

**AMATEUR RADIO EMERGENCY SERVICES (ARES)  
SIMULATED EMERGENCY TRAINING (SET) EXERCISE  
FENTRESS, MORGAN & SCOTT COUNTIES, TENNESSEE  
OCTOBER 3, 2020**



## Master Scenario Event Guide

This guide is a chronological timeline of expected actions and scripted events to be injected into exercise play by controllers to generate or prompt player activity. It ensures necessary events happen so that all objectives are met. This guide only contains only expected player actions or events. The guide links simulation to action, enhances the exercise experience for players, and reflects an incident or activity meant to prompt players to action.

## 12:00-12:05 SET NET Preamble

This preamble and scenario are to be read on the air at Noon on both Morgan and Scott repeaters by the country facilitator. This scenario will reveal to all the participants the nature of the exercise as to this point they will have only known what their role was to be.

**THIS IS A DRILL** and my name is (\_\_\_\_\_) and my call sign is (\_\_\_\_\_) and I am one of the controllers for the 2020 Simulated Emergency Training. During the next 90 minutes the (\_\_\_\_\_) County ARES unit will be conducting a mock emergency exercise. Each participant will play a role in this simulation. All communications are to begin with “**This is a Drill**”. In case of an actual emergency any operator may break in at any time stating that they have a real emergency. This simulation will be suspended, and the real emergency will take precedence.

**THIS IS A DRILL** The 2020 Simulated Emergency drill or exercise is being conducted at the same time on both the Morgan and Scott County repeaters. You will hear various amateur radio operators simulating a disaster from various locations. They are role playing and reporting in from their house but will be using a tactical call sign to identify their virtual deployment location. The players are restricted from asking the SET Controller any questions as they will need to rely upon each other for the next 90 minutes as the scenario unfolds.

With that here is your 2020 SET scenario:

**THIS IS A DRILL** It was about 11:00 a.m. on Saturday, October 3rd. The temperature was a mild 78 degrees, and the wind was from the south at 5 miles per hour, both of which are unusual for this time of year. Many of the residents were outside enjoying the nice weather unaware that a disaster was unfolding nearby. Your ARES emergency coordinator received a call for communications assistance, and you have been activated and asked to deploy to a specific location and are with first responders.

**THIS IS A DRILL** Your ARES County Emergency Coordinator has provided the following specific information (it will not be repeated so jot down what facts you can as fast as you can):

#### **THIS IS A DRILL**

- A Burlington Northern train loaded with 60 tank cars of Bakken crude oil has derailed along the tracks near the Scott and Morgan county line. A total of 24 rail cars have derailed.
- As they rolled off the tracks, five of the rail cars have breached, releasing the majority of the 140,000 gallons of crude oil they were carrying.
- The light sweet Bakken crude is spreading in all directions creating a HAZMAT issue.
- It is ignited by sparks and violently erupts into a rolling fire.
- The engineer was not injured and was able to bring the forward portion of the train to a stop at approximately ½ mile from the derailment site.

#### **THIS IS A DRILL**

- Across the short distance, flames from the burning crude oil are impinging directly on the non-ruptured crude oil tanks of the train.
- Local 911 operators are quickly being overwhelmed.
- Cell phone users are getting busy signals as the number of calls increased dramatically.
- The estimated time of arrival for the HazMat team from Knoxville is 45 minutes.

**THIS IS A DRILL** At approximately 11:30 a.m. the fire severed the fiberoptic lines between Morgan and Scott counties which then impacted the cell towers in the area. Phone lines are effectively down as is the internet. Impacts to Fentress county phone and internet have occurred as well. This sudden loss of

*communications has activated our local ARES unit for additional support. FEMA has established operational centers in Fentress, Morgan and Scott Counties to coordinate the joint response.*

**THIS IS A DRILL** I will now turn the airwaves over to your COUNTY'S SET NET control for them to start their check in process. \_\_\_\_\_ (call sign) is clear and monitoring. Good luck!

## 12:05 to 12:15 Timeline

After the introduction to the scenario the volunteers will begin to check in with NET control who will be simulating their location at Command center location. NET control stations have been prepped to do their best to quickly create a formal and directed NET. They will begin their NET with an introduction of themselves along with some details from their backstory that was provided to them. All participants received an introduction to their role including a tactical call sign, their personal backstory along with ICS 213 messages that are pre-filled out. They have been informed that they are communicators only and are not to make any tactical decision. They are not first responder or incident commanders either as those are virtual positions. The first series of messages will start with status reports which allows the participants to visualize the situation and give a quick informal update. Evaluators will check-in with their tactical call signs as well. This will signify to the facilitator that they are there and have started their evaluations. The check in by the evaluators may also be interpreted by the NET control as probable locations where traffic may originate from. There will be simultaneous NETS in Morgan and Scott Counties with the same information and scenarios to start with.

- First reports are coming in from ARES members as to the status of the situation based on their locations.
- Other volunteer listeners (evaluators) may be injected here and throughout the exercise to identify where they are at even though they have no formal role in the exercise.
- There is no formal traffic as the team begins to form.

## 12:15 to 12:30 Scenario Update

Messages are to be sent between various communication operators within their own county. The tone and any formalities will be set during the segment as the SET NCS and the Fire Commander will determine how to communicate effectively while others listen in. The Scott Hospital operator will now check in adding to the Scott Team and the Morgan Sheriff will do the same for the Morgan team. They will be sending their first messages as well. This adds an element of surprise to all participants as well.

- The wind speed has increased to 10 miles per hour and remains from the south. The Communications Center has notified the incident command that it is receiving numerous calls from downwind locations complaining of eye, nose, and throat irritation.
- Due of the rapid spread of fire, the first responding fire department units find no access points suitable for conducting a safe or effective fire attack.
- The fire department and local law enforcement order an evacuation of a 10-mile radius around the fire.
- This begins to clog both US-27 and US-127 as residents flee to Fentress and Morgan Counties.
- Emergency shelters will be required.
- HAZMAT has arrived on-site.
- Messages:

- Knoxville HazMat 1 to Morgan Command
  - Please use SAT phone to notify Knox County Fire that we need five hundred gallons of AFFF six percent concentrate.
- Morgan Fire 1 to Morgan Command
  - Six fire fighters are having trouble breathing and are complaining of burning of the eyes and throat.
  - Treating them on-site for now.
  - Limited access to the scene.
  - Request additional support for traffic control.
  - HAZ MAT Arrived at 12:05.
- Morgan Fire 2 to Morgan Command
  - Starting to evacuate the residents within a 10-mile radius.
  - Expect 100-200 families.
  - Need location to send them ideally to Fentress and Morgan Counties.
  - Will also need ambulances for transport, send all of them.
- Scott Fire 1 to Scott Command
  - The wind speed has increased to 10 miles per hour and remains from the south.
  - Six fire fighters are having trouble breathing and are complaining of burning of the eyes and throat. Treating them on-site for now.
  - Limited access to the scene. Request additional support for traffic control.
  - HAZ MAT Arrived at 12:05 p.m.
- Scott Fire 2 to Scott Command
  - Starting to evacuate the residents within a 10-mile radius.
  - Expect 100-200 families.
  - Need location to send them ideally to Fentress and Morgan County.
  - Need ambulances for transport send all of them.
- Scott Hospital 1 to Scott Fire
  - Sending three ambulances to the scene.
  - Please advise as to extent of injuries if possible.
- Scott Sheriff 1 to Scott Fire
  - Roadblock set up at US27 and TN52.
  - Emergency traffic permitted to South
  - Evacuees directed North on 27 or West on 52

## 12:30 to 12:45 Scenario Update

In this time slot the Scott team is required to pass a critical message to the Morgan team using a 3<sup>rd</sup> party relay. The team from Morgan County will be changing over to the Scott County repeater for better coordination. This is to simulate the integration of two teams as part of mutual aid. No direction is provided to the Morgan County team as how to check in with Scott County's Incident Command. Messages will be sequential in their numbering and time stamped, but the order of volunteers is totally random based on when the participant can send it. Numerous messages have the same time stamp which is intended to increase traffic at selected intervals.

- The fire creates its own localized weather.
- Air quality continues to deteriorate.
- You know that there are medically fragile people within the area.

- Local 911 operators are overwhelmed, and the entire system fails.
- Rumors of a 2<sup>nd</sup> train from the south heading towards the derailment raise concern of an additional crash. There is concern that the Morgan County Incident Command is not aware of this.
- Messages:
  - Fentress Command to Morgan Command (Relay from Scott Command)
    - Per FEMA director in Nashville: "Possible North bound train to pass through your area about 12:45 p.m. headed towards the incident, must stop train."
    - Move your team to Scott SET NET Channel 1 and check in with Scott Net Control
  - Knoxville HazMat 2 to Morgan Command
    - Severe Turbulence within a pyrocumulous cloud which contains ash from the fire
    - Suggest no-fly zone below twelve thousand feet
  - Morgan Command 1 to Morgan Sheriff and entire team
    - *Please note this message is being relayed by a volunteer (hopefully Fentress Relay) from Scott County.*
    - Per FEMA director in Nashville: "Possible North bound train to pass through your area about 12:45 headed towards the incident, must stop train."  
*Re-direct item 1 to the Morgan Sheriff and ask them to "take care of it"*
    - Move your team to Scott SET NET Channel 1 and check in with Scott Net Control  
*For item 2 make sure everyone is aware and that you and everyone complies with it. Good Luck!!*
  - Morgan Sheriff 1 to Morgan Command
    - Set up at the road over pass on US27.
    - Waiting for intercept.
    - Will update if status changes.
  - Scott Fire 3 to Scott Command
    - Severe smoke heading North. Intense heat causing additional clouds to form and wind shifts.
    - All ambulances are on their way back.
  - Scott Sheriff 2 to Scott Command
    - Falling ash in Elgin now a brush fire.
    - Need a fire truck ASAP
  - Scott Command 1 to Morgan Command (hopefully the Fentress County Relay Player will handle this)
    - Per FEMA director in Nashville: "Possible North bound train to pass through your area about 12:45 headed towards the incident, must stop train."
    - Move your team to Scott SET NET Channel 1 and check in with Scott Net Control

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## 12:45 to 12:46 Announcement

At 12:45 the facilitator will make an announcement on Scott SET NET Channel 1 indicating that this is a training exercise and then turn the net back over to Scott and Morgan Command. This is to remind all listeners and participants that this is a drill. If the scenario is running behind the facilitator may elect to

have participants disregard prior time stamped messages and to have everyone do a re-set based on the current time.

***THIS IS A DRILL:*** My name is \_\_\_\_\_ and my call sign is \_\_\_\_\_ and I am one of the facilitators for the 2020 Simulated Emergency Training. You have been listening to the Fentress, Morgan and Scott County ARES units conducting a mock emergency exercise. Each participant is playing a role in this simulation. As a reminder, all communications are to begin with "This is a Drill". In case of an actual emergency any operator may break in at any time stating that they have a real emergency. The simulation will be suspended, and the real emergency will take precedence. The exercise will conclude in approximately 45 minutes at the bottom of the hour. I will now turn the frequency back over to SET NET Control.

## 12:47 to 13:00 Scenario Update

During this interval, the team will be required to transmit messages between the Fentress, Morgan and Scott team members. The team should have moved from the forming stage and hopefully progressed through the storming phase allowing them to perform as a cohesive unit. The number of messages decreases while the scenario approaches the close out process.

- Despite the immediate actions of first responders, the scale of the accident has grown so large that the disaster impacts have escalated significantly.
- Local fire and emergency management have determined that the only safe operational strategy identified is to allow the fire to bum out. This is expected to take at least 24 hours. State and federal air quality monitoring resources are mobilizing to monitor for total particulate and benzene concentrations in the impacted area.
- Amid this, members of the media have managed to make it to incident site. They have an interest in the fire, the possibility of explosions, and your county's preparedness and response to the emergency.
- Lifestar has been grounded due to the containments in the air.
- Messages:
  - Fentress Command 1 to Scott and Morgan Commands
    - Sending three pumper trucks to Morgan County staging area two
    - Sending two ambulances to Scott County staging area three
  - Knox HazMat 3 to Fentress Command
    - Please advise Nashville FEMA that water supply is now compromised
  - Morgan Sheriff 2 to Morgan Command
    - Northbound train has been stopped.
    - Their dispatch has now been notified.
    - Re-Deploying to assist in traffic control for evacuation.
  - Scott Command 2 to Scott Fire and Morgan Fire
    - Per FEMA director maintain safe distance and allow fire to burn out.
    - Will take about 24 hours.
  - Scott Hospital 2 to Scott Command
    - Lifestar is grounded here as too much smoke in Oneida.
    - Request ambulances for transport of patents as hospital is nearing capacity.
  - Scott Fire Command 4 to Scott Command and to Morgan Command

- Attempting to move remainder of cars and re-start the engine to prevent spread of fire.

## 13:00 to 13:15 Scenario Update

The various teams will be tested as the scenario ramps up dramatically. The messages are intended to increase the tension levels and to elevate the chaos as participants try to get their messages to others.

- The wind speed has increased to 30 miles per hour and remains from the south. The smoke can now be seen in a 30-mile radius and drifting towards Oneida.
- The hospital has reached capacity and there is need to transport to Jamestown for evacuation.
- Huntsville Nursing home due to the air quality will need to transport their residents to a shelter.
- During an attempt to move the remaining train cars from the derailment a leaking tanker has ignited. The burning tanker fire then spreads quickly to the surrounding area.
- Messages:
  - Morgan Command 2 to Morgan Fire and Morgan Sheriff
    - *After receiving Morgan Fire Command 3 message*
    - Morgan Fire: Pull back to train over pass. Protect all assets from fire.
    - Morgan Sheriff: Continue traffic control for southbound evacuees.
  - Morgan Fire 3 to both Morgan and Scott Commands
    - Movement of cars resulted in additional spread of fire.
    - Explosion imminent, demobilizing now.
  - Morgan Sheriff 3 to Scott Sheriff
    - Sending two deputies to your location
  - Scott Command 3 to Scott Fire Command
    - *After receiving Morgan Fire Command 3 message*
    - Demobilize to corner of US27 and Highway 52 and wait for further directions.
  - Scott Hospital 3 to Fentress Command
    - Evacuation of Huntsville nursing home is underway.
    - Sending 20 patients to your Red Cross shelter.
    - Hospital has reached capacity.
    - Diverting all patients to your triage location.
  - Scott Sheriff 3 to Scott Command
    - Beginning to evacuate Robins area.
    - Heavy northbound traffic now.

## 13:15 to 13:30 Scenario Update

It is important to let the previous messages to be transmitted before this phase begins. The Fentress communicator has been instructed to wait for a break in the action before sending there last message. The message from Fentress to Scott and Morgan will trigger the conclusion of the SET. During this time slot various participants will be doing their final messages and ensuring the team's understanding of them.

- FEMA has ordered an evacuation for a 50-mile radius.
- ARES members are to demobilize as quickly and safely as possible. Incident Command will provide information as they will be re-deployed somewhere else.

- Messages:
  - Fentress Command 2 to Scott and Morgan Commands
    - Per FEMA in Nashville via sat phone " Pull back all first responders to a 50-mile perimeter where possible. Evacuate now."
    - Please confirm when all parties have pulled back.
  - Morgan Command 3 to Morgan Fire, Knox HazMat and Morgan Sheriff  
*After receiving Fentress Command 2 message*
    - Prepare for evacuation as follows and please acknowledge:
    - Morgan Fire Command: pull back to Sunbright Fire Station. Shelter in place there.
    - Morgan Sheriff: Stop all traffic in Sunbright except for evacuees.
  - Scott Command 4 to Scott Fire and Scott Hospital  
*After receiving Fentress Command 2 message*
    - Prepare for evacuation as follows and please acknowledge:
    - Scott Fire Command: Pull back to US 27 and Highway 63. Shelter in place there.
    - Scott Hospital: Transport patients to Jamestown shelter, out of the direction of the smoke.

### 13:30 SET Conclusion Announcement

Simulated Emergency Training Exercise concludes. The facilitator will thank the participants and record any immediate feedback. The facilitator will also do a directed NET roll call of all participants.

*My name is \_\_\_\_\_ and my call sign is \_\_\_\_\_ and I am one of the controller/simulators for the 2020 Simulated Emergency Training. This now concludes the Simulated Emergency Training for 2020. First, I hope that everyone has learned something, and I wanted to thank everybody on behalf of all the planners and facilitators for your participation. I will now conduct a hot wash and record your immediate feedback. I will call each of you by your tactual call sign.*

1. *Morgan Sheriff*
2. *Scott Sheriff*
3. *Scott Hospital*
4. *Morgan Fire*
5. *Scott Fire*
6. *Fentress Command*
7. *Morgan Command*
8. *Scott Command*
9. *Knox HazMat*
10. *Morgan County Facilitator*
  - a. *Red Cross*
  - b. *First Aid*
  - c. *Nursing Home*
11. *Scott County Facilitator*
  - a. *Red Cross*
  - b. *Nursing Home*
12. *Any additional listeners or evaluators*



**Record the feedback as best as you can.**

*My name is \_\_\_\_\_ and my call sign is \_\_\_\_\_ and I am one of the facilitators for the 2020 Simulated Emergency Training. Thank you all for the feedback. We would ask that you secure all your messages both sent and received as these should be turned in to your ARES county Emergency Coordinator for further review. If you think of additional comments or suggestions, please include them with your notes when you turn those in. Once again thanks to all for your participation and to both Joey KJ4SI and Jerry KB4PNG for the use of their repeater. I will now return the repeater to general amateur usage.*