2006-0049H



### DUKE ENERGY CORPORATION

139 East Fourth Street 1202 Main Cincinnati, OH 45201-0960 Telephone: (513) 287-4315 Facsimile: (513) 287-4385

Kristen Cocanougher Sr. Paralegal E-mail: Kristen.cocanougher@duke-energy.com

### **VIA OVERNIGHT MAIL**

March 15, 2011

Mr. John A. Rogness III
Director of Engineering
Kentucky Public Service Commission
P.O. Box 615
211 Sower Boulevard
Frankfort, KY 40602

RECEIVED

MAR 1 6 2011

PUBLIC SERVICE COMMISSION

Re: <u>2010 Reliability Report and Vegetation Management Plan Update</u> 2010 Calendar Year

Dear Mr. Rogness:

Enclosed please find the signed copy of the Duke Energy Kentucky, Inc. 2010 Reliability Report and Vegetation Management Plan Update.

Sincerely,

Kristen Cocanougher

Britten Counnight

Enclosure

### COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

DUKE ENERGY KENTUCKY, INC.
RELIABILITY REPORT AND VEGETATION MANAGEMENT PLAN UPDATE
FOR CALENDAR YEAR 2010

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Worst	Performing Circuit SAIFI	Exhibit D
Worst	Performing Circuit CAIDI	Exhibit E
Worst	Performing Circuit SAIDI	Exhibit F
Vegeta	ation Management Plan and Amendments	Exhibit G

### I. Introduction

On October 26, 2007, the Commission issued its Order requiring all jurisdictional utilities to file annual reliability reports and to develop vegetation management plans.<sup>1</sup> Pursuant to the Order, jurisdictional utilities were required to report a minimum of 5 years of reliability data. The reports are required to be based upon a calendar year (January to December) and filed by the first business day in April in the year immediately following the reporting year.

Duke Energy Kentucky, Inc. (Duke Energy Kentucky or the Company) submits its Reliability Report and Vegetation Management Plan update for Calendar year 2010 as required by the Commission's October 26, 2007 Order in Case No. 2006-00494.

### II. Reliability Report Summary

Exhibit A of the reliability report includes measurements of total system performance using the System Average Interruption Duration Index (SAIDI), the System Average Interruption Frequency Index (SAIFI), and the Customer Average Interruption Duration Index (CAIDI) calculated for each of the preceding five twelve- month periods, including the reporting year. Duke Energy Kentucky uses IEEE Std. 1366 to determine major event days for the purpose of weather-normalizing outage data when calculating the reliability indices SAIFI, SAIDI and CAIDI. Except where noted in the year-end Indices, major event days have been excluded from all reliability measures in this report.

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 $<sup>^1</sup>$  In re An Investigation of the Reliability Measures of Kentucky's Jurisdictional Electric Utilities.. Case No 2006-00494. (Order at 8)(October 27, 2007).

Exhibit B contains a list of customer interruptions by the ten most significant cause categories for the most recent five twelve- month periods.<sup>3</sup> The cause codes used in Exhibit B are IEEE cause codes.

Exhibit C of the reliability report is an analysis of Duke Energy Kentucky's ten worst performing circuits on the system for the reporting period taking into consideration all three reporting indices.<sup>4</sup> This section includes an analysis of the cause of the poor performance, the circuit, index value, and the major outage category contributing to the circuit's performance. The durations of the reported outages are measured by number of minutes by index for SAIDI and CAIDI. This section also describes the corrective actions planned or already taken to improve circuit performance.

Exhibits D, E, and F of the reliability report comprise a list of the ten worst performing circuits in 2010 as determined by the individual SAIFI, CAIDI, SAIFI indices, respectively. These sections also include the value index and primary cause of the circuit performance.

### III. Vegetation Management Plan Update and Summary

Duke Energy Kentucky filed its initial Vegetation Management Plan with this Commission on December 18, 2007 in Case No. 2006-00494. Duke Energy's Midwest Vegetation Management Group is responsible for controlling vegetation growth for 37,000 miles of transmission and distribution overhead electric lines and gas supply lines in Ohio, Indiana and Kentucky.

Exhibit G is a copy of Duke Energy Kentucky's Vegetation Management Plan. There have been no amendments or changes to the plan since it was initially filed with

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<sup>&</sup>lt;sup>3</sup> *Id.* at 9, paragraph 6. <sup>4</sup> *Id.* at 7.

the Commission on December 18, 2007. There are no amendments or changes planned

for 2010.

As part of its 2010 scheduled maintenance, Duke Energy Kentucky trimmed trees

and vegetation along 407.1 miles of its distribution system. Duke Energy has completed

all scheduled trimming for 2010.

As part of its 2011 maintenance schedule, Duke Energy Kentucky will trim trees

and maintain vegetation along 394.2 miles of its distribution system. In the first quarter

of 2011, Duke Energy Kentucky has experienced extreme weather conditions, including

snowfall that has slowed our progress. As of February 28, 2011, Duke Energy Kentucky

has completed approximately 7.9 miles (2%) of its scheduled distribution system

trimming and maintenance. This leaves approximately 386.3 miles to be trimmed

throughout 2011. The Company does not anticipate any difficulty in completing all

planned trimming for 2011. The Company will have sufficient crew's coverage

throughout the year.

Respectfully submitted,

Rocco O. D'Ascenzo (92796)

Associate General Counsel

Amy B. Spiller (85309)

Deputy General Counsel

Duke Energy Kentucky, Inc.

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Reliability Report and Vegetation Management Plan Update Exhibit A

2010 Duke Energy Kentucky

2001 2002 2002 2003 2004 2005 2006 2007 2008 2009 Year 

 Major Event Days Included

 SAIFI
 CAIDI
 SAIDI

 1.67
 215.3
 359.6

 1.66
 86.0
 142.5

 1.72
 100.1
 172.3

 1.07
 74.4
 79.9

 1.24
 94.5
 117.1

 2.05
 141.0
 289.7

 1.59
 179.8
 286.7

 2.38
 741.7
 1,762.1

 **Duke Kentucky Year-End Reliability Indices** 126.6 92.0 199.9 136.1 SAIFI Major Event Days Excluded 1.04 1.07 1.49 1.55 1.43 CAIDI 82.5 98.3 101.3 94.1 81.3 85.2 83.1 74.3 77.3 87.9 116.5 108.3 106.4 SAIDI 113.5 127.7 115.1 79.7 114.3 114.2 88.6

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### 2010 Duke Energy Kentucky Reliability Report and Vegetation Management Plan Update Exhibit B

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Acceptant Age 41		-	<del>Territoria</del>					***************************************		2005												2004												2003	YearPowerOff	out to the
	10	9	<b>&amp;</b>	7	<sub>o</sub>	5	•	w			12	11	10	9	8	7	6	ۍ.	4	3	2		12		10	9	8	7	6	5	4	ယ	2	1	MonthPowerOff	Sull of Cost litterrupt (Ci)
								273					5,342							518	474	3,010	553					579		772	479	102	35		Wildlife	ILLE Cause
			4,015		5,625								2,965										3,523				3,739			1,5	61	799	19,183	124	Equipment Failure	
	1,595																								A CAL WAY	2.23000			a					2,098	Епог	
158	4	178	65	324	24	139	269	29	15	1,082	26	4	8	28	51	364	65	79	30	157	4,993	1,163	33	481	1,394	238	1,706	1,614	1,890	62	39	42	647	895	Other	
127		16	52	596	:		2		1		139		-				9			7		5	6				299	12					3,833	92	Overload	
1.566	133	296	506	634	408	575	211	353	125	117	68	37	235	52	244	101	314	14	183	38	358	126	2	ယ	216	36	199	15	37	680	220	37	10	22	Planned	
1.362			4,718			156	82	1		42	393		9		2,953	4,627		4,411		420				125		1,361	7,301	27,467	1,118	6,738	75	7,691	30,345	19	Weather	
7.278	431	ر ن					3,722	3,238	2,475		2,880	3,543		1,153			2,678	3,989	82	251	248	62	18	670	579	2,283				7,838	370	124	272	8	Vegetation	
279	184	8,			584					13	2,267		599				2,577		1,082						2			2,493		2,358			161		Unknown	
107	2				ω			2,369					4,339		466		352		1,620			617						5				52	84	5	Public Accident	
		18,970						6,385															Γ		-						!				Month Totals	

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2010 Duke Energy Kentucky Reliability Report and Vegetation Management Plan Update Exhibit B

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10 063	135	327	619	2,539	256		45		877	5,265	10	
9,751	225	57	3,555	194	413	10	232		2,422	2,643	9	
19,320	2,206	5,772	444		184	11	2,036		6,817	1,033	œ	
24,028	21	290	14,285	3,080	101	29	133		2,973	3,116	7	
17,441	779	225	2,957	10,081	108	15	75		1,317	1,884	တ	
16,475	141	13	6,630	941	859		14		6,050	1,827	<b>O</b> 1	
8,768	137	4	17		377			955	5,568	563	4	
10,686	6,810	15	1,010	14	1,131	323	331		652	400	ω.	
9,439	747	4	1,115	4,584	243	19	17		2,547	163	2	
20,104	5,785	88	837	150	69	564	2,307		10,239	65	1	2008
19,362	8	5,105	7,033	197	29	13	85		6,582	310	12	
4,406	46	1	59	34	306		28		2,583	1,349	11	
17,861	281	8,860	2,234	1,066	117		182		3,643	1,478	10	
21,067	321	13,241	2,216		1,501	42	419		1,426	1,808	9	
10,100	35	51			544	135	59		3,637	947	00	
15,837	638	796	5,716	2	1,016		1,376		2,889	1,195	7	
17,417		3,303			261	2	30		1,703	2,408	6	
11,522	3,735	112	2,611	517	151		14		1,764	2,618	5	
11,699	2,254	841		3,895	118		89		265	668	4	
4,900	36		2,477	38	130		76		1,402	740	w	
8,898	58	5	4,982	231	402	36	23		2,872	289	2	
10,692	125	6,013	70	2	39	3	13		2,943	1,484	1	2007
4,244	444	-1	57	2	233		7		1,950	1,549	12	
11,204	5,187	271	454		679	_	16		1,168	3,428		
23,451	16,066	434	4,362	393	1,017		68		208	903	10	
7,375	1,582	752	964	1,417	258	2	67		583	1,750	9	
12,157	1,971	1,939			359	50	274		1,252	513	8	
28,729	775	2,797	5,222	8,282	82	63	216		8,819	2,473	7	
28,943	630	1,769			1,196	1	7,679		5,823	3,186	6	
7,977	869	1,891			272	824	10		659	2,911	5	
32,342	2,993	4,073	5		1,908	10	58		2,445	1,416	4	
12,032	2,784	154	44	1,670	264		715		5,739	264	3	
824	9	16	145		19	2	10		574	49	2	
21,938	1,166	3,156	4,407	445	896	3	107		11,399	287	1	2006
1,913	483	240	24		150	<b>-</b>	174		654	187	12	
Totals	Accident	Unknown	Vegetation	Weather	Planned	Overload	Other	Error	Equipment Failure	Wildlife	YearPowerOff   MonthPowerOff	YearPowerOff
										IEEE Cause	Sum of Cust Interrupt (CI)	Sum of Cust

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2010 Duke Energy Kentucky Reliability Report and Vegetation Management Plan Update Exhibit B

|--|

1,324,509	140,198	168,849	226,433	192,291	34,595	13,120	52,926	6,070	364,737	125,290		
24,320	475	120	2466		768		426		20011	53	12	
13,120	42	7616	222	31	746		239		3233	991	11	
20,43	1401	23		ω	631		746		13476	3705	10	
19,24	12	9519		279	288		653	1347	1986	2623	9	
24,40	109	14046	669	236	510	5	5494	1	2782	549	8	
5,91	665	45		85	162	12	294		1551	488	7	
28,57	788	340		9502	297		527		11184	1605	6	
4,96		162		2005	202		670		849	788	<b>ট</b>	
13,260	7453	131		159	118		176		4966	158	4	
8,418	2123	15		2315	648		237		2539	505	ယ	
3,628	85	5		485	751	4	o	68	1760	315	2	
8,198	6760	14	27	26	480	6	10	5	501	369	1	2010
23,085	825	12,992	678	144	157	3,428	492		4,009	360	12	
8,02	1,864	ω	137		232		57		2,796	2,933	11	
6,256	o	178	603	_	564	_	83		3,098	1,722	10	
4,54	27	10	1,306	89	641		36		618	1,814	9	
8,97	438	145	451	412	450	816	2,679		3,061	522	8	
12,369	2,106	63	1,141	4,026	307		74		2,930	1,722	7	
29,69	33	1,737	3,949	3,898	955	126	95		17,714	1,192	6	
21,61	2,116		274	262	265	6	58	a liter y . ph st y	2,674	15,956	<b>C</b> T	
6,038	966	16	1,945	303	143		632	**************************************	1,516	517	4	
16,060	136	23	101	2,095	372		393		12,051	889	ယ	
7,77	137	37	541	1,171	291	239	35		5,038	284	2	
7,803	85	2	1,016	4,906	318	115	128		749	484	1	2009
9,181	2,332	15	529	1,546	197	187	2,129		2,023	223	12	
13,77	1,381	564	7,759		109	660	. 49		1,680	1,571	_	
Month Totals	Public Accident	Unknown	Vegetation	Weather	Planned	Overload	Other	Епог	Equipment Failure	Wildlife	YearPowerOff   MonthPowerOff	YearPowerOff
										IEEE Cause	Sum of Cust Interrupt (CI)	Sum of Cus

2010 Duke Energy Kentucky Reliability Report and Vegetation Management Plan Update Exhibit C

						<del>,</del>	,	
00	7	6	5	4	3	2	-	Rank
18	15	13	11	8	7	7	6	Sum of Ranks
H9320700044	1 .	Н8323040043	н9322990041	H9323040041	н9320860042	н9323040042	H9320860041	Circuit Number
CRESCENT 44	RICHWOOD 41	WHITE TOWER 43	DECORSEY 41	WHITE TOWER 41	BEAVER 42	WHITE TOWER 42	BEAVER 41	Circuit Number   Substation Name- Feeder
282.2	442.6	290.6	283.5	411.7	360.2	374.0	435.2	Feeder SAIDI Feeder SAIFI Feeder CAIDI SubCirc SAIDI Rank SAIFI Rank CAIDI Rank
9	_	7	8	8	6	5	2	SAIDI Rank
3.20	2.67	4.30	4.95	4.86	6.05	5.15	4.92	Feeder SAIFI Feeder SAIFI Rank CAIDI
9	14	6	ω	5	H	2	4	SAJFI Rank
88.2	165.9	67.6	57.2	84.8	59.6	72.6	88.4	Feeder CAIDI
73	15					90		CAIDI Rank
73 070-44	199-41	102 304-43	108 299-41	304-41	107 086-42	304-42	72 086-41	SubCire
This circuit is on the worst-10 list because of unknown outages.	This circuit is on the worst-10 list because of public accident outages.	This circuit is on the worst-10 list because of unknown outages.	This circuit is on the worst-10 list because of unknown outages.	75 304-41 This circuit is on the worst-10 list because of unknown outages.	This circuit is on the worst-10 list because of equipment and unknown outages.	90 304-42 This circuit is on the worst-10 list because of equipment and public accident outages.	This circuit is on the worst-10 list because of unknown outages.	c Analysis and Major Contributing Outage Category
Entire circuit is in the progress of physical review and upgrade. Automated circuit sectionalization is being added.	Split between C5967 transmission outages and Public accidents. Vegetation Management and Maintenance are in presently working on physical transmission line upgrades. Repairs have been made to the public accidents.	Mostly due to C\$967 transmission outages. Vegetation Management and Maintenance are in presently working on physical transmission line upgrades	Mostly due to C5967 transmission outages.  Vegetation Management and Maintenance are in presently working on physical transmission line upgrades	Mostly due to C5967 transmission outages.  Vegetation Management and Maintenance are in presently working on physical transmision line upgrades	Mostly due to C5967 transmission outages.  Vegetation Management and Maintenance are in presently working on physical transmission line upgrades	Mostly due to C5967 transmission outages.  Vegetation Management and Maintenance are in presently working on physical transmission line upgrades	Mostly due to C5967 transmission outages.  Vegetation Management and Maintenance are in presently working on physical transmission line upgrades	Action Taken or Planned

2010 Duke Energy Kentucky Reliability Report and Vegetation Management Plan Update Exhibit C

5	9
22	20
H9320780042	Н9321470041
10 22 H9320780042 AUGUSTINE 42	20 H9321470041 CLARYVILLE 41
264.5	250.4
11	12
2.91	3.20
=	80
90.8	78.2
70	83
078-42	147-44
264.5 11 2.91 11 90.8 70 078-42 This circuit is on the worst-10 list because of equipment outages.	250.4 12 3.20 8 78.2 83 147-44 This circuit is on the worst-10 list because of equipment outages.
Failed Jumper has been replaced	Split between C5967 transmission outages and equipment outages. Vegetation Management and Maintenance are in presently working on physical transmision line upgrades. Faulted distribution line equipment has been replace

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Reliability Report and Vegetation Management Plan Update

Exhibit D

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			,	-	)		)		
		Feeder	SAIDI	Feeder	SAIFI	Feeder	CAIDI	SilbOiro Oiro	Major Outage
Kank	Substation Name-Feeder	SAIDI	Rank	SAIFI	Rank	CAIDI	Rank	OUDCIIC	Category
-	BEAVER 42	360.2	6	6.05	1	59.6	107	086-42	Equipment Failure
2	WHITE TOWER 42	374.0	5	5.15	2	72.6	90	90 304-42	Public Accident
ω	DECORSEY 41	283.5	8	4.95	3	57.2	108	.08 299-41	Unknown
4	BEAVER 41	435.2	2	4.92	4	88.4	72	086-41	Unknown
5	WHITE TOWER 41	411.7	3	4.86	5	84.8	75	75 304-41	Unknown
6	WHITE TOWER 43	290.6	7	4.30	6	67.6	102	02 304-43	Unknown
7	CLARYVILLE 41	250.4	12	3.20	8	78.2	83	83 147-44	Equipment Failure
8	CRESCENT 44	282.2	9	3.20	9	88.2	73	73 070-44	Unknown
9	AUGUSTINE 42	264.5	11	2.91	11	90.8	70	70 078-42	Equipment Failure
10	RICHWOOD 41	442.6	1	2.67	14	165.9	18	18 199-41	Public Accident

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2010 Duke Energy Kentucky
Reliability Report and Vegetation Management Plan Update
Exhibit E
Page 1 of 1

·		Feeder	SAIDI	Feeder	SAIFI	Feeder	CAIDI		Major Outage
Kank	Substation Name-Feeder	SAIDI	Rank	SAIFI	Rank	CAIDI	Rank	ממסווכ	Category
_	RICHWOOD 41	442.6	ы	2.67	14	165.9	18	18 199-41	Vegetation
2	AUGUSTINE 42	264.5	11	2.91	11	90.8	70	70 078-42	Weather
ω	BEAVER 41	435.2	2	4.92	4	88.4	72	72 086-41	Other
4	CRESCENT 44	282.2	9	3.20	9	88.2	73	73 070-44	Equipment Failure
5	WHITE TOWER 41	411.7	3	4.86	5	84.8	75	75 304-41	Weather
6	CLARYVILLE 41	250.4	12	3.20	∞	78.2	83	83 147-44	Weather
7	WHITE TOWER 42	374.0	5	5.15	2	72.6	90	90 304-42	Weather
<u></u> ω	WHITE TOWER 43	290.6	7	4.30	6	67.6	102	102 304-43	Vegetation
9	BEAVER 42	360.2	6	6.05	1	59.6	107	086-42	Weather
10		283.5	8	4.95	3	57.2	108	108 299-41	Weather

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Reliability Report and Vegetation Management Plan Update

Exhibit F

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83 147-44		78.2	8	3.20	12	250.4	CLARYVILLE 41	10
70 078-42	œ	90.8	11	2.91	11	264.5	AUGUSTINE 42	9
73 070-44	in	88.2	9	3.20	9	282.2	CRESCENT 44	8
108 299-41	liv	57.2	3	4.95	∞	283.5	DECORSEY 41	7
102 304-43	l o	67.6	6	4.30	7	290.6	WHITE TOWER 43	6
107 086-42	اضا	59.6	1	6.05	6	360.2	BEAVER 42	5
90 304-42	1 :	72.6	2	5.15	5	374.0	WHITE TOWER 42	4
75 304-41	1	84.8	5	4.86	3	411.7	WHITE TOWER 41	ယ
72 086-41	4	88.4	4	4.92	2	435.2	BEAVER 41	2
18 199-41	ە ا	165.9	14	2.67	L	442.6	RICHWOOD 41	_
Rank	•	CAIDI	Rank	SAIFI	Rank	SAIDI	Substation Name-Feeder	Kank
CAIDI	-	Feeder	IAIVS	Feeder	IDIAS	Feeder		

Duke Energy Kentucky Reliability Report and Vegetation Management For Calendar Yr. 2010 Exhibit G

### Duke Energy Kentucky's Vegetation Management Plan

### Goals

Duke Energy's goals for its Vegetation Management Operations are to balance the need for reliable utility service with safe and cost-effective vegetation management practices that preserve our local communities' natural surroundings, aesthetics and the environment. Targeted herbicides provide one of the most cost-effective and environmentally friendly means of controlling undesirable vegetation.

### **Safety**

Our goals are to work safely at all times to achieve a zero injury culture and to minimize the safety risk of vegetation and conductor contacts. Serious or fatal shocks can occur when working in trees near power lines. Duke Energy strives to minimize that risk by trimming properly in accordance with industry tree trimming safety standards.

### Reliability

Duke Energy's electric service reliability, as measured by SAIFI and SAIDI, has improved in recent years due in part to our more rigorous tree trimming practices. Duke Energy strives to trim its Kentucky distribution circuits every four-and-one-half years and transmission every six years.

### Tree Care Standards

Duke Energy requires its employees and contractors to prune trees in accordance with American National Standards Institute ("ANSI") and National Arborist Association ("NAA") standards. The relevant standards are ANSI Z133, Safety in Tree Trimming Operations, and ANSI A300, Safety in Tree Care Operations. These ANSI standards were developed in cooperation with the NAA. Additionally, Duke Energy follows the practices in <u>Field Guide for Qualified Line Clearance Tree Workers</u> by Dr. Alex L. Shigo, former head of the U.S. Forest Service. In rural areas, Duke Energy may authorize its contractors to use mechanized pruning equipment.

### **Tree Trimming Specifications**

### 69KV and above Transmission Lines

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Duke Energy Kentucky Reliability Report and Vegetation Management For Calendar Yr. 2010 Exhibit G

- 15 feet clearance to the side from all conductors.
- 15 feet clearance below the lowest conductor.
- No overhanging/encroaching branches permitted.
- Trim to the previously established widths of our right-of-way and practice established beyond the 15 feet widths.

### 3 Phase Primary Lines

- 10 feet clearance to the side from all conductors.
- 10 feet clearance below the conductors.
- No overhanging/encroaching branches.

### Single Phase and Two Phase Primary lines

- 10 feet clearance to the side from all conductors.
- 10 feet clearance below the conductors.
- Overhang: all live branches above the conductors shall be removed to a minimum height of 15 feet, and at a 45-degree angle. All dead and structurally weak branches overhanging any primary voltage wires shall be removed.
- Underneath the primary: 10 feet clearance from the conductors to the closest limbs beneath the phases.

### **Secondary Lines**

- 5 feet clearance to the side from the secondary line.
- 5 feet clearance above and below the secondary line.

### Services Lines

• 1 foot swing clearance from all service lines.

### Brush/Wood Removal

- Circuit maintenance brush is removed, wood cut into movable pieces.
- Customer may request off-cycle maintenance in accordance with the clearance standards above brush and wood is customer's responsibility.
- Storm Work no brush or wood removal.

### **Customer Notification**

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Duke Energy Kentucky Reliability Report and Vegetation Management For Calendar Yr. 2010 Exhibit G

- Duke Energy customers are notified of tree trimming being done on their property by door hanger cards.
- Duke Energy requires its contractors to contact local government officials prior to beginning work in the community.

### Right Tree In The Right Place

• Duke Energy will cooperate in tree removal with local government officials as needed.

### Determination of Need to Perform Maintenance/Evaluation of Plan Effectiveness

Duke Energy regularly monitors its SAIFI and SAIDI measures. If SAIFI or SAIDI were to significantly decline, Duke Energy would evaluate whether to modify its vegetation management practices, including its right-of-way clearing cycle, in order to improve SAIFI and SAIDI performance. Duke Energy also monitors the performance of individual circuits. In an individual circuit has a significant number of outages, Duke Energy will perform off-cycle tree trimming as needed. Duke Energy also monitors industry tree trimming standards and modifies its tree trimming practices as necessary to meet or exceed industry standards.

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