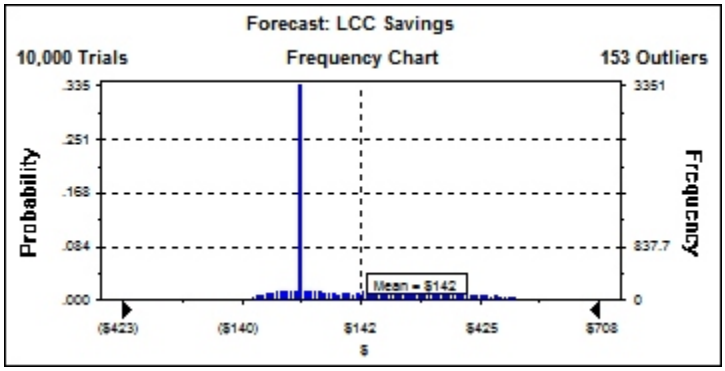

Figure 8D.1.40 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 2; Low Transformer Loading Scenario

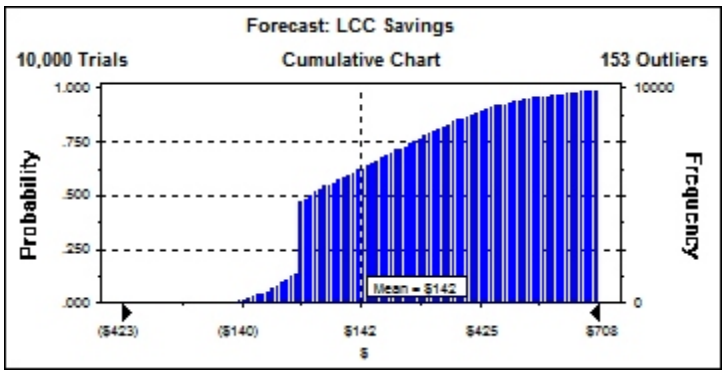

Figure 8D.1.41 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 2; Low Transformer Loading Scenario

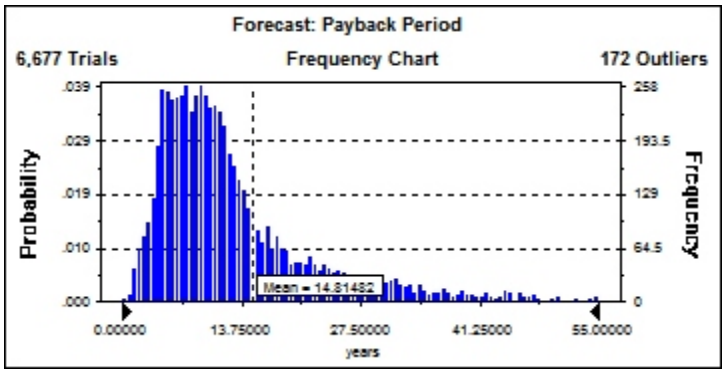

Figure 8D.1.42 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 2; Low Transformer Loading Scenario

8D.1.2.5 High Loading

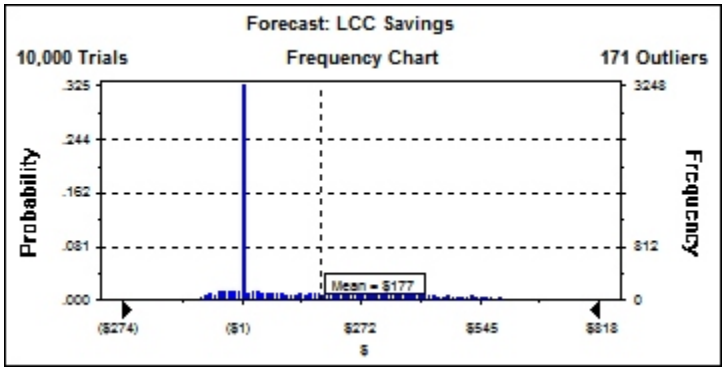

Figure 8D.1.43 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 2; High Transformer Loading Scenario

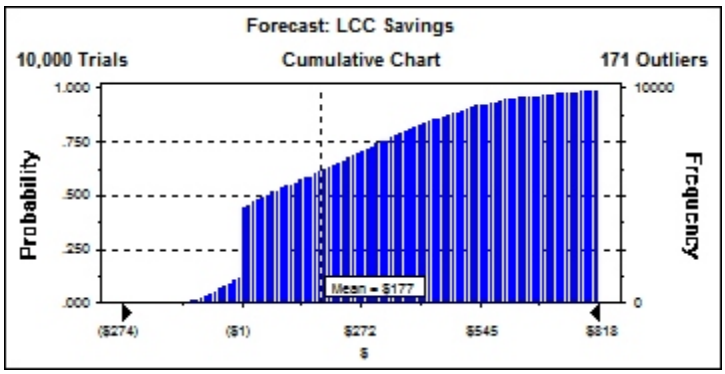

Figure 8D.1.44 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 2; High Transformer Loading Scenario

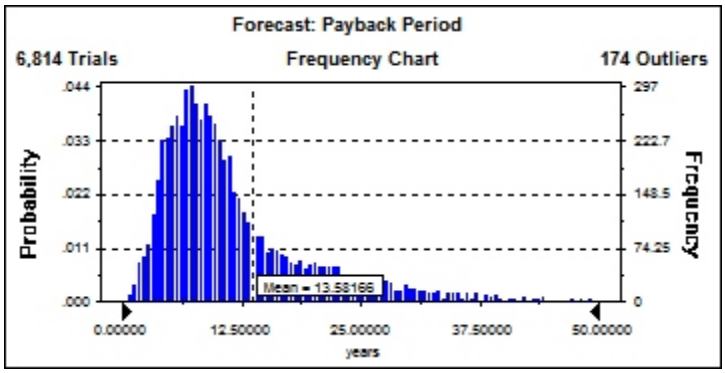

Figure 8D.1.45 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 2; High Transformer Loading Scenario

8D.1.2.6 Low Electricity Price

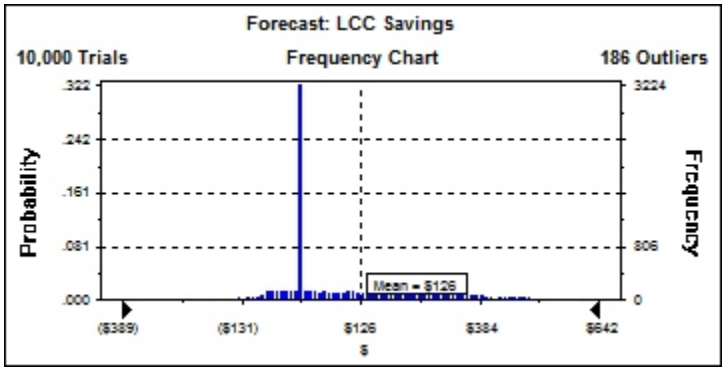

Figure 8D.1.46 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 2; Low Electricity Price Scenario

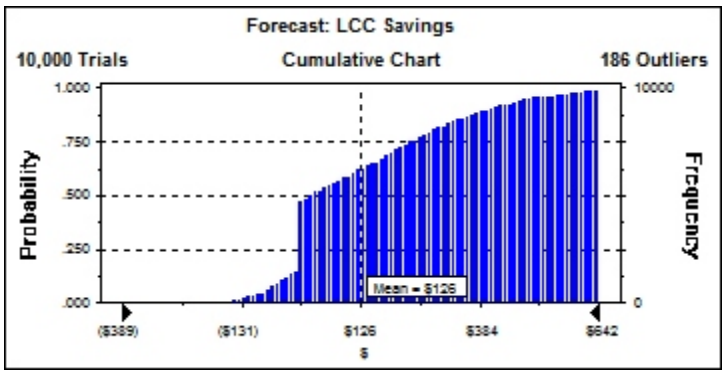

Figure 8D.1.47 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 2; Low Electricity Price Scenario

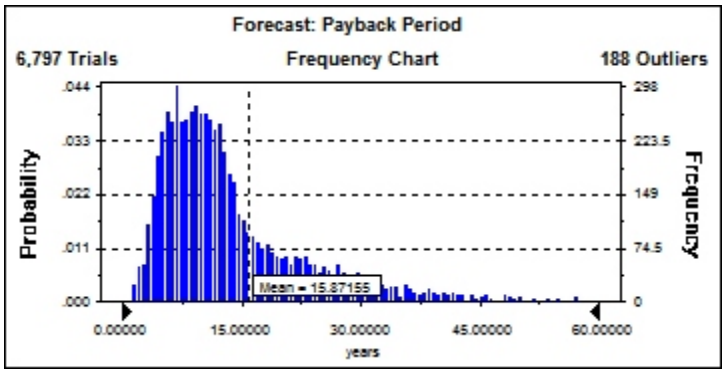

Figure 8D.1.48 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 2; Low Electricity Price Scenario

8D.1.2.7 High Electricity Price

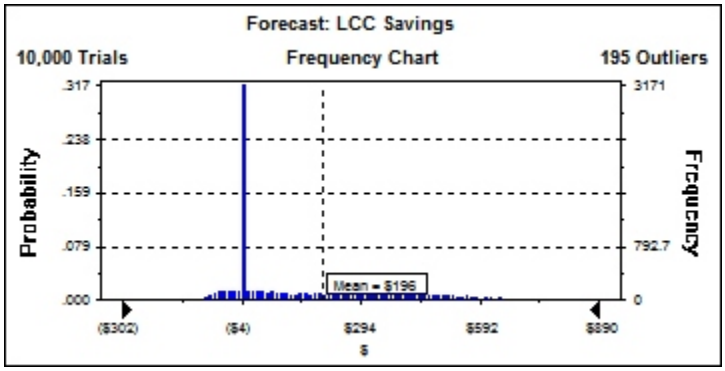

Figure 8D.1.49 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 2; High Electricity Price Scenario

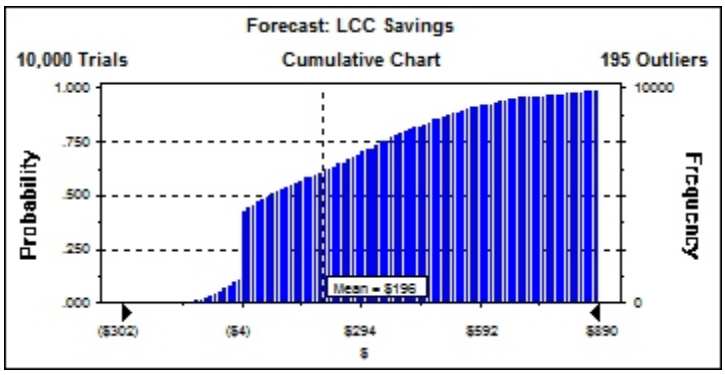

Figure 8D.1.50 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 2; High Electricity Price Scenario

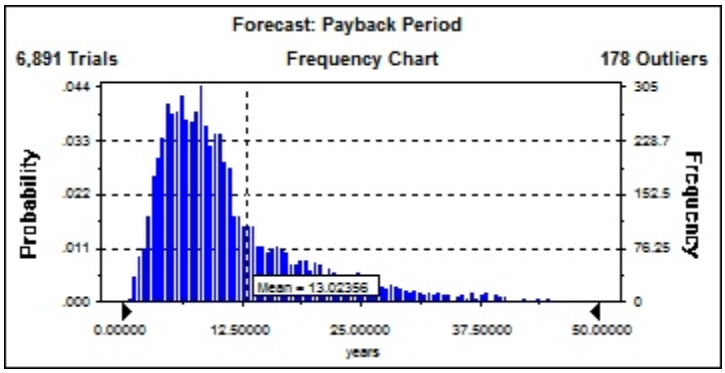

Figure 8D.1.51 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 2; High Electricity Price Scenario

8D.1.2.8 Low Load Growth

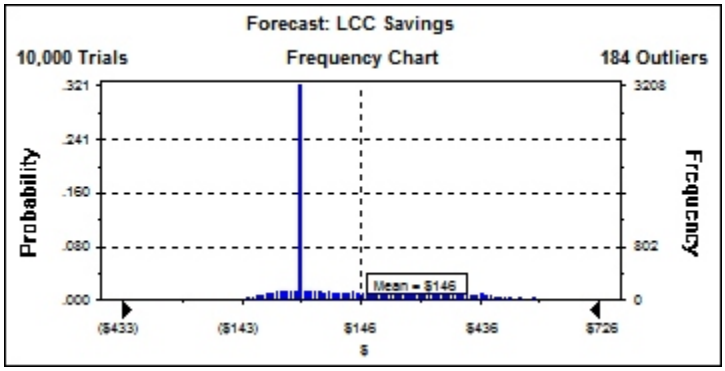

Figure 8D.1.52 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 2; Low Load Growth Scenario

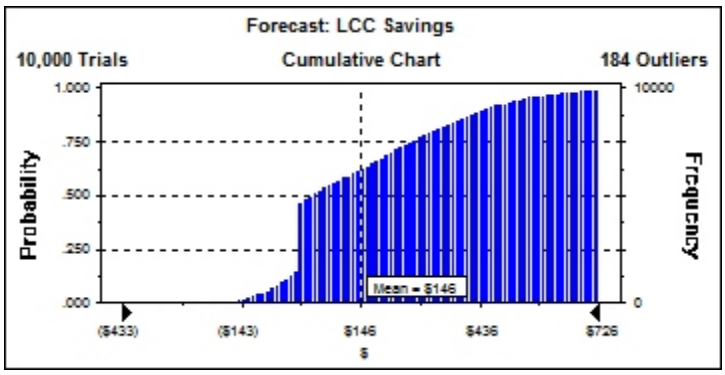

Figure 8D.1.53 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 2; Low Load Growth Scenario

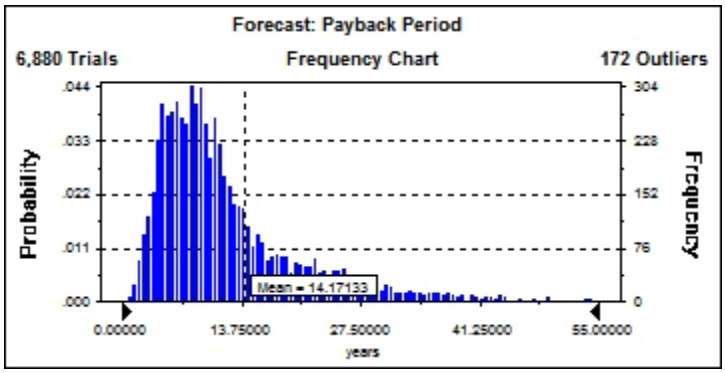

Figure 8D.1.54 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 2; Low Load Growth Scenario

8D.1.2.9 High Load Growth

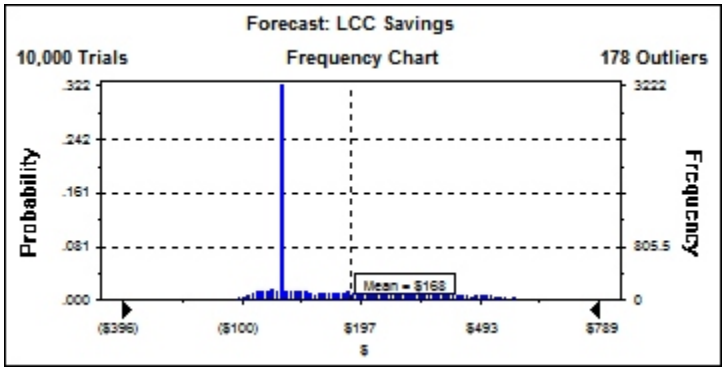

Figure 8D.1.55 **LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 2; High Load Growth Scenario**

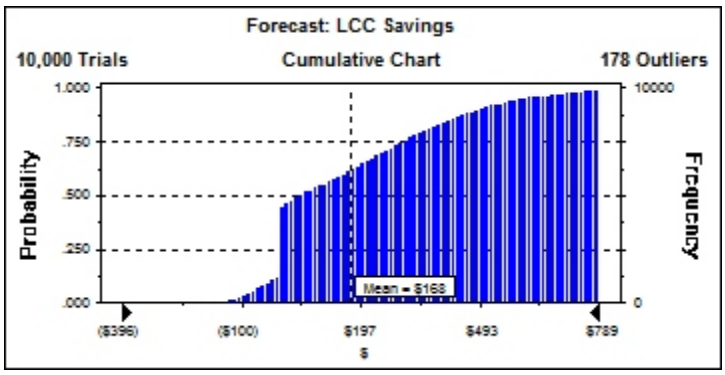

Figure 8D.1.56 **LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 2; High Load Growth Scenario**

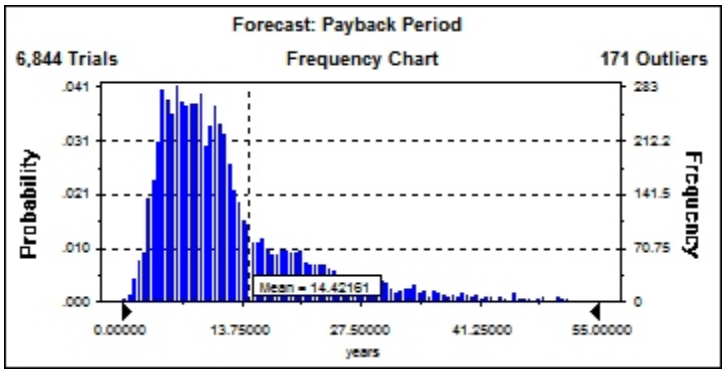

Figure 8D.1.57 **Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 2; High Load Growth Scenario**

8D.1.3 Design Line 1; Candidate Standard Level 3

Table 8D.1.4 Standard Level: 3; Summary Table

Scenario	Transformers having LCC Savings > $0 (%)	Mean LCC Savings ($)	Mean Payback (Years)
Baseline	41.4%	($13)	25.1
Low A & B Distribution	67.0%	$134	18.2
High A & B Distribution	16.8%	($159)	32.3
Low Loading	39.7%	($35)	25.9
High Loading	44.7%	$16	24.3
Low Electricity Price	35.0%	($69)	27.7
High Electricity Price	47.4%	$44	23.0
Low Load Growth	38.0%	($41)	25.0
High Load Growth	43.5%	($2)	25.0

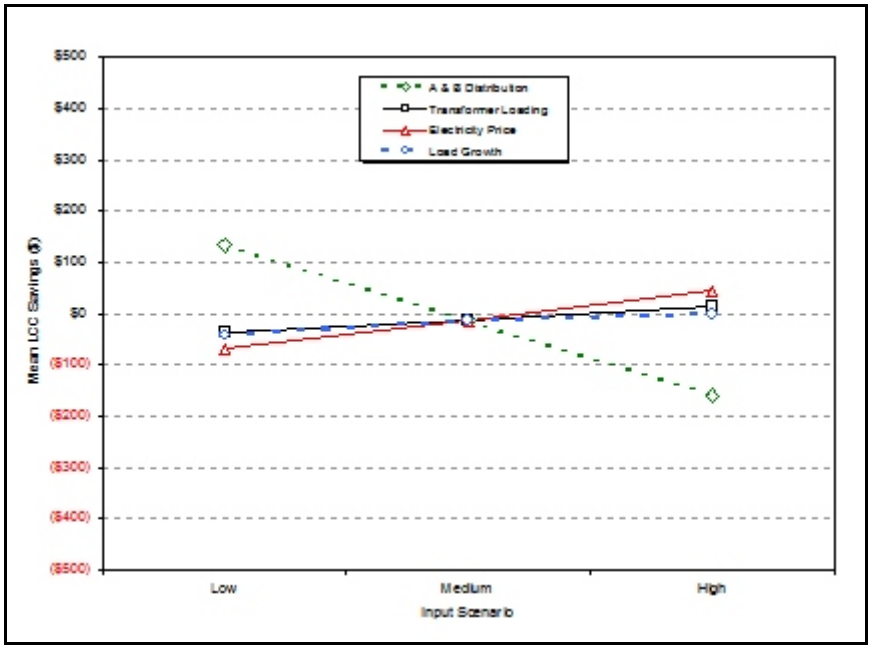

Figure 8D.1.58 Sensitivity of LCC to Input Changes for Design Line 1, Standard Level 3

8D.1.3.1 Baseline

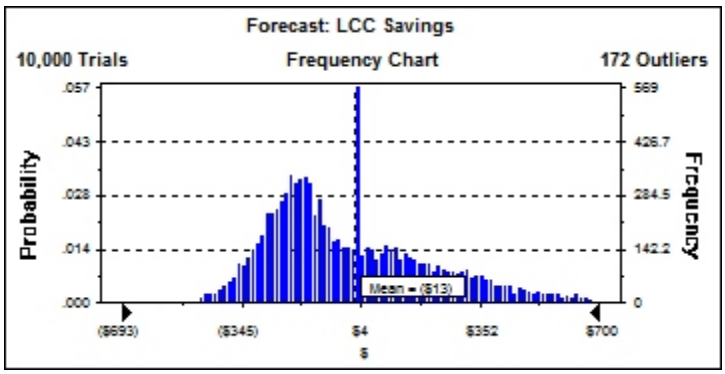

Figure 8D.1.59 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 3; Baseline Scenario

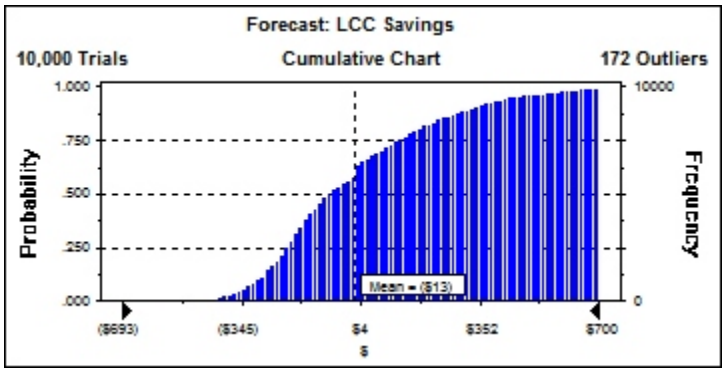

Figure 8D.1.60 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 3; Baseline Scenario

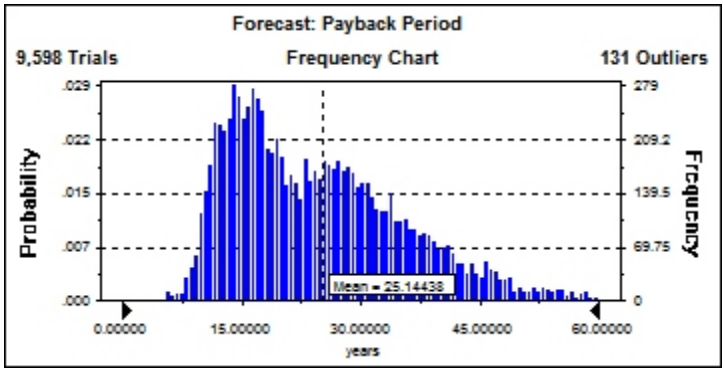

Figure 8D.1.61 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 3; Baseline Scenario

8D.1.3.2 Low A & B Distribution

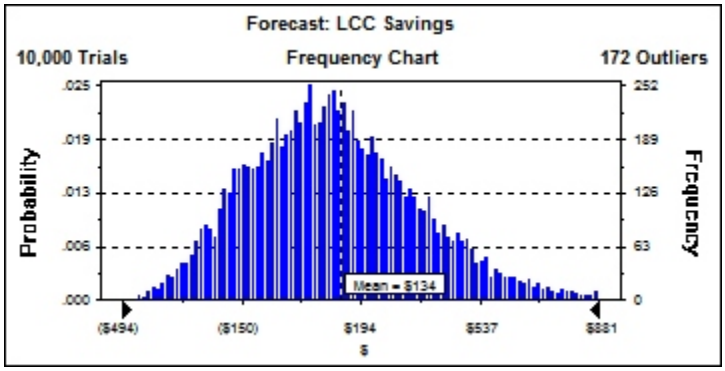

Figure 8D.1.62 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 3; Low A & B Distribution Scenario

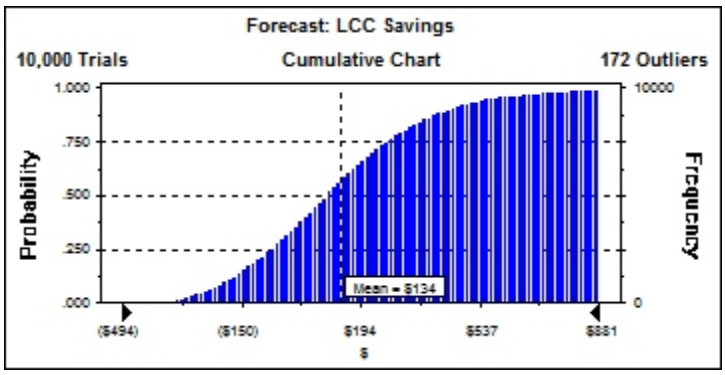

Figure 8D.1.63 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 3; Low A & B Distribution Scenario

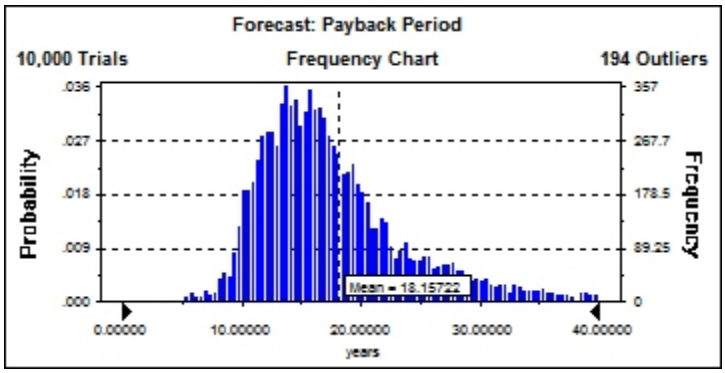

Figure 8D.1.64 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 3; Low A & B Distribution Scenario

8D.1.3.3 High A & B Distribution

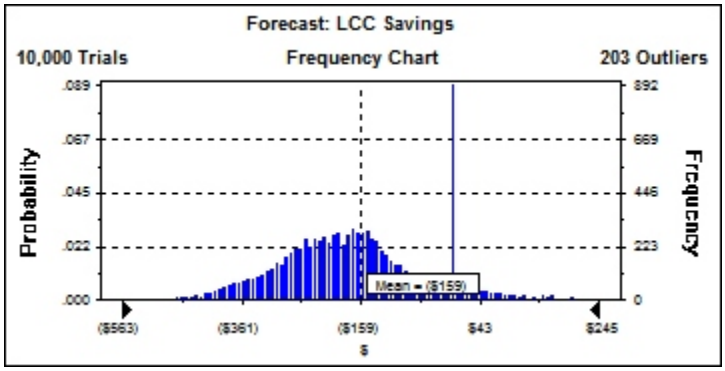

Figure 8D.1.65 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 3; High A & B Distribution Scenario

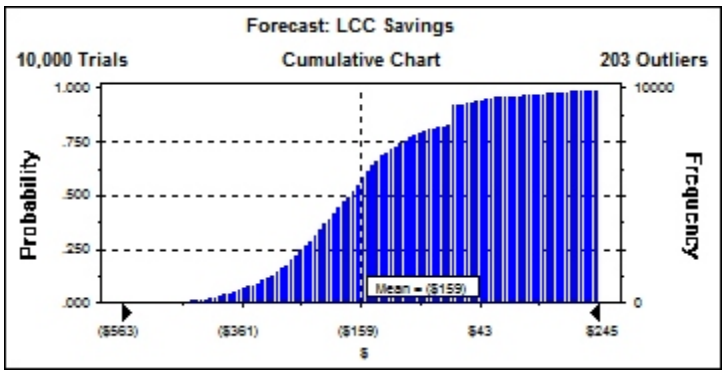

Figure 8D.1.66 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 3; High A & B Distribution Scenario

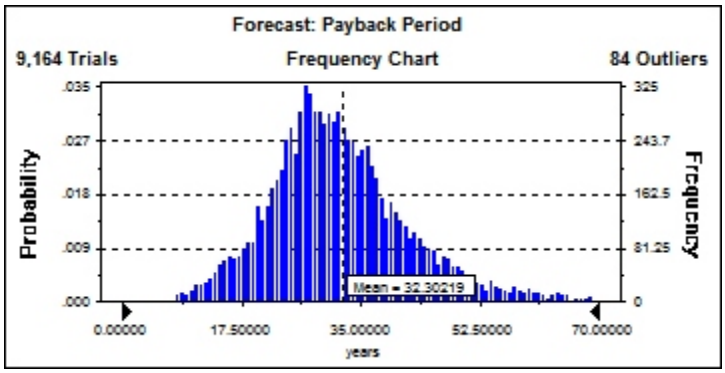

Figure 8D.1.67 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 3; High A & B Distribution Scenario

8D.1.3.4 Low Loading

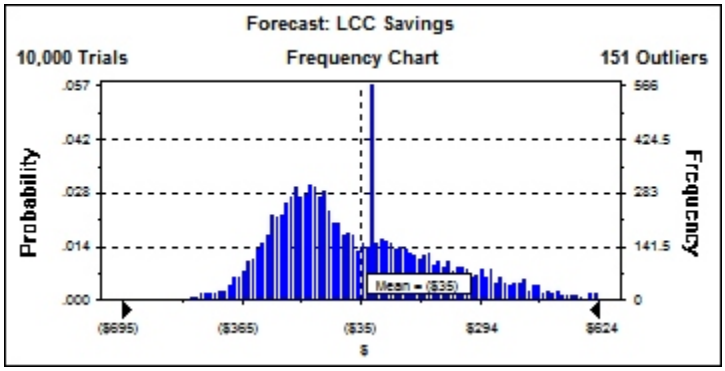

Figure 8D.1.68 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 3; Low Transformer Loading Scenario

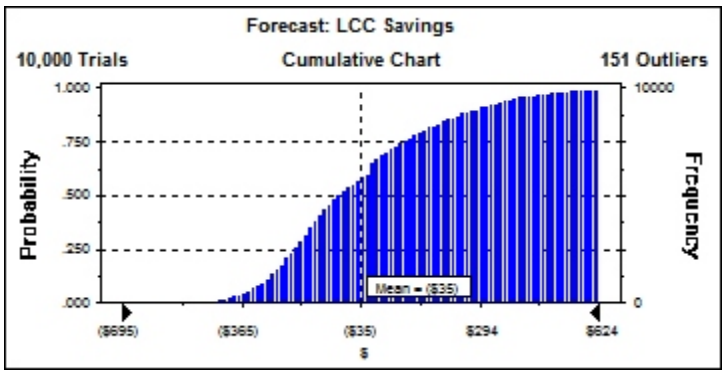

Figure 8D.1.69 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 3; Low Transformer Loading Scenario

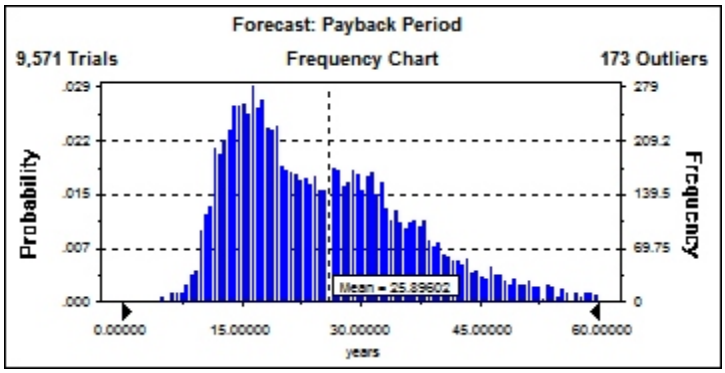

Figure 8D.1.70 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 3; Low Transformer Loading Scenario

8D.1.3.5 High Loading

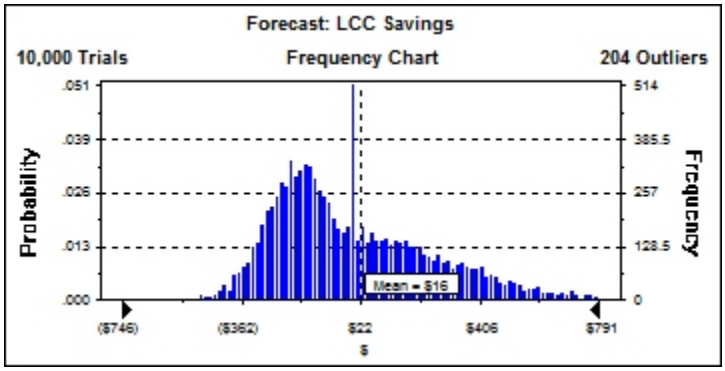

Figure 8D.1.71 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 3; High Transformer Loading Scenario

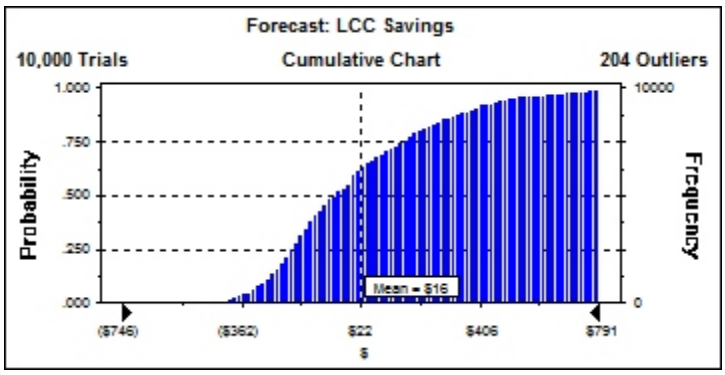

Figure 8D.1.72 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 3; High Transformer Loading Scenario

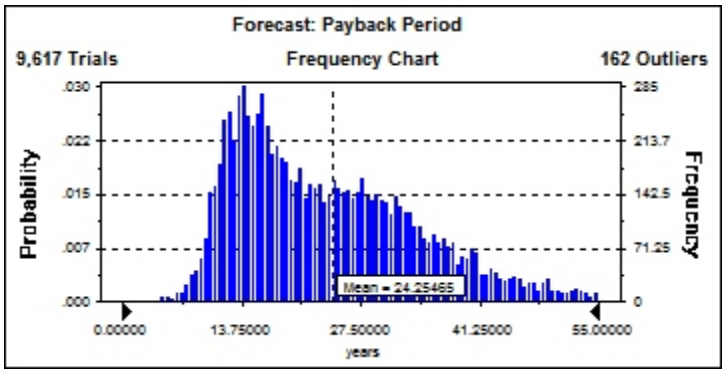

Figure 8D.1.73 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 3; High Transformer Loading Scenario

8D.1.3.6 Low Electricity Price

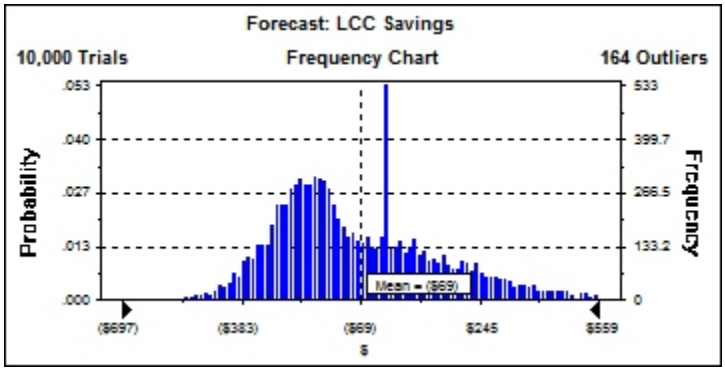

Figure 8D.1.74 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 3; Low Electricity Price Scenario

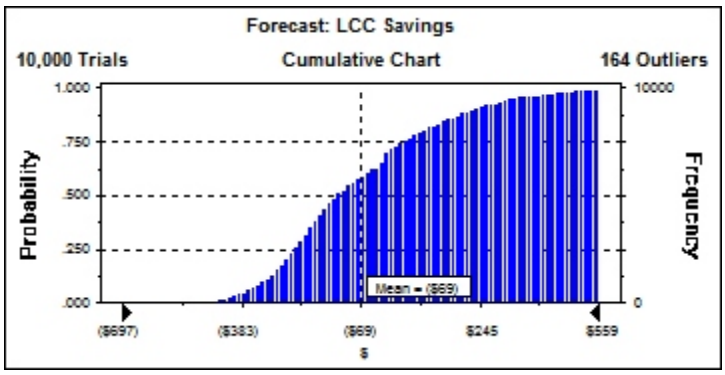

Figure 8D.1.75 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 3; Low Electricity Price Scenario

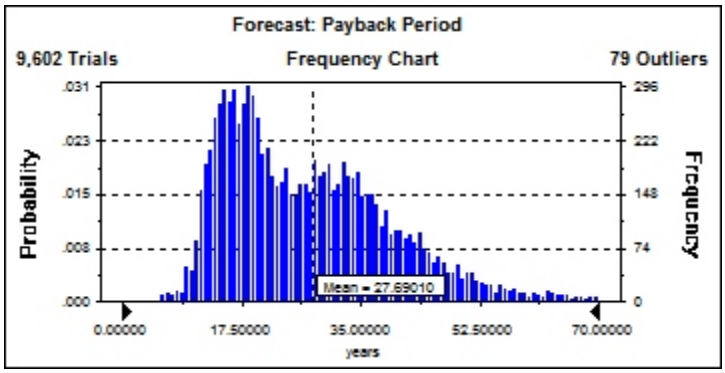

Figure 8D.1.76 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 3; Low Electricity Price Scenario

8D.1.3.7 High Electricity Price

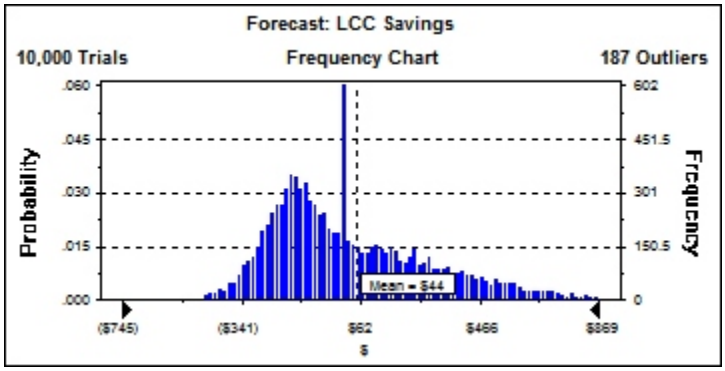

Figure 8D.1.77 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 3; High Electricity Price Scenario

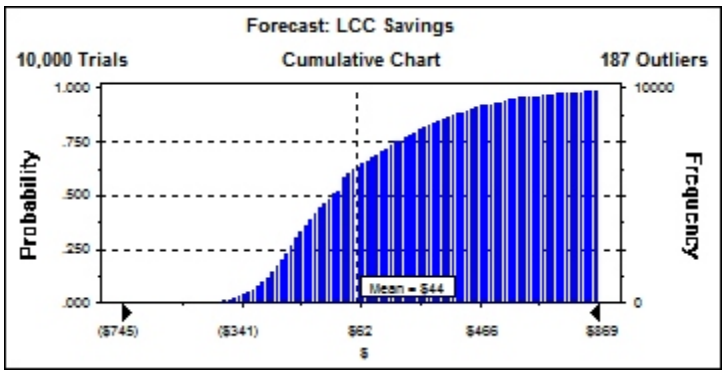

Figure 8D.1.78 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 3; High Electricity Price Scenario

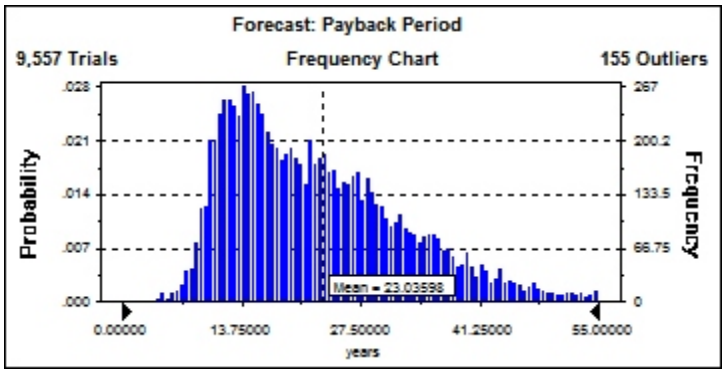

Figure 8D.1.79 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 3; High Electricity Price Scenario

8D.1.3.8 Low Load Growth

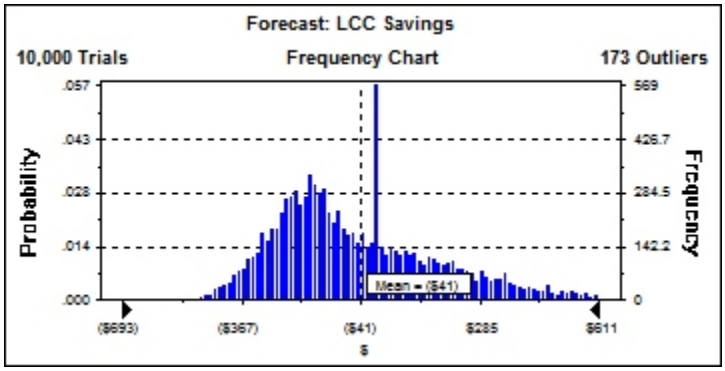

Figure 8D.1.80 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 3; Low Load Growth Scenario

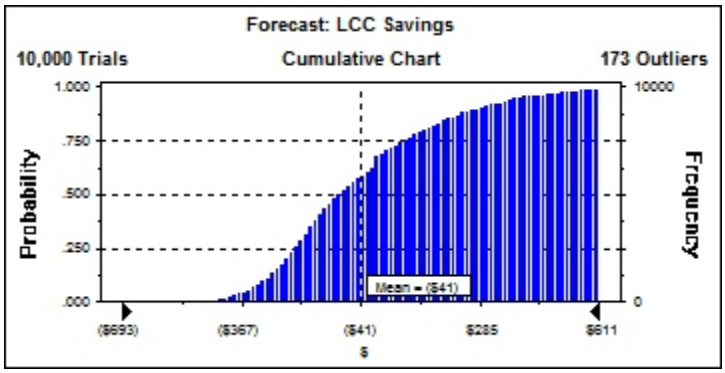

Figure 8D.1.81 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 3; Low Load Growth Scenario

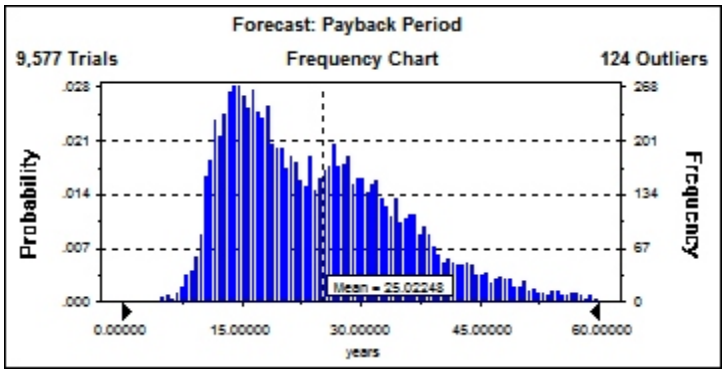

Figure 8D.1.82 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 3; Low Load Growth Scenario

8D.1.3.9 High Load Growth

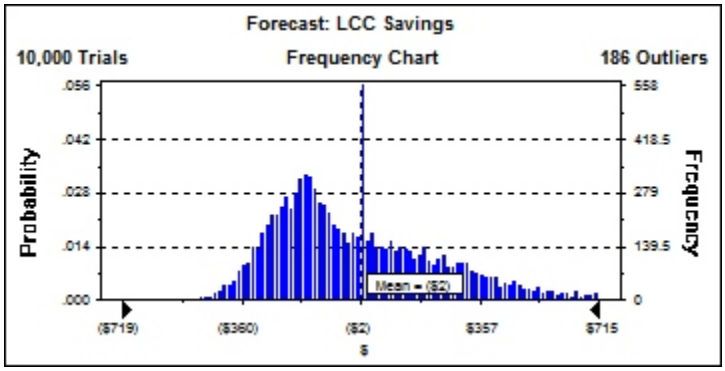

Figure 8D.1.83 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 3; High Load Growth Scenario

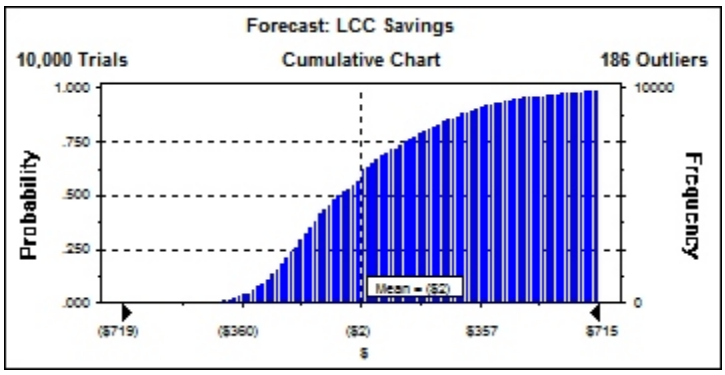

Figure 8D.1.84 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 3; High Load Growth Scenario

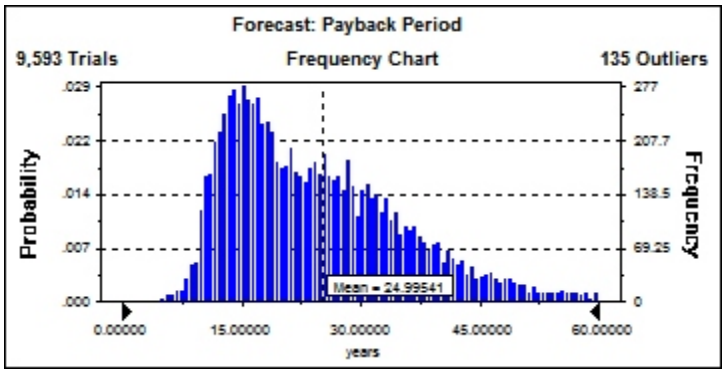

Figure 8D.1.85 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 3; High Load Growth Scenario

8D.1.4 Design Line 1; Candidate Standard Level 4

Table 8D.1.5 Standard Level: 4; Summary Table

Scenario	Transformers having LCC Savings > $0 (%)	Mean LCC Savings ($)	Mean Payback (Years)
Baseline	35.8%	($64)	23.3
Low A & B Distribution	55.5%	$75	19.0
High A & B Distribution	17.0%	($201)	28.0
Low Loading	34.4%	($80)	23.6
High Loading	37.8%	($45)	23.0
Low Electricity Price	26.9%	($144)	25.8
High Electricity Price	44.6%	$13	21.4
Low Load Growth	33.4%	($88)	23.4
High Load Growth	37.7%	($55)	23.2

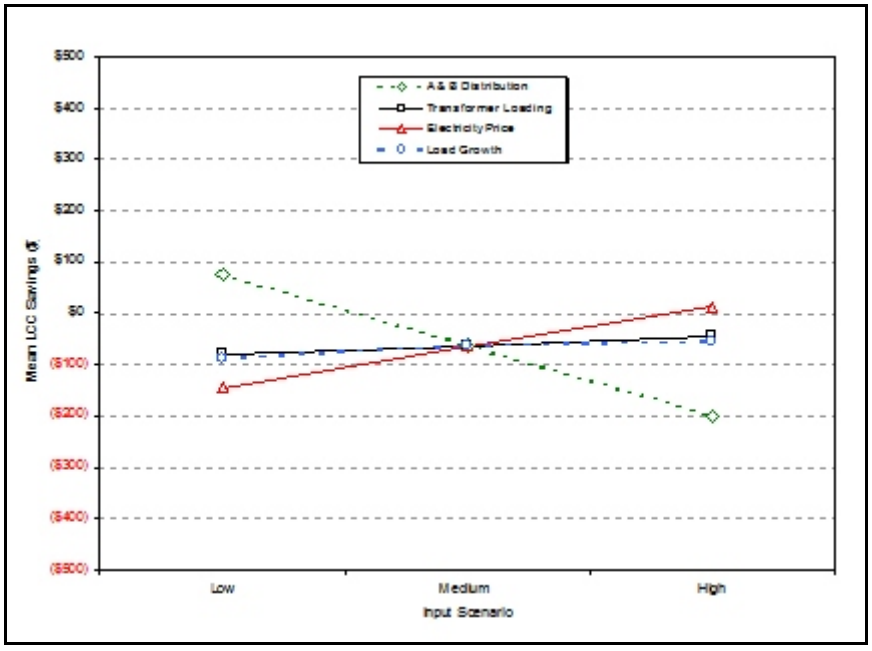

Figure 8D.1.86 Sensitivity of LCC to Input Changes for Design Line 1, Standard Level 4

8D.1.4.1 Baseline

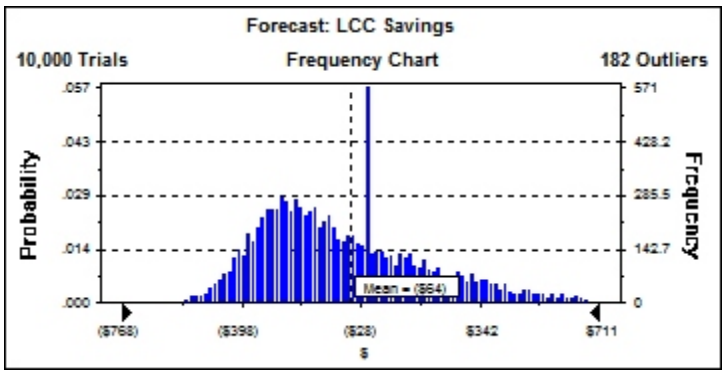

Figure 8D.1.87 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 4; Baseline Scenario

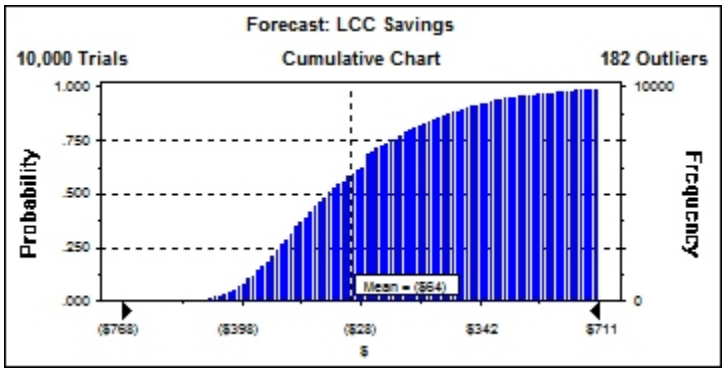

Figure 8D.1.88 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 4; Baseline Scenario

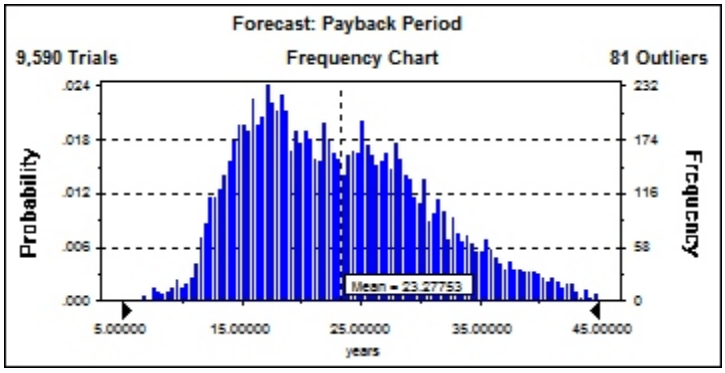

Figure 8D.1.89 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 4; Baseline Scenario

8D.1.4.2 Low A & B Distribution

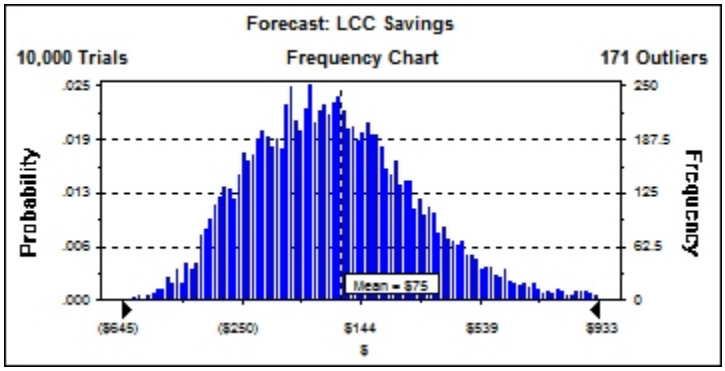

Figure 8D.1.90 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 4; Low A & B Distribution Scenario

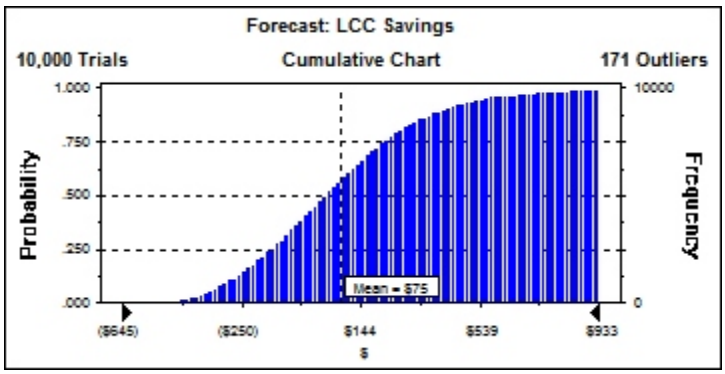

Figure 8D.1.91 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 4; Low A & B Distribution Scenario

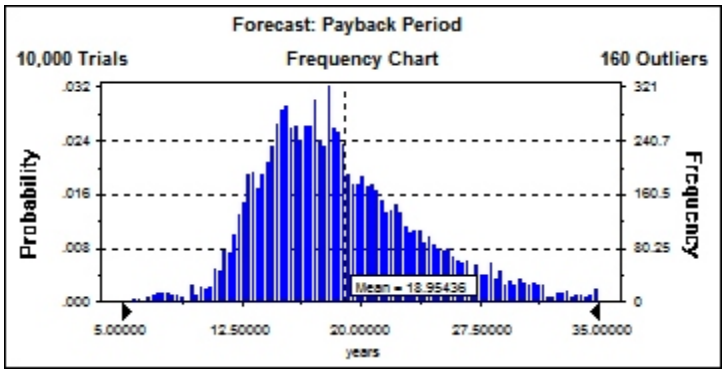

Figure 8D.1.92 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 4; Low A & B Distribution Scenario

8D.1.4.3 High A & B Distribution

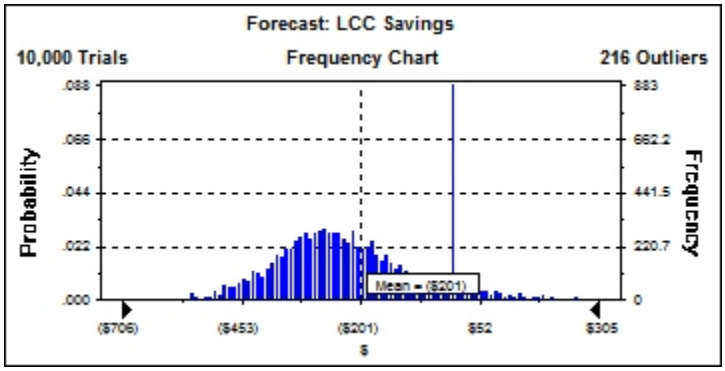

Figure 8D.1.93 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 4; High A & B Distribution Scenario

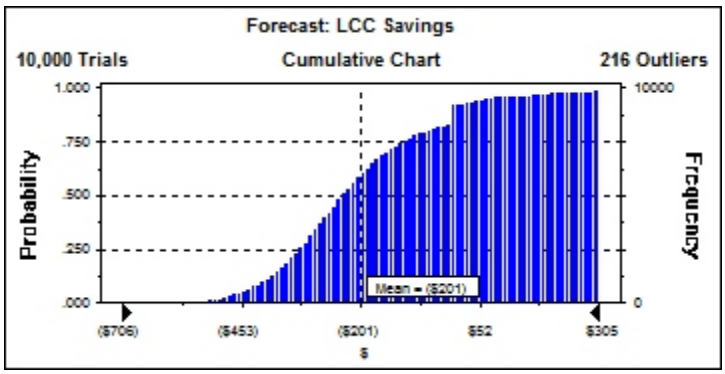

Figure 8D.1.94 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 4; High A & B Distribution Scenario

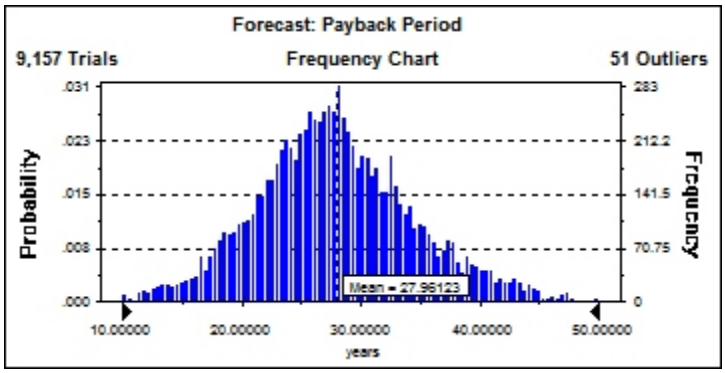

Figure 8D.1.95 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 4; High A & B Distribution Scenario

8D.1.4.4 Low Loading

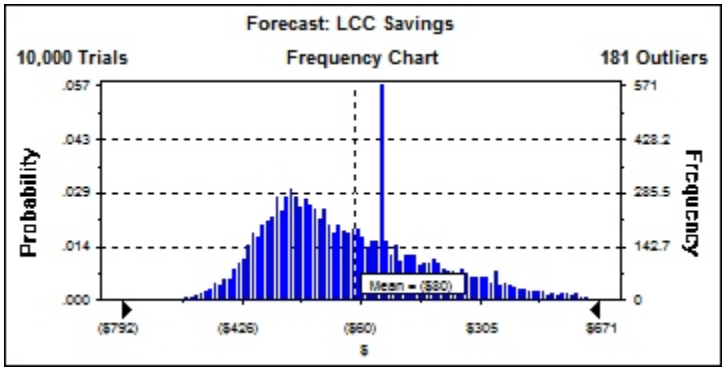

Figure 8D.1.96 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 4; Low Transformer Loading Scenario

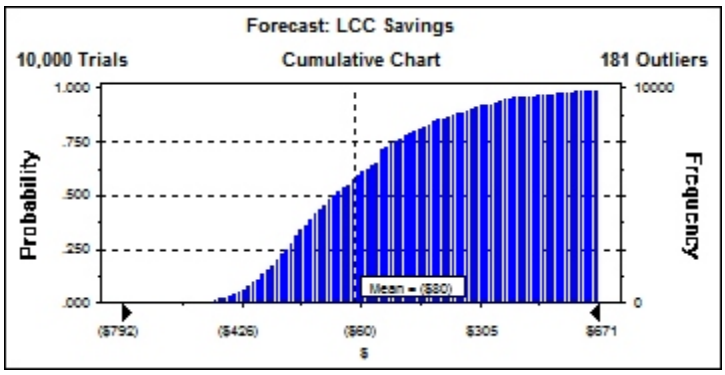

Figure 8D.1.97 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 4; Low Transformer Loading Scenario

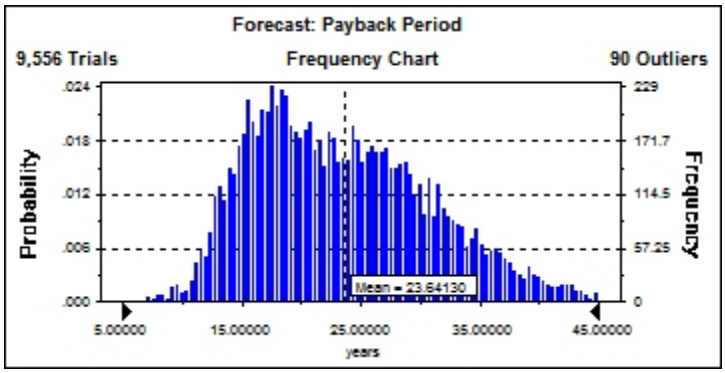

Figure 8D.1.98 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 4; Low Transformer Loading Scenario

8D.1.4.5 High Loading

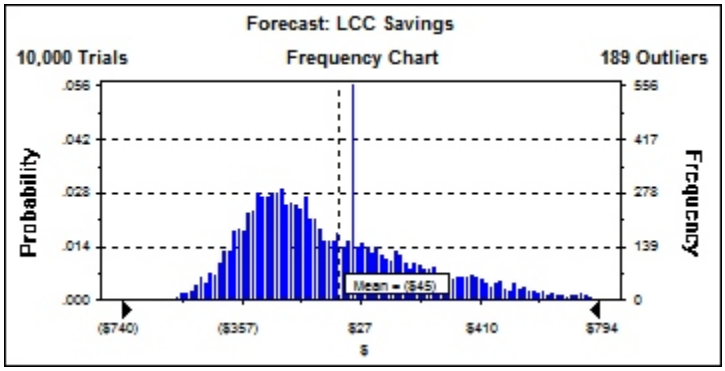

Figure 8D.1.99 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 4; High Transformer Loading Scenario

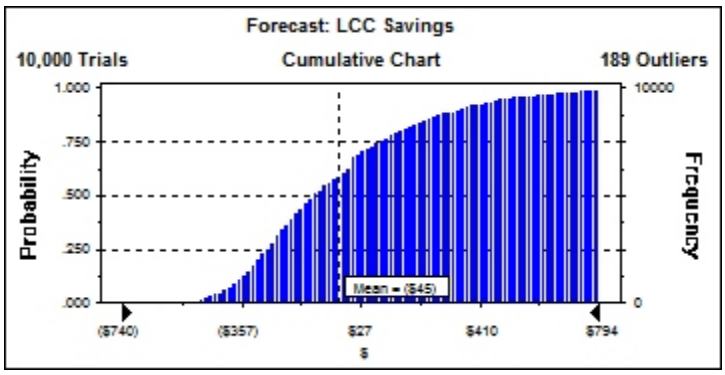

Figure 8D.1.100 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 4; High Transformer Loading Scenario

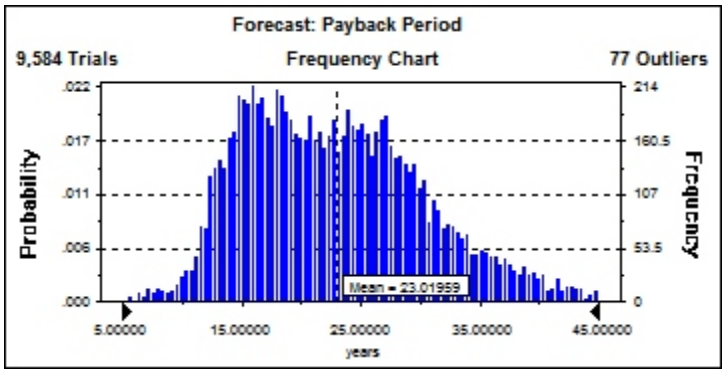

Figure 8D.1.101 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 4; High Transformer Loading Scenario

8D.1.4.6 Low Electricity Price

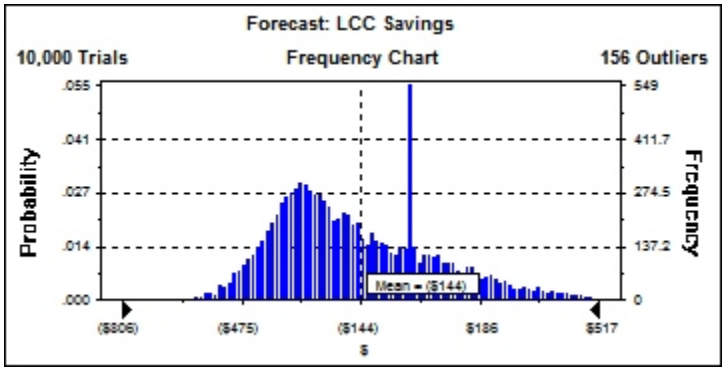

Figure 8D.1.102 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 4; Low Electricity Price Scenario

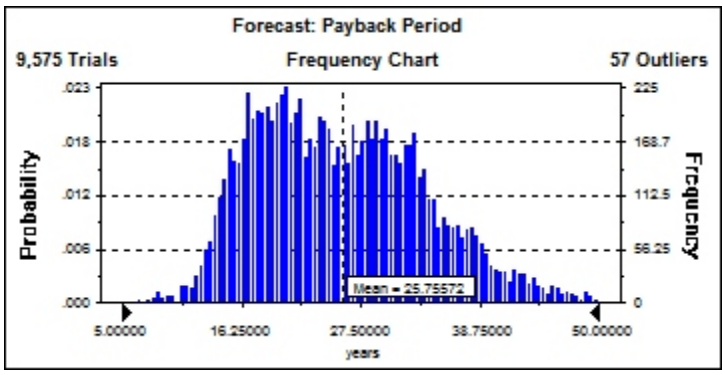

Figure 8D.1.103 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 4; Low Electricity Price Scenario

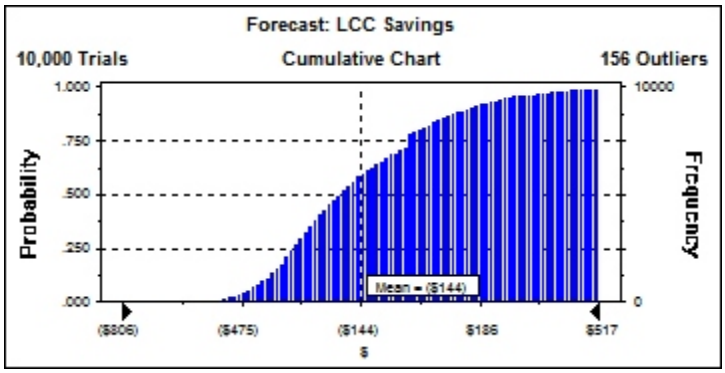

Figure 8D.1.104 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 4; Low Electricity Price Scenario

8D.1.4.7 High Electricity Price

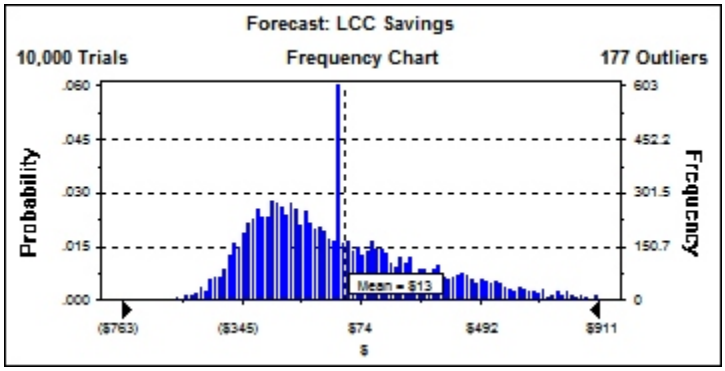

Figure 8D.1.105 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 4; High Electricity Price Scenario

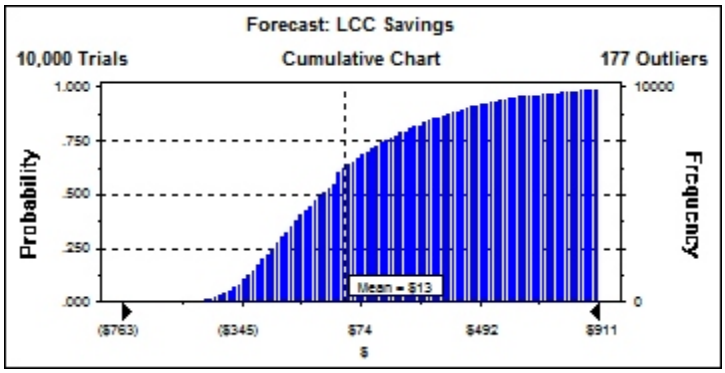

Figure 8D.1.106 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 4; High Electricity Price Scenario

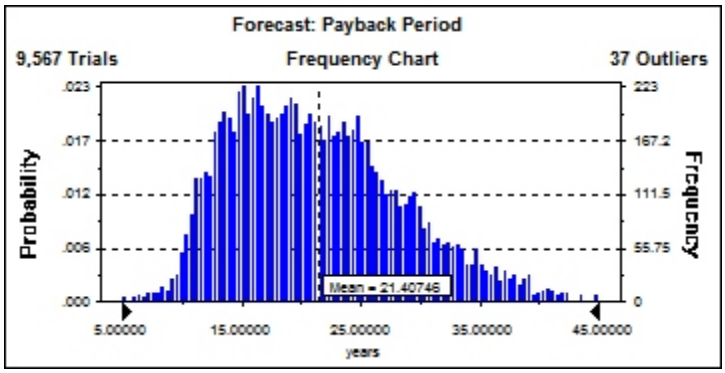

Figure 8D.1.107 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 4; High Electricity Price Scenario

8D.1.4.8 Low Load Growth

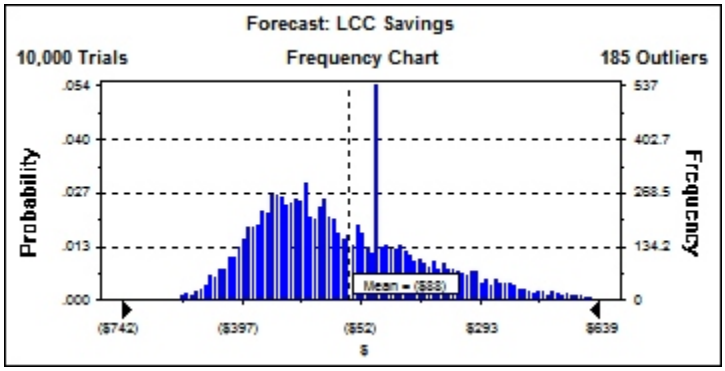

Figure 8D.1.108 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 4; Low Load Growth Scenario

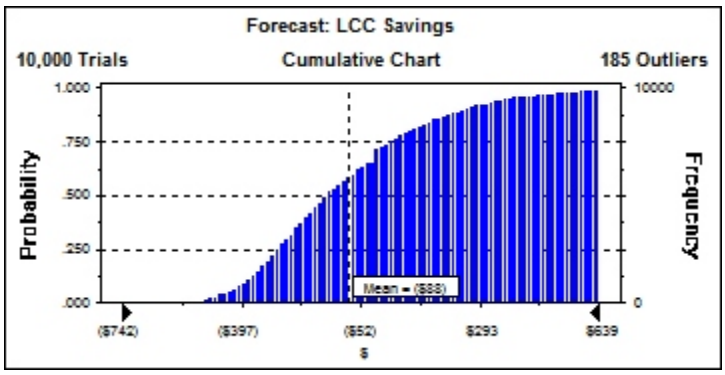

Figure 8D.1.109 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 4; Low Load Growth Scenario

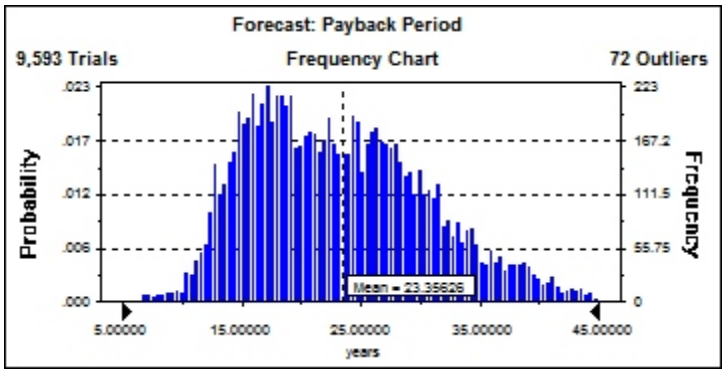

Figure 8D.1.110 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 4; Low Load Growth Scenario

8D.1.4.9 High Load Growth

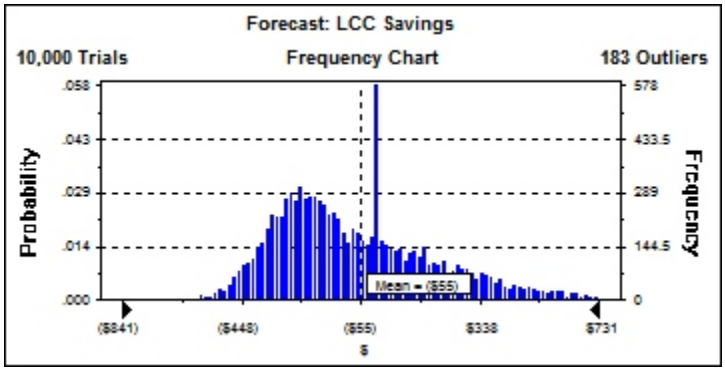

Figure 8D.1.111 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 4; High Load Growth Scenario

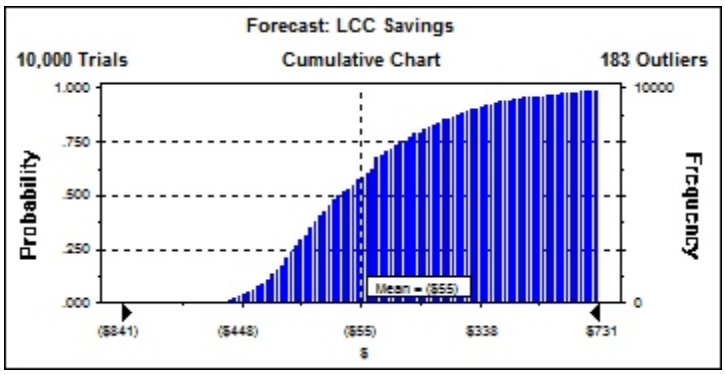

Figure 8D.1.112 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 4; High Load Growth Scenario

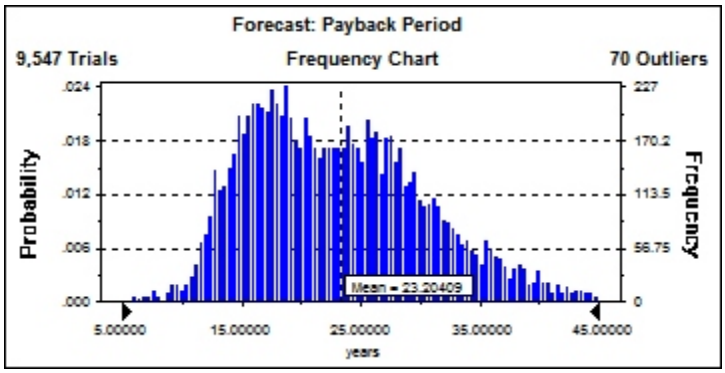

Figure 8D.1.113 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 4; High Load Growth Scenario

8D.1.5 Design Line 1; Candidate Standard Level 5

Table 8D.1.6 Standard Level: 5; Summary Table

Scenario	Transformers having LCC Savings > $0 (%)	Mean LCC Savings ($)	Mean Payback (Years)
Baseline	13.1%	($359)	32.5
Low A & B Distribution	21.7%	($223)	25.1
High A & B Distribution	4.8%	($488)	39.8
Low Loading	10.5%	($397)	33.2
High Loading	17.1%	($307)	31.0
Low Electricity Price	7.8%	($448)	35.9
High Electricity Price	19.9%	($263)	29.7
Low Load Growth	9.6%	($406)	32.7
High Load Growth	15.4%	($328)	32.1

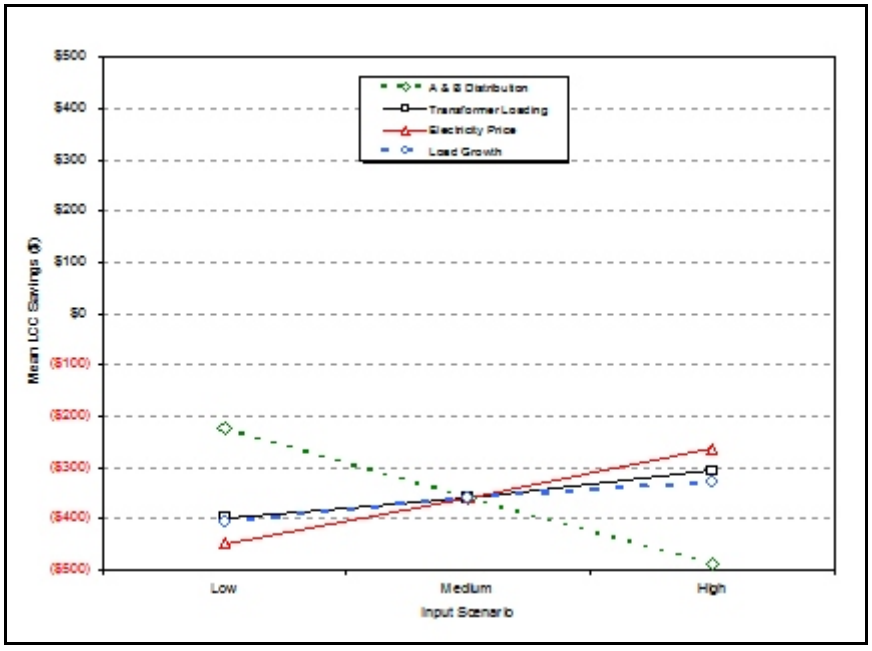

Figure 8D.1.114 Sensitivity of LCC to Input Changes for Design Line 1, Standard Level 5

8D.1.5.1 Baseline

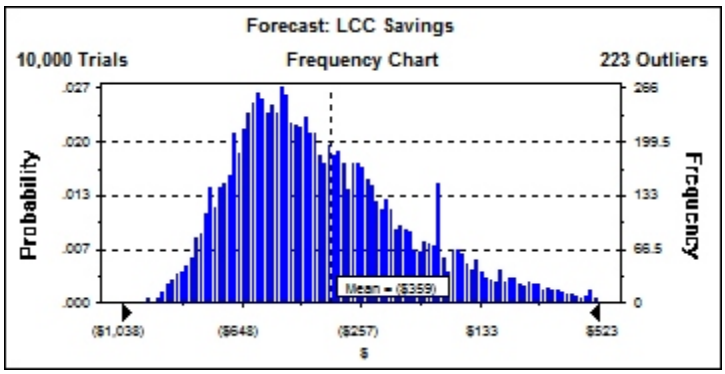

Figure 8D.1.115 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 5; Baseline Scenario

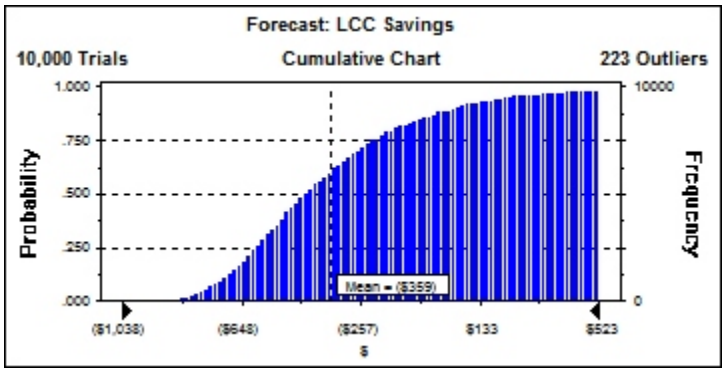

Figure 8D.1.116 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 5; Baseline Scenario

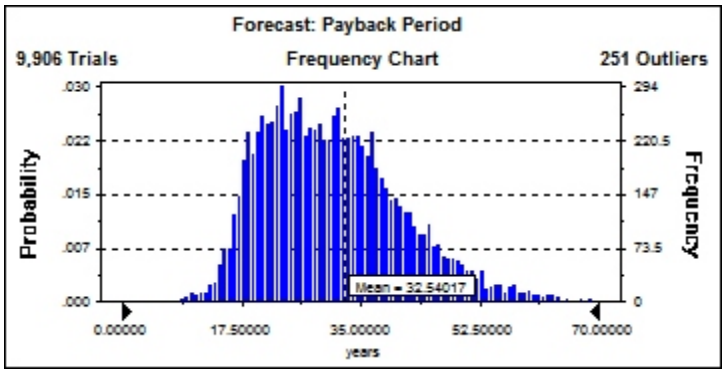

Figure 8D.1.117 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 5; Baseline Scenario

8D.1.5.2 Low A & B Distribution

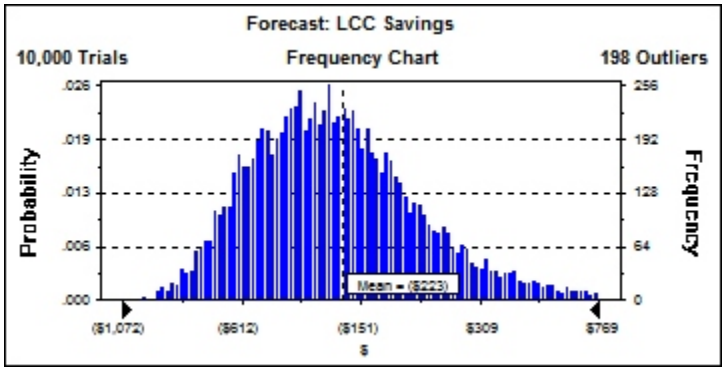

Figure 8D.1.118 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 5; Low A & B Distribution Scenario

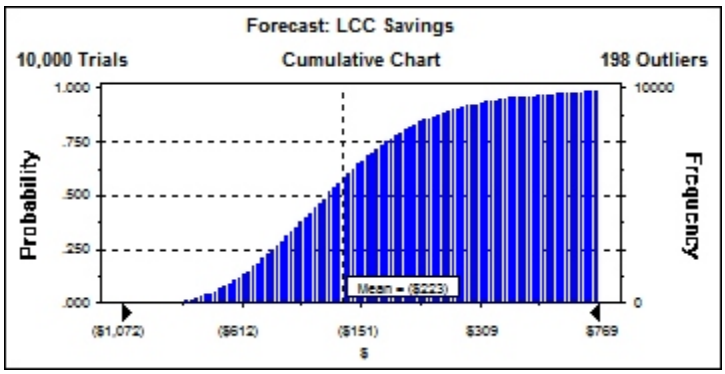

Figure 8D.1.119 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 5; Low A & B Distribution Scenario

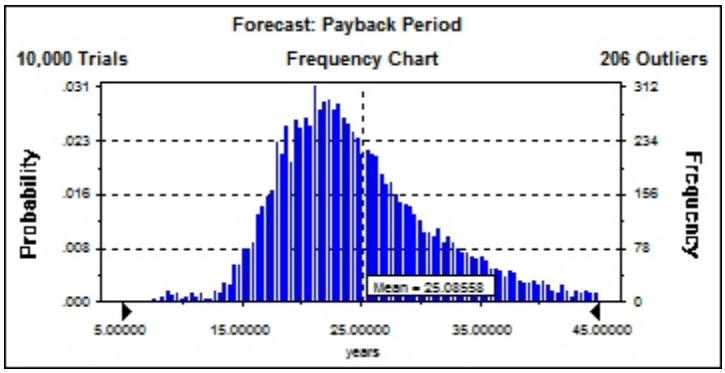

Figure 8D.1.120 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 5; Low A & B Distribution Scenario

8D.1.5.3 High A & B Distribution

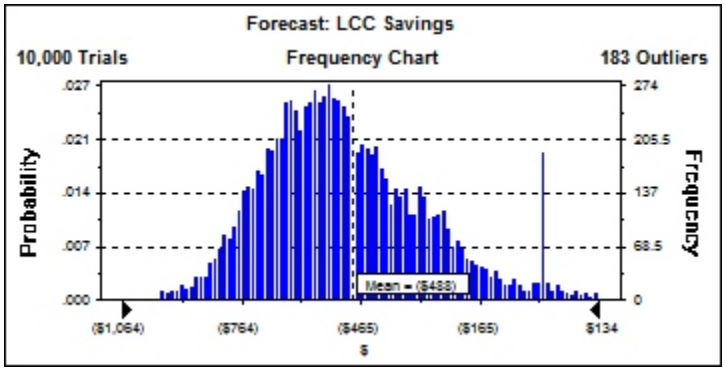

Figure 8D.1.121 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 5; High A & B Distribution Scenario

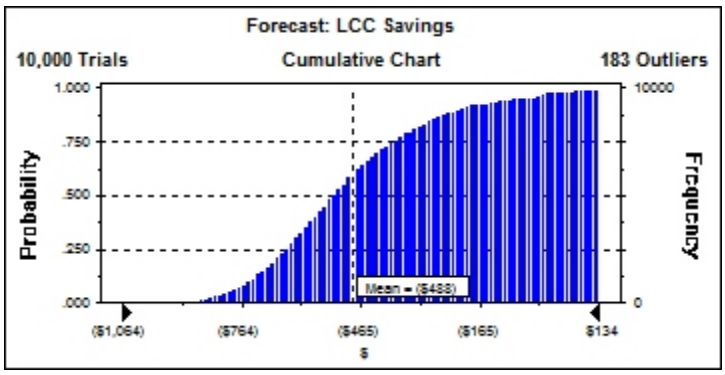

Figure 8D.1.122 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 5; High A & B Distribution Scenario

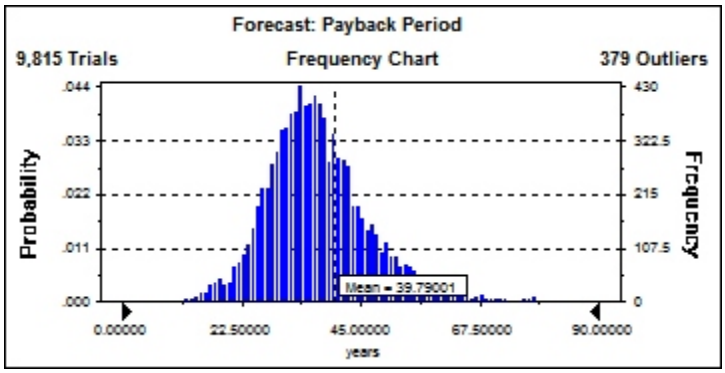

Figure 8D.1.123 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 5; High A & B Distribution Scenario

8D.1.5.4 Low Loading

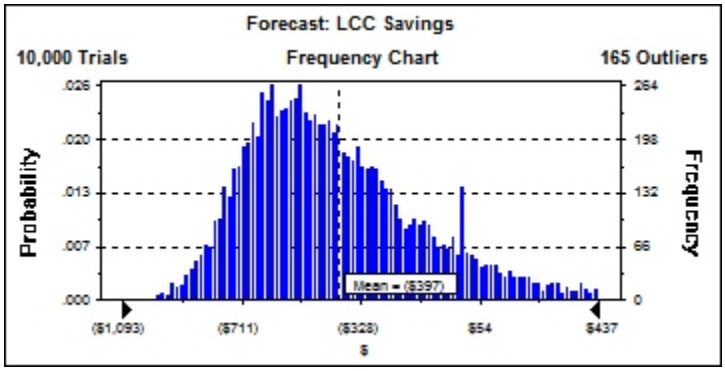

Figure 8D.1.124 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 5; Low Transformer Loading Scenario

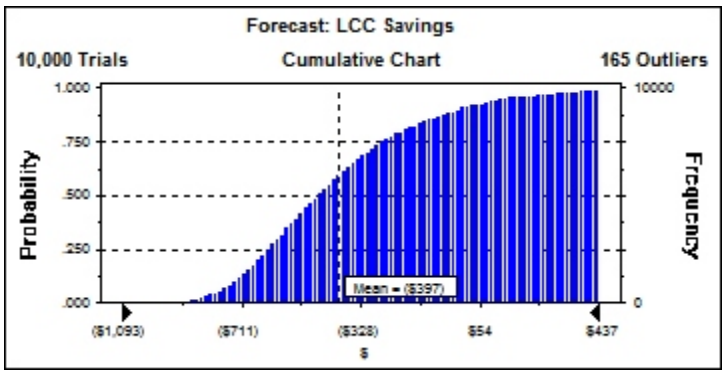

Figure 8D.1.125 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 5; Low Transformer Loading Scenario

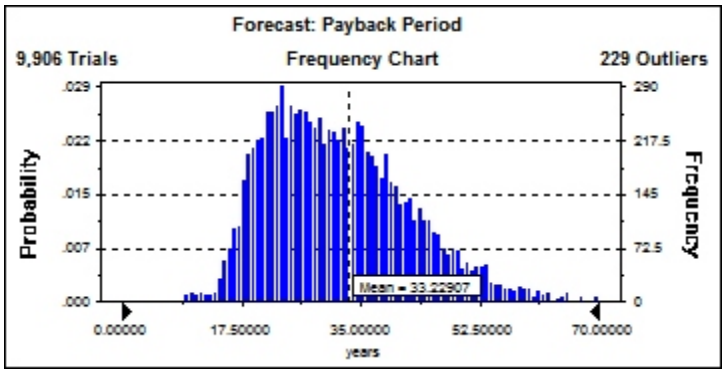

Figure 8D.1.126 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 5; Low Transformer Loading Scenario

8D.1.5.5 High Loading

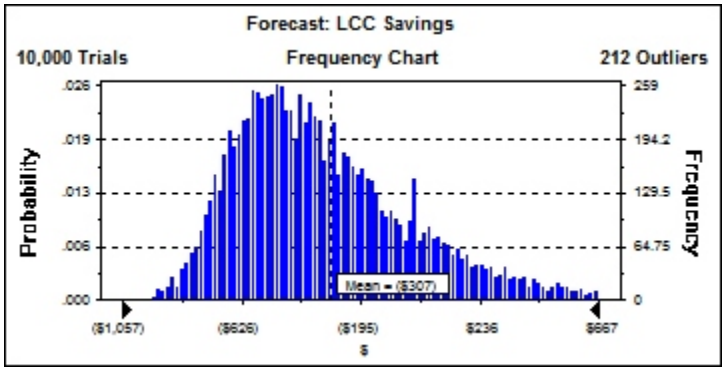

Figure 8D.1.127 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 5; High Transformer Loading Scenario

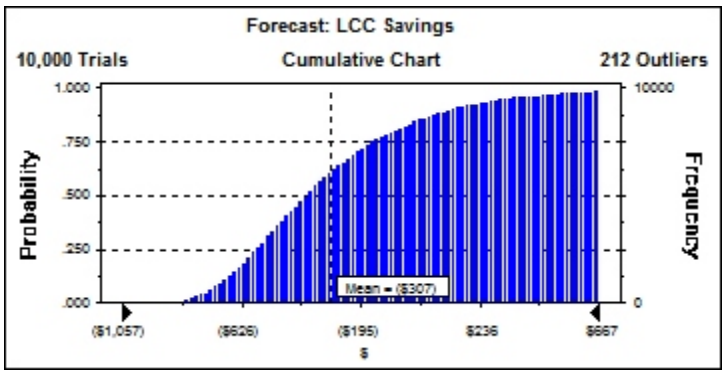

Figure 8D.1.128 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 5; High Transformer Loading Scenario

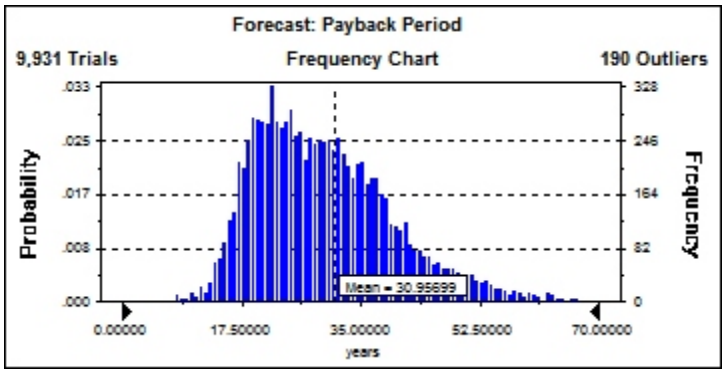

Figure 8D.1.129 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 5; High Transformer Loading Scenario

8D.1.5.6 Low Electricity Price

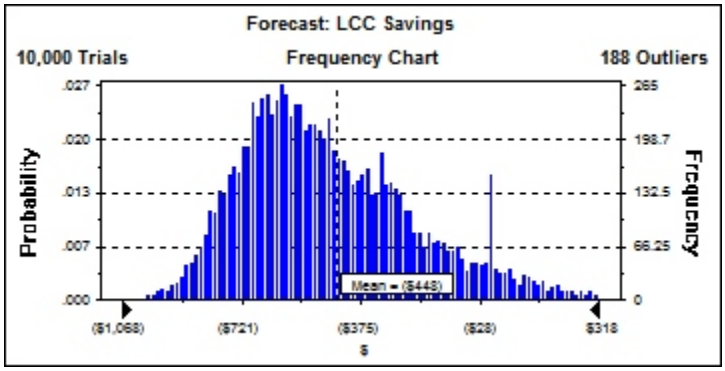

Figure 8D.1.130 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 5; Low Electricity Price Scenario

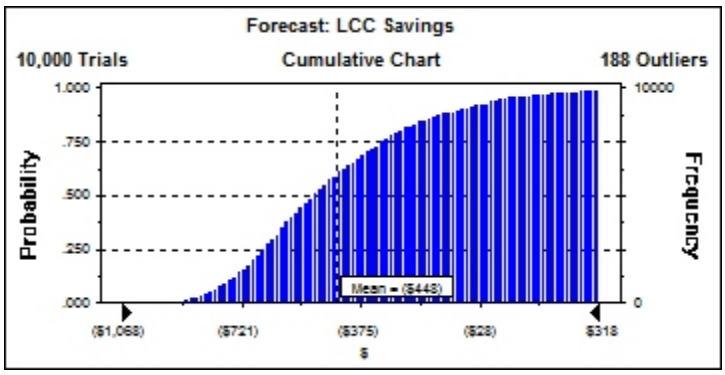

Figure 8D.1.131 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 5; Low Electricity Price Scenario

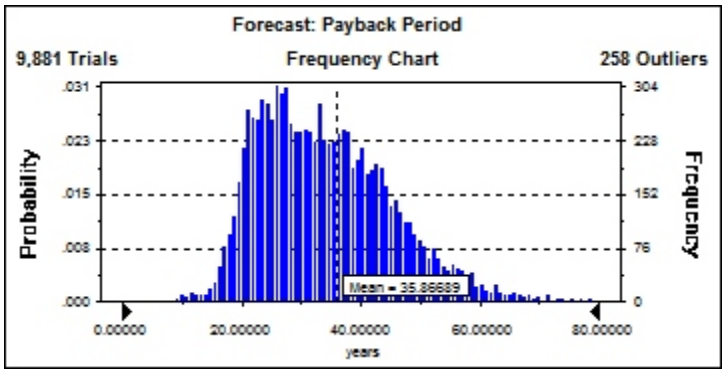

Figure 8D.1.132 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 5; Low Electricity Price Scenario

8D.1.5.7 High Electricity Price

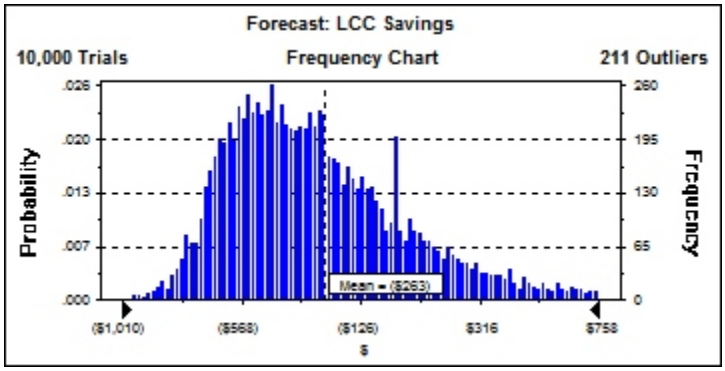

Figure 8D.1.133 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 5; High Electricity Price Scenario

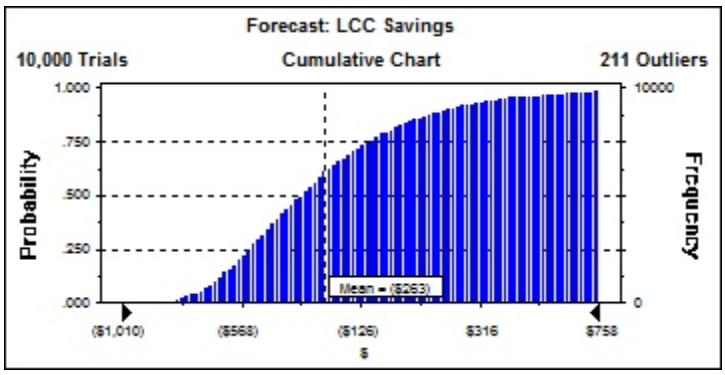

Figure 8D.1.134 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 5; High Electricity Price Scenario

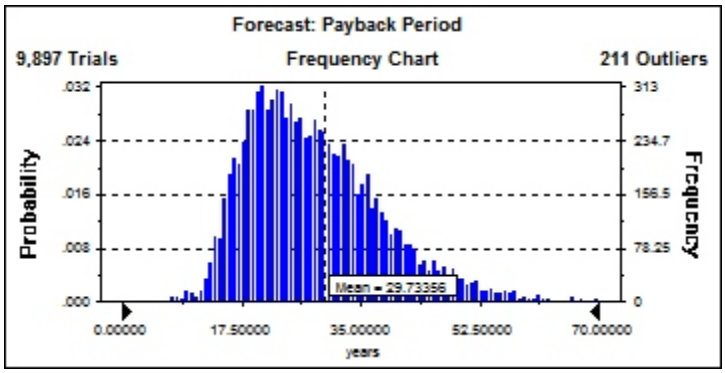

Figure 8D.1.135 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 5; High Electricity Price Scenario

8D.1.5.8 Low Load Growth

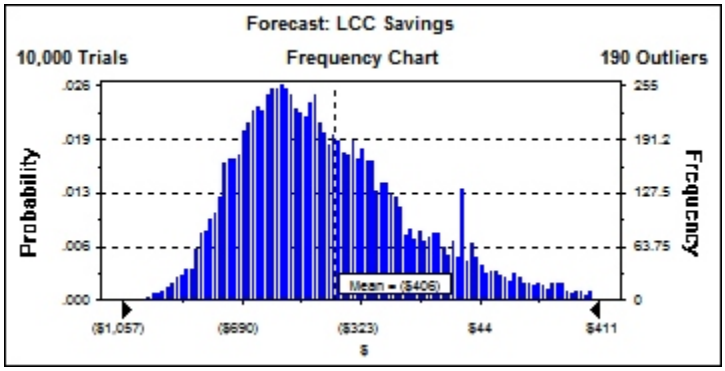

Figure 8D.1.136 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 5; Low Load Growth Scenario

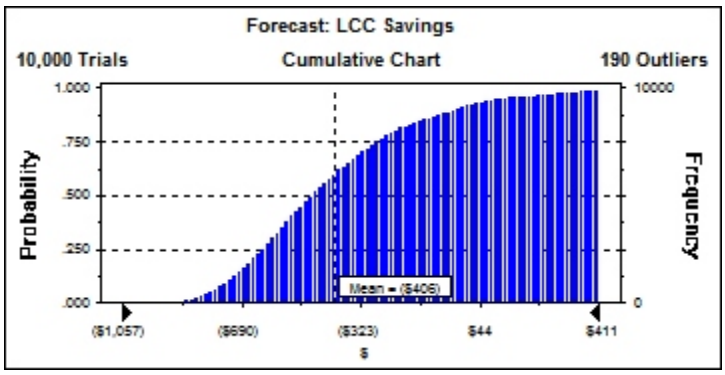

Figure 8D.1.137 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 5; Low Load Growth Scenario

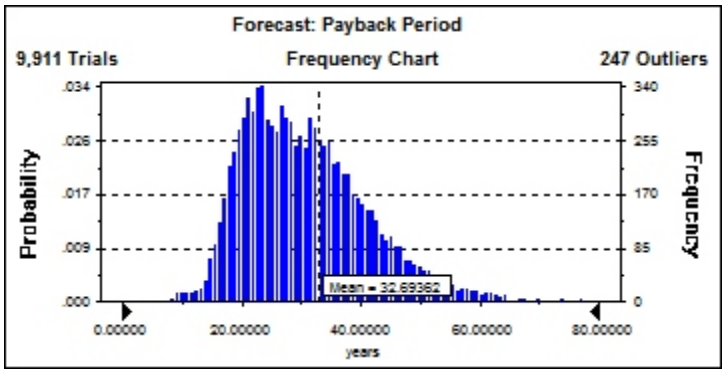

Figure 8D.1.138 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 5; Low Load Growth Scenario

8D.1.5.9 High Load Growth

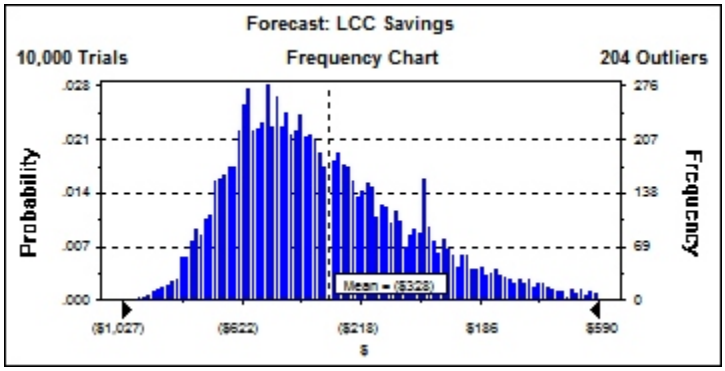

Figure 8D.1.139 LCC Savings Frequency Chart; Design Line: 1; Candidate Standard Level: 5; High Load Growth Scenario

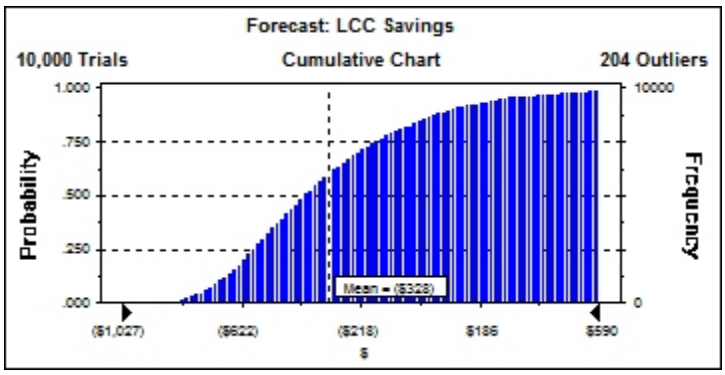

Figure 8D.1.140 LCC Savings Cumulative Chart; Design Line: 1; Candidate Standard Level: 5; High Load Growth Scenario

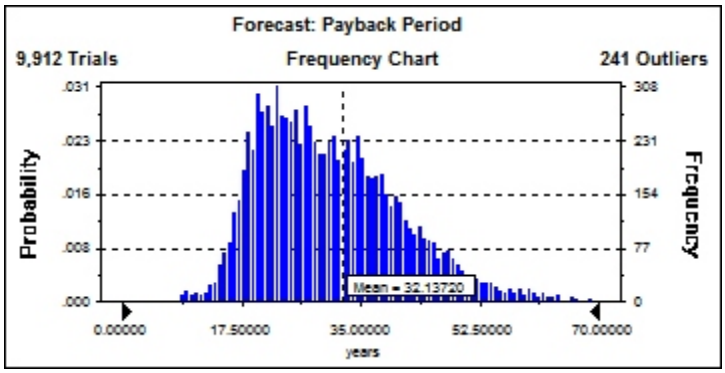

Figure 8D.1.141 Payback Period Frequency Chart; Design Line: 1; Candidate Standard Level: 5; High Load Growth Scenario

8D.2 DESIGN LINE 9 RESULTS

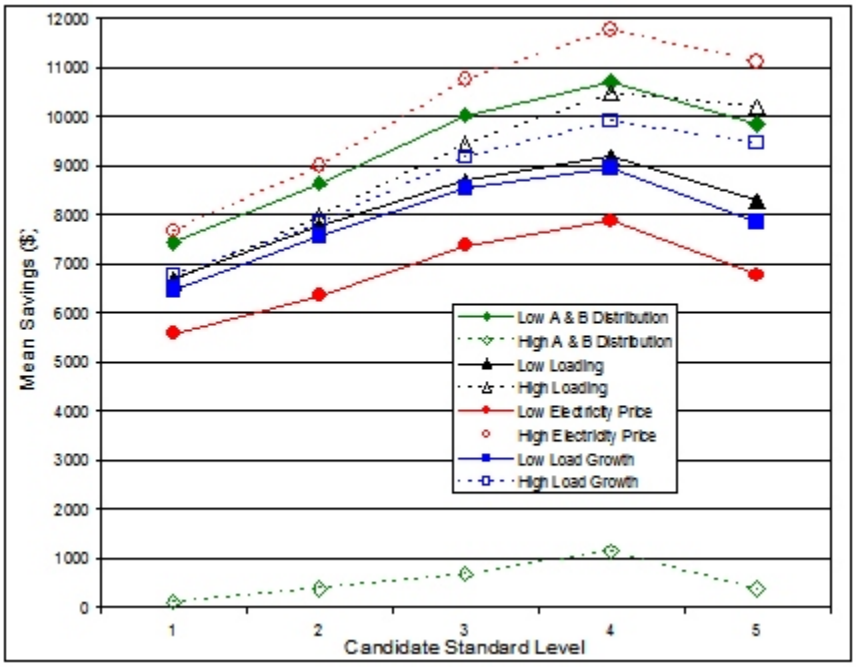

Figure 8D.2.1 Mean LCC Savings ($), by Scenario for Design Line 9

Table 8D.2.1 Mean LCC Savings ($), Summary Table for Design Line 9

Scenario	Candidate Standard Level for DL 9				
	1	2	3	4	5
Baseline	6648	7572	9109	9664	8954
Low A & B Distribution	7442	8632	10016	10709	9842
High A & B Distribution	113	395	682	1150	379
Low Loading	6689	7762	8686	9182	8279
High Loading	6623	7963	9433	10466	10189
Low Electricity Price	5578	6353	7375	7872	6770
High Electricity Price	7671	8984	10746	11763	11110
Low Load Growth	6465	7550	8536	8942	7838
High Load Growth	6762	7817	9166	9902	9454

8D.2.1 Design Line 9; Candidate Standard Level 1

Table 8D.2.2 Standard Level: 1; Summary Table

Scenario	Transformers having LCC Savings > $0 (%)	Mean LCC Savings ($)	Mean Payback (Years)
Baseline	97.0%	$6,648	4.5
Low A & B Distribution	96.1%	$7,442	4.6
High A & B Distribution	99.1%	$113	8.4
Low Loading	96.0%	$6,689	4.8
High Loading	97.0%	$6,623	4.6
Low Electricity Price	94.8%	$5,578	5.5
High Electricity Price	97.4%	$7,671	4.2
Low Load Growth	95.8%	$6,465	4.8
High Load Growth	97.0%	$6,762	4.7

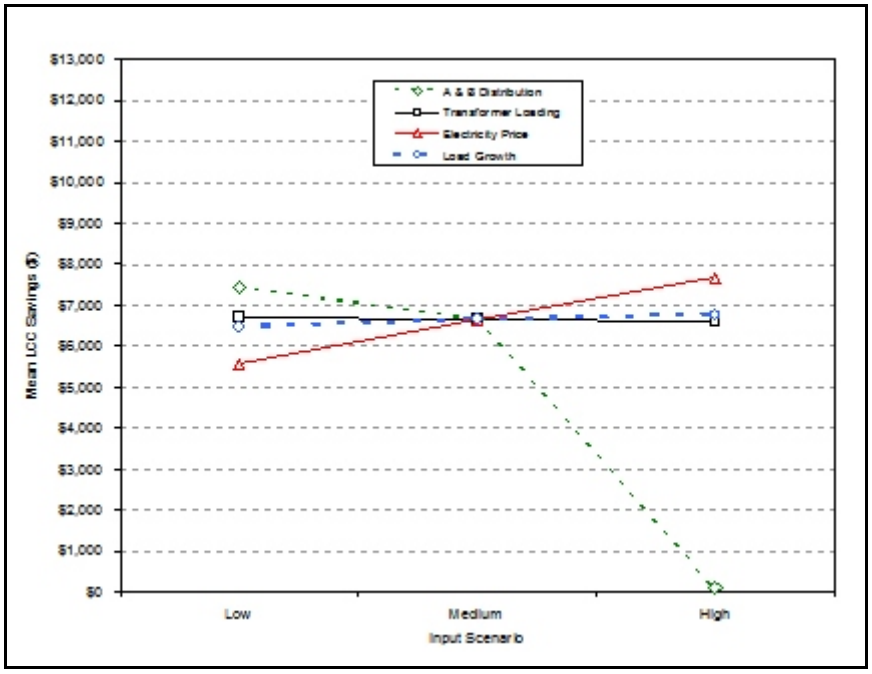

Figure 8D.2.2 Sensitivity of LCC to Input Changes for Design Line 9, Standard Level 1

8D.2.1.1 Baseline

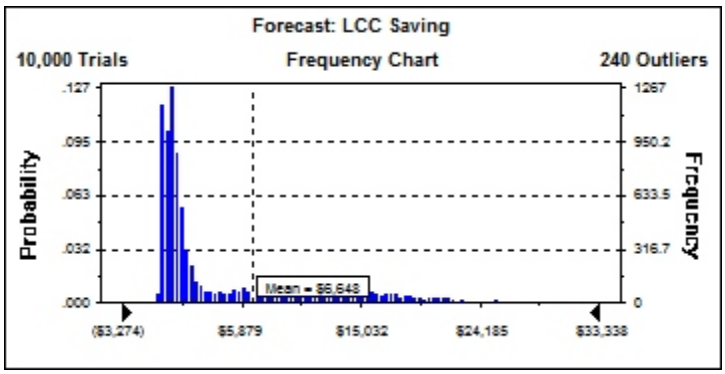

Figure 8D.2.3 **LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 1; Baseline Scenario**

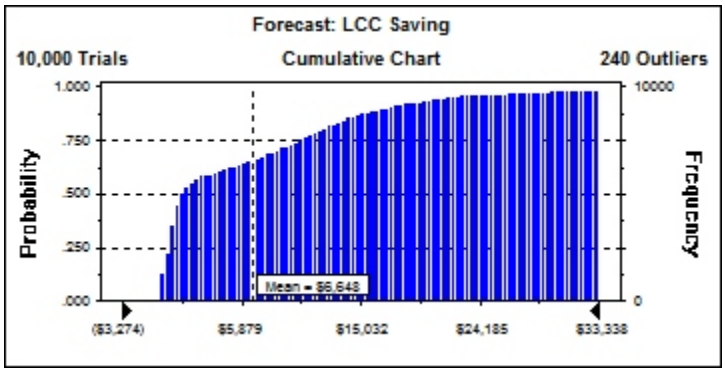

Figure 8D.2.4 **LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 1; Baseline Scenario**

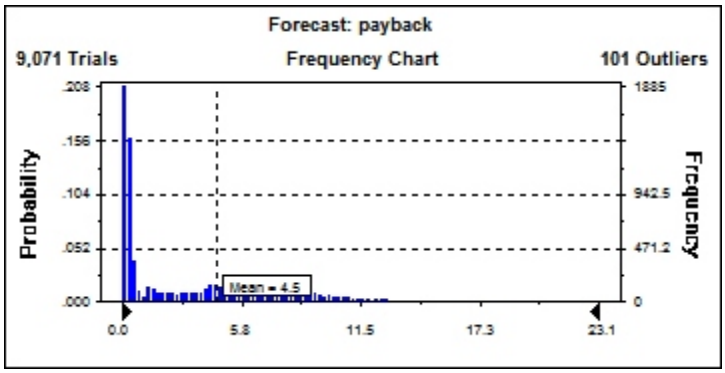

Figure 8D.2.5 **Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 1; Baseline Scenario**

8D.2.1.2 Low A & B Distribution

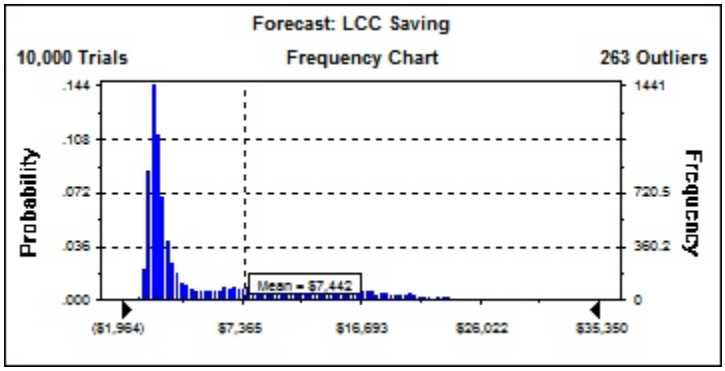

Figure 8D.2.6 **LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 1; Low A & B Distribution Scenario**

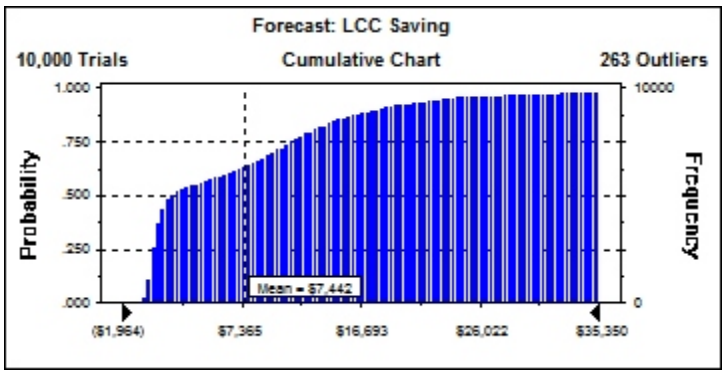

Figure 8D.2.7 **LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 1; Low A & B Distribution Scenario**

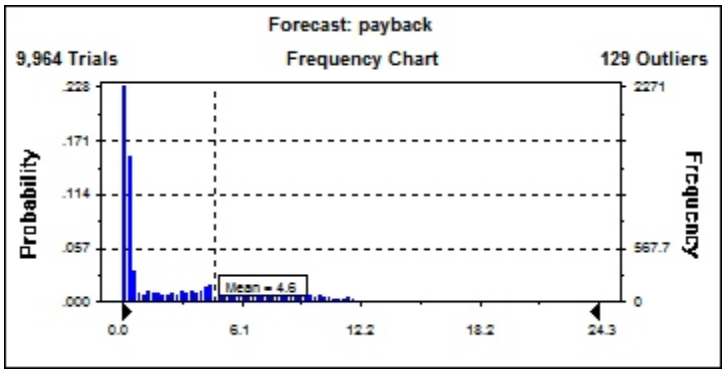

Figure 8D.2.8 **Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 1; Low A & B Distribution Scenario**

8D.2.1.3 High A & B Distribution

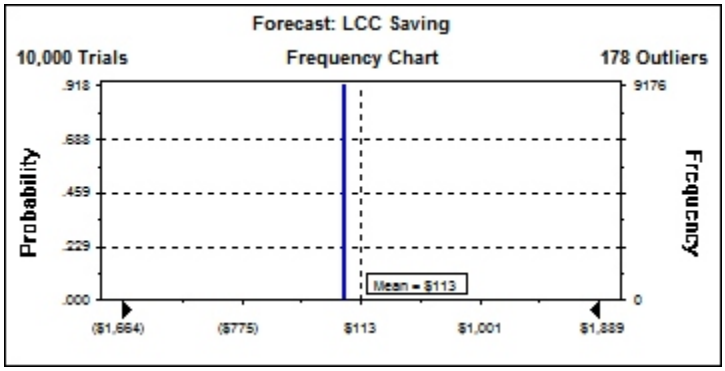

Figure 8D.2.9 **LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 1; High A & B Distribution Scenario**

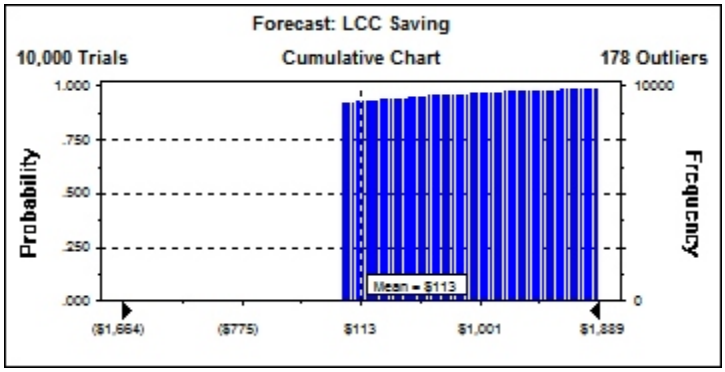

Figure 8D.2.10 **LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 1; High A & B Distribution Scenario**

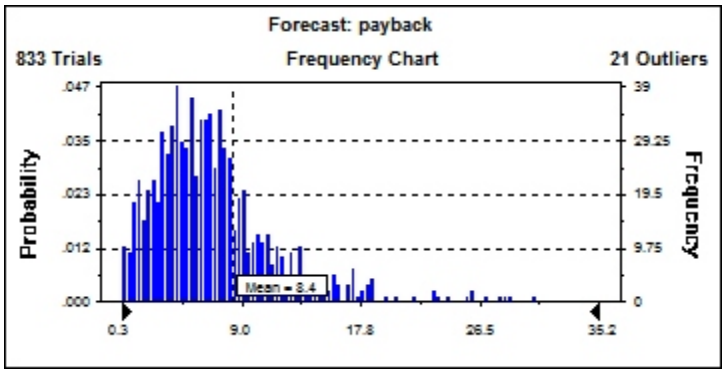

Figure 8D.2.11 **Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 1; High A & B Distribution Scenario**

8D.2.1.4 Low Loading

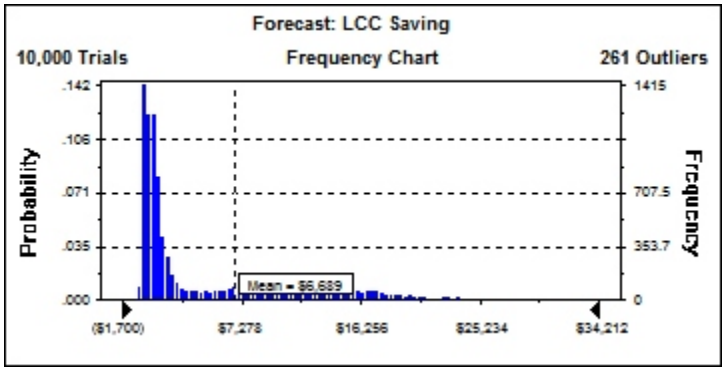

Figure 8D.2.12 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 1; Low Transformer Loading Scenario

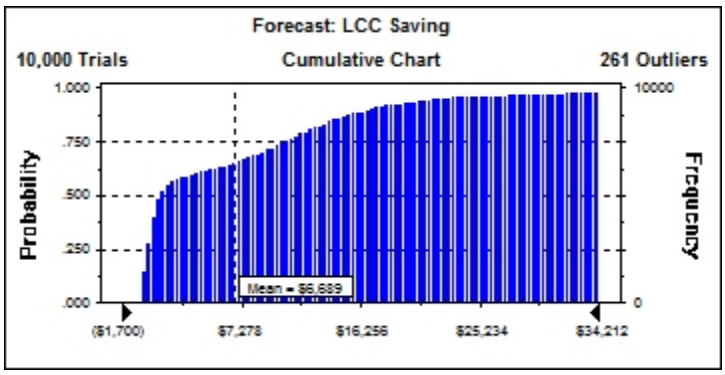

Figure 8D.2.13 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 1; Low Transformer Loading Scenario

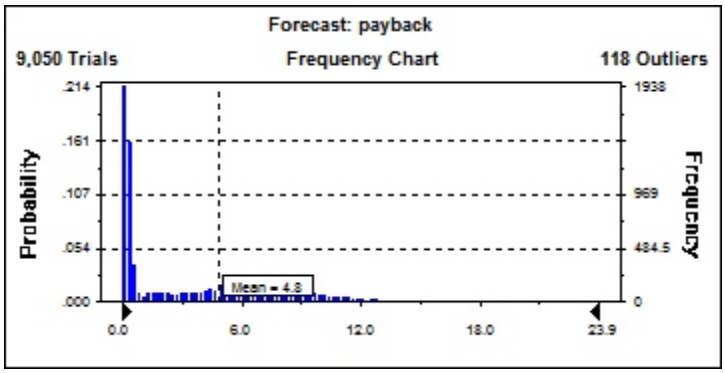

Figure 8D.2.14 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 1; Low Transformer Loading Scenario

8D.2.1.5 High Loading

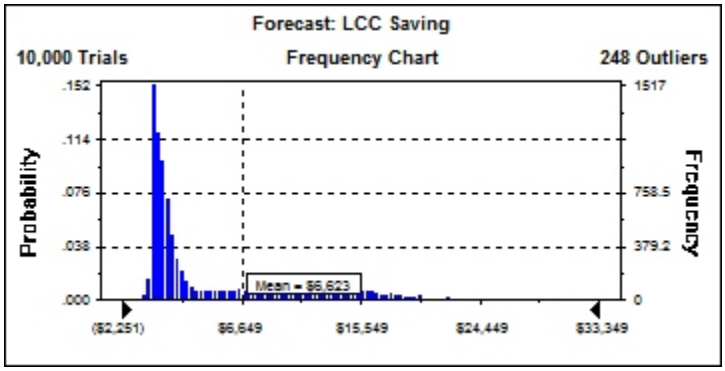

Figure 8D.2.15 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 1; High Transformer Loading Scenario

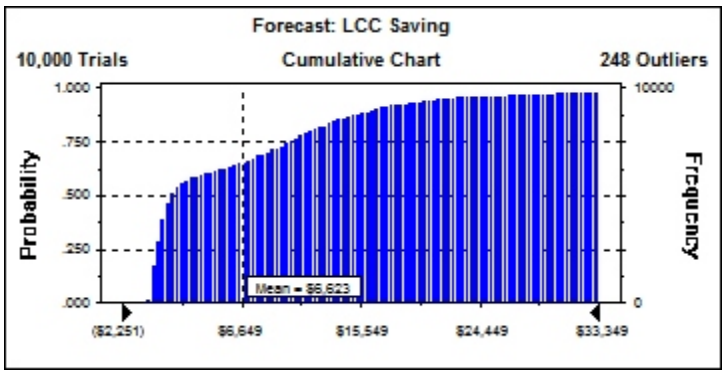

Figure 8D.2.16 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 1; High Transformer Loading Scenario

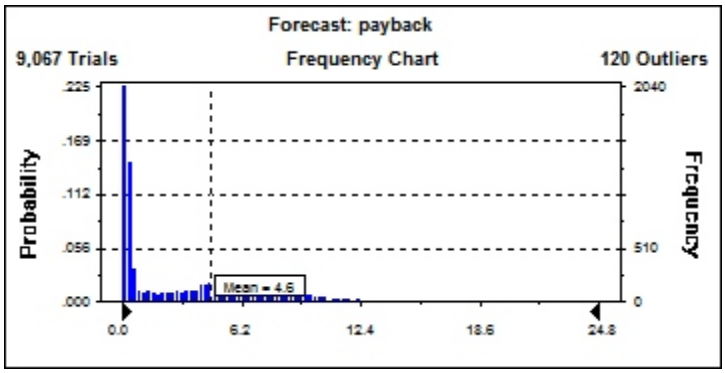

Figure 8D.2.17 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 1; High Transformer Loading Scenario

8D.2.1.6 Low Electricity Price

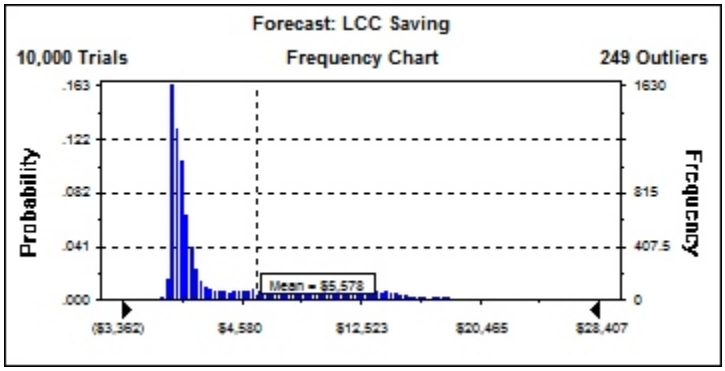

Figure 8D.2.18 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 1; Low Electricity Price Scenario

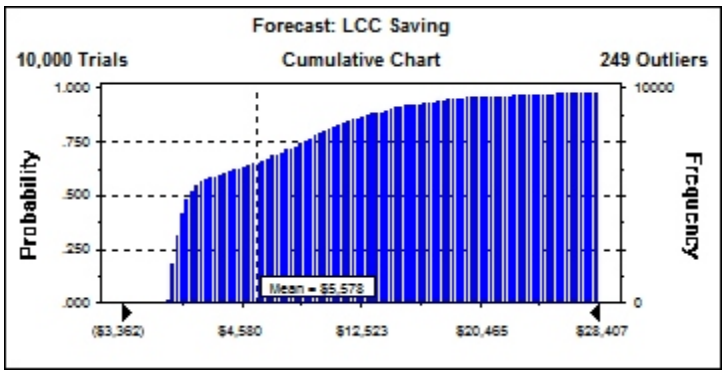

Figure 8D.2.19 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 1; Low Electricity Price Scenario

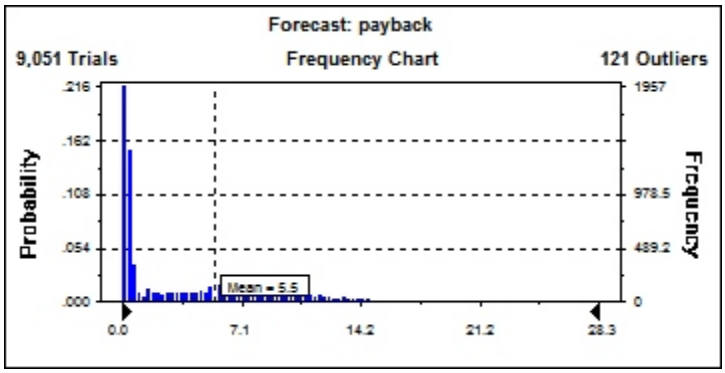

Figure 8D.2.20 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 1; Low Electricity Price Scenario

8D.2.1.7 High Electricity Price

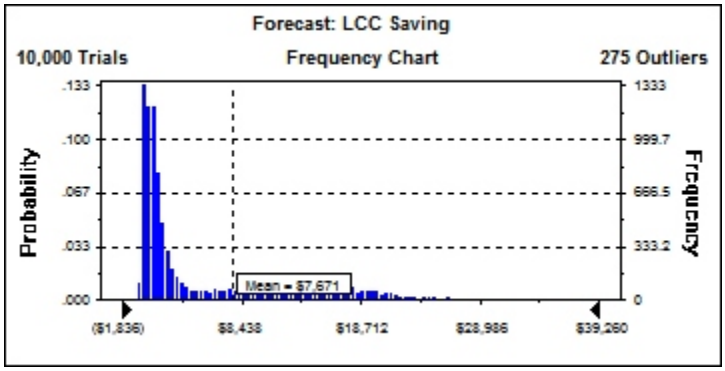

Figure 8D.2.21 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 1; High Electricity Price Scenario

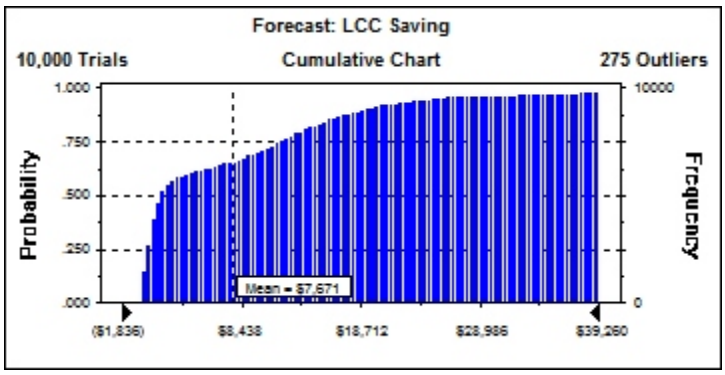

Figure 8D.2.22 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 1; High Electricity Price Scenario

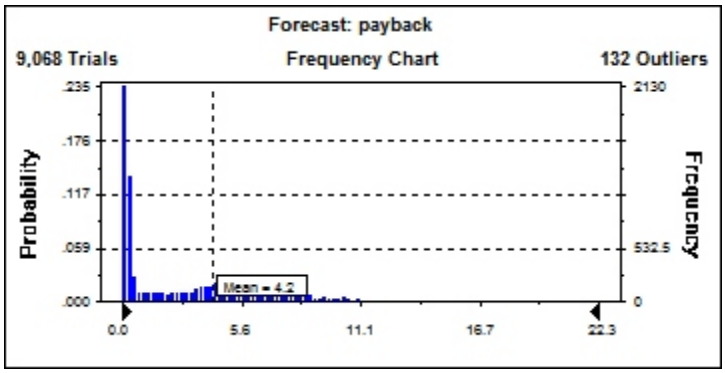

Figure 8D.2.23 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 1; High Electricity Price Scenario

8D.2.1.8 Low Load Growth

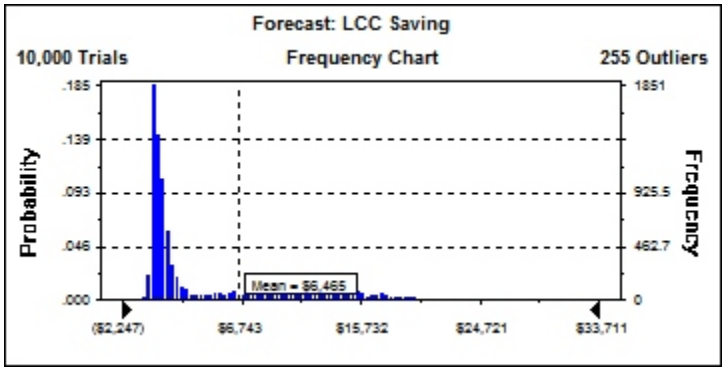

Figure 8D.2.24 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 1; Low Load Growth Scenario

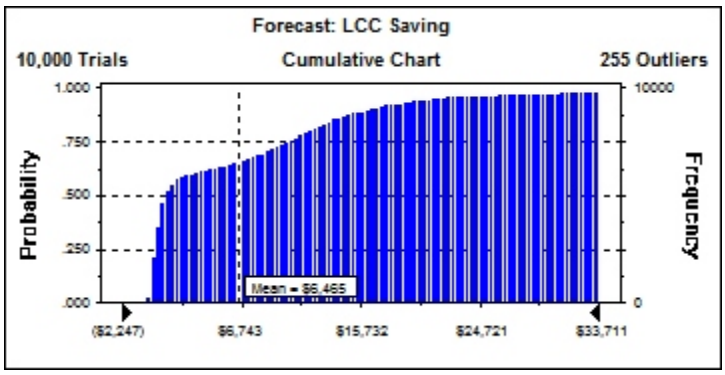

Figure 8D.2.25 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 1; Low Load Growth Scenario

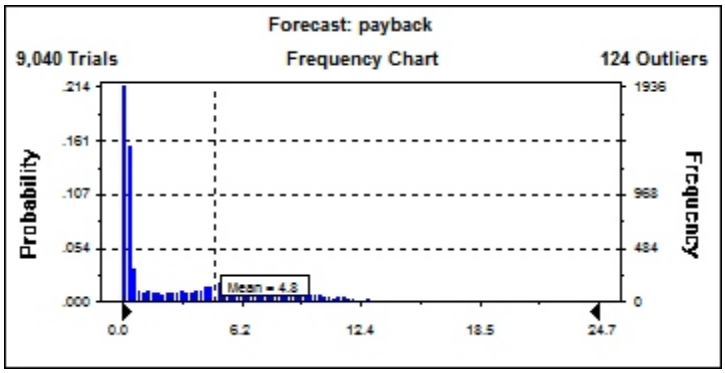

Figure 8D.2.26 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 1; Low Load Growth Scenario

8D.2.1.9 High Load Growth

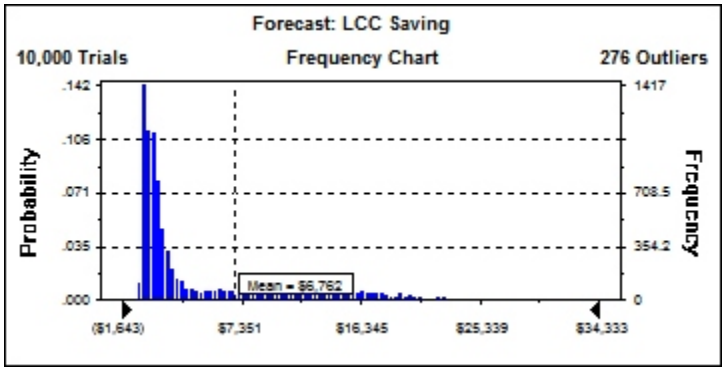

Figure 8D.2.27 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 1; High Load Growth Scenario

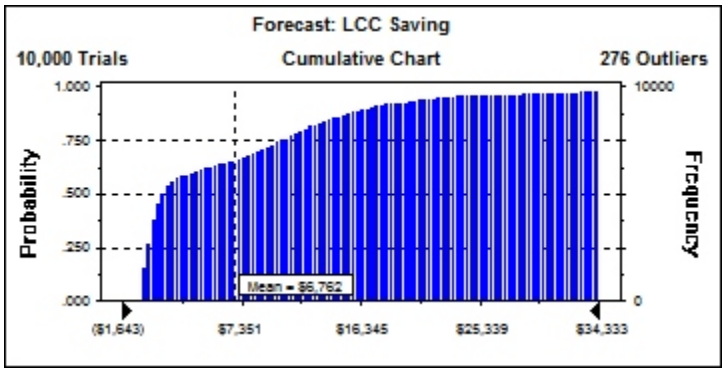

Figure 8D.2.28 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 1; High Load Growth Scenario

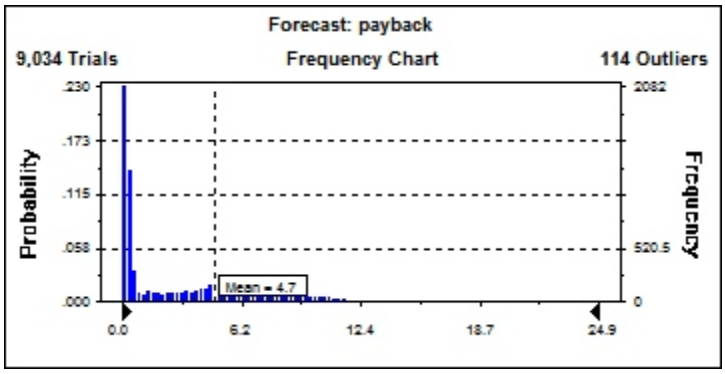

Figure 8D.2.29 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 1; High Load Growth Scenario

8D.2.2 Design Line 9; Candidate Standard Level 2

Table 8D.2.3 Standard Level: 2; Summary Table

Scenario	Transformers having LCC Savings > $0 (%)	Mean LCC Savings ($)	Mean Payback (Years)
Baseline	94.5%	$7,572	6.2
Low A & B Distribution	94.0%	$8,632	6.0
High A & B Distribution	98.1%	$395	8.9
Low Loading	93.6%	$7,762	6.4
High Loading	95.2%	$7,963	5.8
Low Electricity Price	91.3%	$6,353	7.2
High Electricity Price	96.1%	$8,984	5.4
Low Load Growth	93.4%	$7,550	6.1
High Load Growth	94.7%	$7,817	6.2

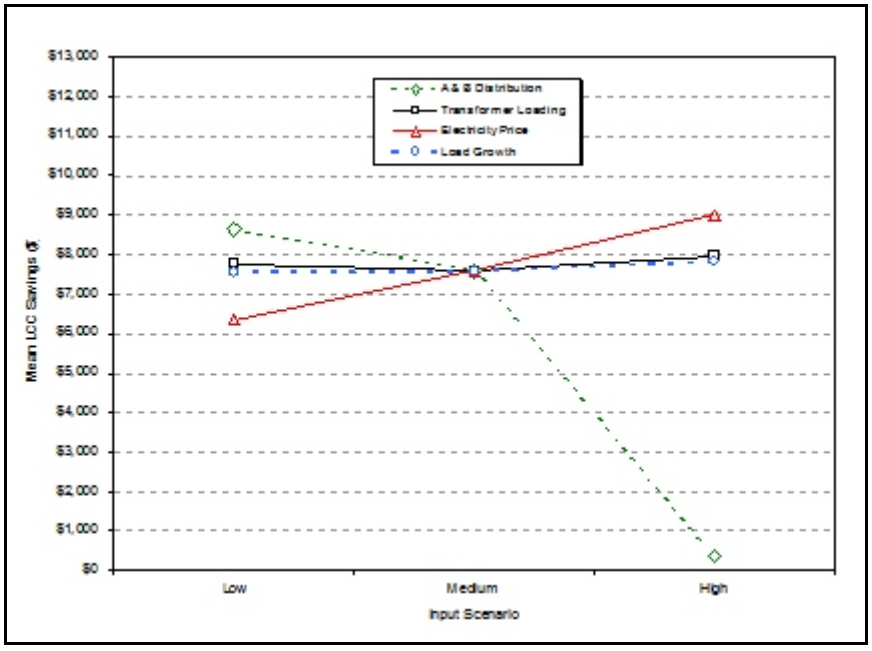

Figure 8D.2.30 Sensitivity of LCC to Input Changes for Design Line 9, Standard Level 2

8D.2.2.1 Baseline

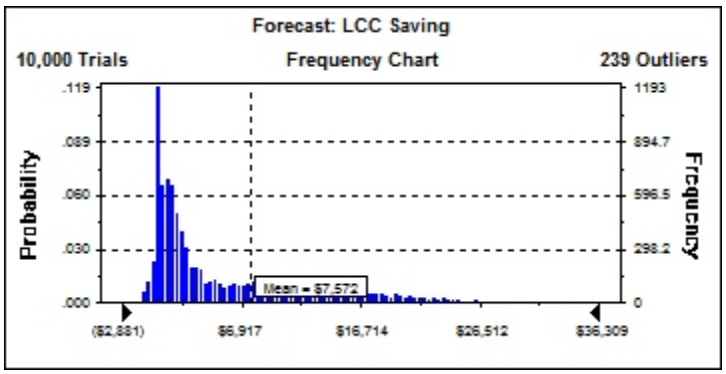

Figure 8D.2.31 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 2; Baseline Scenario

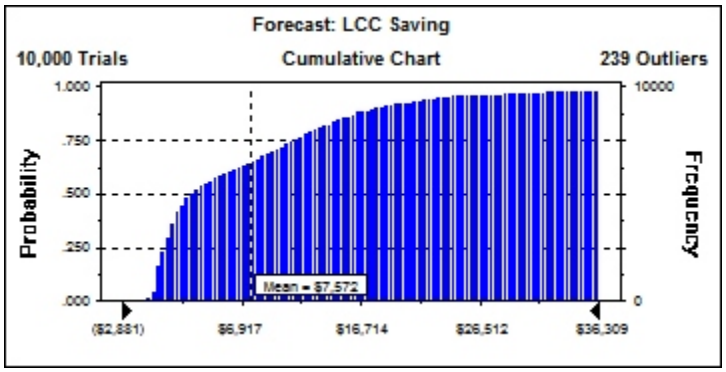

Figure 8D.2.32 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 2; Baseline Scenario

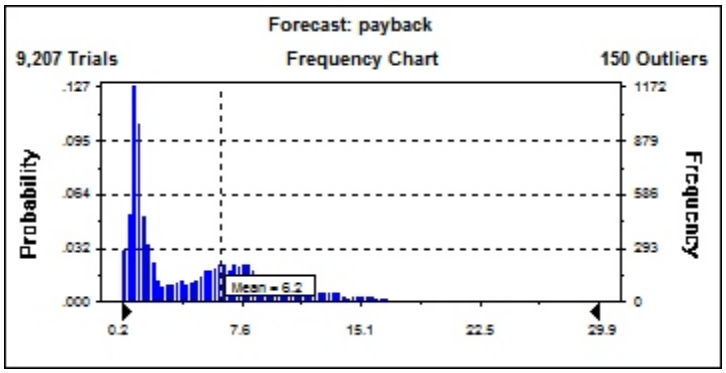

Figure 8D.2.33 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 2; Baseline Scenario

8D.2.2.2 Low A & B Distribution

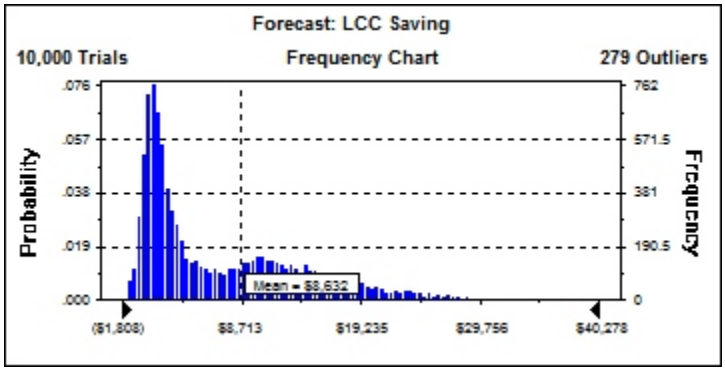

Figure 8D.2.34 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 2; Low A & B Distribution Scenario

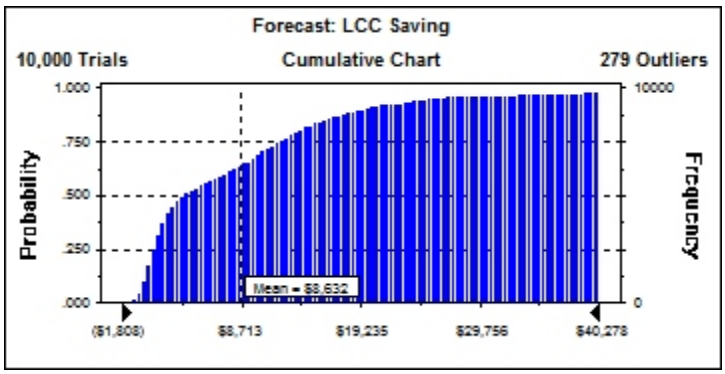

Figure 8D.2.35 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 2; Low A & B Distribution Scenario

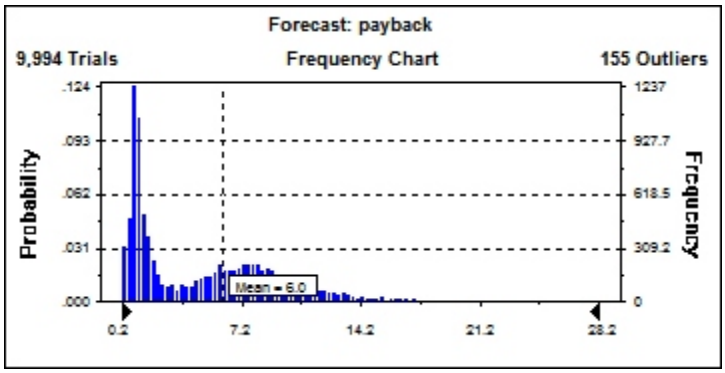

Figure 8D.2.36 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 2; Low A & B Distribution Scenario

8D.2.2.3 High A & B Distribution

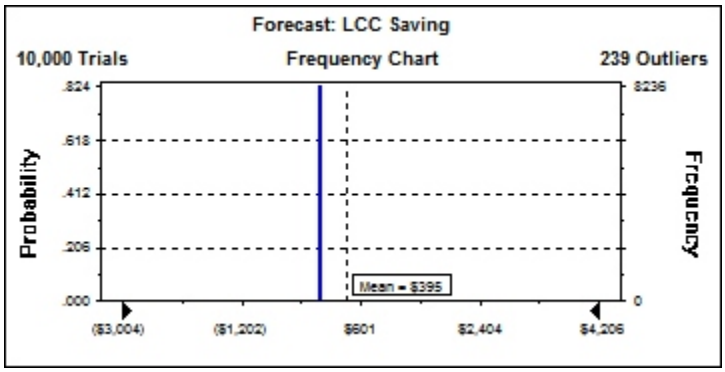

Figure 8D.2.37 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 2; High A & B Distribution Scenario

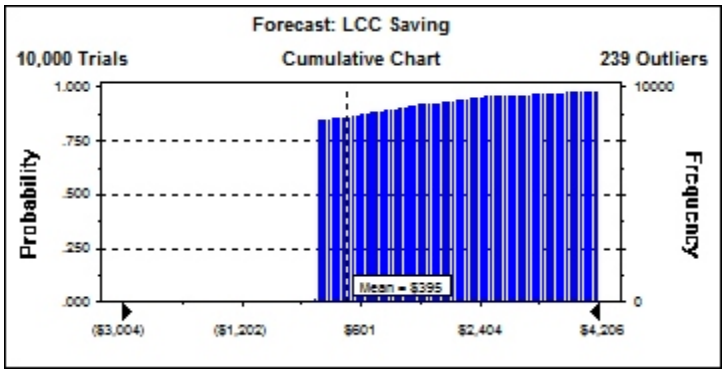

Figure 8D.2.38 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 2; High A & B Distribution Scenario

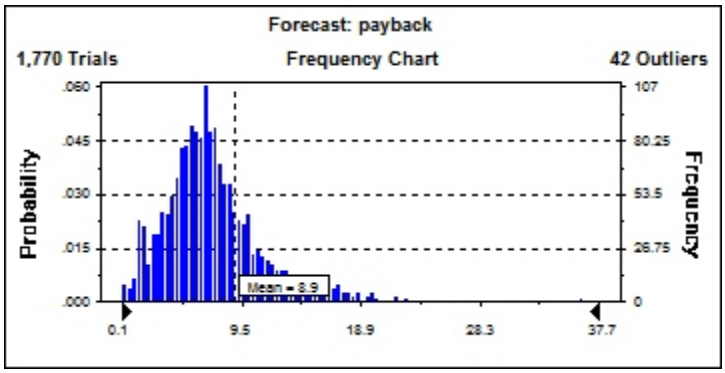

Figure 8D.2.39 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 2; High A & B Distribution Scenario

8D.2.2.4 Low Loading

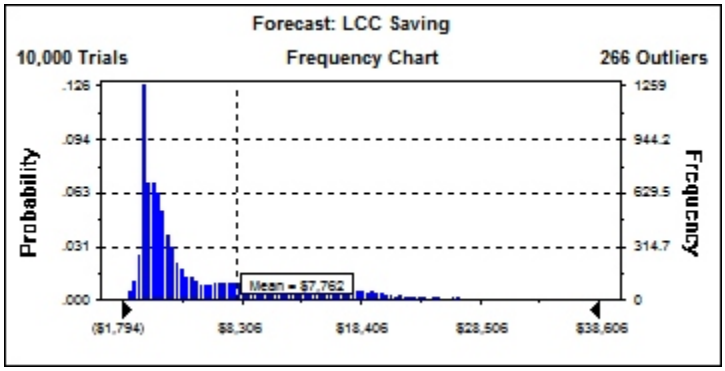

Figure 8D.2.40 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 2; Low Transformer Loading Scenario

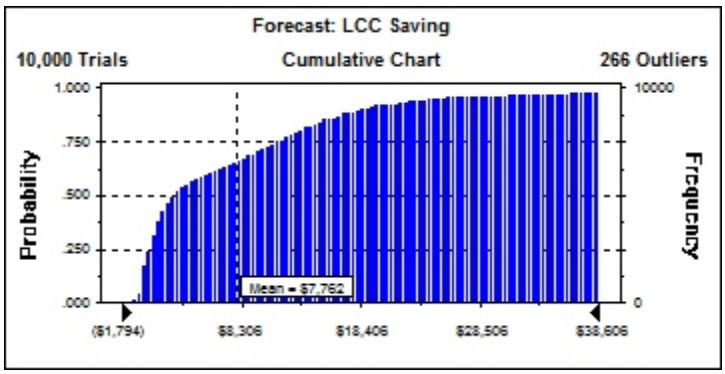

Figure 8D.2.41 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 2; Low Transformer Loading Scenario

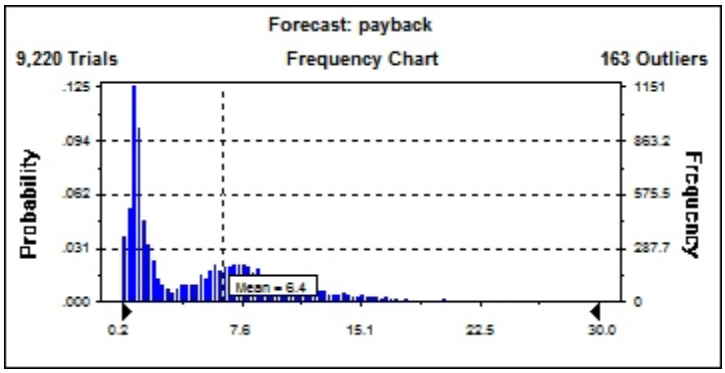

Figure 8D.2.42 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 2; Low Transformer Loading Scenario

8D.2.2.5 High Loading

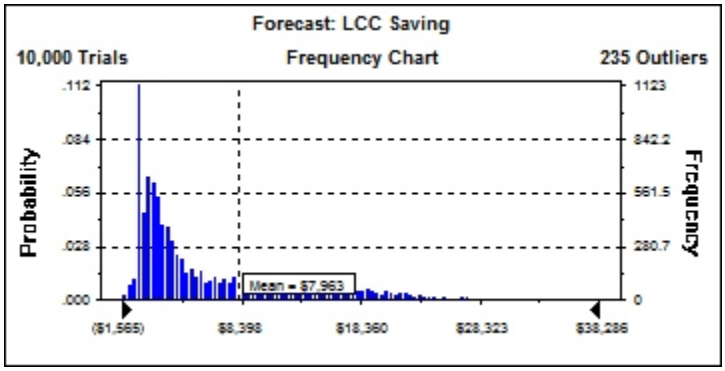

Figure 8D.2.43 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 2; High Transformer Loading Scenario

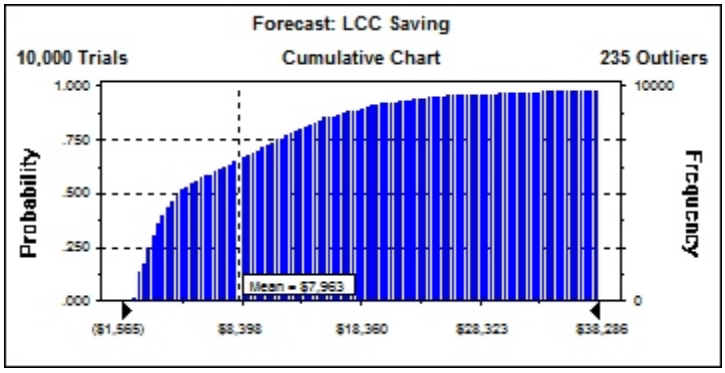

Figure 8D.2.44 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 2; High Transformer Loading Scenario

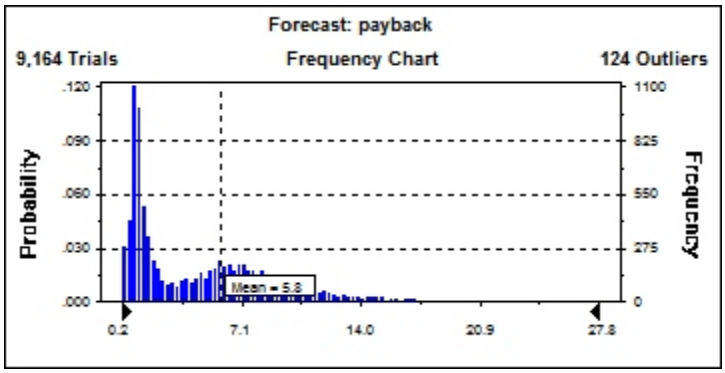

Figure 8D.2.45 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 2; High Transformer Loading Scenario

8D.2.2.6 Low Electricity Price

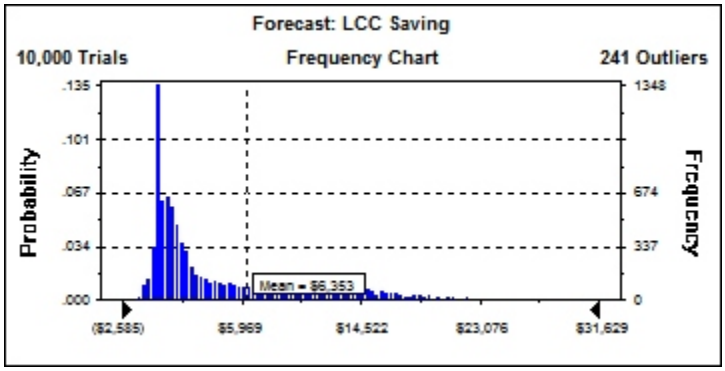

Figure 8D.2.46 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 2; Low Electricity Price Scenario

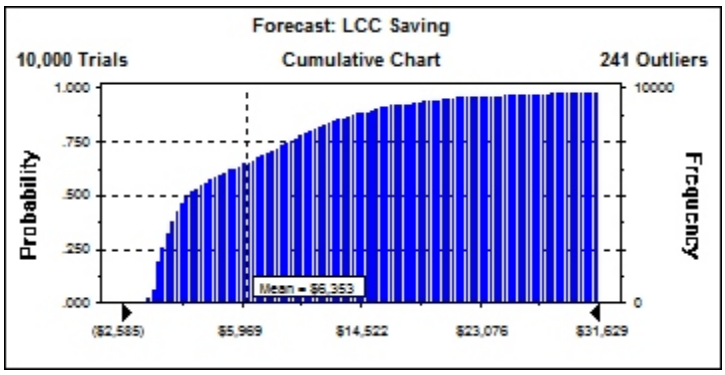

Figure 8D.2.47 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 2; Low Electricity Price Scenario

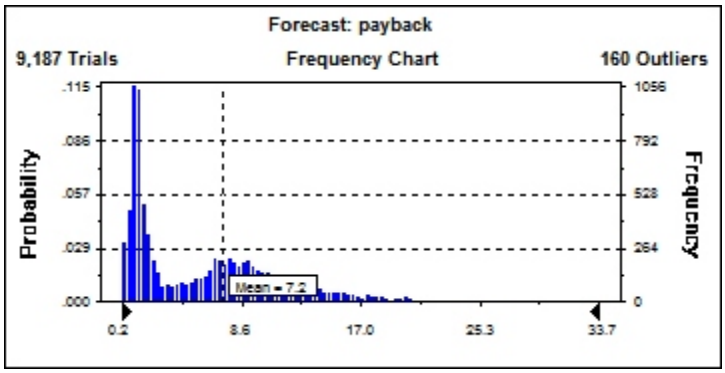

Figure 8D.2.48 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 2; Low Electricity Price Scenario

8D.2.2.7 High Electricity Price

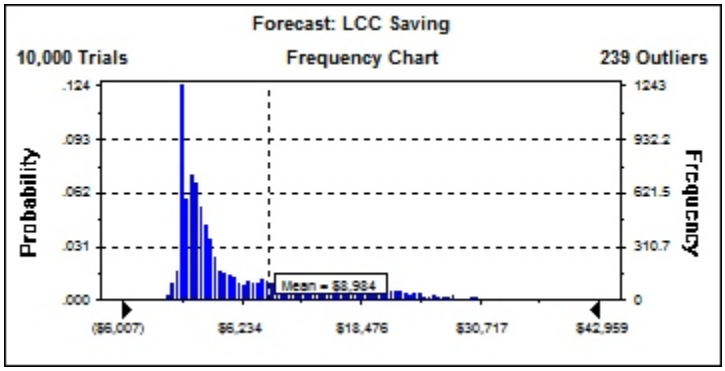

Figure 8D.2.49 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 2; High Electricity Price Scenario

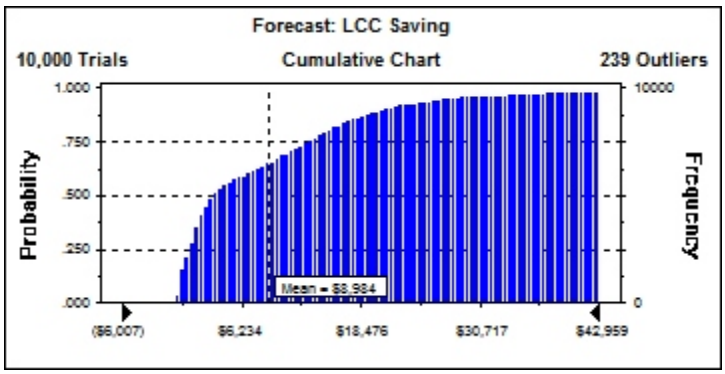

Figure 8D.2.50 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 2; High Electricity Price Scenario

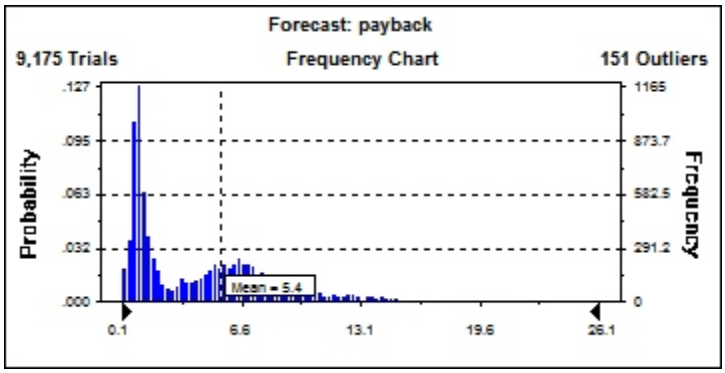

Figure 8D.2.51 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 2; High Electricity Price Scenario

8D.2.2.8 Low Load Growth

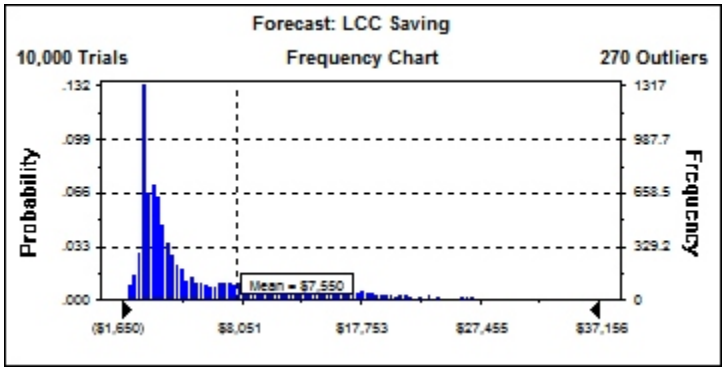

Figure 8D.2.52 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 2; Low Load Growth Scenario

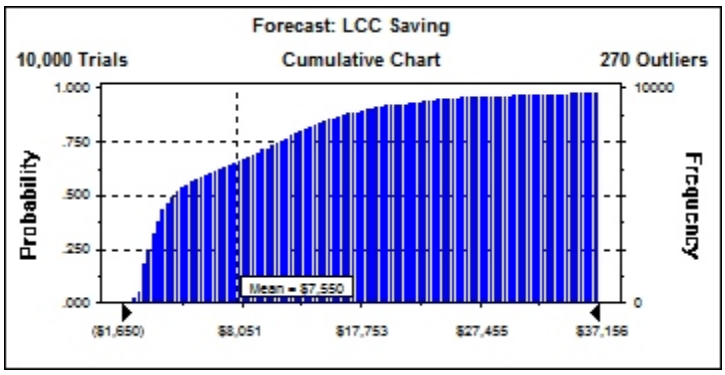

Figure 8D.2.53 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 2; Low Load Growth Scenario

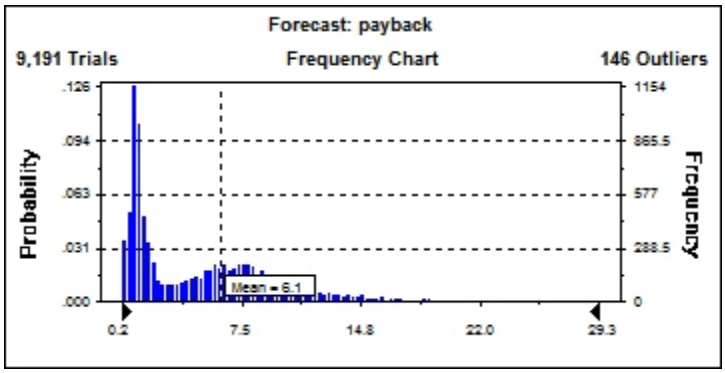

Figure 8D.2.54 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 2; Low Load Growth Scenario

8D.2.2.9 High Load Growth

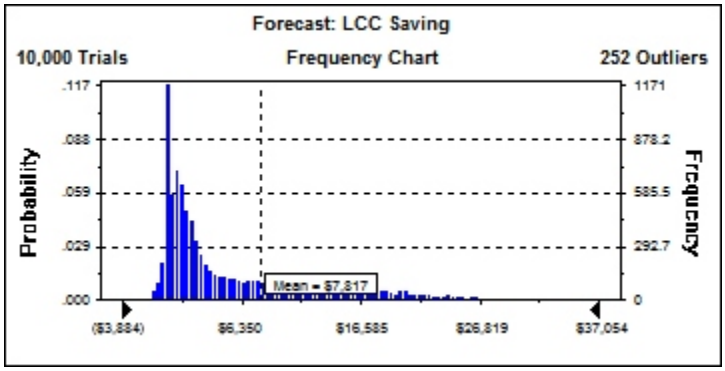

Figure 8D.2.55 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 2; High Load Growth Scenario

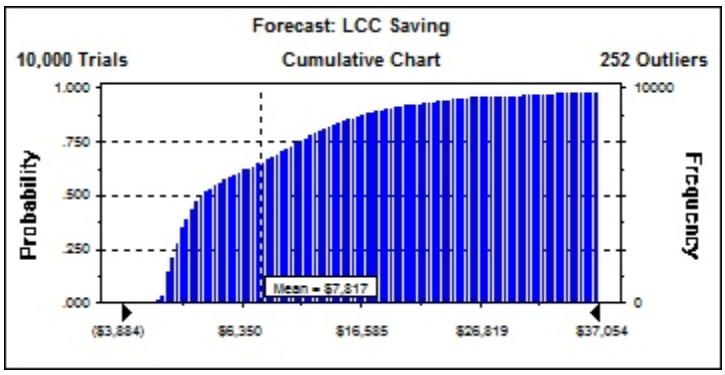

Figure 8D.2.56 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 2; High Load Growth Scenario

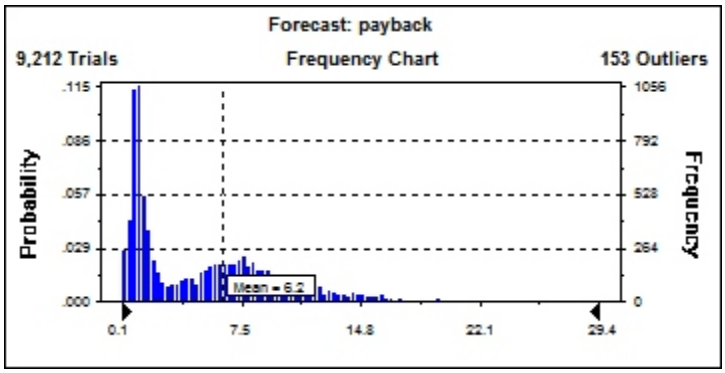

Figure 8D.2.57 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 2; High Load Growth Scenario

8D.2.3 Design Line 9; Candidate Standard Level 3

Table 8D.2.4 Standard Level: 3; Summary Table

Scenario	Transformers having LCC Savings > $0 (%)	Mean LCC Savings ($)	Mean Payback (Years)
Baseline	95.6%	$9,109	5.6
Low A & B Distribution	96.2%	$10,016	5.4
High A & B Distribution	91.6%	$682	11.6
Low Loading	95.1%	$8,686	6.0
High Loading	96.3%	$9,433	5.6
Low Electricity Price	93.2%	$7,375	6.8
High Electricity Price	97.0%	$10,746	5.0
Low Load Growth	95.2%	$8,536	5.7
High Load Growth	96.2%	$9,166	5.7

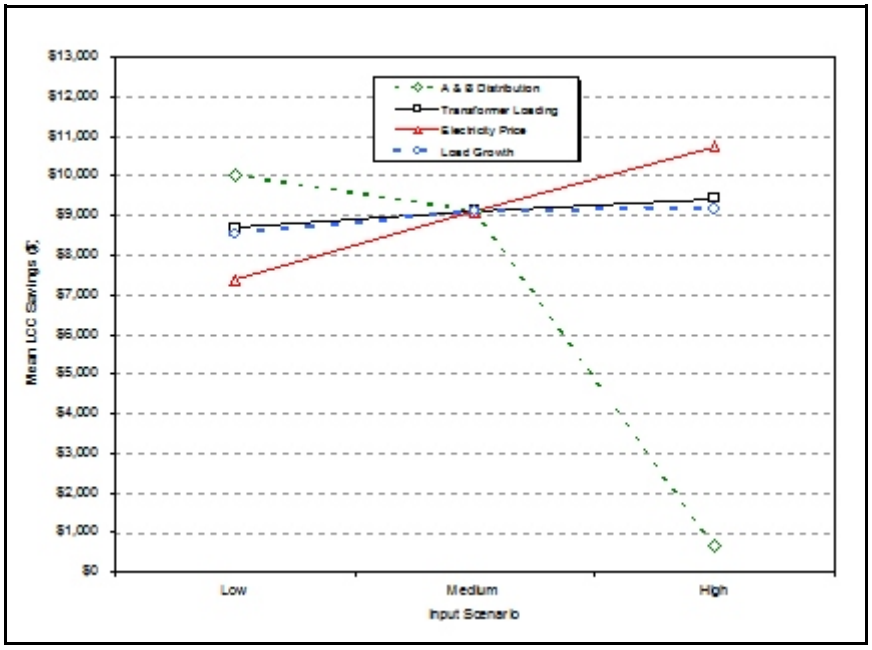

Figure 8D.2.58 Sensitivity of LCC to Input Changes for Design Line 9, Standard Level 3

8D.2.3.1 Baseline

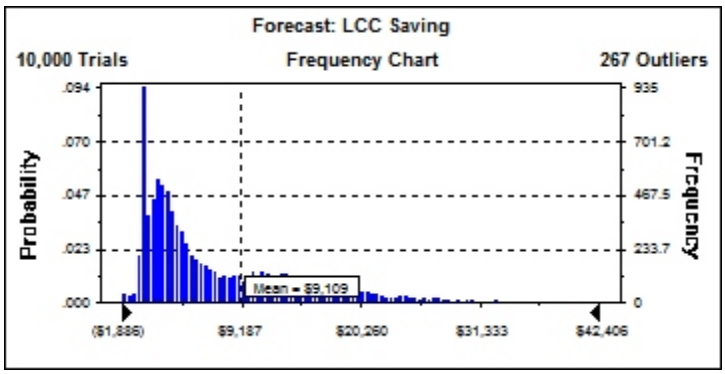

Figure 8D.2.59 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 3; Baseline Scenario

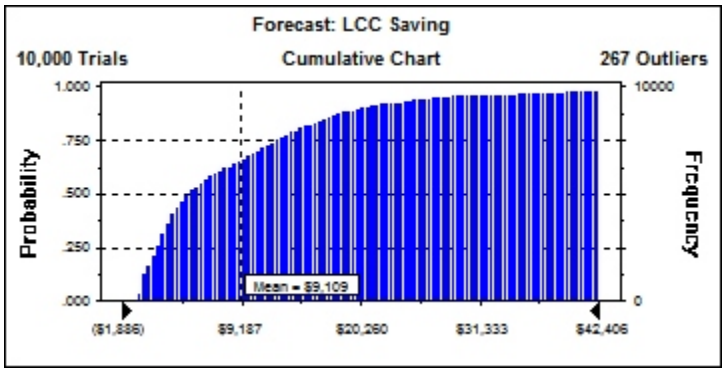

Figure 8D.2.60 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 3; Baseline Scenario

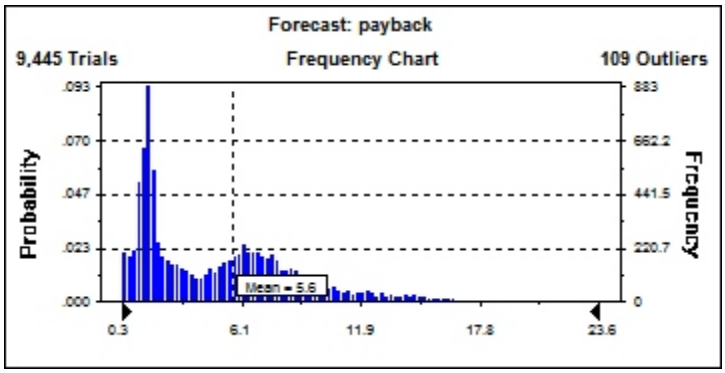

Figure 8D.2.61 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 3; Baseline Scenario

8D.2.3.2 Low A & B Distribution

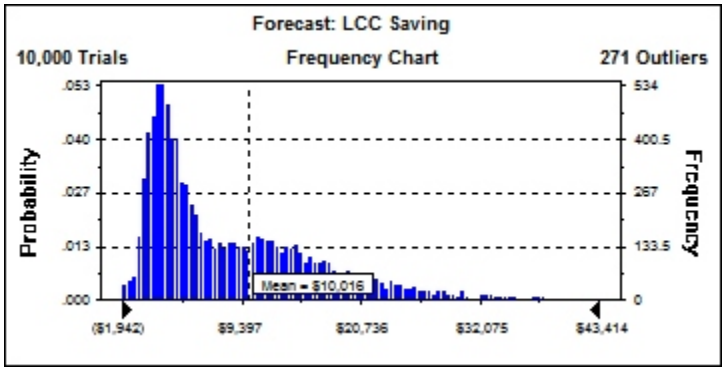

Figure 8D.2.62 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 3; Low A & B Distribution Scenario

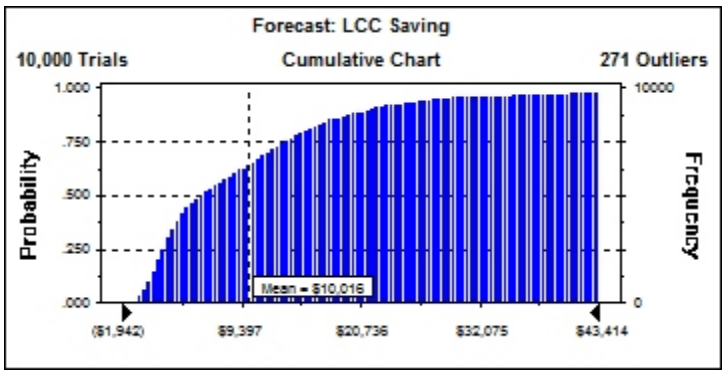

Figure 8D.2.63 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 3; Low A & B Distribution Scenario

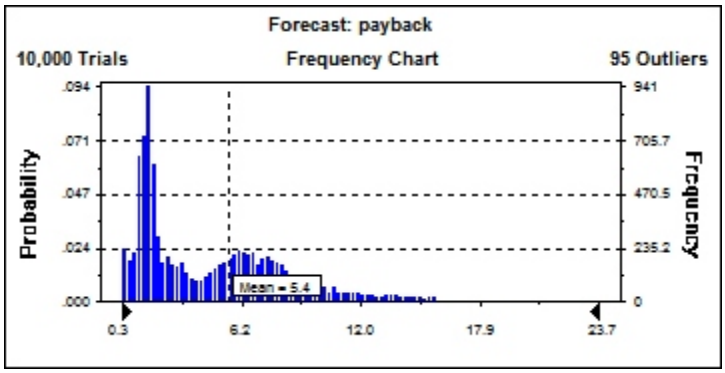

Figure 8D.2.64 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 3; Low A & B Distribution Scenario

8D.2.3.3 High A & B Distribution

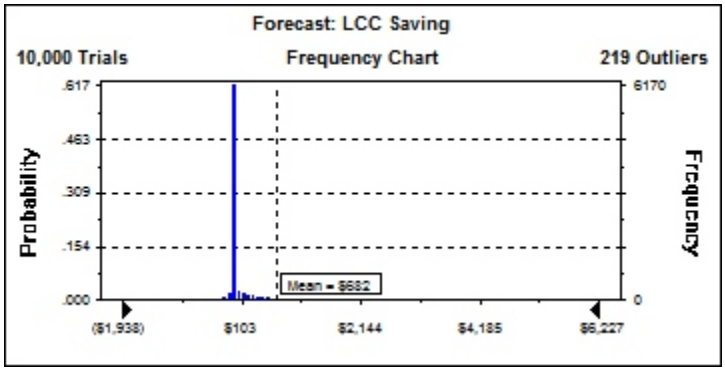

Figure 8D.2.65 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 3; High A & B Distribution Scenario

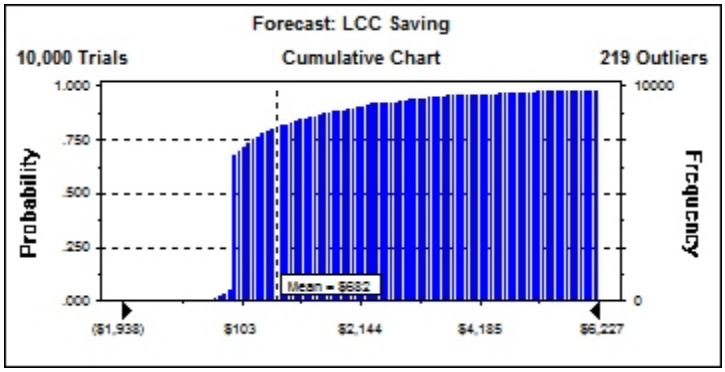

Figure 8D.2.66 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 3; High A & B Distribution Scenario

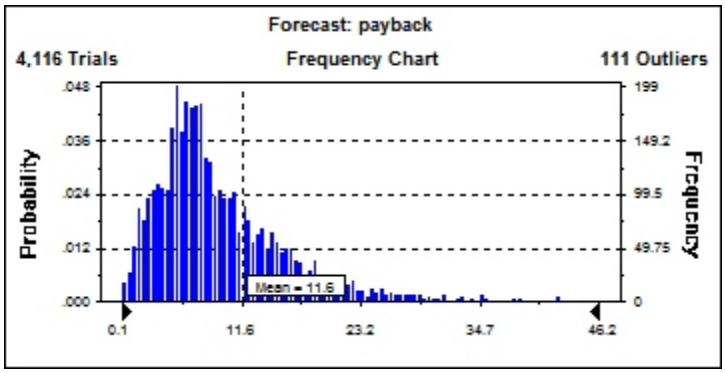

Figure 8D.2.67 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 3; High A & B Distribution Scenario

8D.2.3.4 Low Loading

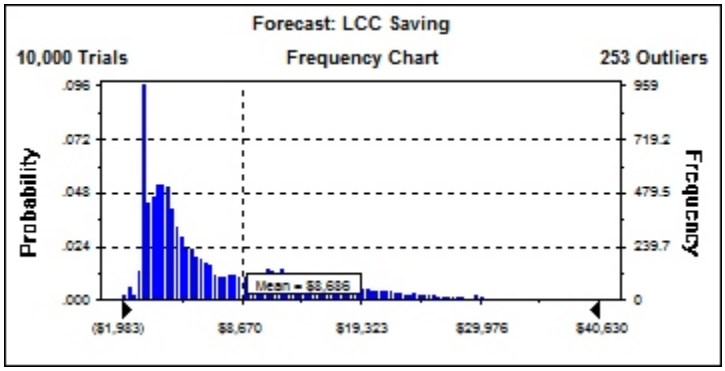

Figure 8D.2.68 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 3; Low Transformer Loading Scenario

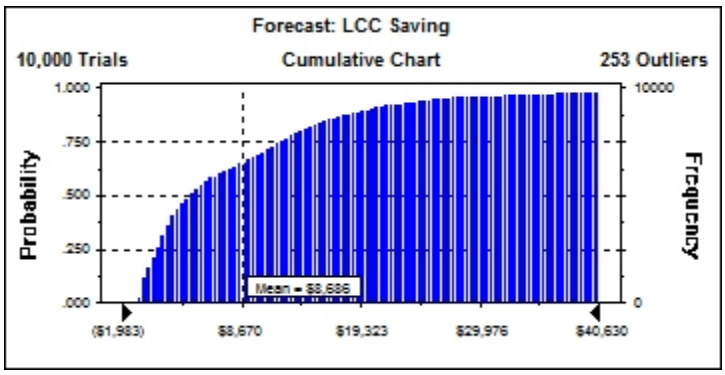

Figure 8D.2.69 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 3; Low Transformer Loading Scenario

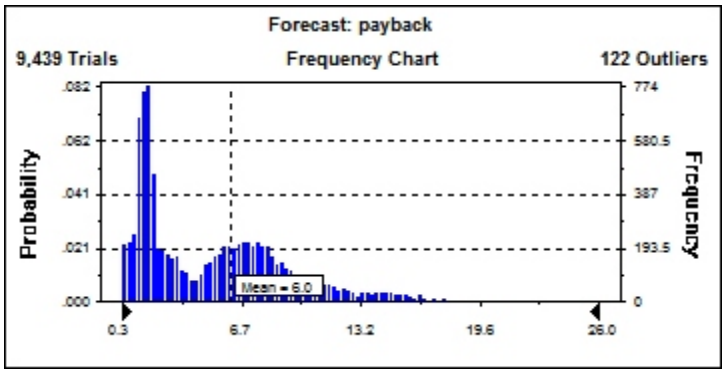

Figure 8D.2.70 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 3; Low Transformer Loading Scenario

8D.2.3.5 High Loading

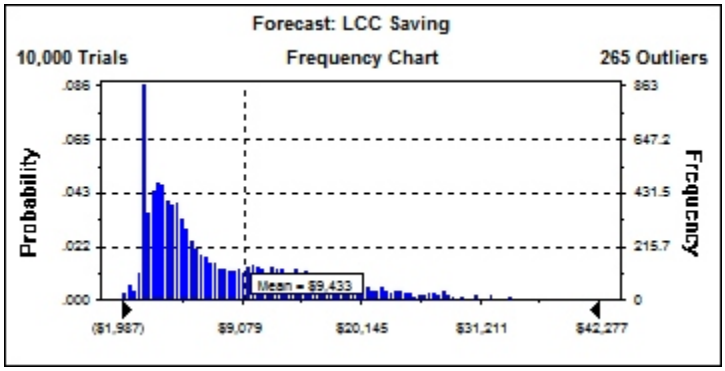

Figure 8D.2.71 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 3; High Transformer Loading Scenario

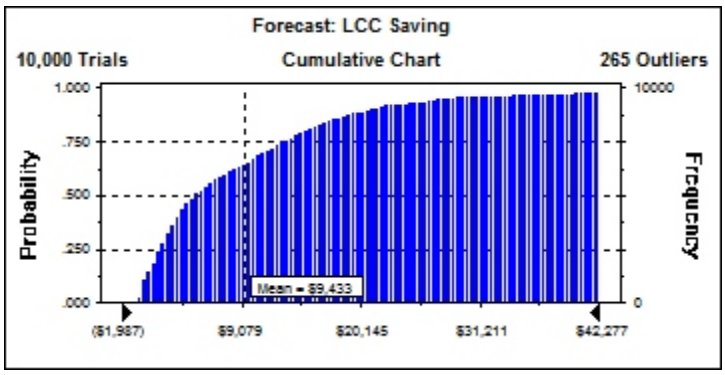

Figure 8D.2.72 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 3; High Transformer Loading Scenario

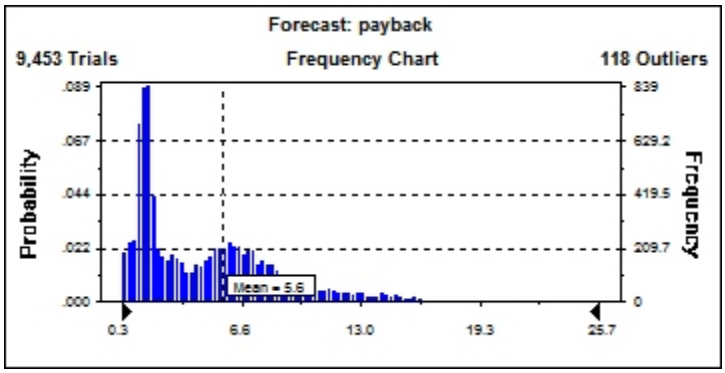

Figure 8D.2.73 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 3; High Transformer Loading Scenario

8D.2.3.6 Low Electricity Price

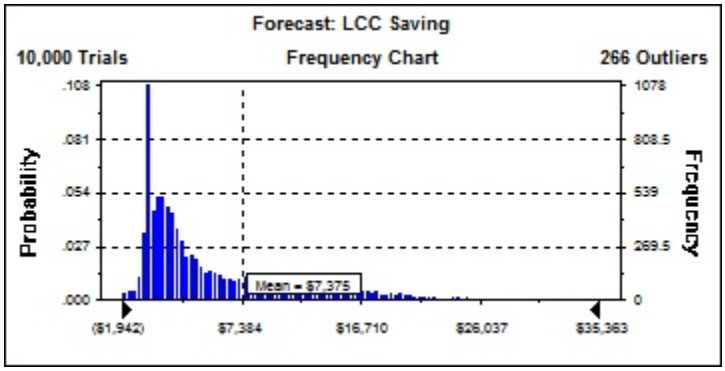

Figure 8D.2.74 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 3; Low Electricity Price Scenario

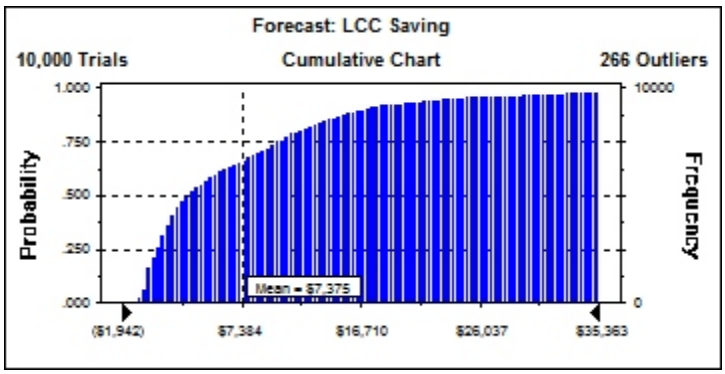

Figure 8D.2.75 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 3; Low Electricity Price Scenario

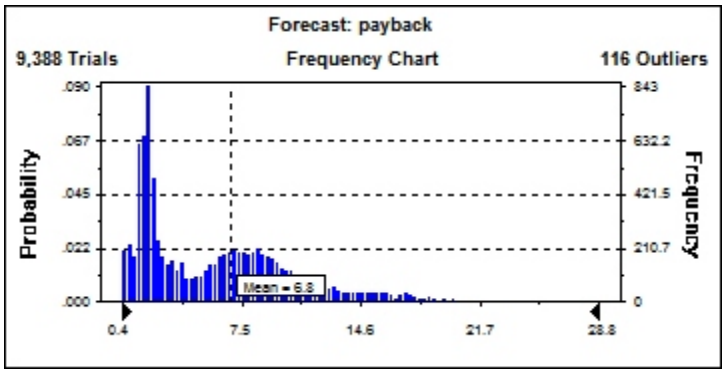

Figure 8D.2.76 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 3; Low Electricity Price Scenario

8D.2.3.7 High Electricity Price

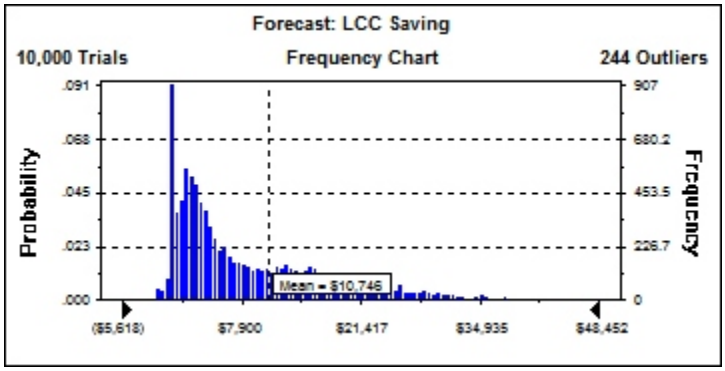

Figure 8D.2.77 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 3; High Electricity Price Scenario

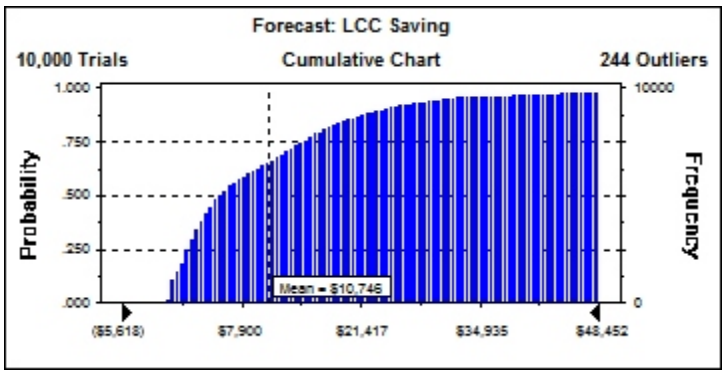

Figure 8D.2.78 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 3; High Electricity Price Scenario

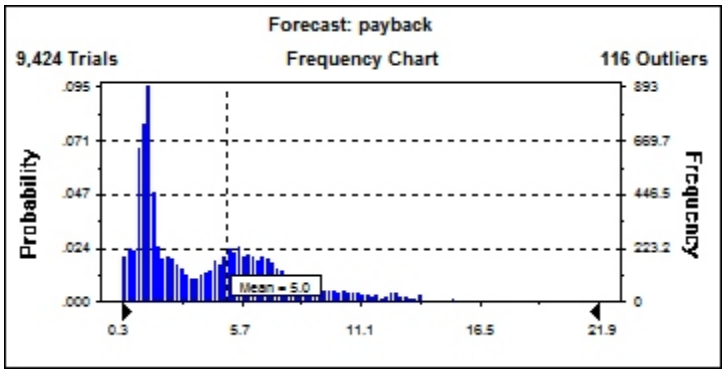

Figure 8D.2.79 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 3; High Electricity Price Scenario

8D.2.3.8 Low Load Growth

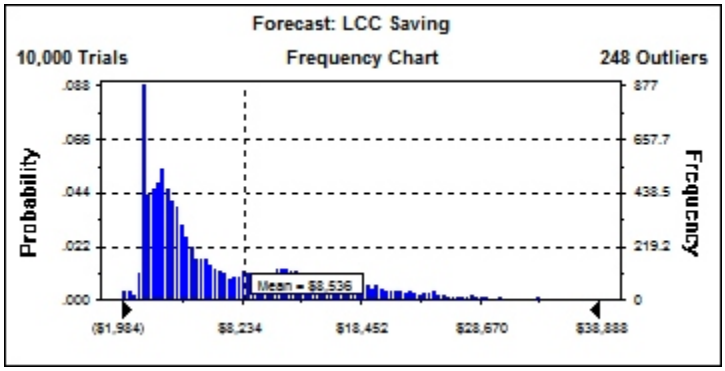

Figure 8D.2.80 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 3; Low Load Growth Scenario

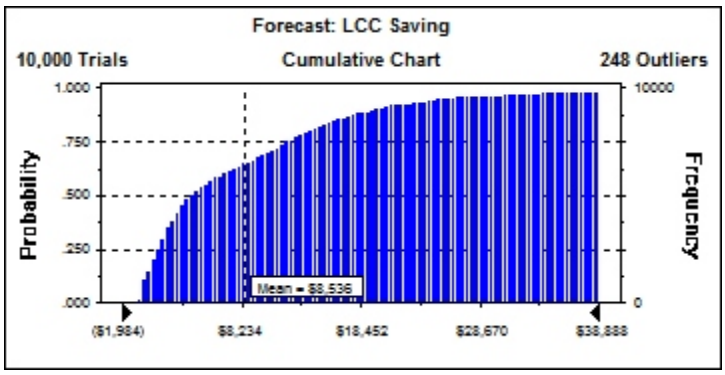

Figure 8D.2.81 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 3; Low Load Growth Scenario

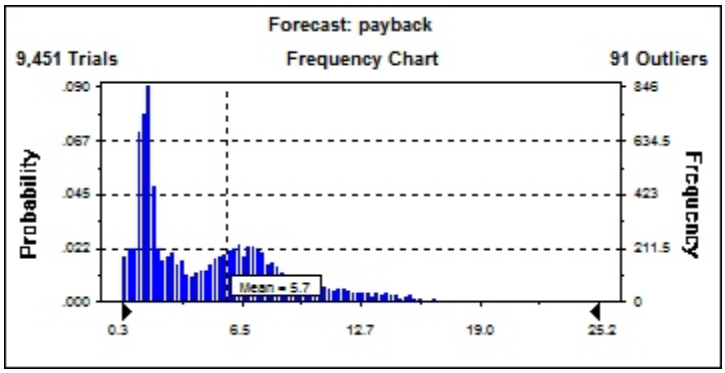

Figure 8D.2.82 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 3; Low Load Growth Scenario

8D.2.3.9 High Load Growth

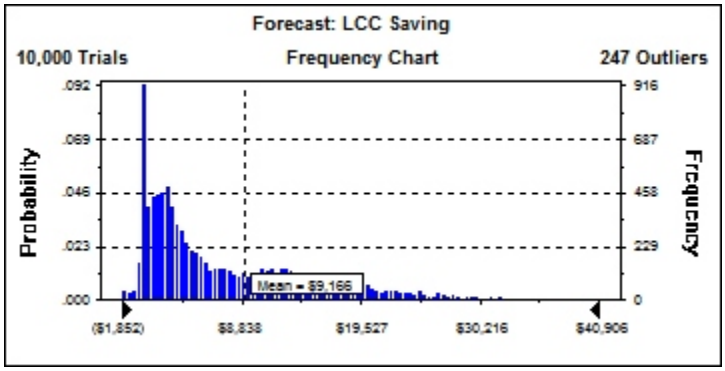

Figure 8D.2.83 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 3; High Load Growth Scenario

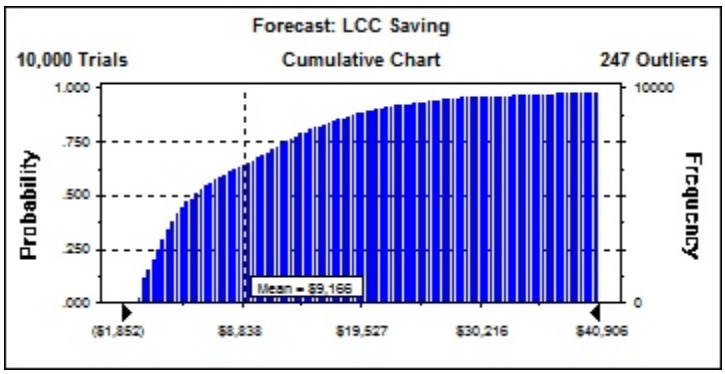

Figure 8D.2.84 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 3; High Load Growth Scenario

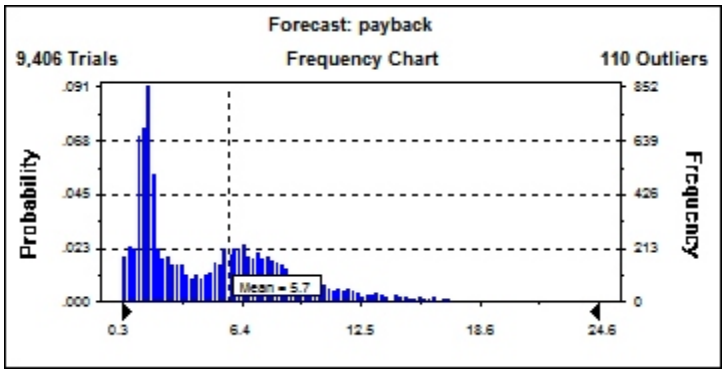

Figure 8D.2.85 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 3; High Load Growth Scenario

8D.2.4 Design Line 9; Candidate Standard Level 4

Table 8D.2.5 Standard Level: 4; Summary Table

Scenario	Transformers having LCC Savings > $0 (%)	Mean LCC Savings ($)	Mean Payback (Years)
Baseline	87.6%	$9,664	9.0
Low A & B Distribution	88.9%	$10,709	8.2
High A & B Distribution	67.5%	$1,150	20.4
Low Loading	85.0%	$9,182	9.7
High Loading	88.4%	$10,466	8.7
Low Electricity Price	82.0%	$7,872	10.5
High Electricity Price	90.1%	$11,763	8.0
Low Load Growth	84.6%	$8,942	8.9
High Load Growth	88.3%	$9,902	9.3

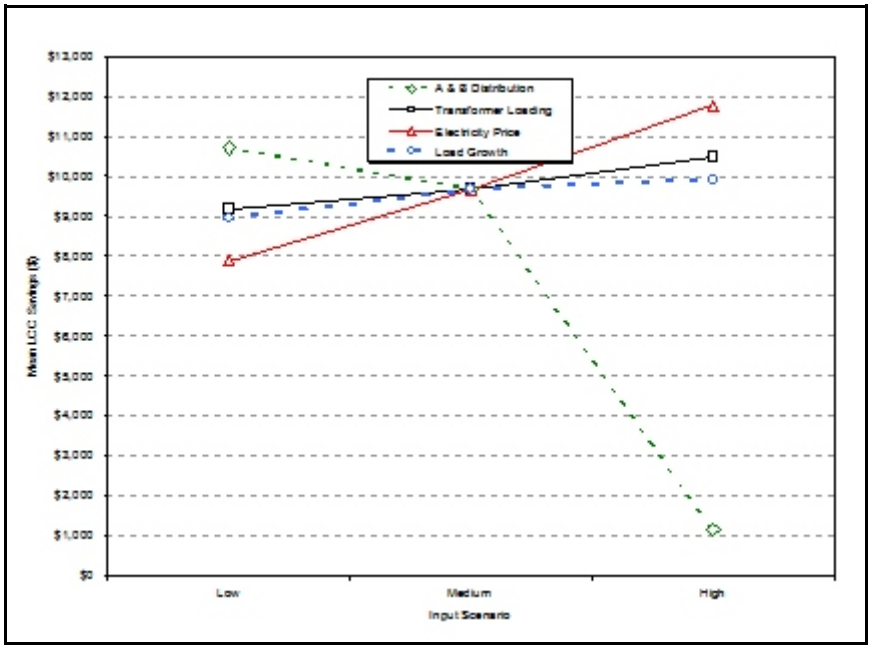

Figure 8D.2.86 Sensitivity of LCC to Input Changes for Design Line 9, Standard Level 4

8D.2.4.1 Baseline

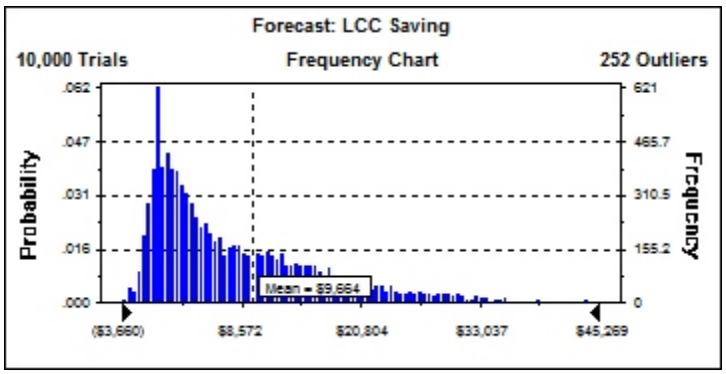

Figure 8D.2.87 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 4; Baseline Scenario

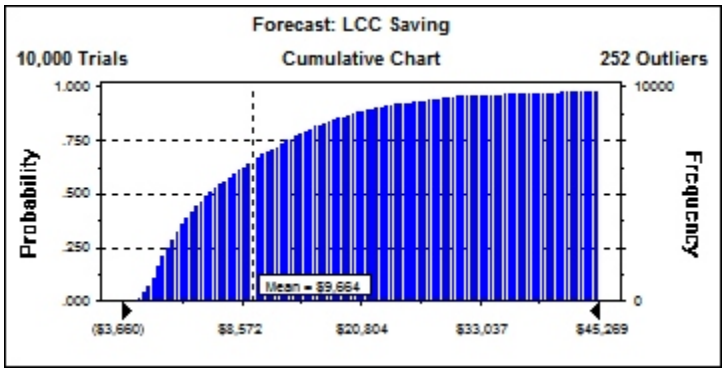

Figure 8D.2.88 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 4; Baseline Scenario

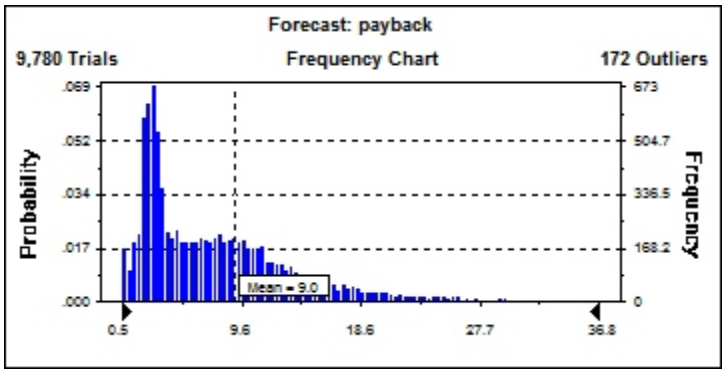

Figure 8D.2.89 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 4; Baseline Scenario

8D.2.4.2 Low A & B Distribution

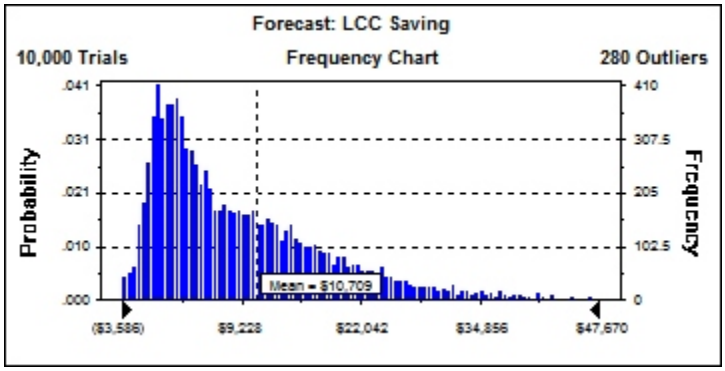

Figure 8D.2.90 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 4; Low A & B Distribution Scenario

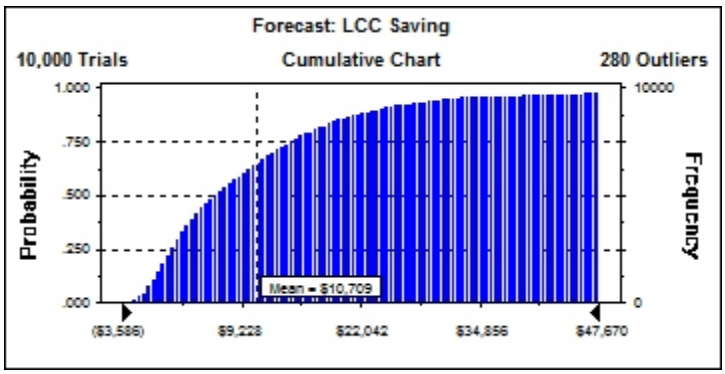

Figure 8D.2.91 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 4; Low A & B Distribution Scenario

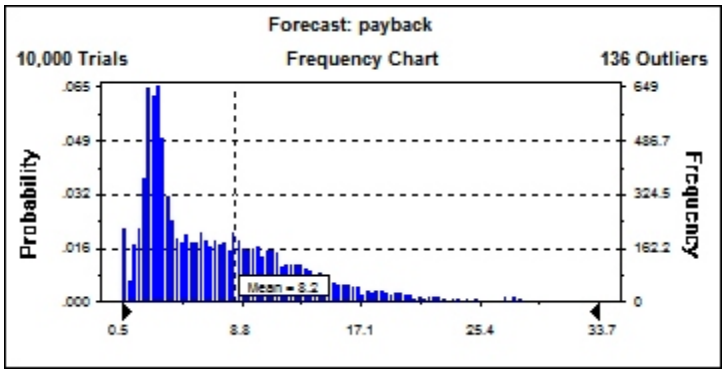

Figure 8D.2.92 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 4; Low A & B Distribution Scenario

8D.2.4.3 High A & B Distribution

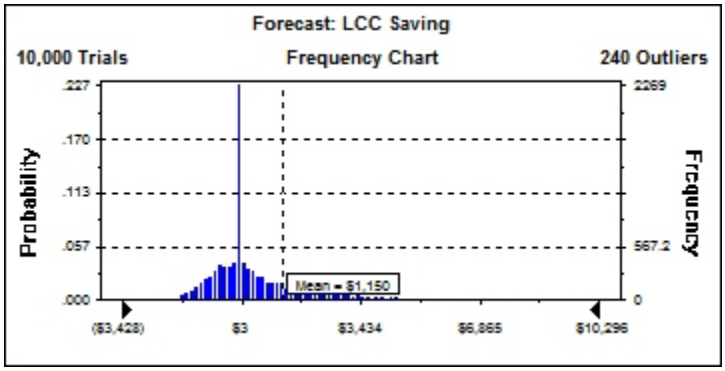

Figure 8D.2.93 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 4; High A & B Distribution Scenario

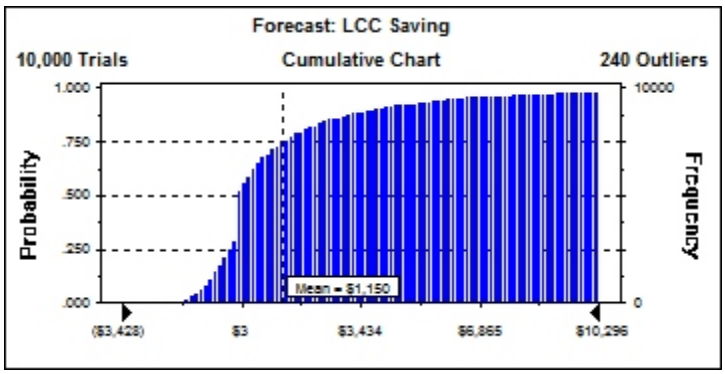

Figure 8D.2.94 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 4; High A & B Distribution Scenario

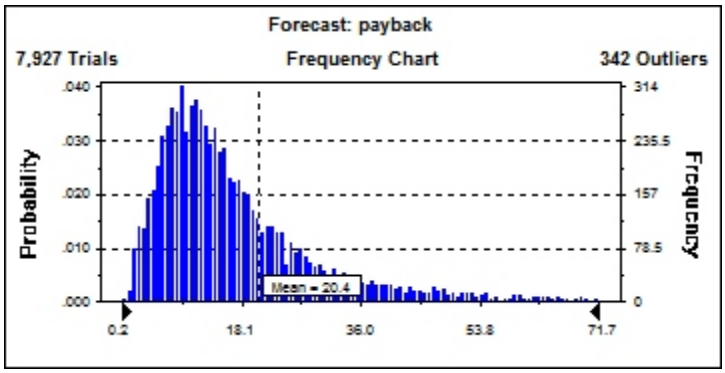

Figure 8D.2.95 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 4; High A & B Distribution Scenario

8D.2.4.4 Low Loading

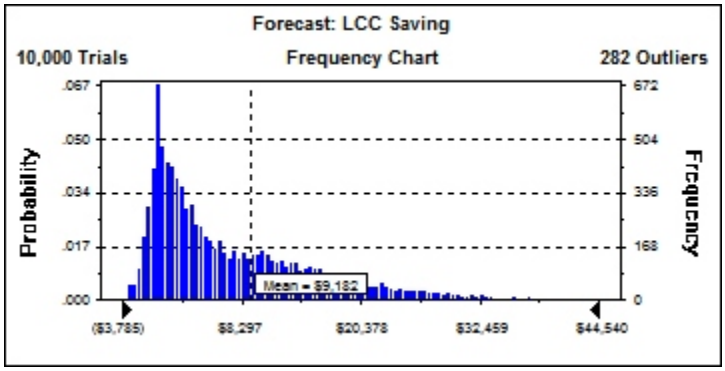

Figure 8D.2.96 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 4; Low Transformer Loading Scenario

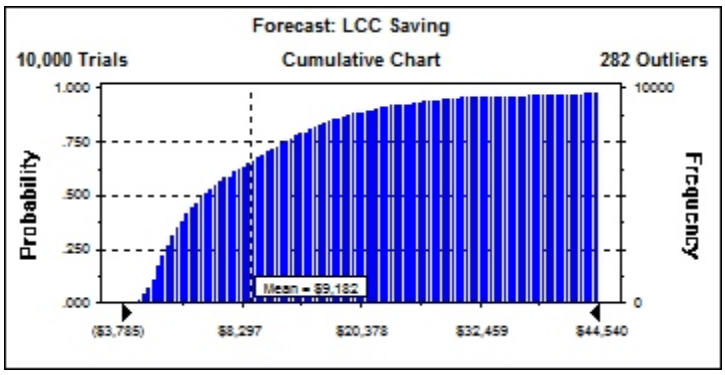

Figure 8D.2.97 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 4; Low Transformer Loading Scenario

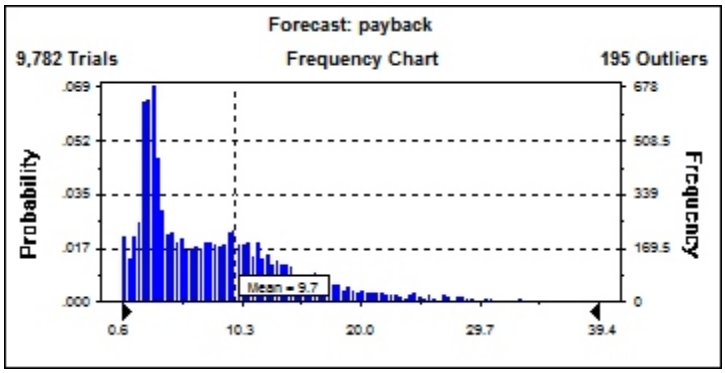

Figure 8D.2.98 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 4; Low Transformer Loading Scenario

8D.2.4.5 High Loading

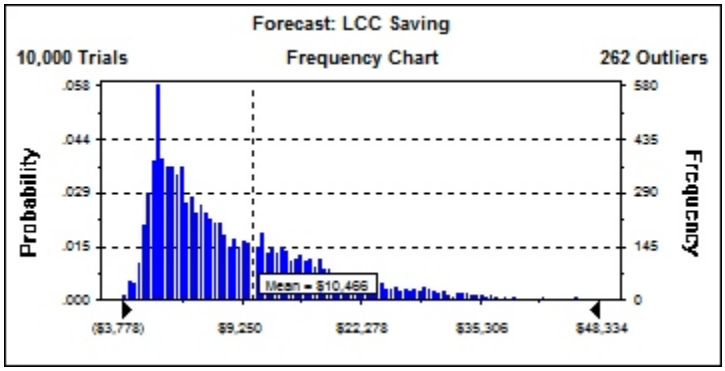

Figure 8D.2.99 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 4; High Transformer Loading Scenario

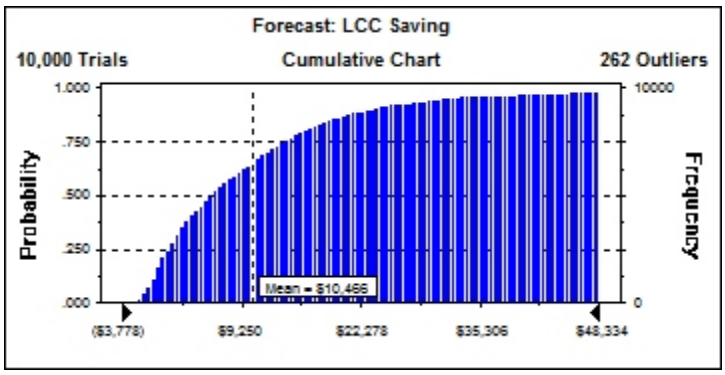

Figure 8D.2.100 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 4; High Transformer Loading Scenario

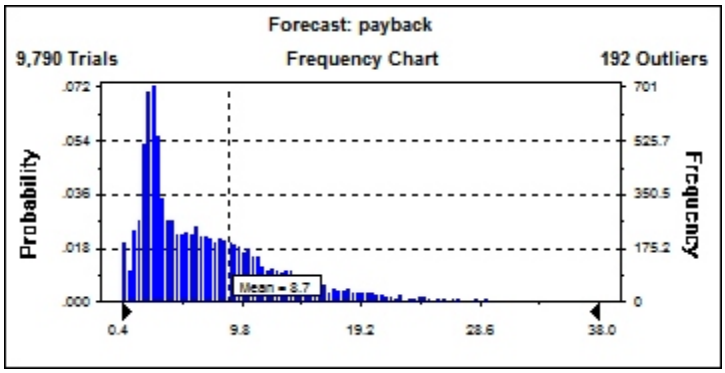

Figure 8D.2.101 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 4; High Transformer Loading Scenario

8D.2.4.6 Low Electricity Price

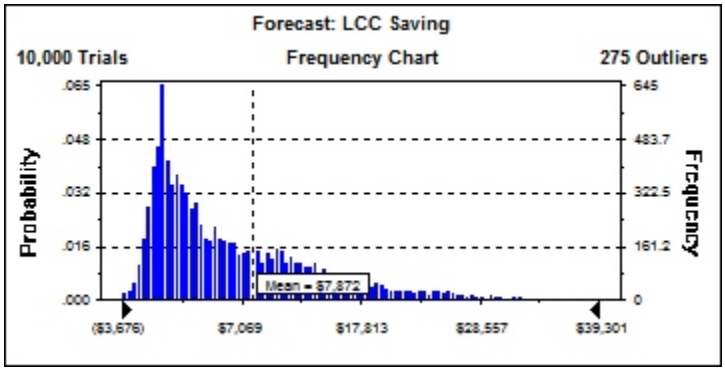

Figure 8D.2.102 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 4; Low Electricity Price Scenario

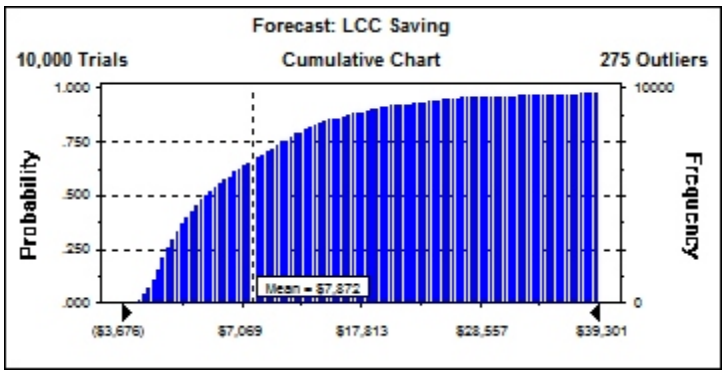

Figure 8D.2.103 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 4; Low Electricity Price Scenario

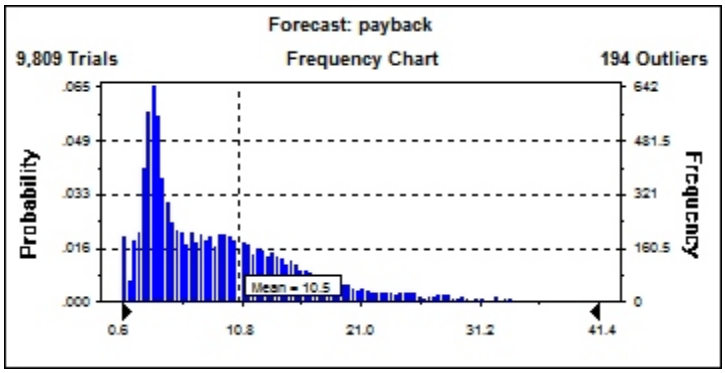

Figure 8D.2.104 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 4; Low Electricity Price Scenario

8D.2.4.7 High Electricity Price

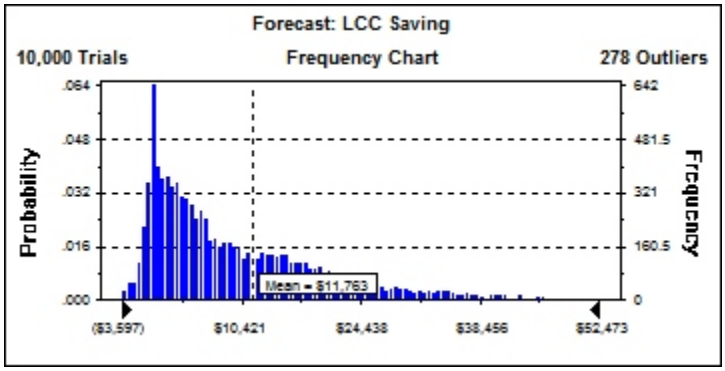

Figure 8D.2.105 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 4; High Electricity Price Scenario

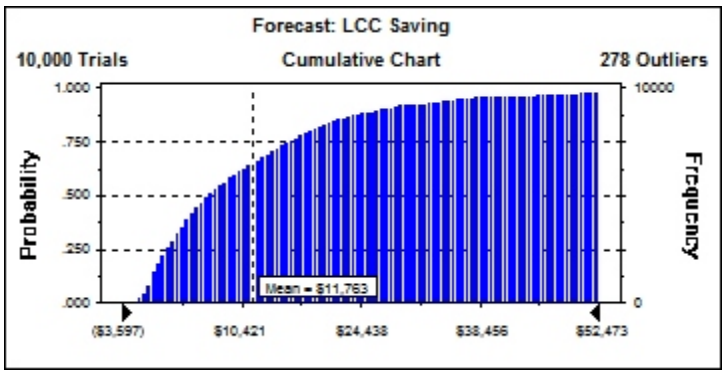

Figure 8D.2.106 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 4; High Electricity Price Scenario

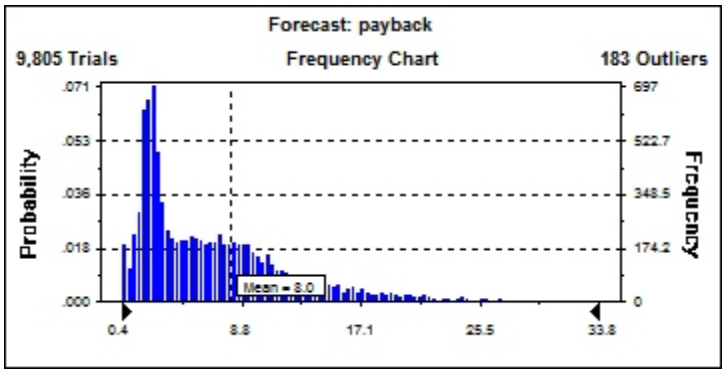

Figure 8D.2.107 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 4; High Electricity Price Scenario

8D.2.4.8 Low Load Growth

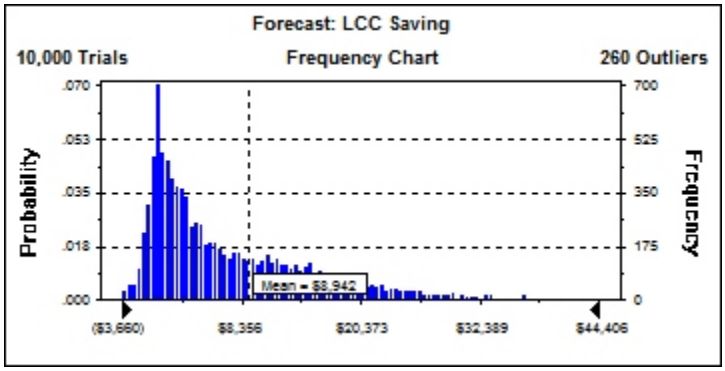

Figure 8D.2.108 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 4; Low Load Growth Scenario

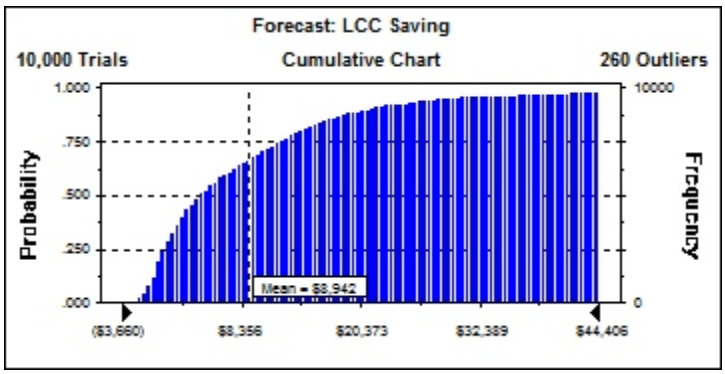

Figure 8D.2.109 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 4; Low Load Growth Scenario

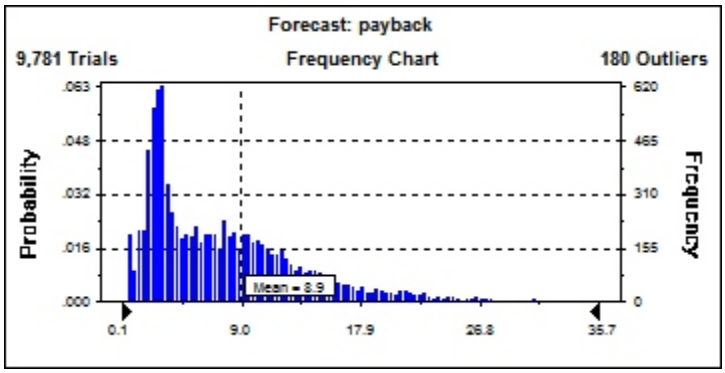

Figure 8D.2.110 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 4; Low Load Growth Scenario

8D.2.4.9 High Load Growth

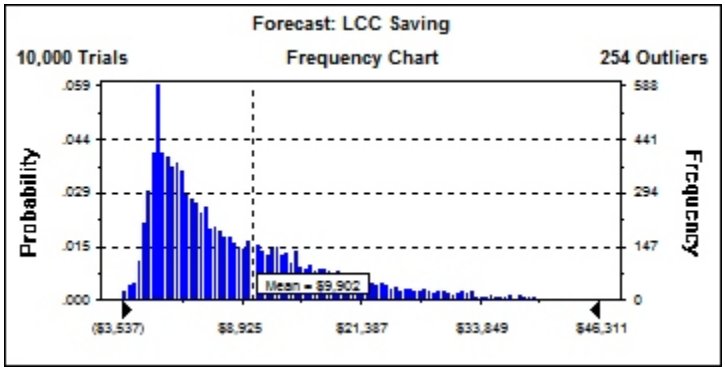

Figure 8D.2.111 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 4; High Load Growth Scenario

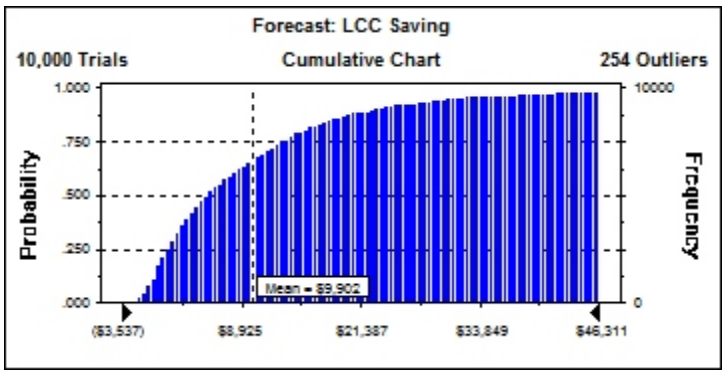

Figure 8D.2.112 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 4; High Load Growth Scenario

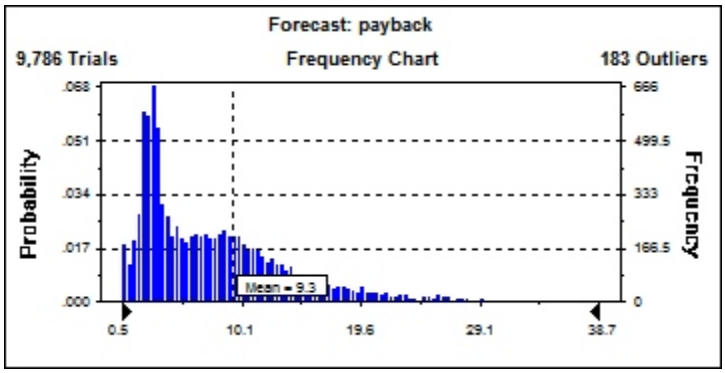

Figure 8D.2.113 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 4; High Load Growth Scenario

8D.2.5 Design Line 9; Candidate Standard Level 5

Table 8D.2.6 Standard Level: 5; Summary Table

Scenario	Transformers having LCC Savings > $0 (%)	Mean LCC Savings ($)	Mean Payback (Years)
Baseline	74.5%	$8,954	12.9
Low A & B Distribution	78.7%	$9,842	11.3
High A & B Distribution	35.6%	$379	29.2
Low Loading	71.4%	$8,279	13.7
High Loading	77.6%	$10,189	12.2
Low Electricity Price	68.7%	$6,770	15.0
High Electricity Price	80.1%	$11,110	11.3
Low Load Growth	70.0%	$7,838	13.1
High Load Growth	76.9%	$9,454	13.1

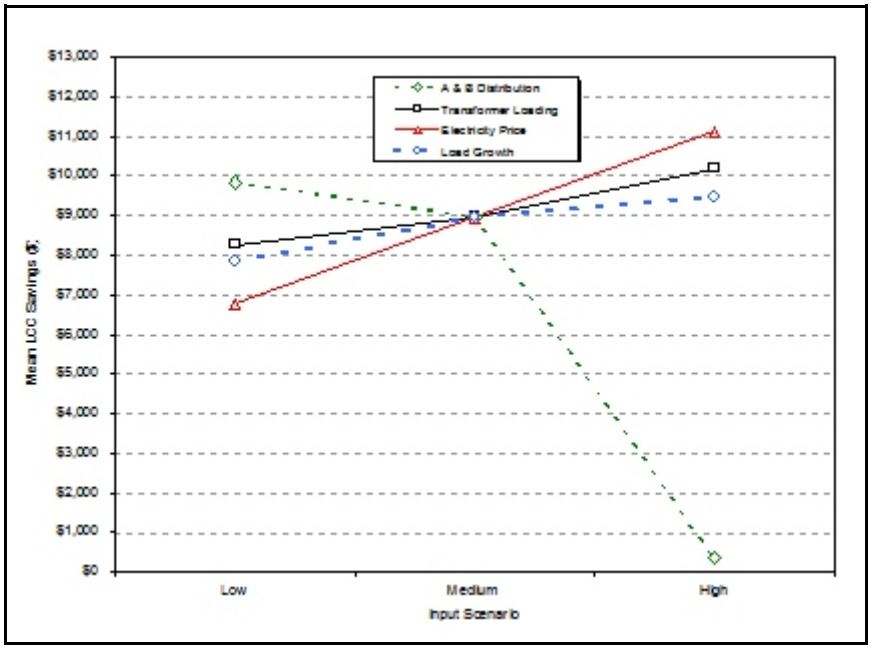

Figure 8D.2.114 Sensitivity of LCC to Input Changes for Design Line 9, Standard Level 5

8D.2.5.1 Baseline

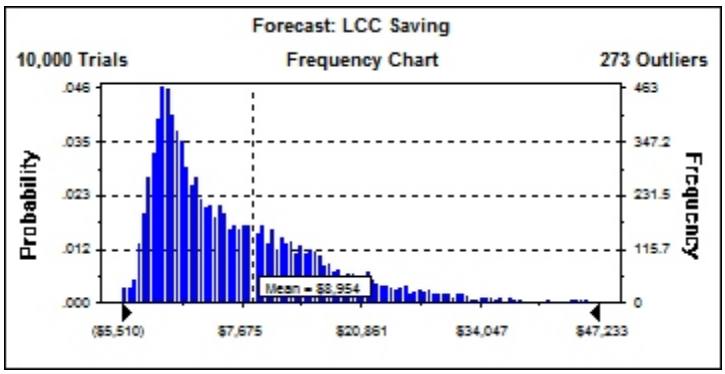

Figure 8D.2.115 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 5; Baseline Scenario

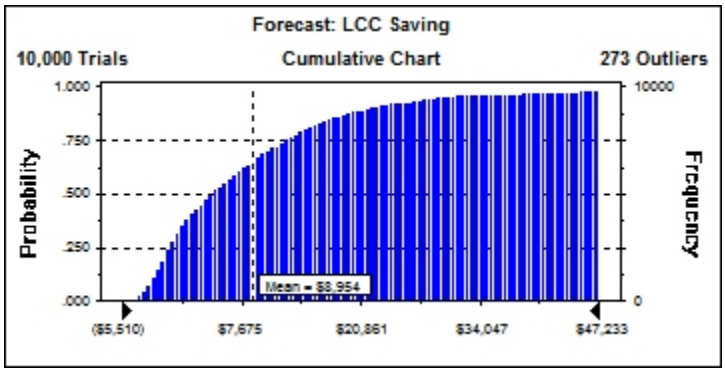

Figure 8D.2.116 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 5; Baseline Scenario

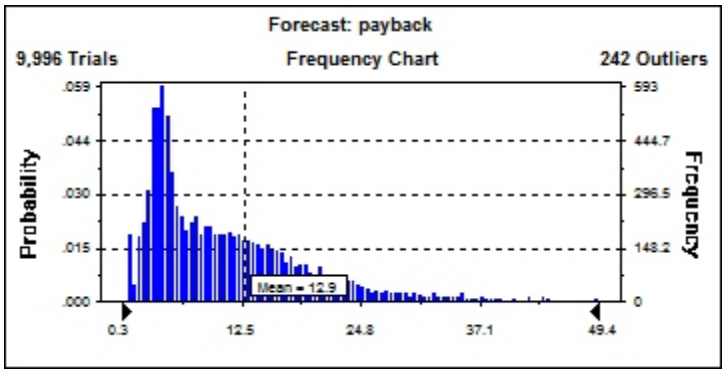

Figure 8D.2.117 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 5; Baseline Scenario

8D.2.5.2 Low A & B Distribution

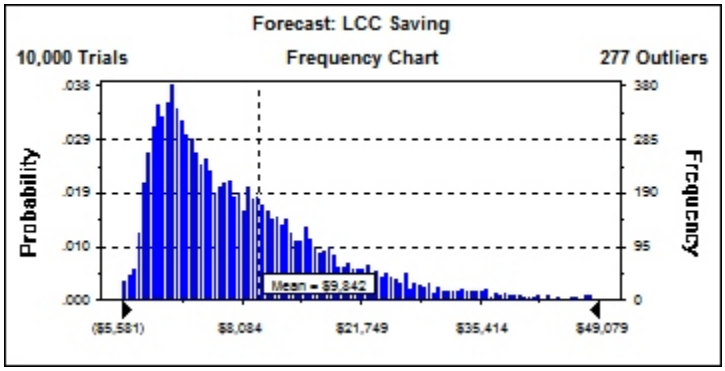

Figure 8D.2.118 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 5; Low A & B Distribution Scenario

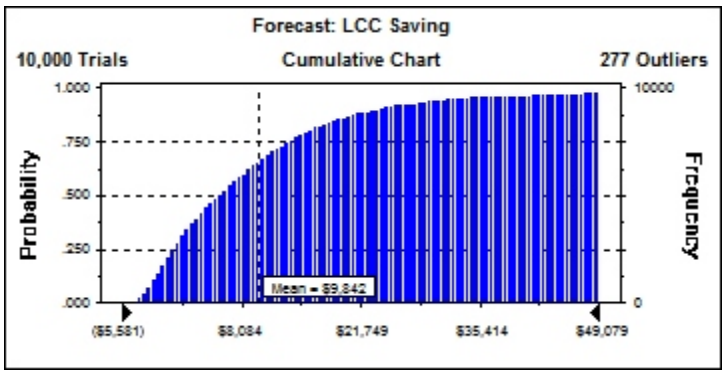

Figure 8D.2.119 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 5; Low A & B Distribution Scenario

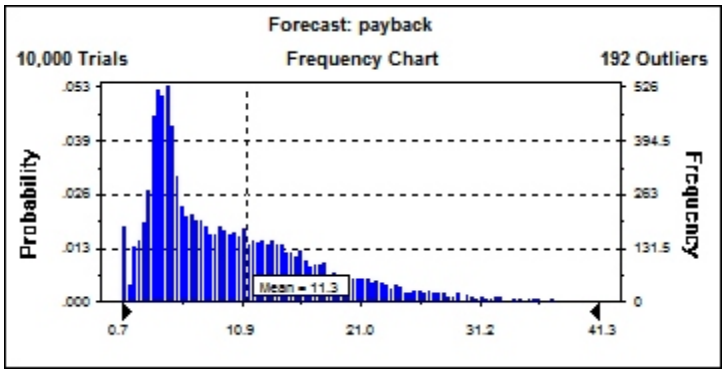

Figure 8D.2.120 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 5; Low A & B Distribution Scenario

8D.2.5.3 High A & B Distribution

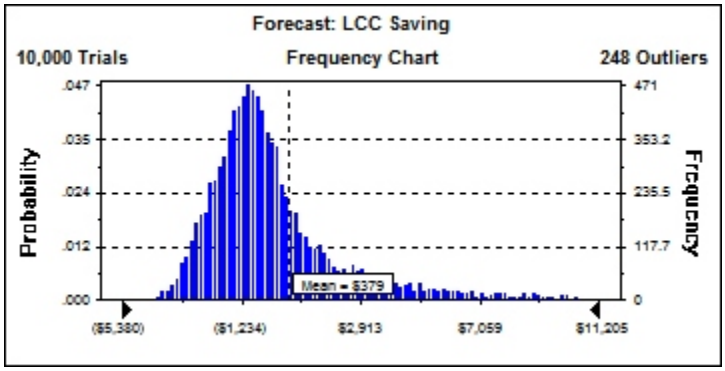

Figure 8D.2.121 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 5; High A & B Distribution Scenario

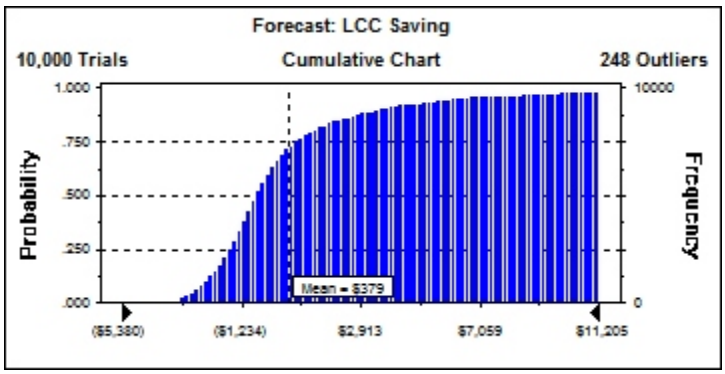

Figure 8D.2.122 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 5; High A & B Distribution Scenario

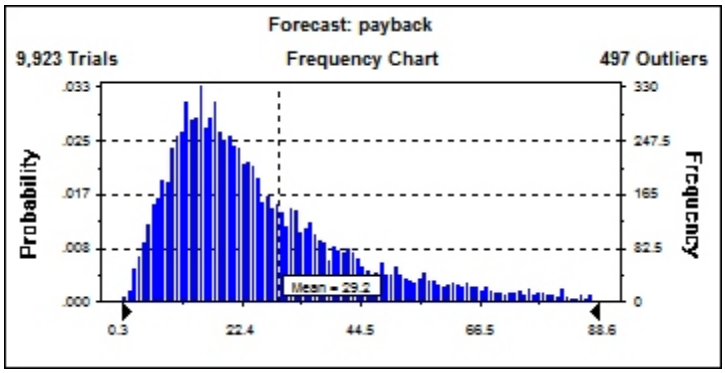

Figure 8D.2.123 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 5; High A & B Distribution Scenario

8D.2.5.4 Low Loading

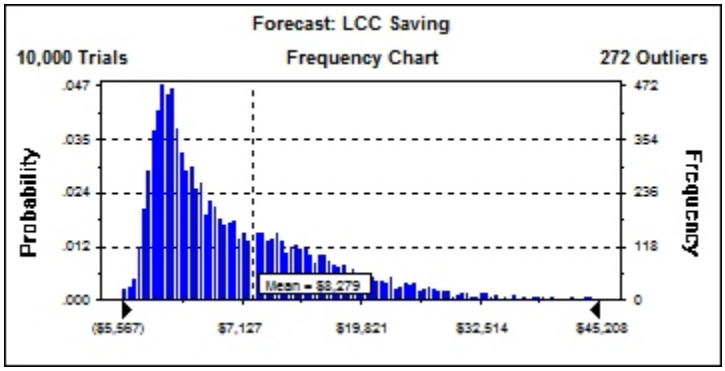

Figure 8D.2.124 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 5; Low Transformer Loading Scenario

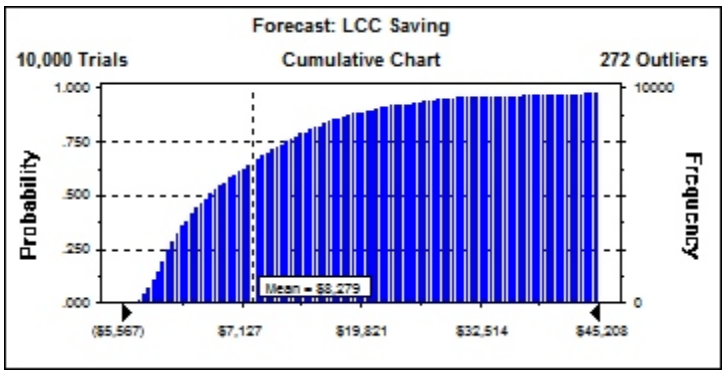

Figure 8D.2.125 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 5; Low Transformer Loading Scenario

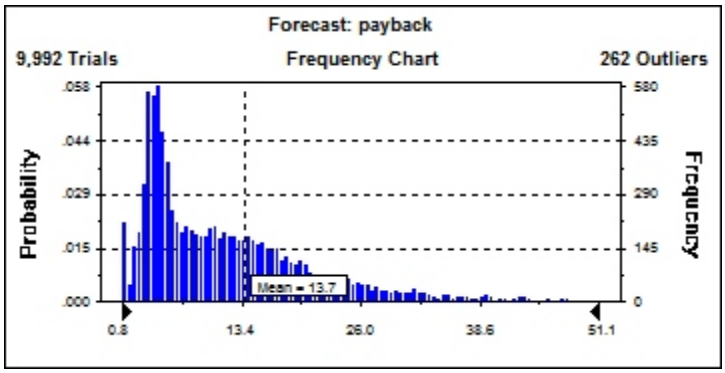

Figure 8D.2.126 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 5; Low Transformer Loading Scenario

8D.2.5.5 High Loading

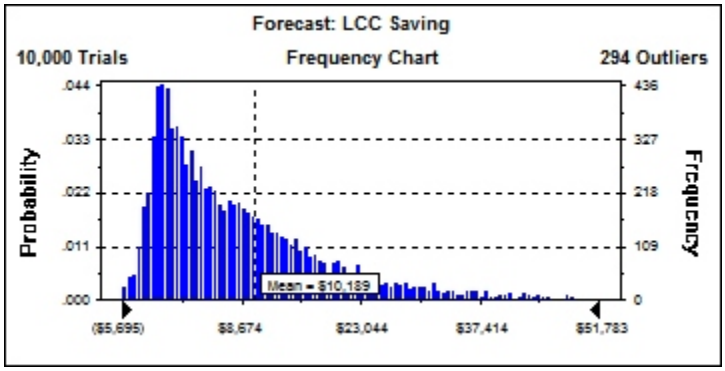

Figure 8D.2.127 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 5; High Transformer Loading Scenario

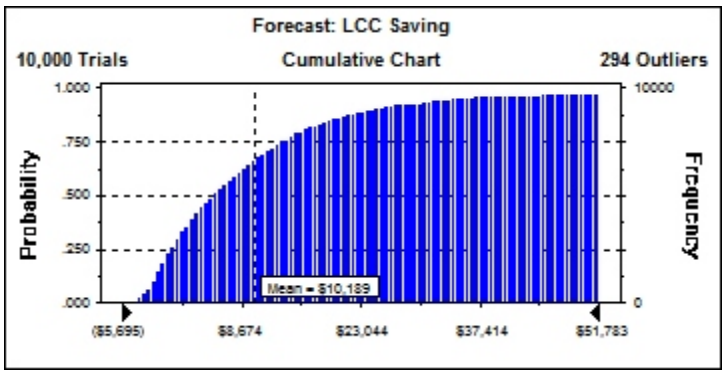

Figure 8D.2.128 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 5; High Transformer Loading Scenario

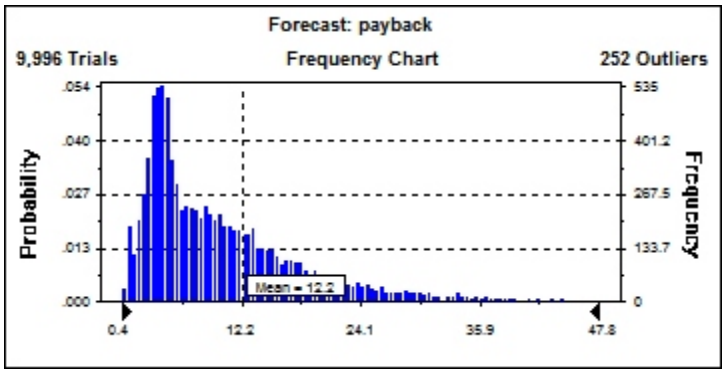

Figure 8D.2.129 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 5; High Transformer Loading Scenario

8D.2.5.6 Low Electricity Price

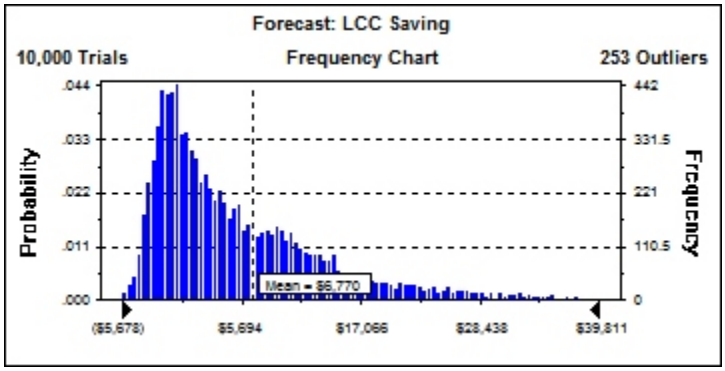

Figure 8D.2.130 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 5; Low Electricity Price Scenario

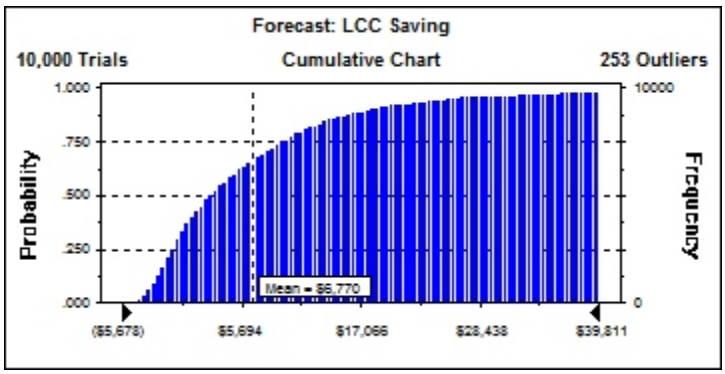

Figure 8D.2.131 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 5; Low Electricity Price Scenario

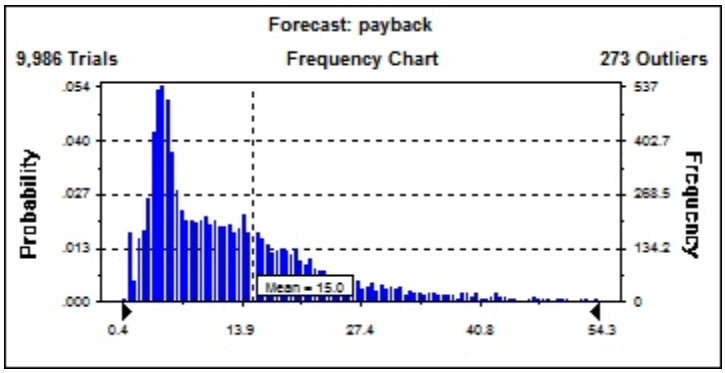

Figure 8D.2.132 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 5; Low Electricity Price Scenario

8D.2.5.7 High Electricity Price

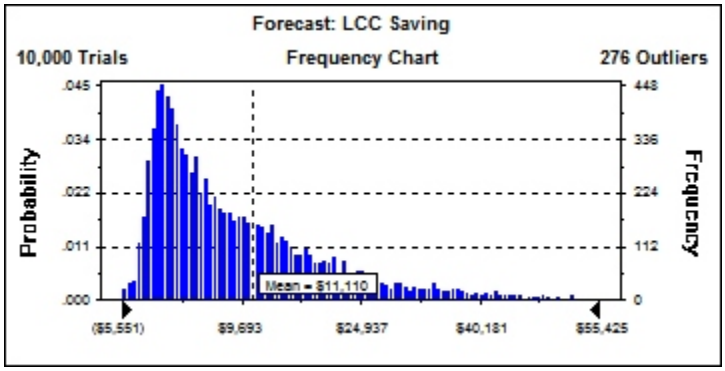

Figure 8D.2.133 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 5; High Electricity Price Scenario

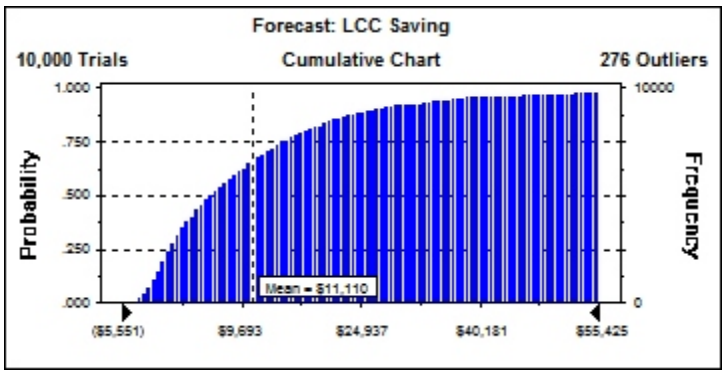

Figure 8D.2.134 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 5; High Electricity Price Scenario

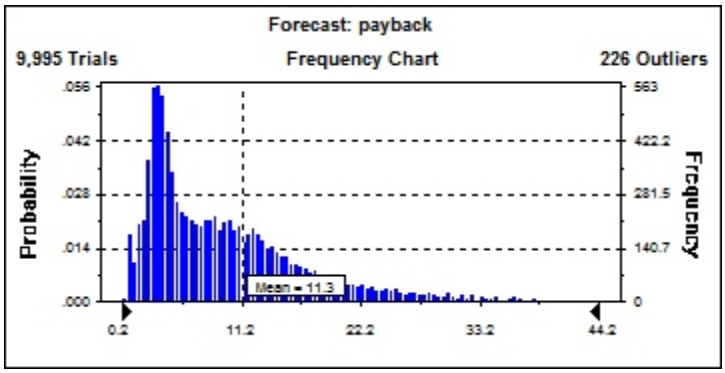

Figure 8D.2.135 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 5; High Electricity Price Scenario

8D.2.5.8 Low Load Growth

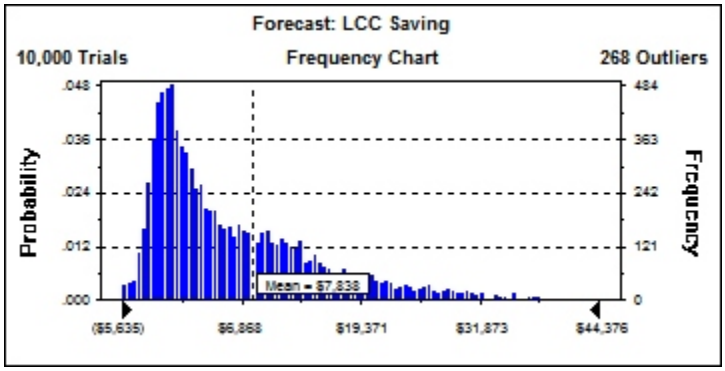

Figure 8D.2.136 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 5; Low Load Growth Scenario

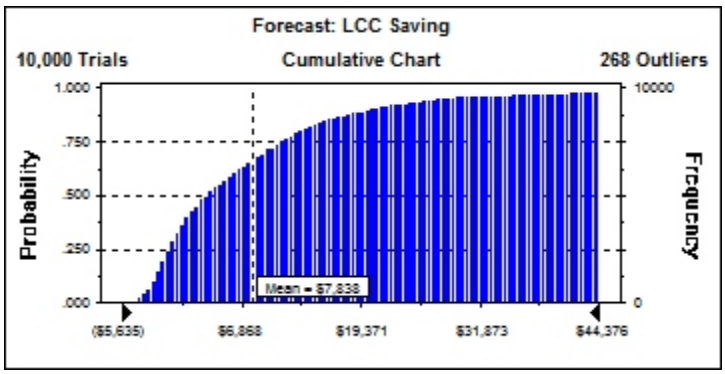

Figure 8D.2.137 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 5; Low Load Growth Scenario

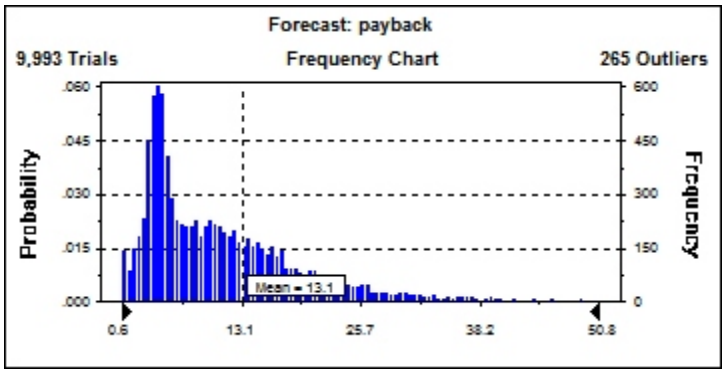

Figure 8D.2.138 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 5; Low Load Growth Scenario

8D.2.5.9 High Load Growth

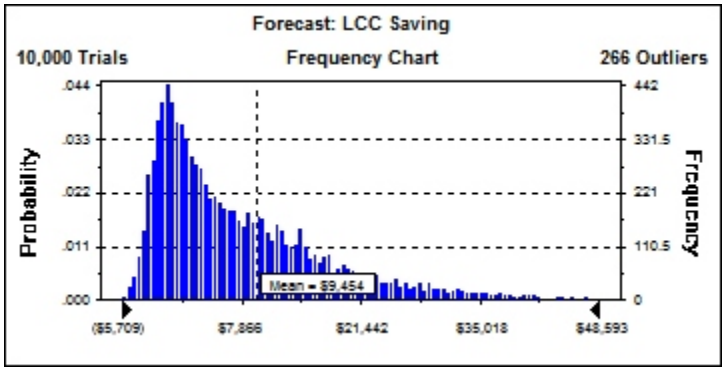

Figure 8D.2.139 LCC Savings Frequency Chart; Design Line: 9; Candidate Standard Level: 5; High Load Growth Scenario

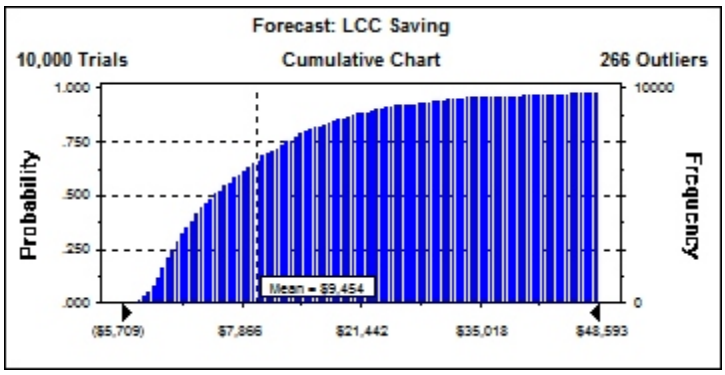

Figure 8D.2.140 LCC Savings Cumulative Chart; Design Line: 9; Candidate Standard Level: 5; High Load Growth Scenario

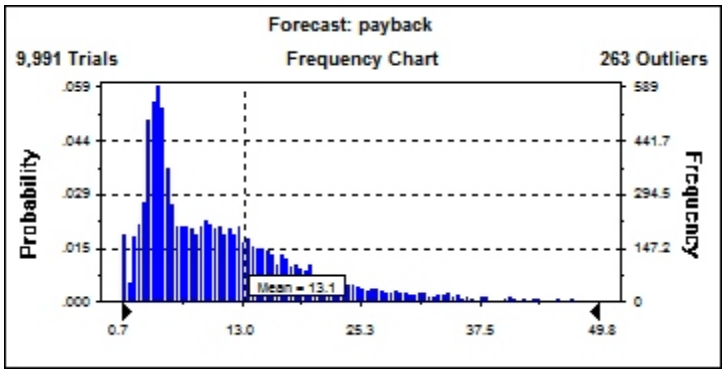

Figure 8D.2.141 Payback Period Frequency Chart; Design Line: 9; Candidate Standard Level: 5; High Load Growth Scenario