#### PLAN SUMMARY

#### 1. Purpose

The purpose of this plan is to assure that there are adequate measures in place to assist in the protection of the health, safety and welfare of residents and visitors who would be affected by a radiological emergency at the Joseph M. Farley Nuclear Plant. The Joseph M. Farley Nuclear Plant is located in Houston County, approximately miles from County. The facility is owned and operated by the Southern Nuclear Company (SNC) (licensee).

County lies within the 50-mile Ingestion Pathway Zone (IPZ) of the Joseph M. Farley Nuclear Plant. See Table 1 for a map of the Joseph M. Farley Nuclear Plant 50-mile IPZ.

This plan provides guidance for assistance by County in an emergency situation at the Joseph M. Farley Nuclear Plant.

#### 2. Key Assumptions

- A. Ingestion Pathway Zone (IPZ) is the area within a 50-mile radius of a commercial nuclear power plant in which people may be indirectly exposed to radiation by eating or drinking contaminated food, milk and water.
- B. The safety of the food supply within the 50-mile IPZ could be a concern to members of the agricultural community if a radiological release to the atmosphere occurred. During such a release, both water and land could become contaminated. Eating contaminated foods and drinking contaminated milk and water could have a harmful, long-term effect on your health.
- C. State and local government emergency response organizations are prepared to quickly notify and advise the agriculture community on what actions to take in the event of a radiological emergency. The decision to recommend protective actions will be based on the emergency conditions at the nuclear plant, available information on the amount of radiation that has been released to the environment, and the consideration of the health, economic, and social impacts of the proposed actions. In the State of Alabama, the Department of Public Health's Office of Radiation Control will analyze all data and the State Health Officer will make the appropriate protective action decisions regarding the status of the nuclear power plant, and will provide this information to State EMA to disseminate to the impacted counties in which the protective action decisions will be implemented.

- D. Protective actions can be utilized to prevent or lessen the possibility of persons eating or drinking contaminated milk, food or water by preventing or minimizing contamination of water, milk and food products. Washing, scrubbing, peeling or shelling fruits and vegetables to remove surface contamination prior to human consumption would be useful information for residents who grow their own crops. Milk and food products may also need to be isolated or contained to prevent its introduction into commerce and to determine whether condemnation or other action is appropriate. Such decisions will be made by ADPH with the cooperation of the Department of Agriculture and Industries.
- E. All required radiological field monitoring within County will be provided and coordinated by state (ADPH Office of Radiation Control). The state will coordinate with develop the sampling plan. The sample plan will include sampling and analysis of milk, crops, livestock, poultry, water supply, etc.
- F. All emergency public information will be disseminated through the Joint Information Center (JIC) located at 16070 U.S. Highway 431 North, Headland, AL.

#### 3. Effects of Radioactive Deposits on Human Food and Water Supplies

Depending on the amount of radioactive materials released into the atmosphere and the prevailing weather conditions, people, animals, crops, land and water near the site of the emergency could be affected.

- A. Initial concern would be the condition of fresh milk from dairy animals grazing on pasture and drinking from open sources of water. Sampling for contamination could occur at the farm, the transfer station or the processing plant. If contamination of fresh milk and processed milk products is verified, ADPH will determine whether to dispose of these products or to hold them until safe for consumption.
- B. A later concern would be the possible contamination of vegetables, grains, fruits and nuts. The severity of the impact of the contamination would depend on the time of the year the emergency occurred. The time immediately prior to or during harvest is the most critical period. Crops will be sampled and analyzed by the appropriate government officials to ensure that they are safe for consumption.
- C. An additional concern would be the possible impact of the contamination on livestock and poultry. Pastures, feed and water sources, as well as meat and poultry products will be sampled and analyzed to ensure that the meat and poultry are safe for consumption.

D. Contamination of drinking water supplies is not likely to be significant. If it occurs, it will probably affect only surface water supplies and not ground wells or underground water sources. The safety of water would be determined by sampling public and private sources. If land becomes contaminated, proper soil management techniques can be implemented to reduce contamination of crops grown on the land. The procedures recommended would depend on the severity of contamination and the specific crops to be grown.

#### 4. County Ingestion Preparedness Plan

While it in unlikely that a serious radiological emergency will occur in this country, it is important that we are prepared for such an event. For

County, such preparation includes identifying natural resources, agricultural products and livestock, dairies, and poultry that could be affected in the event of a radiological emergency. Tables 2 - 4 will provide descriptions of agriculture products, livestock, and natural resources common to County. This information will be used to provide guidance to assist the ADPH Office of Radiation Control in developing a sampling plan as described in 2.D.

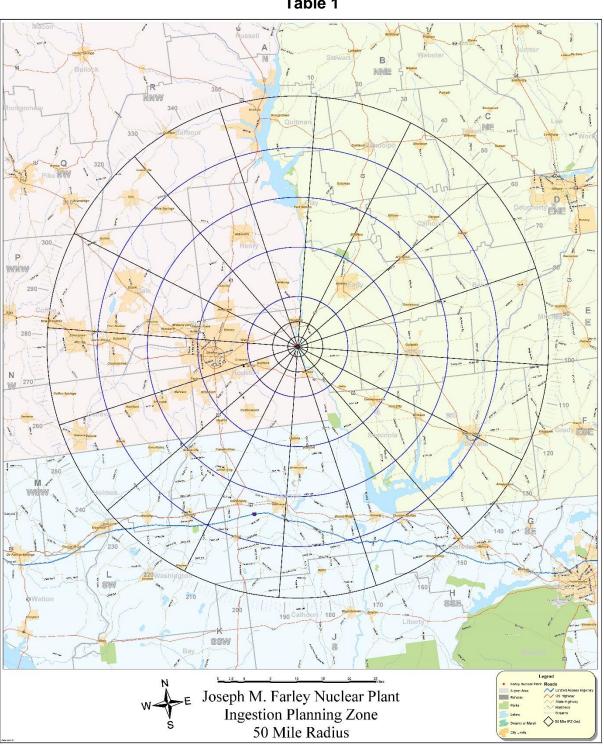


Table 1

	Table 2Agricultural Products1 of 12JANUARY (Planting Period)	
	JANUARY (Planting Period)	
Description	Location	POC
	JANUARY (Harvesting Period)	
Description	JANUARY (Harvesting Period) Location	POC
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	Table 2         Agricultural Products         2 of 12         FEBRUARY (Planting Period)         Location	
	FEBRUARY (Planting Period)	
Description	Location	POC
	FEBRUARY(Harvesting Period)	
Description	FEBRUARY(Harvesting Period) Location	POC
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	Table 2Agricultural Products3 of 12MARCH (Planting Period)	
Description	Location	POC
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	MARCH (Harvesting Period)	
Description	MARCH (Harvesting Period)	POC
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	Table 2         Agricultural Products         4 of 12         APRIL (Planting Period)         Location	
Description		POC
Description	Location	100
	APRIL (Harvesting Period)	
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	Table 2         Agricultural Products         5 of 12         MAY (Planting Period)         Description       POC		
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	Table 2         Agricultural Products         6 of 12         JUNE (Planting Period)         Location	
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Description	JUNE (Harvesting Period) Location	POC

	Table 2         Agricultural Products         7 of 12         JULY (Planting Period)         Location	
Description		POC
Description	Location	FOC
	JULY (Harvesting Period) Location	<b>D</b> 00
Description	Location	POC

	Table 2Agricultural Products8 of 12AUGUST (Planting Period)Location	
	AUGUST (Planting Period)	
Description	Location	POC
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	AUGUST (Harvesting Period)	
Description	AUGUST (Harvesting Period)	POC
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Description	AUGUST (Harvesting Period) Location	POC

	Table 2Agricultural Products9 of 12SEPTEMBER (Planting Period)	
	SEPTEMBER (Planting Period)	
Description	Location	POC
5	SEPTEMBER (Harvesting Period)	
Description	SEPTEMBER (Harvesting Period) Location	POC
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Description	SEPTEMBER (Harvesting Period) Location	

	Table 2         Agricultural Products         10 of 12         OCTOBER (Planting Period)         Location	
Description		POC
Description	Location	POC
	OCTOBER (Harvesting Period)	
Description	OCTOBER (Harvesting Period) Location	POC
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	Table 2         Agricultural Products         11 of 12         NOVEMBER (Planting Period)	
	NOVEMBER (Planting Period)	
Description	Location	POC
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	NOVEMBER (Harvesting Period)	
Description	NOVEMBER (Harvesting Period)	POC
Description	NOVEMBER (Harvesting Period) Location	POC
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	Table 2         Agricultural Products         12 of 12         DECEMBER (Planting Period)         Location	
Description		POC
Description	Location	FOC
	DECEMBER (Harvesting Period)	
Description	DECEMBER (Harvesting Period) Location	POC

Table 2         Livestock, Dairies, and Poultry			
Description	Location	POC	
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Description	Location	POC