

ADPH Ingestion Planning Zone Overview

- Question: Who has never interacted with ADPH Office of Radiation Control?
- Our Website: <https://www.alabamapublichealth.gov/radiation/>
 - Click on “Emergency Planning & Response”
- We have counties for different zones
 - EPZ: Emergency Planning Zone = 10-mile radius around plant
 - IPZ: Ingestion Pathway Zone = 50-mile radius around plant

EPZ Counties for FNP	IPZ Counties for FNP
Henry	Barbour
Houston	Coffee
	Dale
	Geneva
	Henry
	Houston
	Pike

EPZ Counties for BFNP	IPZ Counties for BFNP
Lauderdale	Blount
Lawrence	Colbert
Limestone	Cullman
Madison (host county)	Franklin
Morgan	Jackson
	Lauderdale
	Lawrence
	Limestone
	Madison
	Marion
	Marshall
	Morgan
	Walker
	Winston

EPZ Counties for SQNP	IPZ Counties for SQNP
<i>None in Alabama</i>	Dekalb
	Jackson

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- The 8-year EXERCISE cycle following by FEMA/NRC
 - 2022-2029 for both Nuclear Power Plants
 - Must include the following:
 - Plume-phase
 - Hostile Action-Based (HAB) w/ release or no release (alternating 8-year cycles of release and no release)
 - 2022-2029 HABs *will* have a release
 - Minimal/puff/no release
 - Ingestion pathway TTX
- Last Farley Ingestion exercise: 2018
- Last Browns Ferry ingestion exercise: 2011
- **NEW in Radiological Emergency Preparedness (REP) Program Manual (RPM) 2019**
 - ADPH ORC & AEMA must interact with IPZ counties at least once every two years (2020-2027)
- Discussing Ingestion Pathway Basics, Details, Training, Exercise, and Tabletop Exercise will be the goal of all meetings
- ADPH + AEMA + utility will work together to produce a brochure for each plant's respective IPZ counties
 - BFNP status:
 - Brochure already produced
 - 1,000 copies made
 - Waiting on farmer numbers to print more
 - ADPH will print more and distribute to EMAs to give to co-op's and extension agencies
 - Agricultural booklet will also be printed for distribution
 - FNP status:
 - Still with ADPH graphic artists
 - Must obtain final approval from Birmingham (Southern Nuclear) before printing production and distribution

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- Currently the two-year IPZ TRAINING cycle is in development for both commercial nuclear power plants' ingestion pathway counties:

<p>2020-2021</p>	<ul style="list-style-type: none"> • Introduction to Ingestion Phase <i>15 minutes</i>
<p>2022*-2023</p> <p>*Sequoyah Nuclear Plant FEMA-evaluated IPX September 14-15, 2022</p>	<ul style="list-style-type: none"> • Basic Radiation Training (theory only) IPZ broad overview Q&A <i>90 minutes</i> • IPZ training (detailed) <ul style="list-style-type: none"> ○ County plans, forms to fill out, materials to have on hand and/or distribute for farmers, co-ops, and extension agencies ○ What the state plan says as well as NUREG 0654/FEMA-REP-1 Rev. 2 (RPM 2019) ○ List of contacts involved with an ingestion pathway exercise on the local, state, and federal levels ○ Hierarchies of plume, post-plume, and recovery organizations involved <ul style="list-style-type: none"> ▪ Informational resources brought from each agency ○ Contact methodology amongst the local agencies and the state agencies ○ CBRN Responder integration ○ Decision-making processes from the state and how the local entities can implement them ○ Price-Anderson Act/Stafford Act/American Nuclear Insurers <p><i>2-3 days</i></p> <ul style="list-style-type: none"> • Any additional topical training sessions requested or needed <p><i>1 day</i></p>
<p>2024-2025*</p> <p>*Browns Ferry Nuclear Plants FEMA-evaluated IPX June 25-26, 2025</p>	<ul style="list-style-type: none"> • TTX Walkthrough • TTX Practice + Hotwash <p><i>2-3 days</i></p> <ul style="list-style-type: none"> • Any additional topical training sessions requested or needed <p><i>1 day</i></p>
<p>2026-2027</p>	<ul style="list-style-type: none"> • Any additional topical training sessions requested or needed <p><i>1 day</i></p>
<p>2028-2029</p>	<ul style="list-style-type: none"> • Any additional topical training sessions requested or needed <p><i>1 day</i></p>

- The IPZ TTX involves many agencies:
 - Local EMAs & support agencies (first responders, Red Cross, VOAD, etc.)
 - State (AEMA, ADPH, Ag+I)
 - Federal partners (FEMA, NRC, FRMAC, NARAC, IMAAC, RAP, CDC, EPA, FDA, USDA)