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Edison Electric  
INSTITUTE

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2021

CONTRACTOR SAFETY SURVEY  
& BENCHMARKING STUDY

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NOVEMBER 2022

*Data as of December 31, 2021*

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## DESCRIPTION OF THE SURVEY

This report is the third 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 utility member 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 utility 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 Vegetations. 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 35. 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.

is available to allow participating organizations to contact other participants by confidential code. The Contact Form can be used to establish benchmarking partners or solicit participation in benchmarking projects.

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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		
Both internal and external resources	16	53%		
Internal resources	7	23%		
External resources	5	17%		
Other*	2	17%		
<b>TOTAL</b>	<b>30</b>			

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

	Frequency	Percent		
TRIR	25	22%		
OSHA Citation history	24	21%		
EMR	22	19%		
DART	20	17%		
Other*	12	10%		
LWDCR	8	7%		
Severity rate	3	3%		
SIIR	1	1%		
<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	29	39%			
OSHA Required Written Programs Assessment	20	27%			
Monitoring / Observation Program Assessment	11	15%			
Other*	9	12%			
Training Matrix Assessment	6	8%			
<b>TOTAL</b>	<b>75</b>				

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

	Frequency	Percent			
Work classification and/or risk level	12	24%			
Size of contractor (e.g. no. of employees)	9	18%			
Other*	9	18%			
Contractor safety history	8	16%			
Prequalification status	7	14%			
Project cost	5	10%			
<b>TOTAL</b>	<b>50</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	1	3%			
Almost never	4	13%			
Always	11	37%			
Never	9	30%			
Occasionally / sometimes	5	17%			
<b>TOTAL</b>	<b>30</b>				

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

	Frequency	Percent			
No	5	17%			
Yes	25	83%			
<b>TOTAL</b>	<b>30</b>				

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

	Frequency	Percent			
No	2	7%			
Yes	28	93%			
<b>TOTAL</b>	<b>30</b>				



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

	Frequency	Percent			
No	6	20%			
Yes	24	80%			
<b>TOTAL</b>	<b>30</b>				

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

	Frequency	Percent			
Verbally	22	31%			
Written or electronic submission	21	30%			
In-person meeting	17	24%			
Not specified / any method is acceptable	9	13%			
Other*	2	3%			
<b>TOTAL</b>	<b>71</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	19	30%			
Written or electronic submission	19	30%			
In-person meeting	13	21%			
Not specified / any method is acceptable	9	14%			
Other*	3	5%			
<b>TOTAL</b>	<b>63</b>				

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

	Frequency	Percent			
Written or electronic submission	25	45%			
In-person meeting	13	23%			
Verbally	12	21%			
Other*	4	17%			
Not specified / any method is acceptable	2	4%			
<b>TOTAL</b>	<b>56</b>				

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

### HOW DO YOU DOCUMENT INFORMATION TRANSFER?

	Frequency	Percent			
Transfer is noted in work plans	14	39%			
A separate written record is maintained	10	28%			
Emails or other communication media serve as documentation	6	17%			
Other*	6	17%			
<b>TOTAL</b>	<b>36</b>				

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

	Frequency	Percent			
Transmission	25	24%			
Vegetation Management	24	23%			
Distribution	23	22%			
Generation	23	22%			
Other*	9	9%			
<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	25	39%			
Paper records	18	28%			
Har hat sticker	10	16%			
Contractor badge/card/ID	8	13%			
Wallet card	2	3%			
Other*	21	2%			
<b>TOTAL</b>	<b>64</b>				

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

	Frequency	Percent			
Other*	14	48%			
Annually	13	45%			
One Time Only	2	7%			
<b>TOTAL</b>	<b>29</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	7	23%			
No	5	17%			
Yes	17	57%			
<b>TOTAL</b>	<b>30</b>				

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

	Frequency	Percent			
No	10	33%			
Yes	20	67%			
<b>TOTAL</b>	<b>30</b>				

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

	Frequency	Percent			
No	25	83%			
Yes	5	17%			
<b>TOTAL</b>	<b>30</b>				

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

	Frequency	Percent			
No	6	20%			
Yes	24	80%			
<b>TOTAL</b>	<b>30</b>				

**DO YOU VERIFY CONTRACTOR EMPLOYEE TRAINING?**

	Frequency	Percent			
Almost always	3	10%			
Almost never	3	10%			
Always	5	17%			
Never	1	3%			
Occasionally / sometimes	18	60%			
<b>TOTAL</b>	<b>30</b>				

### HOW DO YOU VERIFY TRAINING?

	Frequency	Percent			
Contractor provides employee training rosters	23	37%			
Contractor provides employee training certificates	22	35%			
Contractor employees complete test(s) required by utility	6	10%			
Other*	6	10%			
Contractor provides completed tests	5	8%			
<b>TOTAL</b>	<b>62</b>				

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

	Frequency	Percent			
weekly	9	33%			
weekly, monthly	1	4%			
monthly	4	15%			
other frequency	4	15%			
not required	9	33%			
<b>TOTAL</b>	<b>27</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			
weekly	11	41%			
weekly, monthly	1	4%			
monthly	3	11%			
other frequency	7	26%			
not required	5	19%			
<b>TOTAL</b>	<b>27</b>				

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

	Frequency	Percent			
weekly	6	21%			
weekly, monthly	1	4%			
monthly	1	4%			
other frequency	14	50%			
not required	6	21%			
<b>TOTAL</b>	<b>28</b>				



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

	Frequency	Percent			
weekly	13	43%			
weekly, monthly	4	13%			
monthly	1	3%			
other frequency	5	17%			
not required	9	30%			
<b>TOTAL</b>	<b>30</b>				

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

	Frequency	Percent			
OSHA Fatality Cases	25	11%			
OSHA Other Recordable Cases	25	11%			
OSHA Days Away Cases	25	11%			
OSHA Restricted or Transferred Cases	25	11%			
Corrective Action Plans	24	11%			
Near Miss Incidents	24	11%			
Accident Investigations	23	10%			
Inspections and/or Observations	13	6%			
Job-Briefings	13	6%			
EEI SIF Cases	13	6%			
Safety Meetings	9	4%			
Other*	5	2%			
<b>TOTAL</b>	<b>224</b>				

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

### DO YOU CONDUCT DOCUMENTED CONTRACTOR SAFETY INSPECTIONS?

	Frequency	Percent
No	1	3%
Yes	26	87%
Other*	3	10%
<b>TOTAL</b>	<b>30</b>	

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

	Frequency	Percent
25-49%	1	3%
50-75%	8	28%
Greater than 75%	5	17%
Less than 25%	1	3%
Number is unknown or not recorded	14	48%
<b>Total</b>	<b>29</b>	

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

	Frequency	Percent
Contractor / utility combined	14	47%
Other*	9	30%
Utility conducts independent investigation	5	17%
Contractor only	2	7%
<b>TOTAL</b>	<b>30</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			
Almost always	11	37%			
Almost never	2	7%			
Always	6	20%			
Never	4	13%			
Occasionally / sometimes	7	23%			
<b>Total</b>	<b>30</b>				

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

	Frequency	Percent			
No	3	10%			
Yes	27	90%			
<b>TOTAL</b>	<b>30</b>				

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

	Frequency	Percent			
Banning contractors with poor performance	16	29%			
Mandating a remedial program before being allowed back on property	17	31%			
Repeating the original prequalification process	15	27%			
Other*	7	13%			
<b>TOTAL</b>	<b>55</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 or 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	23027642	1	0	0	41	24	17	23	65	25	0.00	0.00	0.56	0.36	0.22	
4	15477674	2	0	0	43	18	25	32	77	20	0.00	0.00	0.99	0.56	0.26	
5	10276787	0	0	42	20	7	13	15	35	7	0.00	0.82	0.68	0.39	0.14	
6	28607235	2	2393	125	38	24	14	61	101	26	16.73	0.87	0.71	0.27	0.18	
7	544756	0	0	1	1	1	0	3	4	1	0.00	0.37	1.47	0.37	0.37	
9	1984924	0	108	0	0	0	0	9	9	0	10.88	0.00	0.91	0.00	0.00	
11	2843290	0	37	13	5	3	2	5	10	3	2.60	0.91	0.70	0.35	0.21	
12	27818719	0	0	0	0	0	0	81	81	0	0.00	0.00	0.58	0.00	0.00	
13	30007517	0	4116	158	61	32	29	93	154	32	27.43	1.05	1.03	0.41	0.21	
18	2064798	1	86	16	1	1	0	6	8	2	8.33	1.55	0.77	0.10	0.19	
20	7488640	0	51	22	21	7	14	11	32	7	1.36	0.59	0.85	0.56	0.19	
22	7530525	0	11	6	7	5	2	17	24	5	0.29	0.16	0.64	0.19	0.13	
24	6672731	0	0	39	13	8	5	8	21	8	0.00	1.17	0.63	0.39	0.24	
29	1895957	0	21	4	4	3	1	1	5	3	2.22	0.42	0.53	0.42	0.32	
38	9409569	0	106	0	24	14	10	29	53	14	2.25	0.00	1.13	0.51	0.30	
39	15915402	0	549	0	16	8	8	14	30	8	6.90	0.00	0.38	0.20	0.10	
40	61271897	3	0	86	96	66	30	84	183	69	0.00	0.28	0.60	0.31	0.23	
43	2048499	0	13	13	2	1	1	0	2	1	1.27	1.27	0.20	0.20	0.10	
44	2041359	0	14	11	1	1	0	13	14	1	1.37	1.08	1.37	0.10	0.10	
45	351844	0	0	0	0	0	0	1	1	0	0.00	0.00	0.57	0.00	0.00	
46	9382840	0	0	35	25	14	11	27	52	14	0.00	0.75	1.11	0.53	0.30	
47	17161053	2	11	23	56	24	32	21	79	26	0.13	0.27	0.92	0.65	0.30	
Totals	283,823,658	11	7,516	594	475	261	214	554	1,040	272						
												Peer Group Rate				
												5.30	0.42	0.73	0.33	0.19
												Column Average				
												3.7	0.53	0.79	0.31	0.19

## TOTAL COMPANY - 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
3	23027642.11	1	24	17	23		
4	15477674.00	2	18	25	32		
5	10276787.00	0	7	13	15	42	
6	28607235.00	2	24	14	61	125	2393
7	544755.50	0	1	0	3	1	
9	1984924.00	0			9		108
11	2843289.94	0	3	2	5	13	37
12	27818719.00				81		
13	30007517.00	0	32	29	93	158	4116
18	2064798.00	1	1	0	6	16	86
20	7488640.00	0	7	14	11	22	51
22	7530525.00	0	5	2	17	6	11
24	6672731.00	0	8	5	8	39	
29	1895957.00	0	3	1	1	4	21
38	9409569.00		14	10	29	0	106
39	15915402.20	0	8	8	14		549
40	61271897.43	3	66	30	84	86	
43	2048499.00	0	1	1	0	13	13
44	2041359.02	0	1	0	13	11	14
45	351844.00	0	0	0	1		
46	9382840.00	0	14	11	27	35	
47	17161053.00	2	24	32	21	23	11
25	0.00	2			192		
49	0.00	1			3		

## 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 or 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	1,295,677	0		8	7	2	5	0	7	2	0.0	1.23	1.08	1.08	0.31
6	5,024,375	0	1,287	62	5	4	1	6	11	4	51.2	2.47	0.44	0.20	0.16
13	3,590,476	0	429	9	4	3	1	4	8	3	23.9	0.50	0.45	0.22	0.17
18	856,089	1	7	1	0	0	0	0	1	1	1.64	0.23	0.23	0.00	0.23
22	755,484	0	1	3	0	0	0	0	0	0	0.3	0.79	0.00	0.00	0.00
44	698,509	0	9	7	0	0	0	2	2	0	2.6	2.00	0.57	0.00	0.00
47	6,065,507	0	0	2	5	5	0	23	28	5	0.00	0.07	0.92	0.16	0.16
<b>Totals</b>	<b>18,286,117</b>	<b>1</b>	<b>1,733</b>	<b>92</b>	<b>21</b>	<b>14</b>	<b>7</b>	<b>35</b>	<b>57</b>	<b>15</b>					
											Peer Group Rate				
											18.95	1.01	0.62	0.23	0.16
											Column Average				
											15.4	1.0	0.44	0.30	0.17

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	1295677.00	0	2	5	0	8	
6	5024375.00	0	4	1	6	62	1287
13	3590476.00	0	3	1	4	9	429
18	856089.00	1				1	7
22	755484.00	0	0	0	0	3	1
44	698509.32	0	0	0	2	7	9
47	6065507.00	0	5	0	23	2	0
35	0.00	0	1	0	1		3
42	1.00	0	3	4	17	207	67

## 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 or 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	8,686,987	0		34	11	4	7	17	28	4	0.00	0.78	0.64	0.25	0.09
6	19,559,233	1	339	50	26	16	10	54	81	17	3.47	0.51	0.83	0.27	0.17
7	278,292	0		0	1	1	0	3	4	1	0.00	0.00	2.87	0.72	0.72
10	6,601,289	1	4	6	6	3	3	27	34	4	0.12	0.18	1.03	0.18	0.12
11	2,843,290	0	37	13	5	3	2	5	10	3	2.60	0.91	0.70	0.35	0.21
13	15,461,565	0	2,505	104	35	20	15	42	77	20	32.40	1.35	1.00	0.45	0.26
18	1,042,169	0	46	7	1	1	0	5	6	1	8.83	1.34	1.15	0.19	0.19
22	5,170,042	0	9	2	4	3	1	15	19	3	0.35	0.08	0.74	0.15	0.12
28	1,414,794	0	18	2	3	3	0	5	8	3	2.54	0.28	1.13	0.42	0.42
44	172,067	0	5	4	1	1	0	11	12	1	5.81	4.65	13.95	1.16	1.16
47	6,966,924	2			41	17	24	2	45	19	0.00	0.00	1.29	1.18	0.55
Totals	68,196,652	4	2,963	222	134	72	62	186	324	76					
											Peer Group Rate				
											8.69	0.65	0.95	0.39	0.22
											Column Average				
											5.1	0.9	2.30	0.48	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	8686987.00	0	4	7	17	34	
6	19559233.00	1	16	10	54	50	339
7	278292.00	0	1	0	3	0	
10	6601289.00	1	3	3	27	6	4
11	2843289.94	0	3	2	5	13	37
13	15461565.00	0	20	15	42	104	2505
18	1042169.00		1		5	7	46
22	5170042.00	0	3	1	15	2	9
28	1414794.00	0	3	0	5	2	18
44	172066.68	0	1	0	11	4	5
47	6966924.00	2	17	24	2		
SUB		4	72	62	186	222	2963
35	0.00	0	2	1	4		62
19	0.00	2	6	8	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 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	1,838,146	0	0	3	1	0	1	3	4	0	0.00	0.33	0.44	0.11	0.00	
6	5,332,169	0	29	5	6	4	2	12	18	4	1.09	0.19	0.68	0.23	0.15	
7	143,651	0	0	0	1	1	0	0	1	1	0.00	0.00	1.39	1.39	1.39	
13	10,955,476	0	1,182	45	22	9	13	47	69	9	21.58	0.82	1.26	0.40	0.16	
47	1,898,385	0	0	0	8	2	6	0	8	2	0.00	0.00	0.84	0.84	0.21	
Totals	20,167,827	0	1,211	53	38	16	22	62	100	16						
												Peer Group Rate				
												12.01	0.53	0.99	0.38	0.16
												Column Average				
												4.5	0.27	0.92	0.59	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	1838146.0	0	0	1	3	3	
6	5332169.0	0	4	2	12	5	29
7	143650.5	0	1	0	0		
13	10955476.0	0	9	13	47	45	1182
47	1898385.0	0	2	6	0		
35	0.0	0	14	3	9		57
19	0.0	0	1	3	0		

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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	23027642.11	1	3	1	0	7	0	0	0	0	0	0	0	2	0	14	0.12
6	28607235	2	3	0	3	11	0	0	4	2	0	0	2	1		28	0.20
20	7488640	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
29	1895957	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0.11
40	61271897.43	3	0	2	1	13	0	0	0	0	0	0	0	0	0	19	0.06
43	2048499	0	0	0	0	1	0	0	0	0	0	0	0	0		1	0.10
46	9382840	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3	0.06
47	17161053	2	0	0	0	5	0	0	0	0	0	0	0	1	0	8	0.09
Totals	150883763.5	8	6	3	4	40	0	0	4	3	0	0	2	4	0	74	
																	Column Average
																	0.09

## 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	5024375	0	2	0	0	1	0	0	0	0	0	0	0	0	0	3	0.12
47	6065507	5	0	0	0	5		0	0	0	0	0	0	0	0	10	0.33
Totals	11089882	5	2	0	0	6	0	0	0	0	0	0	0	0	0	13	
																	Column Average
																	0.22

## 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	19559233	1	0	0	2	7	0	0	4	2	0	0	2	1	0	19	0.19
28	1414794	0	0	0	0	2	0	0	0	0	0	0	0	0		2	0.28
Totals	20974027	1	0	0	2	9	0	0	4	2	0	0	2	1	0	21	0.20
																	Column Average
																	0.24

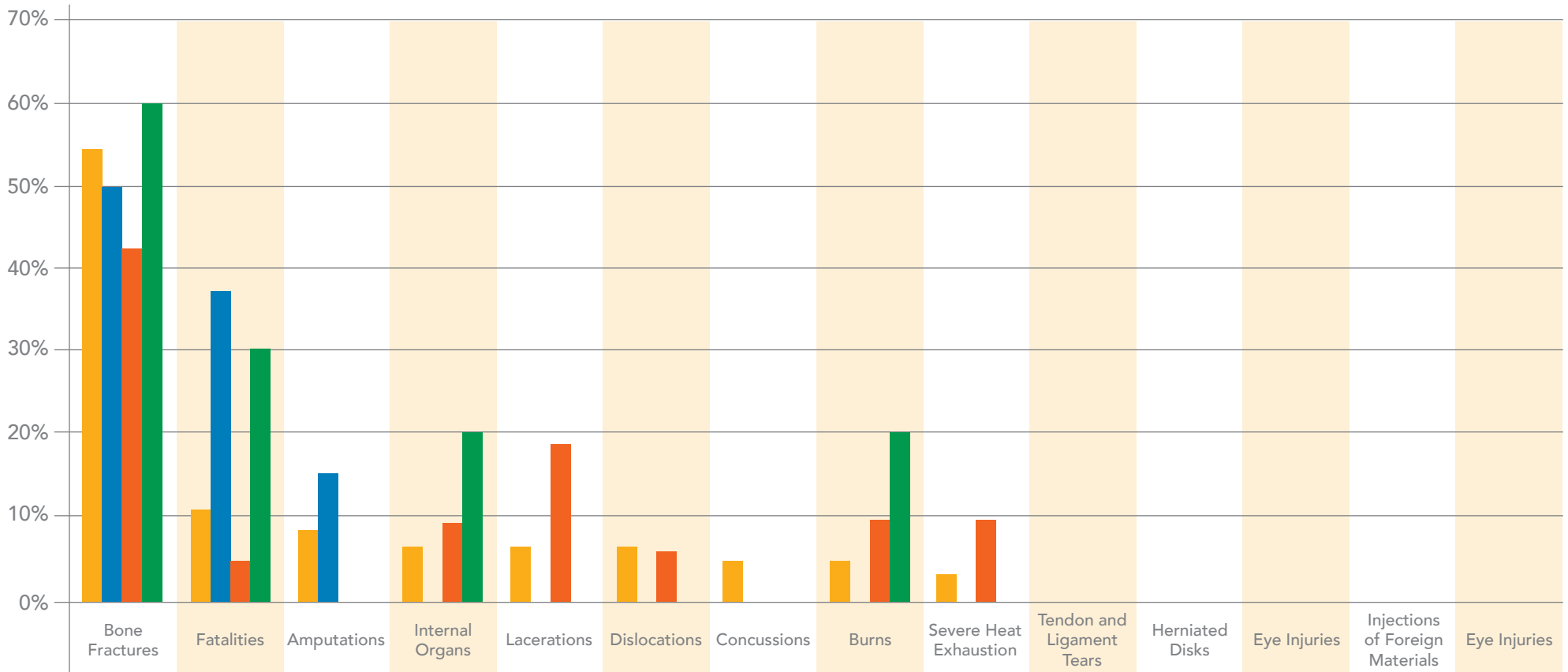
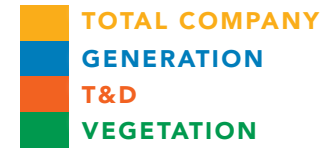
## VEGETATION - SERIOUS INJURIES AND FATALITIES

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	5332169	0	0	0	1	3	0	0	0	1	0	0	0	0	0	5	0.19
Totals	5332169	0	0	0	1	3	0	0	0	1	0	0	0	0	0	5	
																	Column Average
																	0.19

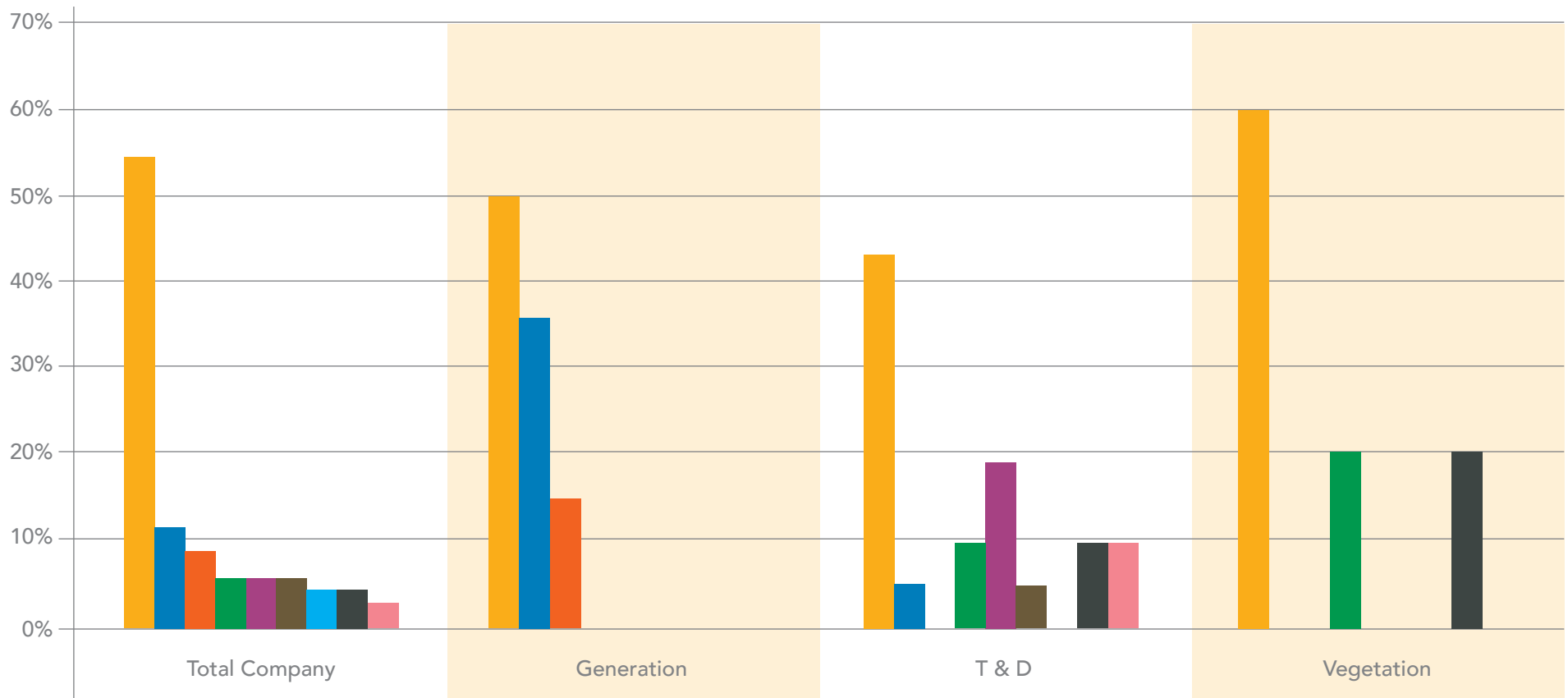
## INJURY TYPE - SERIOUS INJURIES AND FATALITIES

	Total Company	Generation	T & D	Vegetation
Bone Fractures	54%	50%	43%	60%
Fatalities	11%	36%	5%	0%
Amputations	8%	14%	0%	0%
Internal organs	5%	0%	10%	20%
Lacerations	5%	0%	19%	0%
Dislocations	5%	0%	5%	0%
Concussions	4%	0%	0%	0%
Burns	4%	0%	10%	20%
Severe Heat Exhaustion	3%	0%	10%	0%
Tendon and Ligament Tears	0%	0%	0%	0%
Herniated Disks	0%	0%	0%	0%
Eye Injuries	0%	0%	0%	0%
Injections of Foreign Materials	0%	0%	0%	0%
OTHER	0%	0%	0%	0%

## INJURY TYPE - SERIOUS INJURIES AND FATALITIES



## COLLECTION AREA - SERIOUS INJURIES AND FATALITIES





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## OSHA CASES & 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
5	87	53				140
6		107		0		107
9	40	30				70
11	56	6	0	0	0	62
18	17					17
20	97	23	0	0	13	133
43	31	4				35
46	169	83			34	286
47	21		8			29
49		5	1			6
Totals	518	311	9	0	47	885

## GENERATION - OTHER EVENT DATA

Code	# Property damage events	# service outage events	# Flash events	# Switch tag error events	# Gas leak events	Total
5	10	0				10
6		0				0
18	1					1
35	1	0	0	0		1
42	41		1			42
47	1		0			1
Totals	54	0	1	0	0	55

## T & D - OTHER EVENT DATA

Code	# Property damage events	# service outage events	# Flash events	# Switch tag error events	# Gas leak events	Total
5	76	53				129
6		97				97
10	3	9	2	0		14
11	56	6	0	0	0	62
18	12					12
35	20	28	5	0		53
Totals	167	193	7	0	0	367

## VEGETATION - OTHER EVENT DATA

Code	# Property damage events	# service outage events	# Flash events	# Switch tag error events	# Gas leak events	Total
5	2	10				12
6		59				59
35	36	27	3	0		66
Totals	38	96	3	0	0	137

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## MOTOR VEHICLE DATA

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## MOTOR VEHICLE DATA

Code	NUMBER OF ACCIDENTS			
	Total Company	Generation	T & D	Vegetation
3	34			
5	15	1	14	2
6	247	8	179	0
9	11			
10			469	
20	25			
35		2	7	29
43	26			
46	20			
Totals	378	11	669	31

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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
Johan	Santana	AES Ohio	johan.santana@aes.com	(317) 442-4613
Dee	Ward	Alabama Power Company	dmward@southernco.com	(205) 257-2022
Heather	Cooke	ALLETE	hcooke@allete.com	(218) 341-7487
Carrie	Parman	Alliant Energy	carrieparman@alliantenergy.com	(608) 458-5709
Nick	Espolt	Ameren	nespolt@ameren.com	(314) 554-2695
Jim	Goodnite	American Electric Power	jmgoodnite@aep.com	(614) 264-5974
mark	balconi	American Transmission Co.	mbalconi@atcllc.com	(262) 832-8685
Sabrina	Mauch	Arizona Public Service	Sabrina.mauch@aps.com	(602) 578-0747
Lucas	Valentine	AVANGRID	lucas.valentine@avangrid.com	(203) 710-6486
Steve	Montgomery	CenterPoint Energy	steve.montgomery@centerpointenergy.com	(713) 725-1831
Stephanie	Tyler	Cleco	Stephanie.tyler@cleco.com	(318) 484-7690
Matt	Mcfarland	Consolidated Edison Co of NY	mcfarlandm@coned.com	(212) 460-3953
Randall	Butler	Consumer Energy	randall.c.butler@cmsenergy.com	(616) 215-8881
Josh	Schieffer	Duke Energy	joshua.schieffer@duke-energy.com	(828) 455-9734
Ricardo	Salcido	El Paso Electric	ricardo.salcido@epelectric.com	(915) 474-4033
Arthur	Goodly	Entergy Services Inc	agoodly@entergy.com	(337) 515-0337
Thomas	LeBlond	Eversource Energy	thomas.leblond@eversource.com	(207) 252-3589
Joe	DiPlacido	Exelon	joseph.diplacido@exeloncorp.com	(484) 535-0300
Christine	Garza	FirstEnergy Corporation	garzac@firstenergycorp.com	(216) 310-5402
Tim	Ackah-Sanzah	FortisBC Energy Inc.	tim.ackah-sanzah@fortisbc.com	(604) 576-7108
Bryan	Brandel	Idaho Power	bbrandel@idahopower.com	(208) 388-2532

Chart continued on next page.

## APPENDIX A - SURVEY PARTICIPANTS CONTINUED

Contact Name (First)	Contact Name (Last)	Company Name	Contact Email	Contact Phone
Thessa	Smith	Jamaica Public Service Company	tsmith@jpsco.com	(876) 878-3700
Amanda	Tabler	LGE-KU	amanda.tabler@lge-ku.com	(502) 333-1908
Sara	Adley	National Grid	sara.fam@nationalgrid.com	(781) 250-9369
William	Young	OGE Energy Corp	youngwc@oge.com	(405) 553-3469
Mark	Impomeni	Orange and Rockland Utilities, Inc.	impomenim@oru.com	(845) 988-6546
Josh	Lee	Pacific Gas and Electric Company	hsin.lee@pge.com	(925) 360-9568
Kristofer	Knittle	PPL Electric Utilities Corporation	keknittle@pplweb.com	(717) 650-4767
William	harley	PSEG, Inc.	william.harley@pseg.com	(973) 865-0941
Ray	Duncan	San Diego Gas and Electric	rdincan@sdge.com	(619) 417-6411
Sandra	Machado	Southern Ca Edison	sandra.machado@sce.com	(626) 201-8726
Leanne	Fowler	Southern Company	lfowler@southernco.com	(205) 335-4366
Donald	Watson	Vistra Corporation	Donald.Watson@Vistracorp.com	(618) 406-3615
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 utility 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 utility regardless of whether the individual is an employee of an on system (i.e., regular contractor to your utility) or an off-system contractor such as crews who have never worked for your utility 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 utility 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 utility 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 UTILITY/CONTRACTOR SAFETY TASK FORCE

Name	Company	Email	Phone
Michelle Baber	FirstEnergy	mbaber@firstenergycorp.com	(724) 366-1968
Allan Buzhardt	Duke Energy	allan.buzhardt@duke-energy.com	(704) 382-8882
Josh Schieffer	Duke Energy	joshua.schieffer@duke-energy.com	(828) 455-9734
Joe Conrad	Xcel Energy Services, Inc.	joseph.a.conrad@xcelenergy.com	(763) 493-1606
David Flener	Quanta Services	dflener@quantaservices.com	(281) 907-1629
Dan Gadacz	Power Corporation of America	dgadacz@pcapower.com	(321) 693-7230
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