APPENDIX F

Telephone Survey

APPENDIX F: TELEPHONE SURVEY

1. INTRODUCTION

The development of evacuation time estimates for the Emergency Planning Zone (EPZ) of the Lee Nuclear Station requires the identification of travel patterns, car ownership and household size of the population within the EPZ. Demographic information is obtained from Census data. The use of this data has several limitations when applied to emergency planning. First, the census data do not encompass the range of information needed to identify the time required for preliminary activities that must be undertaken prior to evacuating the area. Secondly, census data do not contain attitudinal responses needed from the population of the EPZ and consequently may not accurately represent the anticipated behavioral characteristics of the evacuating populace.

These concerns are addressed by conducting a telephone survey. The survey is designed to elicit information from the public concerning family demographics and estimates of response times to well defined events. The design of the survey includes a limited number of questions of the form "What would you do if ...?" and other questions regarding activities with which the respondent is familiar ("How long does it take you to ...?")

2. <u>SURVEY INSTRUMENT AND SAMPLING PLAN</u>

Attachment A presents the final survey instrument. A draft of the instrument was submitted for comment. Comments were received and the survey instrument was modified.

Following the completion of the instrument, a sampling plan was developed. A sample size of approximately 600 completed survey forms yields results with an acceptable sampling error. The sample must be drawn from the EPZ population. Consequently, a list of EPZ zip codes was developed. This list is shown in Table F-1. Along with each zip code, an estimate of the population in each area was determined. The proportional number of the desired completed survey interviews for each area was identified, as shown in Table F-1. The completed survey adhered to the sampling plan.

Table F-1. Telephone Survey Sampling Plan									
Zip Code	Population (2004)	Households Require							
28073	5,533	2,187	59						
29340	20,865	8,247	221						
29341	17,502	6,918	185						
29702	10,167	4,019	108						
29717	1,247	493	13						
29743	1,362	538	14						
Totals:	56,676	22,402 600							
Average Ho	Average Household Size 2.53								
Total Sam	ole Required	600)						

3. <u>SURVEY RESULTS</u>

The results of the survey fall into two categories. First, the household demographics of the area can be identified. Demographic information includes such factors as household size, automobile ownership, and automobile availability. The distributions of the time to perform certain pre-evacuation activities are the second category of survey results. These data are processed to develop the trip generation distributions used in the evacuation modeling effort.

Household Demographic Results

Household Size

Figure F-1 presents the distribution of household size within the EPZ. The average household contains 2.62 people. The estimated household size (2.53 persons) used to determine the survey sample (Table F-1) was drawn from Census data. The close agreement between the average household size obtained from the survey and from the Census is an indication of the reliability of the survey.



Figure F-1. Household Size in the EPZ

Automobile Ownership

The average number of automobiles per household in the EPZ is 2.08. It should be noted that approximately 4.7 percent of households do not have access to an automobile. The distribution of automobile ownership is presented in Figure F-2. Figures F-3 and F-4 present the automobile availability by household size. Note that the majority of households without access to a car are single person households. As expected, nearly all households of 2 or more people have access to at least one vehicle.



Figure F-2. Household Vehicle Availability



Figure F-3. Vehicle Availability – 1 to 4 Person Households



Figure F-4. Vehicle Availability – 5 to 8 Person Households

Schoolchildren

The average number of schoolchildren per household identified by the survey is 0.67 children per household. Figure F-5 presents the distribution of schoolchildren.



Figure F-5. Schoolchildren in Households

Commuters

Figure F-6 presents the distribution of the number of commuters in each household. The data shows an average of 1.12 commuters in each household in the EPZ.



Figure F-6. Commuters in Households in the EPZ

Commuter Travel Modes

Figure F-7 presents the mode of travel that commuters use on a daily basis. The vast majority of commuters use their private automobiles to travel to work or school.



Figure F-7. Modes of Travel in the EPZ

Evacuation Response

Several questions were asked which are used to gauge the population's response to an emergency. The first of these asked "How many of the vehicles that are usually available to the household would your family use during an evacuation?" The response is shown in Figure F-8. On average, 1.44 vehicles per household would be used for evacuation purposes.

The second evacuation response question asked was "When the commuters are away from home, is there a vehicle at home that is available for evacuation during an emergency?" Of the survey participants who responded, 65 percent said that there was another vehicle available to evacuate, while 35 percent answered that there would be no vehicle available for evacuation.

The third evacuation response question was "Would your family await the return of other family members prior to evacuating the area?" Of the survey participants who responded, 71 percent said they would await the return of other family members before evacuating and 29 percent indicated that they would not await the return of other family members.



Figure F-8. Number of Vehicles Used for Evacuation

Time Distribution Results

The survey asked several questions about the amount of time it takes to perform certain pre-evacuation activities. These activities involve actions taken by residents during the course of their day-to-day lives. Thus, the answers fall within the realm of the responder's experience.

How Long Does it Take the Commuter to Complete Preparation for Leaving Work?

Figure 9 presents the cumulative distribution; in all cases, the activity is completed by about 90 minutes. Fifty percent can leave within 15 minutes.



Figure F-9. Time Required to Prepare to Leave Work/School

How Long Would it Take the Commuter to Travel Home?



Figure F-10. Work to Home Travel Time

Figure F-10 presents the work to home travel time for the EPZ. In all cases, over 80 percent of commuters can arrive home within about 30 minutes of leaving work; nearly all within 90 minutes.

How Long Would it Take the Family to Pack Clothing, Secure the House, and Load the Car?

Figure F-11 presents the time required to prepare for leaving on an evacuation trip. In many ways this activity mimics a family's preparation for a short holiday or weekend away from home. Hence, the responses represent the experience of the responder in performing similar activities.

The distribution shown in Figure F-11 has a long "tail." Over 90 percent of households can be ready to leave home within an hour and a half; the remaining households require up to an additional two hours.



Figure F-11. Time to Prepare Home for Evacuation

4. <u>CONCLUSIONS</u>

The telephone survey provides valuable, relevant data that have been used to quantify "mobilization time" which can influence evacuation time estimates.

ATTACHMENT A

Telephone Survey Instrument

Survey Instrument

Hello, my name is ______ and I'm working on behalf of Duke Energy to identify local travel patterns in your area as part of licensing work for the William S. Lee Nuclear project. I'm collecting information to be used in a traffic engineering study in connection with an update of the county's emergency response plans. Your participation in this survey is important and will greatly enhance the county's emergency preparedness program.

Sex COL. 8

1 Male 2 Female

DO NOT	ASK:		
1A.	Record area code. To Be Determined		
	<u>COL. 9-11</u>		
1B.	Record exchange number. To Be Determined		
	<u>COL. 12-14</u>		
2.	What is your home Zip Code	<u>Col. 15-19</u>	
3.	In total, how many cars, or other vehicles are usually available to the household? (DO NOT READ ANSWERS.)	COL.20 1 ONE 2 TWO 3 THREE 4 FOUR 5 FIVE 6 SIX 7 SEVEN 8 EIGHT 9 NINE OR MORE 0 ZERO (NONE) X REFUSED	
4.	How many people usually live in this household? (DO NOT READ ANSWERS.)	COL.21COL.221ONE02TWO12TWEUVE3THREE24FOUR35FIVE46SIX57SEVEN68EIGHT79NINE89NINEEXREFUSEXREFUSE	EN SN 4 5 EN EN SN OR MORE O

5. How many children living in this household go to local public, private, or parochial schools? (DO NOT READ ANSWERS.)

6.

COL.23 ZERO 0 ONE 1 2 TWO 3 THREE 4 FOUR 5 FIVE 6 SIX 7 SEVEN 8 EIGHT 9 NINE OR MORE X REFUSED

7

7

7

7

How many people in the household COL.24 SKIP TO commute to a job, or to college, 0 ZERO Q. 12 at least 4 times a week? ONE Q. 1 2 TWO Q. 3 THREE Q. FOUR OR MORE 4 Q. DON'T KNOW/REFUSED Q. 12 5

INTERVIEWER: For each person identified in Question 6, ask Questions 7, 8, 9, and 10.

7. Thinking about commuter #1, how does that person usually travel to work or college? (REPEAT QUESTION FOR EACH COMMUTER.)

	Commuter #1 COL.25	Commuter #2 COL.26	Commuter #3 COL.27	Commuter #4 COL.28
Rail	1	1	1	1
Bus	2	2	2	2
Walk/Bicycle	3	3	3	3
Driver Car/Van	4	4	4	4
Park & Ride (Car/Rail, Xpress_bus)	5	5	5	5
Driver Carpool-2 or more people	6	6	6	6
Passenger Carpool-2 or more people	7	7	7	7
Taxi	8	8	8	8
Refused	9	9	9	9

What is the name of the city, town or community in which Commuter #1 works or attends school? 8. (REPEAT QUESTION FOR EACH COMMUTER.) (FILL IN ANSWER.)

COMMUTER #1			CO	MMUTER	#2	COM	MUTER #3	3	COMMUTER #4				
City	City/Town Stat		own State City/Town St			City,	/Town	State	City/Town State				
COL.29	COL.30	COL.31	COL.32	COL.33	COL.34	COL.35	COL.36	COL.37	COL.38	COL.39	COL.40		
0	0	0	0	0	0	0	0	0	0	0	0		
1	1	1	1	1	1	1	1	1	1	1	1		
2	2	2	2	2	2	2	2	2	2	2	2		
3	3	3	3	3	3	3	3	3	3	3	3		
4	4	4	4	4	4	4	4	4	4	4	4		
5	5	5	5	5	5	5	5	5	5	5	5		
6	6	6	6	6	6	6	6	6	6	6	6		
7	7	7	7	7	7	7	7	7	7	7	7		
8	8	8	8	8	8	8	8	8	8	8	8		
9	9	9	9	9	9	9	9	9	9	9	9		

 How long would it take Commuter #1 to travel home from work or college? (REPEAT QUESTION FOR EACH COMMUTER.) (DO NOT READ ANSWERS.)

COMMUTER #1					COMMUTER #2						
co	L.41	CC	DL.42	CO	L.43	CO	L.44				
1	5 MINUTES OR LESS	1	46-50 MINUTES	1	5 MINUTES OR LESS	1	46-50 MINUTES				
2	6-10 MINUTES	2	51-55 MINUTES	2	6-10 MINUTES	2	51-55 MINUTES				
3	11-15 MINUTES	3	56 - 1 HOUR	3	11-15 MINUTES	3	56 - 1 HOUR				
4	16-20 MINUTES	4	OVER 1 HOUR, BUT	4	16-20 MINUTES	4	OVER 1 HOUR, BUT				
5	21-25 MINUTES		LESS THAN 1 HOUR	5	21-25 MINUTES		less than 1 hour				
6	26-30 MINUTES	_	15 MINUTES	6	26-30 MINUTES	_	15 MINUTES				
7	31-35 MINUTES	5	BETWEEN 1 HOUR	7	31-35 MINUTES	5	BETWEEN 1 HOUR				
8	36-40 MINUTES		16 MINUTES AND 1	8	36-40 MINUTES		16 MINUTES AND 1				
9	41-45 MINUTES	6	HOUR 30 MINUTES	9	41-45 MINUTES	~	HOUR 30 MINUTES				
		6	BETWEEN 1 HOUR			6	BETWEEN 1 HOUR				
			31 MINUTES AND 1				31 MINUTES AND 1				
		_	HOUR 45 MINUTES			_	HOUR 45 MINUTES				
		/	BETWEEN I HOUR			/	BETWEEN I HOUR				
			46 MINUTES AND				46 MINUTES AND				
		0	Z HOURS			0	2 HOURS				
		8	(ODECIEV)			8	(SDECIEX)				
		0	(SPECIFI)			0	(SPECIFI)				
		9				9					
		v	DON'T KNOW/REFUSED			x	DON'T KNOW/REFUSED				
		21	DOW 1 MMOW/ MELOSED			21	DOIN I INNOW/INELODED				
~~	COMMUT	ER	#3		COMMUT	ER	#4				
CO	<u>COMMUT</u>	ER CO	# <u>3</u> <u>L.46</u>	<u>co</u> :	COMMUT	ER CO	# <u>4</u> L. 48				
<u>co</u>	<u>COMMUT</u> 5 MINUTES OR LESS	ER <u> CO</u> 1	# <u>3</u> 1.46 46-50 MINUTES	<u>co</u>	COMMUT 5 MINUTES OR LESS	ER CO 1	#4 1.48 46-50 MINUTES				
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CO 1 2 3 4 5 6 7 8 9	COMMUT 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 2 3 4 5 6 7 8 9 0	<pre>#3 L.46 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES BETWEEN 1 HOUR 16 MINUTES AND 1 HOUR 30 MINUTES BETWEEN 1 HOUR 31 MINUTES BETWEEN 1 HOUR 46 MINUTES BETWEEN 1 HOUR 46 MINUTES AND 2 HOURS OVER 2 HOURS (SPECIFY)</pre>	CC 1 2 3 4 5 6 7 8 9	L.47 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 2 3 4 5 6 7 8 9 0	<pre>#4 L.48 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES BETWEEN 1 HOUR 16 MINUTES AND 1 HOUR 30 MINUTES BETWEEN 1 HOUR 31 MINUTES AND 1 HOUR 45 MINUTES BETWEEN 1 HOUR 46 MINUTES AND 2 HOURS OVER 2 HOURS (SPECIFY)</pre>				

10. Approximately how long does it take Commuter #1 to complete preparation for leaving work or college prior to starting the trip home? (REPEAT QUESTION FOR EACH COMMUTER.) (DO NOT READ ANSWERS.)

	COMMUT	ER	#1	COMMUTER #2							
CO	L. 49	CO	L.50	CO	L.51	L. 52					
1	5 MINUTES OR LESS	1	46-50 MINUTES	1	5 MINUTES OR LESS	1	46-50 MINUTES				
2	6-10 MINUTES	2	51-55 MINUTES	2	6-10 MINUTES	2	51-55 MINUTES				
3	11-15 MINUTES	3	56 - 1 HOUR	3	11-15 MINUTES	3	56 - 1 HOUR				
4	16-20 MINUTES	4	OVER 1 HOUR, BUT	4	16-20 MINUTES	4	OVER 1 HOUR, BUT				
5	21-25 MINUTES		LESS THAN 1 HOUR	5	21-25 MINUTES		LESS THAN 1 HOUR				
6	26-30 MINUTES		15 MINUTES	6	26-30 MINUTES		15 MINUTES				
7	31-35 MINUTES	5	BETWEEN 1 HOUR	7	31-35 MINUTES	5	BETWEEN 1 HOUR				
8	36-40 MINUTES		16 MINUTES AND 1	8	36-40 MINUTES		16 MINUTES AND 1				
9	41-45 MINUTES		HOUR 30 MINUTES	9	41-45 MINUTES		HOUR 30 MINUTES				
		6	BETWEEN 1 HOUR			6	BETWEEN 1 HOUR				
			31 MINUTES AND 1				31 MINUTES AND 1				
			HOUR 45 MINUTES				HOUR 45 MINUTES				
		7	BETWEEN 1 HOUR			7	BETWEEN 1 HOUR				
			46 MINUTES AND				46 MINUTES AND				
			2 HOURS				2 HOURS				
		8	OVER 2 HOURS			8	OVER 2 HOURS				
		Ũ	(SPECIFY)			0	(SPECIFY)				
		9	(/			9	(/				
		0				0					
		x	DON'T KNOW/REFUSED			x	DON'T KNOW/REFUSED				
			2011 1 111011/11210022				2011 1 10.001, 1021 0022				
	COMMUT	ER	#3		COMMUT	ER	#4				
co	<u>COMMUT</u> L. 53	ER CO	# <u>3</u> L. 54	со	COMMUT	ER CC	# <u>4</u> DL. 56				
<u>co:</u> 1	<u>COMMUT</u> <u>5 MINUTES OR LESS</u>	ER <u>CO</u> 1	<u>#3</u> 1. 54 46-50 minutes	200 1	COMMUT DL. 55 5 MINUTES OR LESS	ER <u>CC</u> 1	<u>#4</u> DL. 56 46-50 MINUTES				
<u>co</u> 1 2	<u>COMMUT</u> L. 53 5 MINUTES OR LESS 6-10 MINUTES	ER <u> CO</u> 1 2	#3 1. 54 46-50 MINUTES 51-55 MINUTES	2 1 2	COMMUT DL. 55 5 MINUTES OR LESS 6-10 MINUTES	ER 1 2	#4 DL. 56 46-50 MINUTES 51-55 MINUTES				
1 2 3	<u>COMMUT</u> 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES	ER <u> CO</u> 1 2 3	#3 1. 54 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR	1 2 3	COMMUT DL. 55 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES	ER 1 2 3	#4 DL. 56 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR				
CO 1 2 3 4	COMMUT 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES	ER 1 2 3 4	<pre>#3 L. 54 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT</pre>	1 2 3 4	COMMUT 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES	ER 1 2 3 4	#4 DL. 56 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT				
CO 1 2 3 4 5	COMMUT 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES	ER 1 2 3 4	#3 1.54 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR	2 1 2 3 4 5	COMMUT 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES	ER 1 2 3 4	#4 DL. 56 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR				
CO 1 2 3 4 5 6	COMMUT 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES	ER 1 2 3 4	#3 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES -	CC 1 2 3 4 5 6	COMMUT 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES	ER 1 2 3 4	#4 1. 56 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES				
CO 1 2 3 4 5 6 7	COMMUT L. 53 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES	ER 1 2 3 4	<pre>#3 L. 54 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES - BETWEEN 1 HOUB</pre>	CC 1 2 3 4 5 6 7	COMMUT 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES	ER 1 2 3 4	#4 11. 56 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES BETWEEN 1 HOUR				
CO 1 2 3 4 5 6 7 8	<u>COMMUT</u> 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES	ER 1 2 3 4 5	<pre>#3 L. 54 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES - BETWEEN 1 HOUR 16 MINUTES AND 1</pre>	CC 1 2 3 4 5 6 7 8	COMMUT 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES	ER 1 2 3 4 5	#4 11. 56 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES BETWEEN 1 HOUR 16 MINUTES AND 1				
CO 1 2 3 4 5 6 7 8 9	<u>COMMUT</u> 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES	ER 1 2 3 4 5	#3 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES - BETWEEN 1 HOUR 16 MINUTES AND 1 HOUR 30 MINUTES	CC 1 2 3 4 5 6 7 8 9	COMMUT 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 1 2 3 4 5	<pre>#4 DL. 56 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES BETWEEN 1 HOUR 16 MINUTES AND 1 HOUR 30 MINUTES</pre>				
CO 1 2 3 4 5 6 7 8 9	COMMUT 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 1 2 3 4 5	#3 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES - BETWEEN 1 HOUR 16 MINUTES AND 1 HOUR 30 MINUTES BETWEEN 1 HOUR	CC 1 2 3 4 5 6 7 8 9	COMMUT 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 1 2 3 4 5	<pre>#4 bi. 56 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES BETWEEN 1 HOUR 16 MINUTES AND 1 HOUR 30 MINUTES BETWEEN 1 HOUB</pre>				
CO 1 2 3 4 5 6 7 8 9	<u>COMMUT</u> 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 1 2 3 4 5	#3 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES - BETWEEN 1 HOUR 16 MINUTES AND 1 HOUR 30 MINUTES BETWEEN 1 HOUR 31 MINUTES AND 1	CC 1 2 3 4 5 6 7 8 9	COMMUT 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 1 2 3 4 5	#4 11. 56 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES BETWEEN 1 HOUR 16 MINUTES AND 1 HOUR 30 MINUTES BETWEEN 1 HOUR 31 MINUTES AND 1				
CO 1 2 3 4 5 6 7 8 9	<u>COMMUT</u> 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 2 3 4 5 6	<pre>#3 L. 54 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES BETWEEN 1 HOUR 16 MINUTES AND 1 HOUR 30 MINUTES BETWEEN 1 HOUR 31 MINUTES AND 1 HOUR 45 MINUTES</pre>	CC 1 2 3 4 5 6 7 8 9	COMMUT 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 1 2 3 4 5	#4 1. 56 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES BETWEEN 1 HOUR 16 MINUTES AND 1 HOUR 30 MINUTES BETWEEN 1 HOUR 31 MINUTES AND 1 HOUE 45 MINUTES				
CO 1 2 3 4 5 6 7 8 9	<u>COMMUT</u> 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 2 3 4 5 6	<pre>#3 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES - BETWEEN 1 HOUR 16 MINUTES AND 1 HOUR 30 MINUTES BETWEEN 1 HOUR 31 MINUTES AND 1 HOUR 45 MINUTES BETWEEN 1 HOUB</pre>	CC 1 2 3 4 5 6 7 8 9	COMMUT 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 1 2 3 4 5 6	#4 1. 56 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES BETWEEN 1 HOUR 16 MINUTES AND 1 HOUR 30 MINUTES BETWEEN 1 HOUR 31 MINUTES AND 1 HOUR 45 MINUTES BETWEEN 1 HOUB				
CO 1 2 3 4 5 6 7 8 9	<u>COMMUT</u> 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 2 3 4 5 6 7	<pre>#3 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES BETWEEN 1 HOUR 16 MINUTES AND 1 HOUR 30 MINUTES BETWEEN 1 HOUR 31 MINUTES AND 1 HOUR 45 MINUTES BETWEEN 1 HOUR 46 MINUTES AND</pre>	CC 1 2 3 4 5 6 7 8 9	COMMUT 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 1 2 3 4 5 6 7	<pre>#4 D1. 56 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES BETWEEN 1 HOUR 16 MINUTES AND 1 HOUR 30 MINUTES BETWEEN 1 HOUR 31 MINUTES AND 1 HOUR 45 MINUTES BETWEEN 1 HOUR 46 MINUTES AND</pre>				
CO 1 2 3 4 5 6 7 8 9	<u>COMMUT</u> 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 2 3 4 5 6 7	<pre>#3 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES - BETWEEN 1 HOUR 16 MINUTES AND 1 HOUR 45 MINUTES BETWEEN 1 HOUR 31 MINUTES AND 1 HOUR 45 MINUTES BETWEEN 1 HOUR 46 MINUTES AND 2 HOURS </pre>	CC 1 2 3 4 5 6 7 8 9	COMMUT 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 1 2 3 4 5 6 7	<pre>#4 DL. 56 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES BETWEEN 1 HOUR 16 MINUTES AND 1 HOUR 30 MINUTES BETWEEN 1 HOUR 31 MINUTES AND 1 HOUR 45 MINUTES BETWEEN 1 HOUR 46 MINUTES AND 2 HOURS</pre>				
CO 1 2 3 4 5 6 7 8 9	COMMUT 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 2 3 4 5 6 7 8	<pre>#3 L. 54 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES - BETWEEN 1 HOUR 16 MINUTES AND 1 HOUR 30 MINUTES BETWEEN 1 HOUR 31 MINUTES AND 1 HOUR 45 MINUTES BETWEEN 1 HOUR 46 MINUTES AND 2 HOURS OVER 2 HOURS</pre>	CC 1 2 3 4 5 6 7 8 9	COMMUT 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 1 2 3 4 5 6 7	<pre>#4 DL. 56 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES BETWEEN 1 HOUR 16 MINUTES AND 1 HOUR 30 MINUTES BETWEEN 1 HOUR 31 MINUTES AND 1 HOUR 45 MINUTES BETWEEN 1 HOUR 46 MINUTES AND 2 HOURS OVER 2 HOURS</pre>				
CO 1 2 3 4 5 6 7 8 9	<u>COMMUT</u> 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 11-25 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 2 3 4 5 6 7 8	<pre>#3 L. 54 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES - BETWEEN 1 HOUR 16 MINUTES AND 1 HOUR 30 MINUTES BETWEEN 1 HOUR 31 MINUTES AND 1 HOUR 45 MINUTES BETWEEN 1 HOUR 46 MINUTES AND 2 HOURS OVER 2 HOURS (SPECLEY))</pre>	CC 1 2 3 4 5 6 7 8 9	COMMUT 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 1 2 3 4 5 6 7 8	#4 DL. 56 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES BETWEEN 1 HOUR 16 MINUTES AND 1 HOUR 30 MINUTES BETWEEN 1 HOUR 31 MINUTES AND 1 HOUR 45 MINUTES BETWEEN 1 HOUR 46 MINUTES AND 2 HOURS OVER 2 HOURS (SPECIFY)				
CO 1 2 3 4 5 6 7 8 9	<u>COMMUT</u> 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 2 3 4 5 6 7 8 9	<pre>#3 L. 54 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES - BETWEEN 1 HOUR 16 MINUTES AND 1 HOUR 30 MINUTES BETWEEN 1 HOUR 31 MINUTES BETWEEN 1 HOUR 31 MINUTES BETWEEN 1 HOUR 46 MINUTES AND 2 HOURS OVER 2 HOURS (SPECIFY)</pre>	CC 1 2 3 4 5 6 7 8 9	DL. 55 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 1 2 3 4 5 6 7 8 9	<pre>#4</pre>				
CO 1 2 3 4 5 6 7 8 9	<u>COMMUT</u> 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 2 3 4 5 6 7 8 9 0	<pre>#3 L. 54 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES BETWEEN 1 HOUR 16 MINUTES AND 1 HOUR 30 MINUTES BETWEEN 1 HOUR 31 MINUTES AND 1 HOUR 45 MINUTES BETWEEN 1 HOUR 46 MINUTES AND 2 HOURS OVER 2 HOURS (SPECIFY)</pre>	CC 1 2 3 4 5 6 7 8 9	DL. 55 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 11-25 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 1 2 3 4 5 6 7 8 9 0	<pre>#4 1. 56 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES BETWEEN 1 HOUR 16 MINUTES AND 1 HOUR 30 MINUTES BETWEEN 1 HOUR 31 MINUTES AND 1 HOUR 45 MINUTES BETWEEN 1 HOUR 46 MINUTES AND 2 HOURS OVER 2 HOURS (SPECIFY) </pre>				
CO 1 2 3 4 5 6 7 8 9	<u>COMMUT</u> 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 2 3 4 5 6 7 8 9 0 x	<pre>#3 L. 54 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES - BETWEEN 1 HOUR 16 MINUTES BETWEEN 1 HOUR 31 MINUTES AND 1 HOUR 45 MINUTES BETWEEN 1 HOUR 46 MINUTES BETWEEN 1 HOUR 46 MINUTES AND 2 HOURS OVER 2 HOURS (SPECIFY) DON'T KNOW/BEFUSED</pre>	CC 1 2 3 4 5 6 7 8 9	COMMUT 5 MINUTES OR LESS 6-10 MINUTES 11-15 MINUTES 16-20 MINUTES 21-25 MINUTES 26-30 MINUTES 31-35 MINUTES 36-40 MINUTES 41-45 MINUTES	ER 2 3 4 5 6 7 8 9 0 x	<pre>#4 D1. 56 46-50 MINUTES 51-55 MINUTES 56 - 1 HOUR OVER 1 HOUR, BUT LESS THAN 1 HOUR 15 MINUTES BETWEEN 1 HOUR 16 MINUTES AND 1 HOUR 30 MINUTES BETWEEN 1 HOUR 31 MINUTES AND 1 HOUR 45 MINUTES BETWEEN 1 HOUR 46 MINUTES AND 2 HOURS OVER 2 HOURS (SPECIFY) DON'T KNOW/REFUSED</pre>				

11. When the commuters are away from home, is there a vehicle at home that is available for evacuation during any emergency?



12. If time permits, would you await the return of family members prior to evacuating the area?



13.	How many of the vehicles that are usually available to		
	the household would your family use during an evacuation?	CO	ե.59
	(DO NOT READ ANSWERS.)	1	ONE
		2	TWO
		3	THREE
		4	FOUR
		5	FIVE
		6	SIX
		7	SEVEN

- 8 EIGHT
- NINE OR MORE 9
- ZERO (NONE) 0
- X REFUSED

If time permits, how long would it take the family to pack clothing, secure the house, load 14. the car, and complete preparations prior to evacuating the area? (DO NOT READ ANSWERS.)

 COI	L. 60	CO	L.(51						
1	LESS THAN 15 MINUTES	1	3	HOURS	ТО	3 HOURS	15	MINUTES		
2	15-30 MINUTES	2	3	HOURS	16	MINUTES	то	3 HOURS	30	MINUTES
3	31-45 MINUTES	3	3	HOURS	31	MINUTES	то	3 HOURS	45	MINUTES
4	46 MINUTES - 1 HOUR	4	3	HOURS	46	MINUTES	то	4 HOURS		
5	1 HOUR TO 1 HOUR 15 MINUTES	5	4	HOURS	ТО	4 HOURS	15	MINUTES		
6	1 HOUR 16 MINUTES TO 1 HOUR 30 MINUTES	6	4	HOURS	16	MINUTES	ТО	4 HOURS	30	MINUTES
7	1 HOUR 31 MINUTES TO 1 HOUR 45 MINUTES	7	4	HOURS	31	MINUTES	то	4 HOURS	45	MINUTES
8	1 HOUR 46 MINUTES TO 2 HOURS	8	4	HOURS	46	MINUTES	TO	5 HOURS		
9	2 HOURS TO 2 HOURS 15 MINUTES	9	5	HOURS	ТО	5 HOURS	15	MINUTES		
0	2 HOURS 16 MINUTES TO 2 HOURS 30 MINUTES	0	5	HOURS	16	MINUTES	TO	5 HOURS	30	MINUTES
Χ	2 HOURS 31 MINUTES TO 2 HOURS 45 MINUTES	Х	5	HOURS	31	MINUTES	TO	5 HOURS	45	MINUTES
Y	2 HOURS 46 MINUTES TO 3 HOURS	Y	5	HOURS	46	MINUTES	TO	6 HOURS		

COL.62 1 DON'T KNOW

Thank you very much. ____ (TELEPHONE NUMBER CALLED) On behalf of Duke Energy, thank you for your time and cooperation. If you have any questions about how this information will be used, or for any other additional information, you can contact Duke Energy or your County Emergency Management Agency. I can give you those numbers if you like. If not, thanks again for your time. [Here are the offered phone numbers:] South Carolina North Carolina Duke Energy:.....(704)382-8609