




**North Carolina Emergency Management  
REP Program**



**2022 BNP IPZ GRADED JULY EXERCISE**

<b>NPP:</b> Brunswick Nuclear Plant	<b>LOCATION:</b> Various Locations	<b>DATES:</b> July 25 <sup>th</sup> – 29 <sup>th</sup>
<b>AGENCIES:</b> Risk Counties IPZ Counties State and Federal Partners	<b>UTILITY:</b> Duke Energy  <b>FOR DIGITAL COPY:</b>  	<b>PRIMARY POCs:</b> <b>Duke Energy:</b> Lee Jackson, <a href="mailto:lee.jackson2@duke-energy.com">lee.jackson2@duke-energy.com</a> <b>FEMA:</b> Farrah Stewart, <a href="mailto:farrah.stewart@fema.dhs.gov">farrah.stewart@fema.dhs.gov</a> <b>NCEM-EBO:</b> Robin Lorenzen, <a href="mailto:robin.lorenzen@ncdps.gov">robin.lorenzen@ncdps.gov</a> <b>NCEM REP Program:</b> Hendrix Valenzuela, <a href="mailto:Hendrix.valenzuela@ncdps.gov">Hendrix.valenzuela@ncdps.gov</a> <b>NCEM Training &amp; Exercises:</b> Derrick Morris, <a href="mailto:derrick.morris@ncdps.gov">derrick.morris@ncdps.gov</a> <b>NCEM PIO:</b> Keith Acree, <a href="mailto:keith.acree@ncdps.gov">keith.acree@ncdps.gov</a>

**JUNE EXERCISE DRESS REHEARSAL**

**WEDNESDAY 6/22**

**JULY EXERCISE WEEK OUTLOOK**

<b>MONDAY 07/25</b>	<b>TUESDAY 07/26</b>	<b>WEDNESDAY 07/27</b>	<b>THURSDAY 07/28</b>	<b>FRIDAY 07/29</b>
<b>IN-BRIEFING DAY</b>	<b>DAY1 EX. PLUME PHASE</b>	<b>DAY2 EX. IPZ COUNTIES</b>	<b>FEMA's WRITING DAY</b>	<b>OUT-BRIEFING DAY</b>

**LOCATION(S)**

<b>BRUNSWICK COMMUNITY COLLEGE</b>  150 College Rd NE, Bolivia, NC 28422	<b>NHC EOC BRUNSWICK EOC DUKE EOF SEOC RCCE EX. FIELD TEAMS LOCATIONS TBD</b>	<b>SAMPSON COUNTY EXPO CENTER</b>  414 Warsaw Rd, Clinton, NC 28328	<b>BRUNSWICK COMMUNITY COLLEGE</b>  150 College Rd NE, Bolivia, NC 28422
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**TIME SCHEDULE**

<b>1600HRS</b> State In-Briefing	<b>0730HRS</b> Evaluators on-site	<b>0800HRS</b> Check-in	<b>1000HRS</b> Participants out-briefing
<b>1630HRS</b> FEMA/Evaluators meeting	<b>0800HRS</b> Ex. Start Time/Normal Day Ops  End time: Not available  <u>Day 1 –Full-Scale Exercise</u>  <b>Demonstration (physical)</b>  <b>Interview(s)</b>	<b>0900HRS</b> Ex. Start time  End time: Not available  <u>Day 2 –Tabletop Exercise</u>  <b>Observation</b>  <b>Discussion</b>  <b>Coordination</b>  <b>Interview(s)</b>	<b>1100HRS</b> Public Meeting



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<b>AGENCIES/COUNTIES INVOLVED</b>				
<b>MONDAY 07/25</b>	<b>TUESDAY 07/26</b>	<b>WEDNESDAY 07/27</b>	<b>THURSDAY 07/28</b>	<b>FRIDAY 07/29</b>
NHC BRUNSWICK NCEM NCDA&CS DHHS-RPS FEMA FRMAC  <i>*IPZ Counties attendance is welcome</i>	NHC BRUNSWICK NCEM NCDA&CS DHHS-RPS FEMA *any other NCEM would be using for response.	NEW HANOVER BRUNSWICK BLADEN SAMPSON COLUMBUS PENDER ONSLOW HORRY, SC NCEM NCDA&CS DHHS-RPS NCSHP FEMA FRMAC(DOE) NCSHP  <i>*Any other agency NCEM would be using for response.</i>		NHC BRUNSWICK NCEM NCDA&CS DHHS-RPS FEMA  <i>*IPZ Counties attendance is welcome</i>



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**EXERCISE OVERVIEW & EVALUATION CRITERIA**

Established set of Objectives and Capability Targets		NUREG-0654/FEMA-REP-1 Reference
<ol style="list-style-type: none"> <li><b>1. Emergency Operations Management (Eval. Day1 &amp; 2)</b> <ul style="list-style-type: none"> <li>Protective Action Recommendations</li> <li>Protective Action Decisions for the Post-Plume Phase</li> <li>Protective Action Decision Implementation for the Post-Plume Phase</li> </ul> </li> <li><b>2. Exposure Control (Eval. Day1 only)</b></li> <li><b>3. Alert &amp; Notification (Eval. Day1 &amp; 2)</b> <ul style="list-style-type: none"> <li>Emergency Information and Instructions for the Public and News Media</li> </ul> </li> <li><b>4. Detect, Measure, Sample, Analyze, and Assess (Eval. Day 1 &amp; 2)</b> <ul style="list-style-type: none"> <li>Post-Plume Phase Sampling Plan Development and Analysis</li> </ul> </li> <li><b>5. Operate (Eval. Day1 only)</b></li> </ol>	<p><u><b>Additional as defined and outlined in the adopted EOPA</b></u></p>	<p>RPM Page 183</p> <p>RPM Page 188</p> <p>RPM Page 191</p> <p>RPM Page 193</p> <p>RPM page 205</p> <p>RPM page 213</p>

**What FEMA Evaluates and looking for during Exercises**

Ingestion exposure pathway exercises are conducted at least **once every eight years**. These exercises include mobilization of state, local, and tribal government personnel and resources and implementation of emergency plans to demonstrate response capabilities to a release of radioactive materials requiring post-plume phase protective actions within the ingestion exposure pathway emergency planning zone.

FEMA assesses **offsite planning and preparedness** for communities within the plume and/or ingestion exposure pathway emergency planning zone of commercial nuclear power plants through an established set of objectives and capability targets that reflect the intent of the planning standards of 44 CFR 350 and the evaluation criteria of NUREG-0654/FEMA-REP-1. Thus, FEMA considers these objectives/capability targets to be the benchmarks for FEMA's validation of reasonable assurance.

**SPECIAL INSTRUCTIONS:**

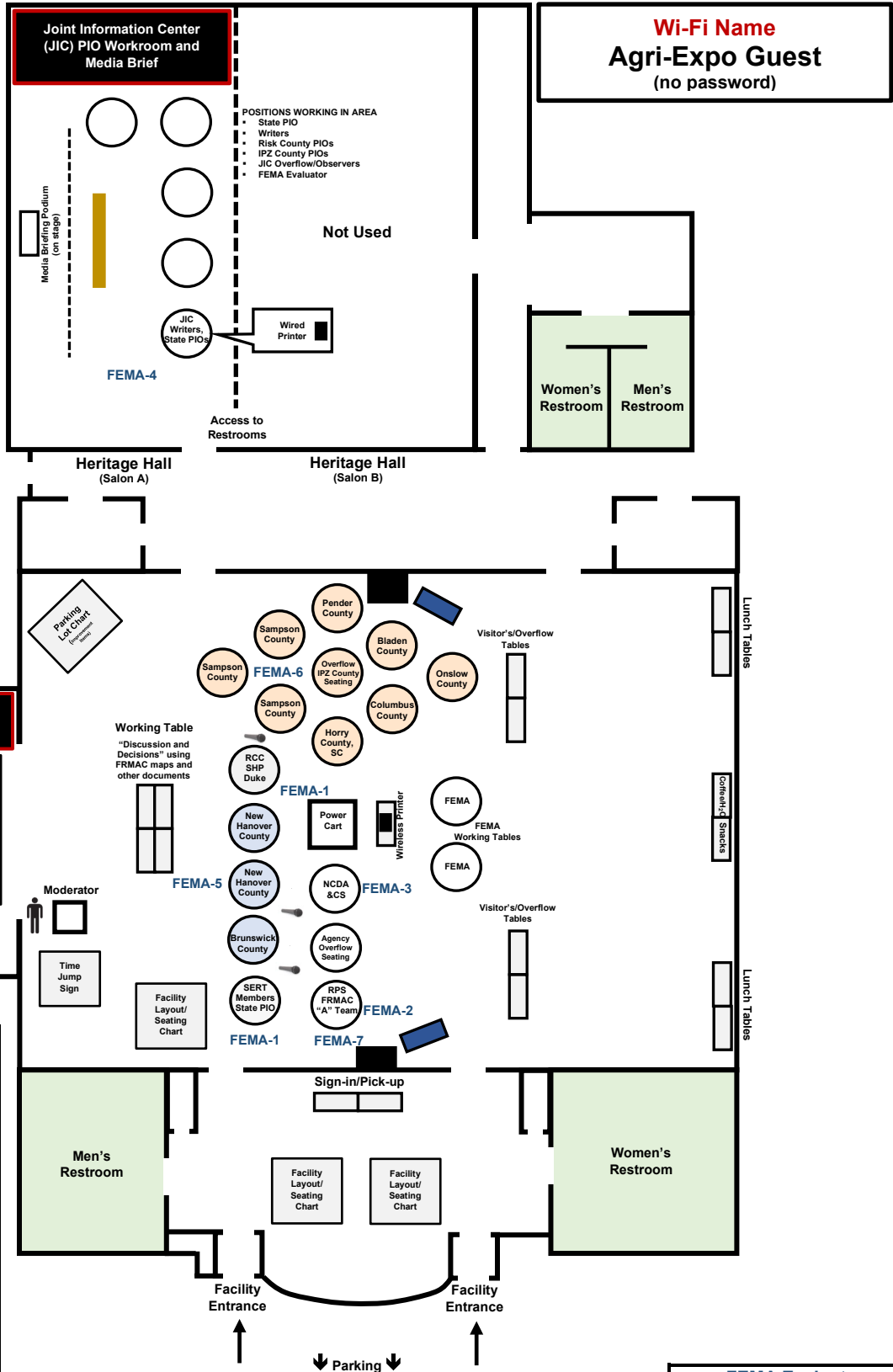
- IPZ/EPZ Counties to bring their County REP plans with them.
- Plan on arrival 30 min. early for IPZ Day2/July 27<sup>th</sup>. Please make sure to sign-in
- Copies of the FEMA Program Manual will be available on-site.

# BRUNSWICK NUCLEAR PLANT (BNP) INGESTION PATHWAY TABLETOP EXERCISE “OPERATIONS” LAYOUT

July 27, 2022

## During the Tabletop Exercise

- When speaking, use a microphone
- Prepare to “volunteer” spokesperson from each table when protective action responses are being discussed
- Open book test
- Follow your plans & procedures
- Use other agencies represented in the room (e.g., FRMAC, A Team)
- Call a life-line...
- Encourage discussions
- Stay clear of **acronyms**
- Maintain a log of activities throughout the day.
- Identify issues, but also come up with suggestions and recommendations for response improvements



**Wi-Fi Name**  
**Agri-Expo Guest**  
(no password)

Legend	
○	SERT, SHP, Duke Energy
○	Risk (EPZ) Counties
○	Ingestion Pathway Zone (IPZ) Counties
□	Monitor Displays (Time Jumps, FRMAC mapping, etc.)
Acronyms	
A Team	Advisory Team (USDA, FDA, EPA, CDC, Other)
NCDA & CS	North Carolina Department of Agriculture & Consumer Services
SERT	State Emergency Response Team
RPS	Radiation Protection Section
RCC	Regional Coordination Center (Eastern Branch Office)
FRMAC	Federal Radiological Monitoring and Assessment Center
SHP	State Highway Patrol
PIO	Public Information Officer
FEMA	Federal Emergency Management Agency
Duke	Duke Energy

FEMA Evaluator Assignments	
#	Assignment
FEMA-1	NCEM (2 areas)
FEMA-2	Radiological Health
FEMA-3	NC Agriculture (Ag.)
FEMA-4	Joint Information
FEMA-5	Risk (EPZ) Counties
FEMA-6	IPZ Counties
FEMA-7	Federal Collaboration

**PLEASE LOCATE YOUR AGENCY SEATING UPON ARRIVAL**