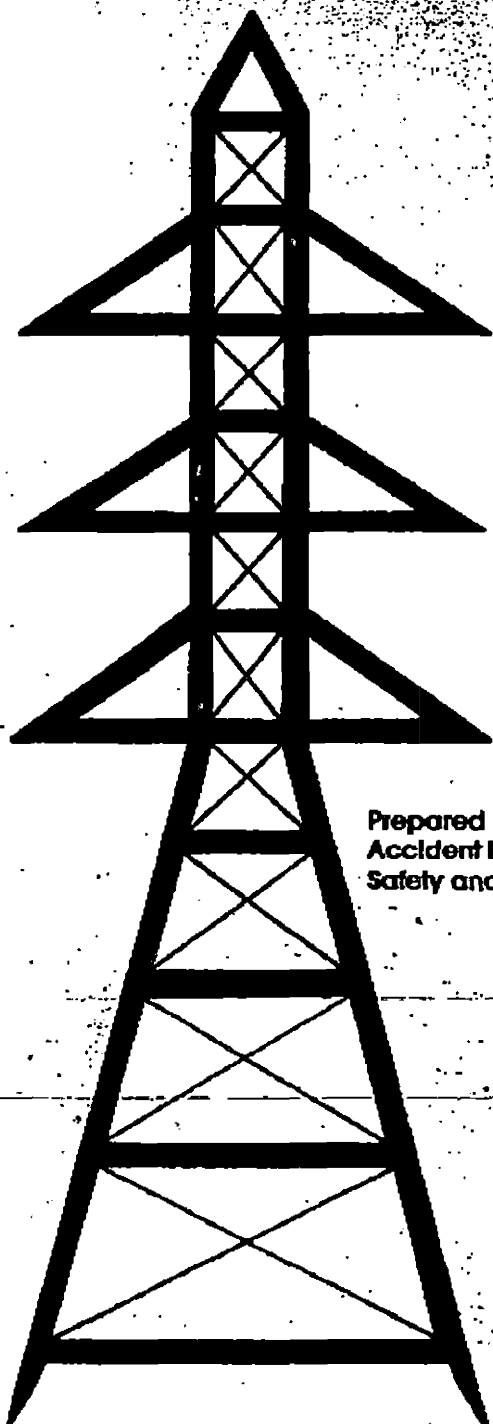

EDISON ELECTRIC INSTITUTE

The association of electric companies

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Employee Injury Experience of the Electric Utility Industry for 1978

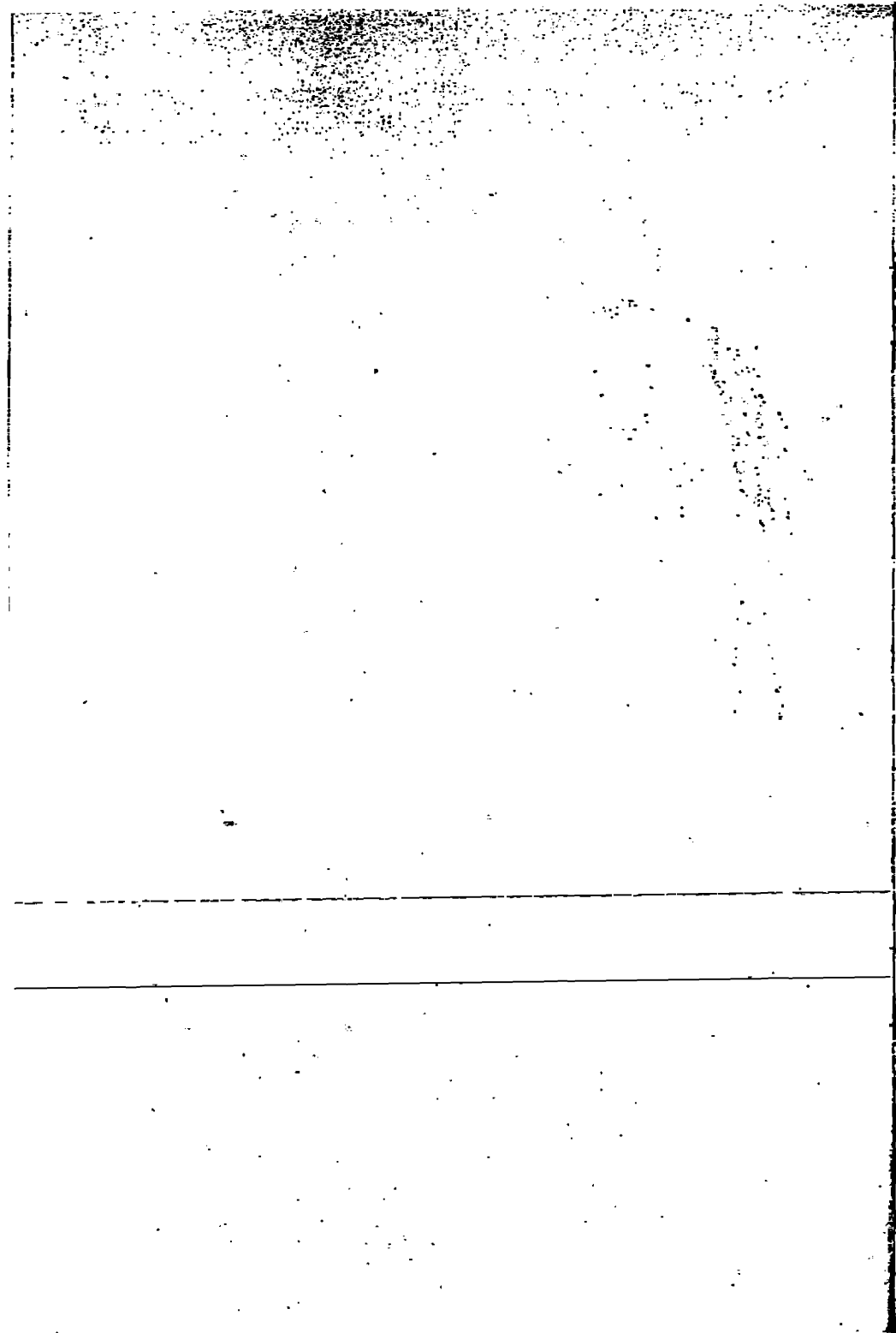
Prepared by the
Accident Data Subcommittee of the
Safety and Industrial Health Committee

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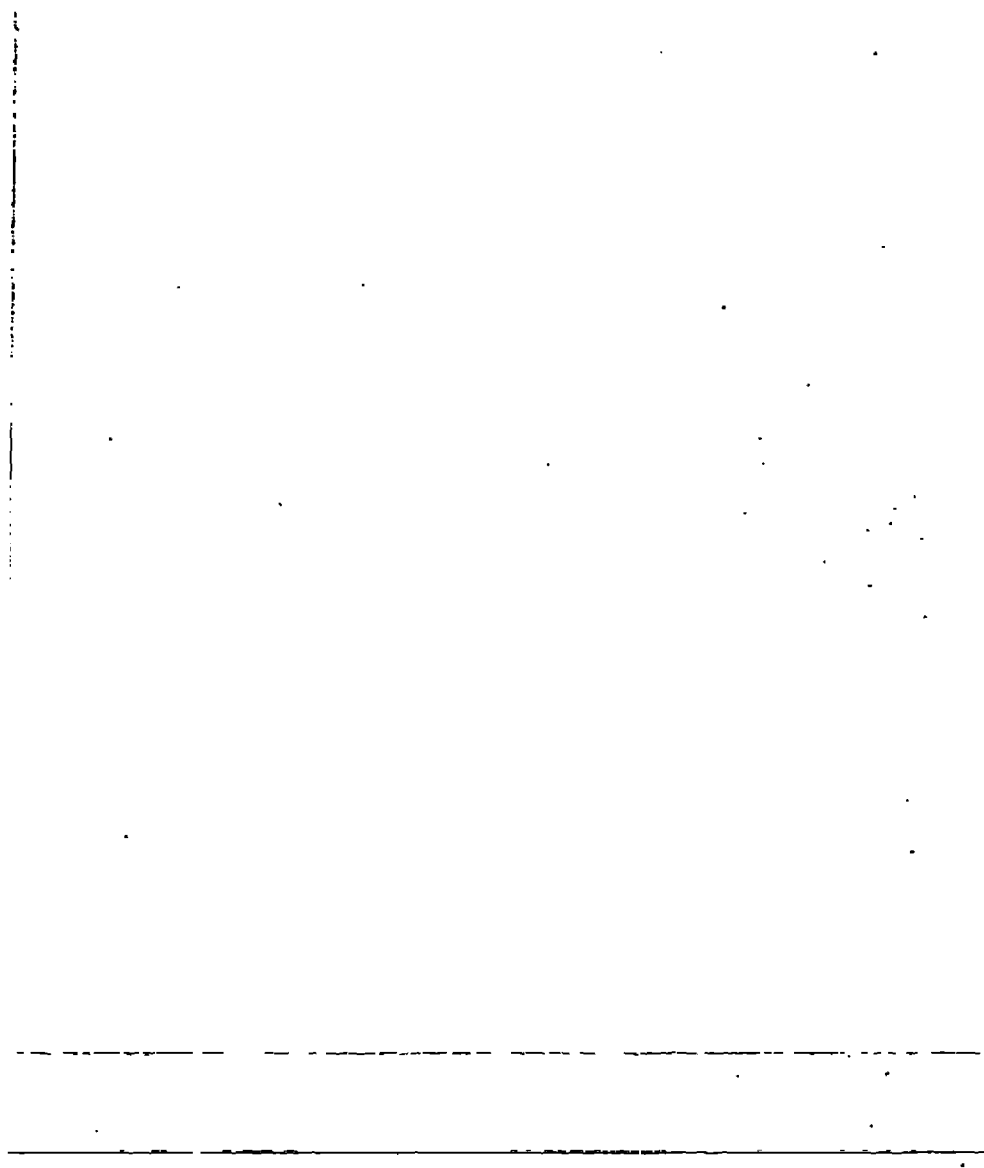
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Preface

Data for the 1978 Employee Injury Experience of the Electric Utility Industry were obtained from statistical reports submitted by 128 electric utility companies.

The 128 companies reporting in 1978 were 58 less than the 186 companies reporting in 1977. The total number of employees, the hours of exposure and the number of fatalities were lower in 1978 than in 1977.

The Accident Data Subcommittee of the Safety and Industrial Health Committee is reviewing the reporting procedures with member companies. This work is being done to provide a reporting method which will solicit accurate employee injury data.

The data submitted for each company and not printed in the booklet includes the total lost day cases, the days of restricted work activity and the terminations or permanent transfers.

Rather than comparing the severity rate between years, as was done in the past, a comparison is shown of the incidence rate and the fatality incidence rate of the 1977 and 1978 reporting companies. The incidence rate was calculated by using the formula of total cases or fatalities times (x) 200,000, divided by the total number of man-hours worked. This method is in compliance with the OSHA reporting system.

It is emphasized that this publication cannot relate the entire industry's employee injury experience. The number of companies reporting data has been steadily decreasing over the past years. A total industry picture cannot be illustrated by reports from 128 electric utility companies.

We restate the fact that no price can be placed upon a human life or crippling accident. A zero accident rate is a goal well worth pursuing.

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Incidence Rate Comparison For All Reporting Companies 1977 and 1978

	1977	1978
Number of Companies	186	128
Number of Employees	455,597	369,294
Hours of Exposure	897,989,330	730,989,065
Total Cases	35,559	27,525
Average Incidence Rate (total cases)	7.92	7.53

Fatality Incidence Rate 1977 and 1978 By Size of Company

Group	Number of Employees	Hours Exposure 1977	Hours Exposure 1978	Fatalities 1977	Fatalities 1978	Fatality Incd. Rate '77	Fatality Incd. Rate '78
1	5,000 or more	497,393,527	381,928,079	33	26	.0132	.0136
2	2,000-5,000	252,307,496	231,557,936	25	17	.019	.014
3	1,000-1,999	91,238,884	80,020,912	8	8	.0175	.0199
4	500-999	31,016,323	26,544,537	8	6	.051	.045
5	100-499	24,408,522	10,608,921	4	1	.032	.018
6	Less than 100	1,523,278	328,680	0	0	-	-

Electric Utility Companies Summary of 1978 Injury Statistics covering electric operations as reported by 128 companies

Group No.	Hours of Exposure	Average No. of Employees	Total Cases (Incl. Rest Day Cases)	No. of Fatalities	Cases Involving Days Away Fr Work	No. Days Away Fr Work	Medl Cases Without Lost Wk Dys	Cases with dys Away Fr Work (incl Incl. Ptl.)	Avg. Incd. Rate all Cases
1	381,928,079	192,910	15,515	26	3,561	76,264	9,102	1.86	2.88
2	231,557,936	116,920	7,627	17	1,988	38,719	4,462	1.71	6.58
3	80,020,912	40,388	2,678	8	1,183	24,023	1,212	2.95	6.69
4	26,544,537	13,531	1,149	6	451	7,494	676	3.39	8.65
5	10,608,921	5,368	545	1	186	3,754	366	3.50	10.27
6	328,680	177	11	0	5	211	5	3.04	6.99
All	730,989,065	369,294	27,525	58*	7,374	150,465	15,823	2.02	7.53

*These companies submitting an annual work injury Statistical Report for 1978 had a total of 58 fatalities, however, from data submitted on ERI Form No. 101, the industry had 65 fatalities in 1978.

Electric Utility Companies **1978 Injury Experience covering** **electric operations as reported by 128 companies**

Group 1—21 companies with more than 5,000 employees

Company No.	Hours of Exposure	Average No. of Employees	Total Cases *	No. of Fatalities
052	22,362,670	17,760	765	1
155	30,453,829	15,676	2,566	2
057	24,483,585	13,755	724	2
226	23,374,614	13,166	588	1
124	23,551,640	11,964	686	2
143	22,267,046	11,366	704	0
069	20,424,220	10,749	296	3
237	18,745,630	9,772	930	2
194	18,576,155	9,752	2,021	2
178	21,637,738	9,432	1,248	1
178	18,225,373	7,930	937	1
351	13,635,311	7,356	367	3
160	12,111,323	7,040	531	0
134	17,566,827	7,015	320	1
157	14,880,469	6,955	655	1
222	11,531,649	5,553	367	4
127	11,517,170	5,689	234	0
029	10,831,550	5,671	133	1
249	10,085,927	5,410	196	0
152	11,400,000	5,400	162	0
175	10,267,103	5,384	687	2
GROUP TOTALS	281,521,079	152,510	25,515	26

* INCLUDES RESTRICTED DAY CASES - FOR ALL GROUPS

**DOES NOT INCLUDE FATALITIES - FOR ALL GROUPS

Cases Involving Days Away from Work	No. Days Away from Work	Medical Cases without Lost Work Days	Incident Rate Cases with Days Away From Work**	Incident Rate All Cases
231	9,204	498	1.38	4.59
103	3,196	1,544	0.68	16.85
251	9,979	372	2.91	5.80
377	8,528	232	2.63	8.45
58	2,014	578	0.49	5.82
176	3,724	340	1.58	6.32
174	2,586	116	1.70	2.89
40	2,171	299	0.42	9.68
88	3,967	1,933	0.92	21.30
141	4,176	939	1.30	11.54
111	3,042	699	1.22	10.28
101	1,378	248	1.46	5.59
392	4,869	139	5.97	8.09
303	5,028	2	3.37	3.56
536	5,010	103	7.20	8.89
74	934	254	1.24	6.15
24	601	148	0.41	4.04
9	270	115	0.17	2.46
75	2,241	79	1.48	3.88
88	1,267	70	1.54	2.84
279	3,099	394	5.43	13.38
3,561	76,264	9,102	Average 1.56-Incidence-2.88 Rate	

Electric Utility Companies **1978 Injury Experience covering** **electric operations as reported by 128 companies**

Group 2—35 companies with 2,000 to 5,000 employees

Company No.	Hours of Exposure	Average No. of Employees	Total Cases	No. of Fatalities
179	5,885,965	4,975	176	0
088	5,502,340	4,875	503	0
086	5,521,451	4,835	394	0
247	5,245,640	4,828	217	2
203	5,652,560	4,572	242	1
267	6,557,065	4,322	505	0
003	6,216,950	4,200	208	0
067	6,021,620	4,052	120	2
156	7,701,755	4,050	221	1
191	7,181,600	3,937	236	0
138	7,124,521	3,774	166	0
233	8,468,356	3,774	750	0
105	6,141,807	3,750	203	1
047	6,786,635	3,643	253	1
184	7,227,455	3,630	394	0
031	7,221,000	3,610	204	1
087	7,716,665	3,522	92	1
160	6,650,251	3,478	39	0
132	6,350,850	3,330	291	0
070	6,215,881	3,300	93	1
173	5,536,645	3,053	100	1
208	5,561,820	2,809	327	1
040	5,420,415	2,737	218	1
077	5,172,157	2,652	130	0
157	5,685,088	2,642	69	0
109	4,800,820	2,458	219	0
145	4,702,014	2,458	117	1
051	4,642,005	2,345	106	0
240	4,195,453	2,267	113	1
059	4,502,664	2,246	54	0
161	4,476,032	2,241	112	0
211	4,331,842	2,200	65	1
002	4,005,854	2,174	78	0
235	4,352,560	2,143	272	0
155	4,246,226	2,050	208	0
GROUP TOTALS	231,557,526	116,520	7,627	17

Cases Involving Days Away from Work	No. Days Away from Work	Medical Cases without Lost Work Days	Incident Rate Cases with Days Away From Work**	Incident Rate All Cases
84	1,565	74	1.69	3.56
228	2,416	165	4.79	10.58
68	940	326	1.43	8.27
61	1,911	4	1.33	4.64
33	1,174	155	0.73	5.35
62	1,112	359	1.45	11.80
26	676	86	0.63	5.00
21	244	105	0.52	3.19
73	1,259	147	1.89	5.74
89	2,114	50	2.48	6.57
14	363	98	0.39	4.65
136	3,552	614	3.21	17.71
109	1,784	93	2.68	4.99
30	362	143	0.88	7.46
150	2,922	139	4.15	10.90
99	1,804	104	2.74	5.65
32	237	59	0.83	2.38
9	578	25	0.27	1.17
87	2,164	204	2.74	9.16
8	387	70	0.26	2.99
55	549	44	1.85	3.37
51	1,015	214	1.83	11.75
57	932	121	2.10	8.04
11	189	118	0.43	5.03
16	295	52	0.63	2.71
111	1,667	108	4.67	9.12
37	920	79	1.57	4.98
17	777	75	0.73	7.15
18	685	95	0.75	4.71
20	764	25	0.62	2.20
24	854	78	1.07	5.00
39	332	25	1.80	3.19
35	927	39	1.71	3.82
59	979	213	2.68	12.38
19	530	156	0.89	12.62
1,988	38,719	4,462	1.71 -Average Incidence- Rate	8.58

Electric Utility Companies **1978 Injury Experience covering** **electric operations as reported by 128 companies**

Group 3—29 companies with 1,000 to 1,999 employees

Company No.	Hours of Exposure	Average No. of Employees	Total Cases	No. of Fatalities
129	3,775,156	1,989	83	0
036	3,920,250	1,029	17	0
119	3,202,355	1,759	70	1
028	3,266,358	1,758	83	0
100	3,556,349	1,746	104	0
049	3,416,824	1,756	77	0
102	3,044,628	1,638	121	0
010	3,112,540	1,661	28	1
230	3,315,849	1,564	48	0
147	3,046,149	1,551	121	0
059	2,874,183	1,500	265	0
065	2,867,261	1,410	110	2
189	2,554,915	1,389	181	1
007	2,678,145	1,345	109	0
147	2,825,577	1,312	87	1
177	2,442,010	1,339	63	0
082	2,620,564	1,337	52	0
209	2,316,503	1,231	185	0
148	2,345,240	1,216	92	0
012	2,432,856	1,210	28	0
059	2,255,346	1,200	180	0
231	2,150,654	1,156	62	1
042	2,294,985	1,165	105	0
131	2,540,925	1,150	90	0
133	2,307,067	1,140	79	1
041	2,115,550	1,071	53	0
049	2,218,777	1,065	27	0
200	2,548,442	1,047	50	0
176	1,854,554	1,030	158	0
GROUP TOTALS	80,020,912	40,388	2,670	8

Cases Involving Days Away from Work	No. Days Away from Work	Medical Cases without Lost Work Days	Incident Rate Cases with Days Away From Work**	Incident Rate All Cases
26	608	56	1.38	4.39
5	122	12	0.26	0.87
35	838	24	2.18	4.37
49	1,328	34	3.00	5.08
33	492	65	1.45	5.84
43	1,321	29	2.51	4.50
73	836	48	4.77	7.90
15	6,783	11	0.96	1.50
32	638	16	1.93	2.90
43	576	74	2.82	7.94
128	1,402	96	8.90	18.44
42	452	34	2.92	7.67
99	1,146	81	7.75	14.16
10	147	91	0.75	8.14
24	227	57	1.69	6.15
53	253	10	4.34	5.16
16	352	28	1.22	3.97
131	1,551	52	11.30	15.96
6	109	86	0.51	7.83
16	436	12	1.32	2.30
108	1,310	36	9.39	15.66
24	215	37	2.23	5.77
1	8	79	0.99	9.15
7	415	10	0.55	7.08
44	520	21	3.81	6.84
29	248	20	2.74	5.00
7	430	20	0.63	2.43
18	448	32	1.41	3.92
66	1,112	41	6.96	11.40
1,183	24,023	1,212	Average 2.95 - Incidence - 6.69 Rate	

Electric Utility Companies **1978 Injury Experience covering** **electric operations as reported by 128 companies**

Group 4—19 companies with 500 to 999 employees

Company No.	Hours of Exposure	Average No. of Employees	Total Cases	No. of Fatalities
346	1,811,871	985	62	0
266	1,571,719	885	38	0
663	1,869,749	879	57	0
043	1,852,247	862	188	1
328	1,540,770	827	5	0
057	1,816,079	820	73	1
176	1,463,570	750	78	0
234	1,431,800	793	96	1
081	1,553,854	783	102	0
188	1,510,552	757	23	0
264	1,356,744	714	21	0
239	1,095,556	608	57	1
106	1,261,981	588	45	1
255	1,187,809	569	91	1
017	1,200,725	554	51	0
223	1,241,520	554	37	1
156	1,101,149	521	32	1
167	1,062,878	520	63	0
112	584,954	516	37	1
GROUP TOTALS	26,244,527	13,521	1,145	6

Cases Involving Days Away from Work	No. Days Away from Work	Medical Cases without Lost Work Days	Incident Rate Cases with Days Away From Work**	Incident Rate All Cases
36	225	26	3.77	6.84
28	553	15	3.56	4.93
20	482	36	2.21	6.30
53	625	134	5.60	17.87
3	10	2	0.39	0.65
5	62	65	0.62	8.66
46	742	31	6.28	10.66
62	795	33	7.58	11.73
16	156	83	2.06	13.13
8	142	15	1.76	3.05
2	184	15	0.29	3.91
9	228	47	1.64	10.40
11	217	33	1.73	7.11
59	902	31	9.94	15.16
12	347	38	2.40	10.19
14	274	22	2.69	7.10
23	404	9	4.18	5.81
10	347	44	1.98	11.29
34	719	2	6.30	7.51
451	7,494	676	Average 3.39-Incidence-8.65 Rate	

Electric Utility Companies 1978 Injury Experience covering electric operations as reported by 128 companies

Group 5—21 companies with 100 to 499 employees

Company No.	Hours of Exposure	Average No. of Employees	Total Cases *	No. of Fatalities
300	572,222	498	151	0
181	750,879	416	43	0
136	626,741	382	22	0
202	784,255	364	37	0
301	670,900	363	0	0
254	730,374	356	36	0
107	732,526	353	57	0
164	566,215	312	20	0
053	650,333	309	25	0
036	581,809	269	32	0
181	463,231	256	28	0
244	403,498	215	21	0
069	360,505	182	6	0
260	332,740	175	0	1
035	254,626	166	17	0
008	315,844	158	7	0
302	265,063	142	6	0
128	246,680	121	5	0
141	219,950	117	13	0
205	214,820	108	13	0
301	210,000	103	0	0
GROUP TOTALS	10,606,521	5,368	545	1

Group 6—3 companies with 0 to 99 employees

022	157,053	82	7	0
114	135,100	76	4	0
276	21,850	17	0	0
GROUP TOTALS	326,250	177	11	0

Cases Involving Days Away from Work	No. Days Away from Work	Medical Cases without Lost Work Days	Incident Rate Cases with Days Away From Work**	Incident Rate All Cases
25	77	135	5.14	31.76
24	821	19	6.79	11.45
2	26	20	3.48	5.32
12	523	25	3.76	9.44
6	0	0	0.00	0.00
23	312	13	6.29	9.55
26	594	31	7.09	15.56
13	98	7	4.57	7.03
7	73	18	2.15	7.69
3	39	29	1.73	11.00
16	723	12	6.91	12.39
8	21	13	3.96	17.40
0	0	5	0.00	3.33
4	21	1	2.40	3.61
6	75	11	3.94	11.16
4	73	3	2.53	4.43
6	78	0	4.46	4.46
1	85	4	7.80	4.92
4	54	9	3.67	11.93
2	4	11	1.86	12.10
0	0	0	0.00	0.00
186	3,754	366	Average 3.50 Incidence Rate	10.27

3	106	4	3.90	8.88
2	105	2	2.97	5.75
0	0	0	0.00	0.00
5	211	5	Average 3.74 Incidence Rate	6.69