

The NLMIXED Procedure

Specifications	
Data Set	WORK.AMKE4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: FCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	37.5
AIC (smaller is better)	41.5
AICC (smaller is better)	41.5
BIC (smaller is better)	56.7

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Gradient
a	0.000026	0	15E3	Infty	<.0001	0.05	-Infty	Infty	1434.462
b	5.73E-13	.	15E3	.	.	0.05	.	.	1.694795

Covariance Matrix of Parameter Estimates			
Row	Parameter	a	b
1	a	.	.
2	b	.	.

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Correlation Matrix of Parameter Estimates			
Row	Parameter	a	b
1	a	1.0000	.
2	b	.	1.0000

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

**Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.009559	0	15E3	I	<.0001	0.05	.	.
Shutdown Effect	-1.0000	.	15E3	.	.	0.05	.	.

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.AMKE4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: FCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	36.9
AIC (smaller is better)	40.9
AICC (smaller is better)	40.9
BIC (smaller is better)	56.2

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Gradient
a	0.000195	0	15E3	Infty	<.0001	0.05	-Infty	Infty	-1850.74
b	1.67E-12	.	15E3	.	.	0.05	.	.	1.188361

Covariance Matrix of Parameter Estimates			
Row	Parameter	a	b
1	a	.	.
2	b	.	.

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Correlation Matrix of Parameter Estimates			
Row	Parameter	a	b
1	a	1.0000	.
2	b	.	1.0000

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

*Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	0.07115	0	15E3	I	<.0001	0.05	.	.
Shutdown Effect	-1.0000	.	15E3	.	.	0.05	.	.

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.AMKE5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: FCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	29.1
AIC (smaller is better)	33.1
AICC (smaller is better)	33.1
BIC (smaller is better)	44.3

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Gradient
a	0.000026	0	1992	Infty	<.0001	0.05	-Infty	Infty	1434.462
b	4.97E-13	.	1992	.	.	0.05	.	.	1.694795

Covariance Matrix of Parameter Estimates			
Row	Parameter	a	b
1	a	.	.
2	b	.	.

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Correlation Matrix of Parameter Estimates			
Row	Parameter	a	b
1	a	1.0000	.
2	b	.	1.0000

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is $(1-b) \times 100\%$

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

**Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.009559	0	1992	I	<.0001	0.05	.	.
Shutdown Effect	-1.0000	.	1992	.	.	0.05	.	.

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.AMKE5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: FCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	28.5
AIC (smaller is better)	32.5
AICC (smaller is better)	32.5
BIC (smaller is better)	43.7

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Gradient
a	0.000195	.	1992	.	.	0.05	.	.	-1850.74
b	1.03E-12	.	1992	.	.	0.05	.	.	1.188361

Covariance Matrix of Parameter Estimates			
Row	Parameter	a	b
1	a	.	.
2	b	.	.

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Correlation Matrix of Parameter Estimates			
Row	Parameter	a	b
1	a	1.0000	.
2	b	.	1.0000

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is $(1-b) \times 100\%$

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

*Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	0.07115	.	1992	.	.	0.05	.	.
Shutdown Effect	-1.0000	.	1992	.	.	0.05	.	.

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.BUOW4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

ERROR: Optimization cannot be completed.

Parameter Estimates		
Parameter	Estimate	Gradient
a	1.51E-17	141872.6
b	0.9900	9.78E-13

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

*Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	standarderror	lower	upper	tvalue	probt	df
Mean/TURBINE/Yr	5.51E-15	.	.	.	.	.	.
Shutdown Effect	-0.01000	.	.	.	.	.	.

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.BUOW4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

ERROR: Optimization cannot be completed.

Parameter Estimates		
Parameter	Estimate	Gradient
a	3.29E-16	14444.82
b	0.9900	2E-12

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is $(1-b) \times 100\%$

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

*Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	standarderror	lower	upper	tvalue	probt	df
Mean/MW/Yr	1.2E-13	.	.	.	.	.	.
Shutdown Effect	-0.01000	.	.	.	.	.	.

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.BUOW5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

ERROR: Optimization cannot be completed.

Parameter Estimates		
Parameter	Estimate	Gradient
a	1.44E-17	141872.6
b	0.9900	9.35E-13

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

**Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	standarderror	lower	upper	tvalue	probt	df
Mean/TURBINE/Yr	5.27E-15	.	.	.	.	.	.
Shutdown Effect	-0.01000	.	.	.	.	.	.

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.BUOW5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

ERROR: Optimization cannot be completed.

Parameter Estimates		
Parameter	Estimate	Gradient
a	2.02E-16	14444.82
b	0.9900	1.23E-12

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is $(1-b) \times 100\%$

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

*Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	standarderror	lower	upper	tvalue	probt	df
Mean/MW/Yr	7.38E-14	.	.	.	.	.	.
Shutdown Effect	-0.01000	.	.	.	.	.	.

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.GOEA4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	40.7
AIC (smaller is better)	44.7
AICC (smaller is better)	44.7
BIC (smaller is better)	59.9

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Gradient
a	5.526E-6	6.02E-6	15E3	0.92	0.3586	0.05	-6.27E-6	0.000017	0.033672
b	0.3165	1.0821	15E3	0.29	0.7699	0.05	-1.8046	2.4376	-2.06E-7

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

*Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.002017	0.002197	15E3	0.92	0.3586	0.05	-0.00229	0.006324
Shutdown Effect	-0.6835	1.0821	15E3	-0.63	0.5276	0.05	-2.8046	1.4376

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.GOEA4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	40.5
AIC (smaller is better)	44.5
AICC (smaller is better)	44.5
BIC (smaller is better)	59.7

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Gradient
a	0.000046	0.000047	15E3	0.99	0.3223	0.05	-0.00005	0.000137	0.005466
b	0.5456	1.3660	15E3	0.40	0.6896	0.05	-2.1319	3.2230	4.105E-7

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

*Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	0.01681	0.01698	15E3	0.99	0.3223	0.05	-0.01648	0.05010
Shutdown Effect	-0.4544	1.3660	15E3	-0.33	0.7394	0.05	-3.1319	2.2230

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.GOEA5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	34.3
AIC (smaller is better)	38.3
AICC (smaller is better)	38.3
BIC (smaller is better)	49.5

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Gradient
a	5.526E-6	6.02E-6	1992	0.92	0.3587	0.05	-6.28E-6	0.000017	0.033686
b	0.3165	1.0821	1992	0.29	0.7700	0.05	-1.8057	2.4387	-2.06E-7

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

*Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.002017	0.002197	1992	0.92	0.3587	0.05	-0.00229	0.006326
Shutdown Effect	-0.6835	1.0821	1992	-0.63	0.5277	0.05	-2.8057	1.4387

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.GOEA5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	34.1
AIC (smaller is better)	38.1
AICC (smaller is better)	38.1
BIC (smaller is better)	49.3

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Gradient
a	0.000046	0.000047	1992	0.99	0.3224	0.05	-0.00005	0.000137	0.005466
b	0.5456	1.3660	1992	0.40	0.6896	0.05	-2.1333	3.2244	4.104E-7

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

*Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	0.01681	0.01698	1992	0.99	0.3224	0.05	-0.01650	0.05012
Shutdown Effect	-0.4544	1.3660	1992	-0.33	0.7394	0.05	-3.1333	2.2244

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.RTHA4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	355.1
AIC (smaller is better)	359.1
AICC (smaller is better)	359.1
BIC (smaller is better)	374.3

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Gradient
a	0.000057	0.000016	15E3	3.48	0.0005	0.05	0.000025	0.000089	-1.18634
b	0.5476	0.3378	15E3	1.62	0.1050	0.05	-0.1144	1.2097	5.963E-6

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

*Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.02090	0.006000	15E3	3.48	0.0005	0.05	0.009144	0.03266
Shutdown Effect	-0.4524	0.3378	15E3	-1.34	0.1805	0.05	-1.1144	0.2097

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.RTHA4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	371.3
AIC (smaller is better)	375.3
AICC (smaller is better)	375.3
BIC (smaller is better)	390.5

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Gradient
a	0.000492	0.000145	15E3	3.39	0.0007	0.05	0.000208	0.000777	0.000263
b	0.7807	0.4581	15E3	1.70	0.0883	0.05	-0.1172	1.6786	-9.91E-7

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

*Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	0.1797	0.05298	15E3	3.39	0.0007	0.05	0.07588	0.2836
Shutdown Effect	-0.2193	0.4581	15E3	-0.48	0.6321	0.05	-1.1172	0.6786

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.RTHA5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	262.8
AIC (smaller is better)	266.8
AICC (smaller is better)	266.8
BIC (smaller is better)	278.0

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Gradient
a	0.000057	0.000016	1992	3.48	0.0005	0.05	0.000025	0.000089	-0.90067
b	0.5510	0.3397	1992	1.62	0.1050	0.05	-0.1152	1.2173	-3.36E-6

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

*Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.02086	0.005999	1992	3.48	0.0005	0.05	0.009097	0.03263
Shutdown Effect	-0.4490	0.3397	1992	-1.32	0.1865	0.05	-1.1152	0.2173

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.RTHA5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	278.9
AIC (smaller is better)	282.9
AICC (smaller is better)	282.9
BIC (smaller is better)	294.1

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Gradient
a	0.000491	0.000145	1992	3.39	0.0007	0.05	0.000207	0.000776	-0.0116
b	0.7858	0.4607	1992	1.71	0.0882	0.05	-0.1177	1.6893	0.000015

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

*Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	0.1793	0.05295	1992	3.39	0.0007	0.05	0.07547	0.2832
Shutdown Effect	-0.2142	0.4607	1992	-0.46	0.6420	0.05	-1.1177	0.6893

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is $(1-b) \times 100\%$

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.AMKEBUOW4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: FCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	37.5
AIC (smaller is better)	41.5
AICC (smaller is better)	41.5
BIC (smaller is better)	56.7

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Gradient
a	0.000026	0	15E3	Infty	<.0001	0.05	-Infty	Infty	1434.462
b	5.73E-13	.	15E3	.	.	0.05	.	.	1.694795

Covariance Matrix of Parameter Estimates			
Row	Parameter	a	b
1	a	.	.
2	b	.	.

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Correlation Matrix of Parameter Estimates			
Row	Parameter	a	b
1	a	1.0000	.
2	b	.	1.0000

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is $(1-b) \times 100\%$

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

*Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.009559	0	15E3	I	<.0001	0.05	.	.
Shutdown Effect	-1.0000	.	15E3	.	.	0.05	.	.

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.AMKEBUOW4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: FCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	36.9
AIC (smaller is better)	40.9
AICC (smaller is better)	40.9
BIC (smaller is better)	56.2

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Gradient
a	0.000195	0	15E3	Infty	<.0001	0.05	-Infty	Infty	-1850.74
b	1.67E-12	.	15E3	.	.	0.05	.	.	1.188361

Covariance Matrix of Parameter Estimates			
Row	Parameter	a	b
1	a	.	.
2	b	.	.

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Correlation Matrix of Parameter Estimates			
Row	Parameter	a	b
1	a	1.0000	.
2	b	.	1.0000

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is $(1-b) \times 100\%$

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

*Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	0.07115	0	15E3	I	<.0001	0.05	.	.
Shutdown Effect	-1.0000	.	15E3	.	.	0.05	.	.

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.AMKEBUOW5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: FCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	29.1
AIC (smaller is better)	33.1
AICC (smaller is better)	33.1
BIC (smaller is better)	44.3

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Gradient
a	0.000026	0	1992	Infty	<.0001	0.05	-Infty	Infty	1434.462
b	4.97E-13	.	1992	.	.	0.05	.	.	1.694795

Covariance Matrix of Parameter Estimates			
Row	Parameter	a	b
1	a	.	.
2	b	.	.

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Correlation Matrix of Parameter Estimates			
Row	Parameter	a	b
1	a	1.0000	.
2	b	.	1.0000

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

*Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.009559	0	1992	I	<.0001	0.05	.	.
Shutdown Effect	-1.0000	.	1992	.	.	0.05	.	.

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.AMKEBUOW5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: FCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	28.5
AIC (smaller is better)	32.5
AICC (smaller is better)	32.5
BIC (smaller is better)	43.7

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Gradient
a	0.000195	.	1992	.	.	0.05	.	.	-1850.74
b	1.03E-12	.	1992	.	.	0.05	.	.	1.188361

Covariance Matrix of Parameter Estimates			
Row	Parameter	a	b
1	a	.	.
2	b	.	.

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Correlation Matrix of Parameter Estimates			
Row	Parameter	a	b
1	a	1.0000	.
2	b	.	1.0000

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is $(1-b) \times 100\%$

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

**Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	0.07115	.	1992	.	.	0.05	.	.
Shutdown Effect	-1.0000	.	1992	.	.	0.05	.	.

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is $(1-b) \times 100\%$

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.GOEARTHA4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	381.7
AIC (smaller is better)	385.7
AICC (smaller is better)	385.7
BIC (smaller is better)	401.0

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Gradient
a	0.000063	0.000017	15E3	3.64	0.0003	0.05	0.000029	0.000096	0.015198
b	0.5328	0.3199	15E3	1.67	0.0959	0.05	-0.09436	1.1599	1.936E-6

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

*Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.02285	0.006281	15E3	3.64	0.0003	0.05	0.01054	0.03516
Shutdown Effect	-0.4672	0.3199	15E3	-1.46	0.1442	0.05	-1.0944	0.1599

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.GOEARTHA4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	397.7
AIC (smaller is better)	401.7
AICC (smaller is better)	401.7
BIC (smaller is better)	416.9

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Gradient
a	0.000538	0.000152	15E3	3.54	0.0004	0.05	0.000240	0.000835	-0.01653
b	0.7631	0.4335	15E3	1.76	0.0784	0.05	-0.08662	1.6128	7.653E-6

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

*Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	0.1963	0.05540	15E3	3.54	0.0004	0.05	0.08773	0.3049
Shutdown Effect	-0.2369	0.4335	15E3	-0.55	0.5848	0.05	-1.0866	0.6128

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.GOEARTHA5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	283.0
AIC (smaller is better)	287.0
AICC (smaller is better)	287.0
BIC (smaller is better)	298.2

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Gradient
a	0.000062	0.000017	1992	3.63	0.0003	0.05	0.000029	0.000096	0.006391
b	0.5359	0.3217	1992	1.67	0.0959	0.05	-0.09495	1.1667	2.097E-6

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

*Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.02280	0.006280	1992	3.63	0.0003	0.05	0.01049	0.03512
Shutdown Effect	-0.4641	0.3217	1992	-1.44	0.1492	0.05	-1.0950	0.1667

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.GOEARTHA5
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	1992
Observations Not Used	0
Total Observations	1992
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	299.0
AIC (smaller is better)	303.0
AICC (smaller is better)	303.0
BIC (smaller is better)	314.2

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Gradient
a	0.000537	0.000152	1992	3.54	0.0004	0.05	0.000239	0.000834	0.084394
b	0.7677	0.4358	1992	1.76	0.0783	0.05	-0.08691	1.6223	-0.00015

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

*Mean Fatalities per MW per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.*

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/MW/Yr	0.1959	0.05537	1992	3.54	0.0004	0.05	0.08731	0.3045
Shutdown Effect	-0.2323	0.4358	1992	-0.53	0.5940	0.05	-1.0869	0.6223

'a' represents mean fatality/MW/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

The NLMIXED Procedure

Specifications	
Data Set	WORK.COMBINED4
Dependent Variable	count
Distribution for Dependent Variable	Poisson
Optimization Technique	Dual Quasi-Newton
Integration Method	None

Dimensions	
Observations Used	15092
Observations Not Used	0
Total Observations	15092
Parameters	2

NOTE: GCONV convergence criterion satisfied.

Fit Statistics	
-2 Log Likelihood	406.6
AIC (smaller is better)	410.6
AICC (smaller is better)	410.6
BIC (smaller is better)	425.8

Parameter Estimates									
Parameter	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Gradient
a	0.000238	0.000057	15E3	4.15	<.0001	0.05	0.000126	0.000351	-0.12217
b	0.6150	0.2711	15E3	2.27	0.0233	0.05	0.08356	1.1464	-0.00003

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas

**Mean Fatalities per TURBINE per Year (extrapolated from wintertime rate)
and Shutdown Effect in terms of percent change with t-test and p-value.**

parameter	Estimate	StandardError	DF	tValue	Probt	Alpha	Lower	Upper
Mean/TURBINE/Yr	0.08690	0.02095	15E3	4.15	<.0001	0.05	0.04583	0.1280
Shutdown Effect	-0.3850	0.2711	15E3	-1.42	0.1556	0.05	-0.9164	0.1464

'a' represents mean fatality/TURBINE/day when turbines are operating.

'b' represents shutdown effect. Effect is (1-b)x100%

output from c:\altamont\m\analyses\12sep07\analyze 11SEP07.sas