



Edison Electric  
INSTITUTE

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2023

▪ CONTRACTOR SAFETY SURVEY ▪  
▪ BENCHMARKING STUDY ▪  
▪ SUMMARY REPORT ▪

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NOVEMBER 2023

*Data as of December 31, 2022*

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## DESCRIPTION OF THE SURVEY

This report is the fourth EEI Contractor Safety Survey. The Survey was produced as part of EEI's Occupational Safety and Health Committee and advised through a task force of energy company representatives and key industry contractor stakeholders. It was created to serve as an industry benchmarking tool to measure and improve contractor safety management practices and contractor safety performance.

Data collected consists of contractor safety event data and energy company safety management practices. Appendix B Definitions provides references upon which responses were based. All data was broken out into Total Company, Generation, Transmission and Distribution (T & D), and Vegetation. All sections were optional. The number of responses to each section varied, but the total number of organizations participating in this-year's survey was 33. A PDF copy of the questions and data points requested on the Survey can be found on the EEI eSafetyLine site ([www.esafetyline.net/eei](http://www.esafetyline.net/eei)) on the Contractor pages.

## DESCRIPTION OF THE SUMMARY REPORT

The EEI Safety Survey Summary Report has been developed to provide an overview of the data contained in the survey. The report provides a summary of Serious Injury and Fatality (SIF) data, OSHA rates, and survey trends. Additional detailed data is available through online reports and/or downloadable files.

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## BENCHMARKING RESPONSES

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The benchmark questions included six contractor safety management areas: prequalification, pre-job task & risk assessment, regulatory, training & orientation, monitoring of job, post-job evaluation.  
All areas and questions were optional.

## WHO PERFORMS YOUR PREQUALIFICATION?

	Frequency	Percent		
<b>Both Internal and External Resources</b>	<b>13</b>	<b>50%</b>		
External	6	23%		
Other*	5	19%		
Internal	2	8%		
<b>TOTAL</b>	<b>26</b>			

## WHICH OF THE FOLLOWING LAGGING INDICATORS ARE TYPICALLY USED IN YOUR PREQUALIFICATION RATING SYSTEM?

	Frequency	Percent		
TRIR	24	96%		
OSHA Citation History	22	88%		
EMR	22	88%		
DART	17	68%		
Other*	9	36%		
LWDCR	8	32%		
SIIR	7	28%		
Severity Rate	6	24%		
<b>TOTAL</b>	<b>115</b>			

\*Other responses provided in the electronic file provided with this report.

**WHICH OF THE FOLLOWING LEADING INDICATORS ARE TYPICALLY USED IN YOUR PREQUALIFICATION RATING SYSTEM?**

	Frequency	Percent		
Safety Management Program Assessment	20	80%		
OSHA Required Written Programs Assessment	19	76%		
Monitoring / Observation Program Assessment	13	52%		
Other*	7	28%		
Training Matrix Assessment	6	24%		
<b>TOTAL</b>	<b>75</b>			

**WHAT WEIGHTS ARE TYPICALLY ASSIGNED TO LAGGING INDICATORS IN YOUR RATING SYSTEM?**

	Frequency	Percent			
0	1	5.3%			
30	1	5.3%			
40	2	10.5%			
45	4	21.1%			
50	4	21.1%			
60	2	10.5%			
70	2	10.5%			
75	1	5.3%			
80	1	5.3%			
100	1	5.3%			
<b>TOTAL</b>	<b>19</b>				

\*Other responses provided in the electronic file provided with this report.

**WHAT WEIGHTS ARE TYPICALLY ASSIGNED TO LEADING INDICATORS IN YOUR RATING SYSTEM?**

	Frequency	Percent
0	1	5.3%
20	1	5.3%
25	1	5.3%
30	2	10.5%
40	3	15.8%
50	4	21.1%
55	4	21.1%
60	2	10.5%
100	1	5.3%
<b>TOTAL</b>	<b>19</b>	

**DO YOU VARY THE PREQUALIFICATION REQUIREMENTS FOR YOUR CONTRACTORS BASED ON ANY OF THE FOLLOWING?**

	Frequency	Percent
Work Classification and/or Risk Level	17	81%
Size of Contractor (e.g. no. of employees)	7	33%
Prequalification Status	9	43%
Other*	6	29%
Contractor Safety History	7	33%
Project Cost	3	14%
<b>TOTAL</b>	<b>49</b>	

\*Other responses provided in the electronic file provided with this report.



**ARE SUBCONTRACTORS REQUIRED TO GO THROUGH YOUR COMPANY'S PREQUALIFICATION PROGRAM?**

	Frequency	Percent			
Almost Always	5	20%			
Almost Never	4	16%			
Always	9	36%			
Never	5	20%			
Occasionally/Sometimes	2	8%			
<b>TOTAL</b>	<b>25</b>				

**DO YOU HAVE A SYSTEM THAT ALLOWS CONTRACTORS WHO DO NOT MEET PREQUALIFICATION REQUIREMENTS TO CORRECT DEFICIENCIES?**

	Frequency	Percent			
No	2	8%			
Yes	23	92%			
<b>TOTAL</b>	<b>25</b>				

**DO YOU REQUIRE CONTRACTORS TO SUBMIT ADDITIONAL SAFETY PLANS FOR PERFORMING HIGH RISK JOBS?**

	Frequency	Percent			
No	2	8%			
Yes	23	92%			
<b>TOTAL</b>	<b>25</b>				

### DO YOU REQUIRE JSAS FOR HIGH-RISK JOBS?

	Frequency	Percent			
No	5	20%			
Yes	20	80%			
<b>TOTAL</b>	<b>25</b>				

### HOW MUST YOUR CONTRACTORS ADVISE YOU OF UNIQUE HAZARDOUS CONDITIONS PRESENTED BY THEIR WORK?

	Frequency	Percent			
Verbally	16	84%			
Written or Electronic Submission	16	84%			
In-person Meeting	13	68%			
Not Specified / Any Method is Acceptable	3	16%			
Other*	3	16%			
<b>TOTAL</b>	<b>51</b>				

\*Other responses provided in the electronic file provided with this report.

**HOW MUST YOUR CONTRACTORS ADVISE YOU OF ANY UNANTICIPATED HAZARDOUS CONDITIONS FOUND DURING THEIR WORK?**

	Frequency	Percent			
Verbally	15	60%			
Written or Electronic Submission	15	60%			
In-person Meeting	9	36%			
Not Specified / Any method is Acceptable	9	36%			
Other*	3	12%			
<b>TOTAL</b>	<b>51</b>				

**HOW DO YOU COMMUNICATE ANY REQUIREMENTS UNDER "INFORMATION TRANSFER" 1910.269(A)(3) AND 1926.950(C)?**

	Frequency	Percent			
Written or Electronic Submission	20	80%			
Verbally	12	48%			
In-person Meeting	11	44%			
Not Specified / Any Method is Acceptable	4	16%			
Other*	1	4%			
<b>TOTAL</b>	<b>48</b>				

\*Other responses provided in the electronic file provided with this report.

### HOW DO YOU DOCUMENT INFORMATION TRANSFER?

	Frequency	Percent		
Emails or Other Communication Media Serve as Documentation	14	56%		
Transfer is Noted in Work Plans	13	52%		
A Separate Written Record is Maintained	10	40%		
Other*	5	20%		
<b>TOTAL</b>	<b>42</b>			

### FOR WHAT BUSINESS UNITS DO YOU PROVIDE CONTRACTOR SAFETY ORIENTATION?

	Frequency	Percent		
Generation	18	75%		
Transmission	20	83%		
Vegetation Management	17	71%		
Distribution	19	79%		
Other*	6	25%		
<b>TOTAL</b>	<b>104</b>			

\*Other responses provided in the electronic file provided with this report.

### HOW IS CONTRACTOR SAFETY ORIENTATION TRACKED?

	Frequency	Percent		
Electronic Records	21	88%		
Paper Records	12	50%		
Har Hat Sticker	11	46%		
Contractor Badge/Card/ID	10	42%		
Wallet Card	1	4%		
Other*	1	4%		
<b>TOTAL</b>	<b>56</b>			

### AT WHAT FREQUENCY DO YOU REQUIRE CONTRACTOR SAFETY ORIENTATION?

	Frequency	Percent		
Annually	14	56%		
Other*	8	32%		
One Time Only	3	12%		
<b>TOTAL</b>	<b>25</b>			

\*Other responses provided in the electronic file provided with this report.

**DO YOU PROVIDE A SEPARATE OR DIFFERENT CONTRACTOR SAFETY ORIENTATION FOR STORM RESPONSE CONTRACTORS?**

	Frequency	Percent			
N/A	5	20%			
No	4	16%			
Yes	16	64%			
<b>TOTAL</b>	<b>25</b>				

**DO YOU PROVIDE SAFETY TRAINING (NOT ORIENTATION) FOR CONTRACTORS ON ANY SUBJECTS?**

	Frequency	Percent			
No Response	1	4%			
No	16	64%			
Yes	8	32%			
<b>TOTAL</b>	<b>25</b>				

### OPEN ENDED ON WHAT TOPICS?

	Frequency	Percent			
No Repsonse	18	72%			
LMS Inside ISN for Scope Specific Work	1	4%			
Sub-Station Entry Training Manual of Operations (MOP) Training	1	4%			
Substation Awareness	1	4%			
Substation Entry T&D General Orders	1	4%			
Switching and Tagging / LOTO / Hazardous Energy Control, High Risk Work Procedures	1	4%			
Transmission Switching Clearance Process	1	4%			
Utility Specific	1	4%			
<b>TOTAL</b>	<b>25</b>				

**ARE THERE ADDITIONAL SAFETY TRAINING REQUIREMENTS FOR BILINGUAL WORK CREWS?**

	Frequency	Percent			
No Response	1	4%			
No	20	80%			
Yes	4	16%			
<b>TOTAL</b>	<b>25</b>				

**DO YOU CONDUCT A CONTRACTOR SAFETY SUMMIT FOR CONTRACTOR NETWORKING AND COMMUNICATION OF SAFETY EXPECTATIONS?**

	Frequency	Percent			
No	5	20%			
Yes	20	80%			
<b>TOTAL</b>	<b>25</b>				

**DO YOU VERIFY CONTRACTOR EMPLOYEE TRAINING?**

	Frequency	Percent			
Almost Always	4	16%			
Almost Never	1	4%			
Always	6	24%			
Never	0	0%			
Occasionally / Sometimes	14	56%			
<b>TOTAL</b>	<b>25</b>				



## HOW DO YOU VERIFY TRAINING?

	Frequency	Percent		
Contractor Provides Employee Training Certificates	19	76%		
Contractor Provides Employee Training Rosters	18	72%		
Other*	7	28%		
Contractor Employees Complete Test(s) Required by Utility	5	20%		
Contractor provides completed tests	3	12%		
<b>TOTAL</b>	<b>52</b>			

## DO YOU REQUIRE CONTRACTORS TO PERFORM PERIODIC ASSESSMENTS FOR THE FOLLOWING? (SAFETY OBSERVATIONS)

	Frequency	Percent		
Weekly	8	32%		
Weekly, Monthly	1	4%		
Weekly, Monthly, Other Frequency	1	4%		
Weekly, Monthly, Quarterly	1	4%		
Monthly	3	12%		
Other Frequency	5	20%		
Not Required	6	24%		
<b>TOTAL</b>	<b>25</b>			

\*Other responses provided in the electronic file provided with this report.

**DO YOU REQUIRE CONTRACTORS TO PERFORM PERIODIC ASSESSMENTS FOR THE FOLLOWING? (JOBSITE INSPECTIONS)**

	Frequency	Percent			
No Response	1	4%			
Weekly	10	40%			
Weekly, Monthly, Quarterly	1	4%			
Monthly	3	12%			
Other Frequency	6	24%			
Not Required	4	16%			
<b>TOTAL</b>	<b>25</b>				

**DO YOU REQUIRE CONTRACTORS TO PERFORM PERIODIC ASSESSMENTS FOR THE FOLLOWING? (CORRECTIVE ACTIONS COMPLETED)**

	Frequency	Percent			
No Response	1	4%			
Weekly	5	20%			
Weekly, Monthly, Quarterly	1	4%			
Monthly	3	12%			
Monthly, Quarterly	1	4%			
Other Frequency	12	48%			
Not Required	2	8%			
<b>TOTAL</b>	<b>25</b>				

**DO YOU REQUIRE CONTRACTORS TO PERFORM PERIODIC ASSESSMENTS FOR THE FOLLOWING? (OTHER PERIODIC ASSESSMENTS (SPECIFY BELOW))**

	Frequency	Percent		
No Response	11	44%		
Weekly	3	12%		
Weekly, Monthly, Quarterly, Other Frequency	1	4%		
Monthly	2	8%		
Other Frequency	5	20%		
Not Required	3	12%		
<b>TOTAL</b>	<b>25</b>			

**FOR WHICH OF THE FOLLOWING DO YOU REQUIRE CONTRACTORS TO SUBMIT SAFETY REPORTS TO YOU?**

	Frequency	Percent		
Accident	25	100%		
OSHA Fatality Cases	25	88%		
OSHA Days Away Cases	25	88%		
OSHA Restricted or Transferred Cases	25	88%		
Corrective Action Plans	24	88%		
OSHA Other Recordable Cases	24	83%		
Near Miss Incidents	23	79%		
Inspections and/or Observations	13	67%		
EEI SIF Cases	13	63%		
Job-Briefings	13	50%		
Safety Meetings	9	46%		
Other*	5	29%		
<b>TOTAL</b>	<b>208</b>			

\*Other responses provided in the electronic file provided with this report.

**DO YOU CONDUCT DOCUMENTED CONTRACTOR SAFETY INSPECTIONS?**

	Frequency	Percent			
No	5	20%			
Other: Work observations of contractor safety performance	1	4%			
Yes	19	76%			
<b>TOTAL</b>	<b>25</b>				

**WHAT PERCENTAGE OF COMPANY PRE-JOB BRIEFINGS ARE FOUND TO BE PROPERLY COMPLETED WHEN REVIEWED?**

	Frequency	Percent			
50-75%	4	16%			
Greater than 75%	9	36%			
Number is Unknown or Not Recorded	12	48%			
<b>Total</b>	<b>25</b>				

**WHEN A SERIOUS EVENT OCCURS, WHO INVESTIGATES?**

	Frequency	Percent			
Contractor/Utility Combined	13	52%			
Other*	8	32%			
Utility Conducts Independent Investigation	2	8%			
Contractor Only	2	8%			
<b>TOTAL</b>	<b>25</b>				

\*Other responses provided in the electronic file provided with this report.

**DO POST-JOB EVALUATIONS INCLUDE A REVIEW OF A CONTRACTOR'S ACCIDENT HISTORY FOR THAT PROJECT?**

	Frequency	Percent			
No Response	1	4%			
Almost Always	5	20%			
Almost Never	2	8%			
Always	9	36%			
Never	1	4%			
Occasionally / Sometimes	7	28%			
<b>Total</b>	<b>25</b>				

**DO YOU HAVE A SYSTEM TO MANAGE THE QUALIFICATION OF CONTRACTORS?**

	Frequency	Percent			
No	4	16%			
Yes	21	84%			
<b>TOTAL</b>	<b>25</b>				

**DOES THE SYSTEM TO MANAGE THE REQUALIFICATION OF CONTRACTORS INCLUDE ANY OF THE FOLLOWING?**

	Frequency	Percent			
Mandating a Remedial Program Before Being Allowed Back on Property	12	75%			
Banning Contractors with Poor Performance	11	69%			
Repeating the Original Prequalification Process	9	56%			
Other*	3	19%			
<b>TOTAL</b>	<b>35</b>				

\*Other responses provided in the electronic file provided with this report.

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## OSHA INJURY AND ILLNESS AND NEAR MISS/FIRST AID DATA

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## TOTAL COMPANY - OSHA CASES AND OTHER INJURY/POTENTIAL INJURY CASES

Codes	Total Number of Hours	Deaths	Near Miss/ Good Catch Cases	First Aid Cases	Away, Restricted Transferred Cases	Days Away Cases	Job Transfer or Restriction Cases	Other Recordable Cases (medical cases)	Total Cases	Lost Work Cases	Near Miss/ Good Catch Case Rate	First Aid Case Rate	Total Recordable Incidence Rate	DART Incidence Rate	Lost Work Day Case Rate
3	19963019	1	165	55	26	17	9	18	45	18	1.65	0.55	0.45	0.26	0.18
4	11334991	2			21	4	17	27	50	6	0.00	0.00	0.88	0.37	0.11
5	10302943	0	1796	49	28	11	17	49	77	11	34.86	0.95	1.49	0.54	0.21
6	18762474	0	1203	90	16	10	6	33	49	10	12.82	0.96	0.52	0.17	0.11
7	575247	0	0	2	1	0	1	1	2	0	0.00	0.70	0.70	0.35	0.00
8	4562050	0	51	10	3	2	1	7	10	2	2.24	0.44	0.44	0.13	0.09
10	8240223	1			17	15	2	25	43	16	0.00	0.00	1.04	0.41	0.39
13	33807230	1	12797	222	76	52	24	85	162	53	75.71	1.31	0.96	0.45	0.00
17	6724839	0			1	1	0	19	20	1	0.00	0.00	0.59	0.03	0.03
20	7897505	0	146	32	21	7	14	11	32	7	3.70	0.81	0.81	0.53	0.18
22	7861407	1	7	9	9	6	3	12	22	7	0.18	0.23	0.56	0.23	0.18
29	2092873	0	25	4	4	1	3	7	11	1	2.39	0.38	1.05	0.38	0.10
33	1218024	0			5	5	0	2	7	5	0.00	0.00	1.15	0.82	0.82
38	8809896	0	61	67	26	13	13	18	44	13	1.38	1.52	1.00	0.59	0.30
39	13916052	1	1866	61	11	6	5	22	34	7	26.82	0.88	0.49	0.16	0.10
40	2061942326	4			6,271	3182	3089	3932	10,207	3,186	0.00	0.00	0.99	0.61	0.31
46	8280369	1	58	39	10	8	2	16	27	9	1.40	0.94	0.65	0.24	0.22
47	15352323	0	15	18	26	10	16	5	31	10	0.20	0.23	0.40	0.34	0.13
51	7838762	0	379	8	6	6	0	16	22	6	9.67	0.20	0.56	0.15	0.15
53	7834129	0	98		10	7	3	7	17	7	2.50	0.00	0.43	0.26	0.18
56	5049700	1	17	10	2	2	0	7	10	3	0.67	0.40	0.40	0.08	0.12
Totals	2,262,366,383	13	18,684	676	6,590	3,365	3,225	4,319	10,922	3,378					
											Peer Group Rate				
											1.65	0.06	0.97	0.58	0.30
											Column Average				
											8.4	0.50	0.74	0.34	0.19

## TOTAL COMPANY - OSHA CASES AND OTHER INJURY/POTENTIAL INJURY CASES

Codes	Exposure (Safety Tier 1 Contractor Hours) REQUIRED	# of Deaths	# of Cases with Days Away from Work	# of Cases with Job Transfer or Restriction	# of Other Recordable Cases	# OSHA First Aid Cases	# Near Miss/Good Catch Cases
3	19963019.21	1	17	9	18	55	165
4	11334991	2	4	17	27		
5	10302943	0	11	17	49	49	1796
6	18762474	0	10	6	33	90	1203
7	575247	0	0	1	1	2	0
8	4562050	0	2	1	7	10	51
10	8240223.48	1	15	2	25		
13	33807230	1	52	24	85	222	12797
17	6724839	0	1	0	19		
20	7897505.22	0	7	14	11	32	146
22	7861407	1	6	3	12	9	7
29	2092872.67	0	1	3	7	4	25
33	1218024.13	0	5	0	2		
38	8809896	0	4	13	18	67	61
39	13916052	1	6	5	22	61	1866
40	2061942326	13	3182	3089	3932		
46	8280369	1	8	2	16	39	58
47	15352323	0	10	16	5	18	15
51	7838762	0	6	0	16	8	379
53	7834129	0	7	3	7		98
56	5049700	1	2	0	7	10	17
Totals	2262366383	22	3356	3225	4319	676	18684
9	0	0	0	1	16		65
16	0	0	9	3	6	6	0
25	0	0			236		
35	0	2	13	5	26	21	192
49	0	0	1	1	3	11	3
55	0	0	0	0	3	4	2



## GENERATION - OSHA CASES AND OTHER INJURY/POTENTIAL INJURY CASES

Codes	Total Number of Hours	Deaths	Near Miss/ Good Catch Cases	First Aid Cases	Away, Restricted Transferred Cases	Days Away Cases	Job Transfer or Restriction Cases	Other Recordable Cases (medical cases)	Total Cases	Lost Work Cases	Near Miss/ Good Catch Case Rate	First Aid Case Rate	Total Recordable Incidence Rate	DART Incidence Rate	Lost Work Day Case Rate	
5	1,144,733	0		8	2	1	1	4	6	1	0.0	1.40	1.05	0.35	0.17	
6	6,824,099	0		58	3	2	1	7	10	2	0.0	1.70	0.29	0.09	0.06	
13	5,085,052	0	2,168	27	6	4	2	11	17	4	85.3	1.06	0.67	0.24	0.16	
35	863,113	1	6	42	2	1	1	2	5	2	1.39	9.73	1.16	0.46	0.46	
40	488,330,697	1			861	426	435	636	1,498	427	0.0	0.00	0.61	0.35	0.17	
47	5,402,095	0			0	0	0	11	11	0	0.0	0.00	0.41	0.00	0.00	
56	560,792	0			0	0	0	1	1	0	0.00	0.00	0.36	0.00	0.00	
Totals	508,210,581	2	2,174	135	874	434	440	672	1,548	436						
												Peer Group Rate				
												0.86	0.05	0.61	0.34	0.17
												Column Average				
												17.3	2.8	0.76	0.30	0.21

Codes	Exposure (Contractor Hours)	# of Deaths	# of cases with days away from work	# of cases with job transfer or restriction	# of other recordable cases	# OSHA First aid cases	# Near miss/good catch cases
5	1144733	0	1	1	4	8	
6	6824099	0	2	1	7	58	
13	5085052	0	4	2	11	27	2168
35	863113	1	1	1	2	42	6
40	488330697	1	426	435	636		
47	5402095	0	0	0	11		
56	560792	0	0	0	1		
9	0	0	0	1	4		29
25	0	0			15		

## T & D - OSHA CASES AND OTHER INJURY/POTENTIAL INJURY CASES

Codes	Total Number of Hours	Deaths	Near Miss/ Good Catch Cases	First Aid Cases	Away, Restricted of Transferred Cases	Days Away Cases	Job Transfer or Restriction Cases	Other Recordable Cases (medical cases)	Total Cases	Lost Work Cases	Near Miss/ Good Catch Case Rate	First Aid Case Rate	Total Recordable Incidence Rate	DART Incidence Rate	Lost Work Day Case Rate
5	8,732,626	0	1,796	37	24	9	15	43	67	9	41.13	0.85	1.53	0.55	0.21
6	5,111,780	0	408	12	4	2	2	14	18	2	15.96	0.47	0.70	0.16	0.08
11	2,601,956	0	91	7	5	3	2	11	16	3	6.99	0.54	1.23	0.38	0.23
13	17,464,330	0	8,366	140	39	29	10	36	75	29	95.81	1.60	0.86	0.45	0.33
39	2,505,977	0	545	9	2	0	2	4	6	0	43.50	0.72	0.48	0.16	0.00
40	465,346,290	1			1,015	493	522	703	1,719	494	0.00	0.00	0.74	0.44	0.21
47	6,209,141	0			14	8	6	0	14	8	0.00	0.00	0.45	0.45	0.26
51	465,832	0	379	8	6	6	0	16	22	6	162.72	3.43	9.45	2.58	2.58
52	1,048,071	0		20	0	0	0	3	3	0	0.00	3.82	0.57	0.00	0.00
56	3,900,080	1			1	1	0	5	7	2	0.00	0.00	0.36	0.05	0.10
57	7,028,350	1			7	3	4	11	19	4	0.00	0.00	0.54	0.20	0.11
Totals	520,414,433	3	11,585	233	1,117	554	563	846	1,966	557					
											Peer Group Rate				
											4.45	0.09	0.76	0.43	0.21
											Column Average				
											33.3	1.0	1.54	0.49	0.37

## T & D - OSHA CASES AND OTHER INJURY/POTENTIAL INJURY CASES

Codes	Exposure (Contractor Hours)	# of Deaths	# of cases with days away from work	# of cases with job transfer or restriction	# of other recordable cases	# OSHA First aid cases	# Near miss/good catch cases
5	8732626	0	9	15	43	37	1796
6	5111780	0	2	2	14	12	408
11	2601956	0	3	2	11	7	91
13	17464330	0	29	10	36	140	8366
39	2505977	0	0	2	4	9	545
40	465346290	1	493	522	703		
47	6209141	0	8	6	0		
51	465832	0	6	0	16	8	379
52	1048070.7	0	0	0	3	20	
56	3900080	1	1	0	5		
57	7028350	1	3	4	11		
9	0				7		20
25	0				154		
35	0	0	3	2	7	4	114
54	8	0	0	0	0		

## VEGETATION - OSHA CASES AND OTHER INJURY/POTENTIAL INJURY CASES

Codes	Total Number of Hours	Deaths	Near Miss/ Good Catch Cases	First Aid Cases	Away, Restricted Transferred Cases	Days Away Cases	Job Transfer or Restriction Cases	Other Recordable Cases (medical cases)	Total Cases	Lost Work Cases	Near Miss/ Good Catch Case Rate	First Aid Case Rate	Total Recordable Incidence Rate	DART Incidence Rate	Lost Work Day Case Rate
5	1,750,599	0	151	1	8	4	4	11	19	4	17.25	0.11	2.17	0.91	0.46
6	3,384,974	0	19	8	5	4	1	3	8	4	1.12	0.47	0.47	0.30	0.24
13	11,257,848	1	2,263	55	31	19	12	38	70	20	40.20	0.98	1.24	0.55	0.36
39	2,795,164	1	11	0	1	1	0	12	14	2	0.79	0.00	1.00	0.07	0.14
40	26,143,413	2			164	108	56	92	258	110	0.00	0.00	1.97	1.25	0.84
47	1,463,206	0			2	2	0	0	2	2	0.00	0.00	0.27	0.27	0.27
56	588,828	0			1	1	0	1	2	1	0.00	0.00	0.68	0.34	0.34
<b>Totals</b>	<b>47,384,032</b>	<b>4</b>	<b>2,444</b>	<b>64</b>	<b>212</b>	<b>139</b>	<b>73</b>	<b>157</b>	<b>373</b>	<b>143</b>					
											Peer Group Rate				
											10.32	0.27	1.57	0.89	0.60
											Column Average				
											8.5	0.22	1.12	0.53	0.38

Codes	Exposure (Contractor Hours)	# of Deaths	# of cases with days away from work	# of cases with job transfer or restriction	# of other recordable cases	# OSHA First aid cases	# Near miss/good catch cases
5	1750599	0	4	4	11	1	151
6	3384974	0	4	1	3	8	19
13	11257848	1	19	12	38	55	2263
39	2795164	1	1	0	12	0	11
40	26143413	2	108	56	92		
47	1463206	0	2	0	0		
56	588828	0	1	0	1		
35	0	0	10	3	17	20	73

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## SERIOUS INJURY & FATALITY (SIF)

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## TOTAL COMPANY - SERIOUS INJURIES AND FATALITIES

Code	Exposure (Contractor Hours)	Fatalities	Amputations	Concussions	Internal organs	Bone Fractures	Tendon and Ligament Tears	Herniated Disks	Lacerations	Burns	Eye Injuries	Injections of Foreign Materials	Severe Heat Exhaustion	Dislocations	Other	Total	"SIIR Rate"
3	19963019.21	1	0	1	0	5	0	0	0	0	0	0	0	0	0	7	0.07
4	11334991	2	0	0	0	3	3	0	0	0	0	0	0	0	0	8	0.14
6	18762474	0	0	0	0	3	0	0	1	1	0	0	0	1	0	6	0.06
8	4562050	0	1	0	0	1	0	0	0	0	0	0	0	0	0	2	0.09
17	6724839	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0.06
20	7897505.22	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.03
29	2092872.67	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0.10
38	8809896	0	0	0	0	4	1	0	1	0	0	0	0	0	0	6	0.14
39	13916052	1	0	0	0	3	0	0	0	0	0	0	0	0	0	4	0.06
40	2061942326	4	30	2119	15	312	120	19	99	19	18	6	22	23	0	2806	0.27
46	8280369	1	0	1	0	4	0	0	0	0	0	0	0	0	0	6	0.14
47	15352323	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	0.03
53	7834129	0	0	1	0	2	0	1	11		1	0	0	0	1	17	0.43
Totals	2187472846	9	31	2122	15	341	124	20	113	20	19	6	22	24	2	2868	
																	Column Average
																	0.12

## GENERATION - SERIOUS INJURIES AND FATALITIES

Code	Exposure (Contractor Hours)	Fatalities	Amputations	Concussions	Internal organs	Bone Fractures	Tendon and Ligament Tears	Herniated Disks	Lacerations	Burns	Eye Injuries	Injections of Foreign Materials	Severe Heat Exhaustion	Dislocations	Other	Total	"SIIR Rate"
6	6824099	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0.06
35	863113	1	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0.46
40	488330697	0	8	14	4	74	12	3	13	5	6	2	2	4	0	147	0.06
47	5402095	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	0.07
Totals	493732792	1	8	14	4	77	12	3	14	5	6	2	2	5	0	153	
																	Column Average
																	0.07

## T & D - SERIOUS INJURIES AND FATALITIES

Code	Exposure (Contractor Hours)	Fatalities	Amputations	Concussions	Internal organs	Bone Fractures	Tendon and Ligament Tears	Herniated Disks	Lacerations	Burns	Eye Injuries	Injections of Foreign Materials	Severe Heat Exhaustion	Dislocations	Other	Total	"SIIR Rate"
6	5111780	0								1						1	0.04
39	2505977	0	0	0		0	0	0	0	0	0		0	0	0	0	0.00
40	465346290	1	10	13	7	86	45	5	52	5	1	4	13	7	0	249	0.11
52	1048070.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
57	7028350	1				3							4			8	0.23
Totals	8076421	2	10	13	7	89	45	5	52	6	1	4	17	7	0	258	6.39
																	Column Average
																	0.07

## VEGETATION - SERIOUS INJURIES AND FATALITIES

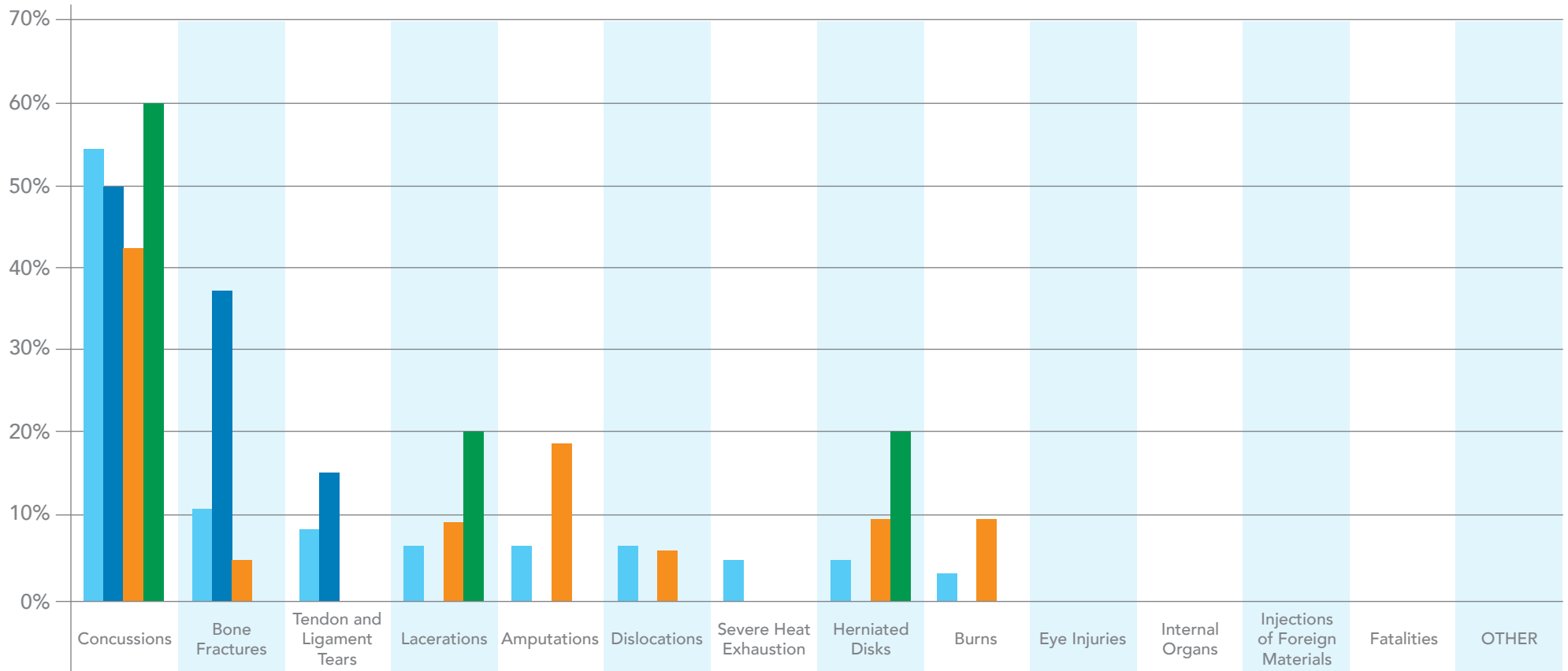
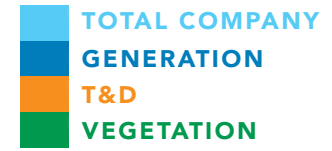
Code	Exposure (Contractor Hours)	Fatalities	Amputations	Concussions	Internal organs	Bone Fractures	Tendon and Ligament Tears	Herniated Disks	Lacerations	Burns	Eye Injuries	Injections of Foreign Materials	Severe Heat Exhaustion	Dislocations	Other	Total	"SIIR Rate"
6	3384974	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0.06
39	2795164	1	0	0		0	0	0	0	0	0		0	0	0	1	0.07
40	26143413	0	1	1	3	9	2	0	2	0	1	1	0	2	0	22	0.17
Totals	26143413	1	1	1	3	9	2	0	3	0	1	1	0	2	0	24	
																	Column Average
																	0.17

## INJURY TYPE - SERIOUS INJURIES AND FATALITIES

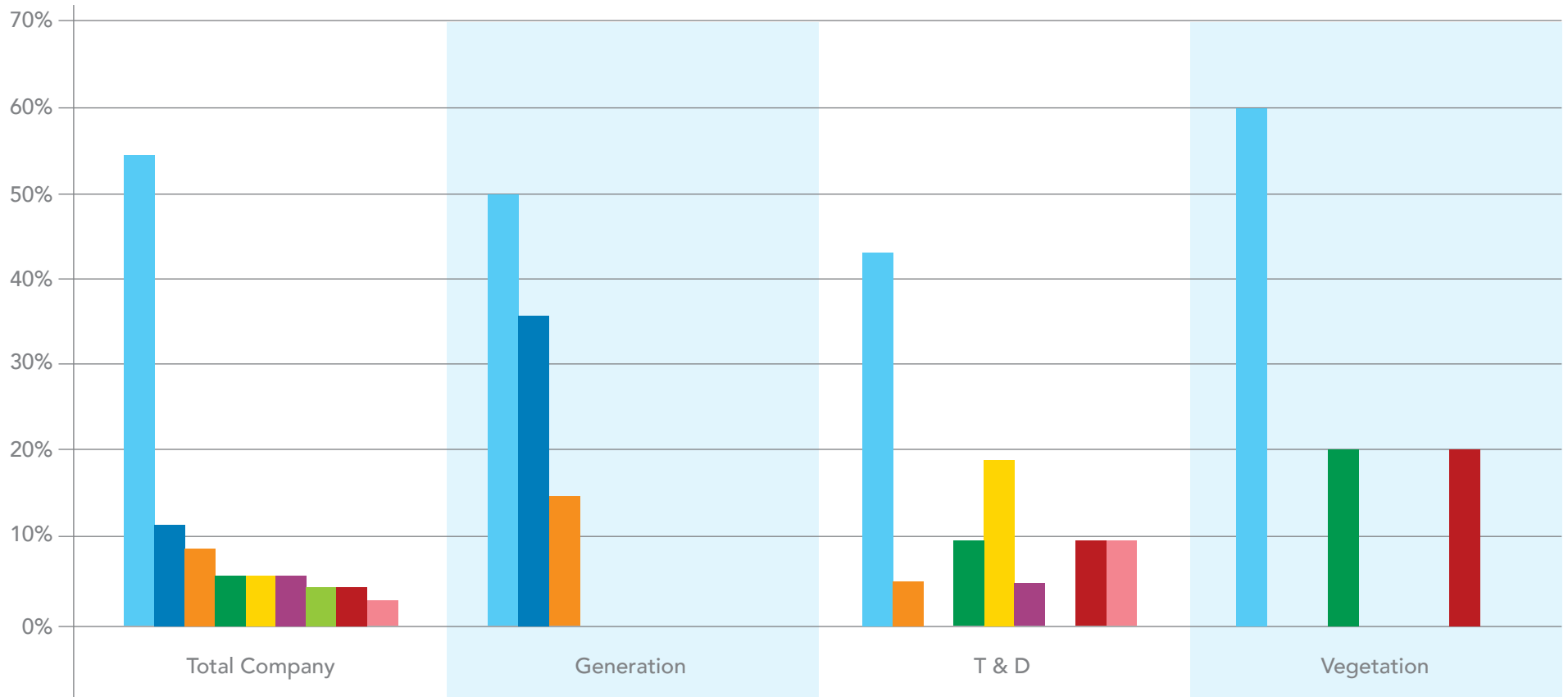
	Total Company	Generation	T & D	Vegetation
Concussions	74.1%	9.2%	5.1%	4.2%
Bone Fractures	11.9%	50.3%	34.6%	37.5%
Tendon and Ligament Tears	4.3%	7.8%	17.5%	8.3%
Lacerations	3.9%	9.2%	20.2%	12.5%
Amputations	1.1%	5.2%	3.9%	4.2%
Dislocations	0.8%	3.3%	2.7%	8.3%
Severe Heat Exhaustion	0.8%	1.3%	6.6%	0.0%
Herniated Disks	0.7%	2.0%	1.9%	0.0%
Burns	0.7%	3.3%	2.3%	0.0%
Eye Injuries	0.7%	3.9%	0.4%	4.2%
Internal organs	0.5%	2.6%	2.7%	12.5%
Injections of Foreign Materials	0.2%	1.3%	1.6%	4.2%
Fatalities	0.2%	0.7%	0.4%	4.2%
OTHER	0.1%	0.0%	0.0%	0.0%



## INJURY TYPE - SERIOUS INJURIES AND FATALITIES



## COLLECTION AREA - SERIOUS INJURIES AND FATALITIES



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## OTHER EVENT DATA

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## TOTAL COMPANY - OTHER EVENT DATA

Code	# Property Damage Events	# Service Outage Events	# Flash Events	# Switch Tag Error Events	# Gas Leak Events	Total
3	414	61	9	10	0	494
5	85	52	0	0	0	137
10	19	9	3	0	0	31
16	26	9	0	0	0	35
20	94	29	0	2	12	137
35	78	117	11	1	2	209
38	32	0	0	0	0	32
47	27	0	4	0	0	31
49	4	2	3	0	0	9
55	2	0	0	0	0	2
Totals	781	279	30	13	14	1117

## GENERATION - OTHER EVENT DATA

Code	# Property Damage Events	# Service Outage Events	# Flash Events	# Switch Tag Error Events	# Gas Leak Events	Total
5	3	0	0	0	0	3
35	1	0	0	1	0	2
Totals	4	0	0	1	0	5

## T & D - OTHER EVENT DATA

Code	# Property damage events	# service outage events	# Flash events	# Switch tag error events	# Gas leak events	Total
5	81	52	0	0	0	133
11	9	2	4	0	0	15
35	23	70	8	1	2	104
52	20	0	0	1	0	21
57	13	19	1	1	9	43
Totals	146	143	13	3	11	316

## VEGETATION - OTHER EVENT DATA

Code	# Property damage events	# service outage events	# Flash events	# Switch tag error events	# Gas leak events	Total
5	2	4	0	0	0	6
35	54	44	3	1	0	102
Totals	56	48	3	1	0	108

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## MOTOR VEHICLE DATA

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## MOTOR VEHICLE DATA

Code	NUMBER OF ACCIDENTS			
	Total Company	Generation	T & D	Vegetation
5	39	1	38	6
7	1			
9	28	11	8	
11			10	
16	13			
20	30			
35	60	2	12	42
39	3		2	0
40	42	5	29	3
46	12			
49	2			
55	1			
57			10	
Totals	366	19	109	51

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## APPENDICES

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## APPENDIX A - SURVEY PARTICIPANTS

Contact Name (First)	Contact Name (Last)	Company Name	Contact Email	Contact Phone
Roberto	Vides	AES Indiana	edgard.vides@aes.com	(317) 319-8097
Heather	Cooke	ALLETE	hcooke@allete.com	(218) 341-7487
Nick	Espolt	Ameren	nespolt@ameren.com	(618) 975-8611
Jim	Goodnite	American Electric Power	jmgoodnite@aep.com	(614) 264-5974
John	Shaw	American Water	john.shaw@amwater.com	(856) 650-7079
Sabrina	Mauch	Arizona Public Service	sabrina.mauch@aps.com	(602) 578-0747
mark	balconi	ATC	mbalconi@atcllc.com	(262) 364-7387
Lucas	Valentine	Avangrid	lucas.valentine@avangrid.com	(203) 710-6486
Johnny	Russell	BGE	johnny.l.russell@bge.com	(667) 313-2858
Steve	Montgomery	CenterPoint Energy	steve.montgomery@centerpointenergy.com	(713) 725-1831
Dornetta	Humphries	ComEd	dornetta.humphries@comed.com	(779) 231-2172
Paul	goins	Constellation Generation	paul.l.goins@constellation.com	(443) 668-8262
Josh	Schieffer	Duke Energy	joshua.schieffer@duke-energy.com	(828) 455-9734
Patric	Capatolla	Duquesne Light Company	pcapatolla@duqlight.com	(412) 393-7905
Ricardo	Salcido	El Paso Electric	ricardo.salcido@epelectric.com	(915) 731-3531
Arthur	Goodly	Entergy	agoodly@entergy.com	(337) 515-0337
Michael	Siegel	Eversource Energy	michael.siegel@eversource.com	(929) 319-9680
Chad	Stoneking	FirstEnergy Service Corp.	cstonek@firstenergycorp.com	(724) 757-2921
Tim	Ackah-Sanzah	FortisBC Energy Inc	tim.ackah-sanzah@fortisbc.com	(604) 576-7108
Amanda	Tabler	LG&E KU	amanda.tabler@lge-ku.com	(502) 333-1908
Sara	Adley	National Grid	sara.fam@nationalgrid.com	(781) 250-9369
Cory	Monnier	Northern Indiana Public Service Company	cmonnier@nisource.com	(219) 369-3642

*Chart continued on next page.*

## APPENDIX A - SURVEY PARTICIPANTS *CONTINUED*

Contact Name (First)	Contact Name (Last)	Company Name	Contact Email	Contact Phone
David	Wen	Ontario Power Generation	david.wen@opg.com	(416) 592-4607
Mark	Impomeni	Orange and Rockland Utilities	impomenim@oru.com	(845) 988-6546
Daryl	Stewart	Pacific Gas & Electric	daryl.stewart@pge.com	(863) 581-7960
John	Murren	Pepco	john.murren@exeloncorp.com	(717) 650-8309
Kristofer	Knittle	PPL Electric Utilities	keknittle@pplweb.com	(717) 650-4767
William	Harley	PSEG, Inc	william.harley@pseg.com	(973) 865-0941
Ray	Duncan	San Diego Gas & Electric	rduncan@sdge.com	(619) 971-3688
Sandra	Machado	Southern California Edison	sandra.machado@sce.com	(626) 201-8726
Leanne	Fowler	Southern Company	lfowler@southernco.com	(205) 335-4366
Bob	Spencer	Tennessee Valley Authority	rlspenc5@tva.gov	(256) 608-8872
Jack	Tiffin	Xcel Energy	jack.tiffin@xcelenergy.com	(806) 786-9191

## APPENDIX B - DEFINITIONS AND CRITERIA

### Contractor Type

- **Contractor** – An entity providing services for which the energy company does not provide day-to-day supervision to those individuals. For data collection all Safety Tier 1 contractor numbers should be included for any work done on behalf of the energy company regardless of whether the individual is an employee of an on system (i.e., regular contractor to your energy company) or an off-system contractor such as crews who have never worked for your energy company but may be called in during storm or for other projects.
- **Safety Tier 1 or Higher-Risk (HR) Contractors** - contractors who perform work that are subject to serious injuries or fatalities if behaviors and/or work practices deviate from established safety protocols and best practices.

They include any contractor directly involved with the following operations:

- a. High Voltage Electric Transmission and Distribution Contractors, including civil and electrical scopes of work
- b. Substation Construction and Maintenance Contracts
- c. Vegetation Management operations, including Line Clearance Tree Trimming, Hazard Tree Removal, and other similar scopes of work
- d. All Aircraft Operations including Helicopter Operations
- e. General contractors, owner engineer, and EPC-type contractors (This list is not all-inclusive. Safety Tier 1 HR contractors are those performing work scopes that have historically experienced a higher volume and severity of incidents on company property.)

- **Generation Contractor** - Associated Safety Tier 1 contractors that provide services to generation businesses. Collect and provide safety performance data for Safety Tier 1 contractors that supported any generation operation which includes scheduled and non-scheduled operations and maintenance and/or construction at any time during the calendar year. Include support service contractors such as IT, engineering and housekeeping, but do not include nuclear security contractors, which are exempt from OSHA reporting or engineers not embedded with a contractor doing field work.
- **Total Company Contractor** - Any Safety Tier 1 contractor that provided services to your company at any time during the calendar year, but do not include nuclear security contractors, which are exempt from OSHA reporting or engineers not embedded with a contractor doing field work.
- **T&D (Transmission and Distribution) Contractor** - Associated Safety Tier 1 contractors that support electrical transmission and distribution operations. Do not include engineers not embedded with a contractor doing field work.
- **Vegetation Management Contractor** - Associated contractors that support vegetation management or line clearance, tree pruning, removal work including brush removal and mowing operations. These contractors may utilize both power and manual hand saws, chippers, aerial lifts, and mowers, as well as vegetation control through judicious use of herbicides and tree growth regulators. (Note: By nature of their work these contractors are Safety Tier 1 contractors.) Do not include engineers not embedded with a contractor doing field

## Company Type

- **Electric**  
Reporting data for an organization with Electric Generation, Transmission & Distribution.
- **Electric (with no Nuclear Plants)**  
Reporting data for an organization with Electric Generation, Transmission & Distribution, but with no nuclear plants.
- **Combination (Gas/Electric)**  
Reporting data for an organization with both Electric Generation, Transmission & Distribution and Gas
- **Combination (Gas/Electric with no Nuclear Plants)**  
Reporting data for an organization with both Electric Generation, Transmission & Distribution and Gas with no nuclear plants.
- **Generation Only**  
Reporting data for an organization with only Electric Generation.
- **Electric (T&D Only)**  
Reporting data for an organization with only Transmission & Distribution.
- **Nuclear Only**  
Reporting data for an organization with only Nuclear Generating Plans.

## Exposure

*(Include only hours where the contractor was working for your company)*

- **Exposure (Contractor Hours)**  
The actual hours of exposure from contracted services reported in the survey.

## OSHA Cases

*(Include only cases that occurred while the contractor was working for your company)*

- **Days Away Cases (Days Away From Work Cases)**The total number of OSHA recordable cases which required days away from work for the year. This only includes days away from work.
- **Deaths**  
The total number of OSHA recordable deaths.
- **Other Recordable Cases (medical cases)**  
The total number of OSHA recordable cases that required medical attention. These incidents did not require an employee to go on restricted duty or to take a lost workday.
- **Transfer of Restricted Cases (Days Transferred/Restricted Cases)**  
The total number of OSHA recordable cases which required job transfer or restriction for the year. This only includes days away from work.

## Other Incident Cases

*(Include only cases that occurred while the contractor was working for your company)*

- **OSHA First Aid**  
All cases referenced in OSHA recordkeeping rule as first aid and not recordable. Includes only cases that occurred while a contractor was working for that company.
- **Near Miss/Good Catch**  
A near miss is an unintended event that has real potential to cause injury or illness to employees, contractors working on site, or the general public, but does not. Include only cases that occurred while the contractor was working for your company.

- **Property Damage Event**  
An event involving any damage caused by the energy company worker to a customer's property or another entity's property that shares the right-of-way that is not involved in the work being done at the time of the event. Include only cases that occurred while the contractor was working for your company.
- **Service Outage Events**  
An event caused by the energy company worker that resulted in the unexpected outage of any customer on the circuit worked or an adjacent circuit. Include only cases that occurred while the contractor was working for your company.
- **Flash Events**  
An event involving electric arc phase-to-phase or phase-to-ground from a current source greater than 260 volts (e.g., transmission or distribution lines, AC/DC distribution cabinet bus, meter installation, secondary service conductors, equipment breakers, etc.). Include only cases that occurred while the contractor was working for your company.
- **Switch Tag Error Events**  
An event that causes an unexpected de-energization or re-energization of a circuit. Include only cases that occurred while the contractor was working for your company.
- **Gas Leak Events**  
An event that causes a sudden release of natural gas from the transmission or distribution system.

## Motor Vehicle Accident Data

*(Include only cases and miles operated while the contractor was working for your company)*

- **Motor Vehicle**  
Any licensed mechanically or electrically powered vehicle that is owned, leased (rental), or contracted (mileage reimbursement) and operated in the service of the reporting company. The load on a vehicle is to be considered a part of the vehicle. Any trailer or equipment in tow is considered part of the load. Not Included - vehicles operated on fixed rails, industrial forklifts, road-building machinery, golf carts or similar vehicles (ATVs, mules, gator, etc.), crawler cranes, draglines, farm equipment, bicycles, or similar equipment.
- **Motor Vehicle Accident**  
An unplanned event in which the first harmful event involves a motor vehicle in motion coming in contact with another motor vehicle, other property, person(s) or animal(s). Damage caused solely by striking birds, or by rocks or gravel thrown by vehicles, or by getting road tar on the vehicle is not a motor vehicle fleet accident. If death, injury, or property damage results, for example, from hitting a large rock, or striking a bird and losing control of the vehicle, the occurrence is a motor vehicle accident.
- **Number of Vehicle Accidents**  
The number of vehicle accidents during the survey year per recording criteria found in ANSI D16.1 – 2007, ANSI/ASSE Z15.1 – 2006 , or ANSI D15.1 – 1976).
- **Number of Miles Operated**  
The number of miles a vehicle was operated during the survey year per recording criteria found in ANSI D16.1 – 2007, ANSI/ASSE Z15.1 – 2006 , or ANSI D15.1 – 1976).

## EEI Serious Injury and Fatality (SIF) Criteria

(Include only cases that occurred while the contractor was working for your company)

### What is an EEI SIF Event?

SIF criteria was developed by EEI to be a metric that better facilitates the prevention of fatalities and serious injuries that are life threatening or life changing for the employee. The metric should reflect the extent of serious injury to employee(s) from events that are OSHA recordable.

### Identifying and Classifying Serious Injuries

Compare the employee injury to the SIF criteria listed below to determine if the injury is deemed "Serious." (Each case should be counted only once. In cases with multiple injuries, assign the case to the category representing the most severe injury).

1. Fatalities
2. Amputations (involving bone)
3. Concussions and/or cerebral hemorrhages
  - a. Include all cerebral hemorrhages and only severe concussions resulting in a loss of consciousness and/or symptoms lasting more than 24 hours.
4. Injury or trauma to internal organs

#### Frequently Asked Questions:

*i. When should a case of organ damage be classified as serious, such as an exposure to chemical substance?*

Injuries should be classified as serious if objective medical evidence indicates significant or sustained (beyond initial event, acute treatment and testing) organ damage, or progressive changes in organ function or anatomy. This criterion does not include rapidly dissipating signs and symptoms from the acute event (such as irritation or localized redness) and their associated treatment, or injury from long term or repetitive exposures.

Only cases that involve relatively short term events should be included in the serious metric, even if the result is an illness (example, reactive upper-dysfunction syndrome resulting from chlorine exposure event). Illnesses that develop from exposure over long periods of time (years) are not to be captured in this metric (example, fibrosis of the lung from asbestos exposure).

*ii. Is a hernia considered a severe case?*

A hernia by itself would not be classified as a severe case. However, if the hernia causes damage to an internal organ such as a strangulated colon, it would be classified as a severe case.

5. Bone fractures with the following considerations:

- a. Include fractures of the fingers and toes only if they are open, compound, comminuted, or crushing
- b. Include all bone fractures of the face, skull, or navicular wrist bone
- c. Exclude any hairline fractures unless described above

#### Frequently Asked Questions:

*i. Are all hairline fractures excluded?*

Hairline fractures in the face, skull, or navicular wrist bone are considered a serious injury. All other hairline fractures are excluded.

*ii. Are nasal fractures included as a serious injury in bone fracture criteria?*

Typical nasal cartilage-only fractures are not likely to cause life altering or life-threatening injuries, unless other facial bone fractures are involved. If the employee has a "broken nose" that involves facial bone fractures, the injury should be included as a serious injury. Nasal cartridge-only fractures should not be included as a serious injury.

*iii. Are broken teeth considered a severe case?*

No, unless there were other injuries in addition that meet the criteria (Example: Broken Jaw)



6. Complete tendon, ligament and cartilage tears of the major joints (e.g., shoulder, elbow, wrist, hip, knee, and ankle).

*Frequently Asked Questions:*

*i. Are partial tendon, ligament and cartilage tears included?*

No. Partial tears are not to be classified as a serious injury.

7. Herniated disks (neck or back)

8. Lacerations resulting in severed tendons and/or a deep wound requiring internal stitches.

a. Do not include deep wounds requiring internal stitches to the fingers and toes.

*Frequently Asked Question:*

*i. Does a puncture that requires internal sutures meet the laceration criteria?*

Yes

9. 2nd (10% body surface) or 3rd degree burns

10. Eye injuries resulting in eye damage or loss of vision

*Frequently Asked Questions:*

*i. Does a corneal abrasion constitute eye damage injury?*

No. Corneal abrasions and/or scratches due to foreign bodies are considered minor and usually heal quickly.

*ii. What are some examples of “eye damage” that meet the criteria?*

Examples of eye damage would be cases where the eyeball is penetrated or damaged by a significant foreign body.

*iii. Does loss of vision mean total loss or is some degradation of vision all that is required to meet the serious injury criteria?*

Loss of vision means any permanent change in the employee’s vision or change that requires corrective lenses.

11. Injections of foreign materials (e.g. hydraulic fluid)

12. Severe heat exhaustion and all heat stroke cases (Severe heat exhaustion cases are those where all of the following symptoms are present: profuse sweating, nausea, and confusion). If confirmed fainting occurs due to the heat exposure, this is an automatic severe case.

a. Exclude cases where confirmed personal medical conditions or medications significantly contributed to heat exhaustion.

*Frequently Asked Question:*

*i. If an employee receives an IV for heat exhaustion, does this make it a severe case?*

The application of an IV does not necessarily indicate a severe case; further investigation should be conducted to determine if the criteria for severe heat exhaustion were met (profuse sweating, nausea, and confusion or confirmed fainting).

13. Dislocation of a major joint (hip, shoulder, elbow, etc.)

14. The “Other Injuries” category should only be selected for reporting injuries not identified in the existing categories. A Description box is also provided to briefly describe the nature of the injury.

## Other Terms and Definitions

### Serious Injury Incidence Rate (SIIR)

The Serious Injury Incidence Rate (SIIR) is calculated using the formula (# cases x 200,000/hours worked). The calculation of the SIIR uses the same hours worked number as your calculation of the Recordable Incidence Rate.

## APPENDIX C - JOINT ENERGY COMPANY/CONTRACTOR SAFETY TASK FORCE

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