

Real Time Evacuation Planning Model - RTEPM (RoutePM)

Quick Reference Guide Phase 2 Iteration 3 (1 February 2011)

STEP 1:

- Open the url: <http://128.244.170.12:8080/RTEPM/>

STEP 2:

- Locate the tool bar across the top of the page and scroll over the blue box icon (third from the right). Go to the item on the list displayed, “*Evacuation Planning (RTEPM)*” and click on it.

STEP 3:

- The Evacuation Planning (RTEPM) screen will appear. It will display the first tab “Scenarios.”

Instructions that follow are for this scenario:

A Category 1 Hurricane is expected to make landfall in approximately 72 hours on a Wednesday in the middle of the month of May. We are interested in evacuating two areas of Mobile County, Evacuation Zone 1 and Evacuation Zone 2. We will have a phased evacuation with Zone 2 leaving 4 hours behind Zone 1. Additionally, we are interested in contra flow on I-65 from a point north of Mobile to the end of I-65 North.

STEP 4:

- Click on the “New” button on the lower left side of the “Scenarios” tab. This will open a new screen, with the tab, “Summary.” (It is one of several across the top, the first and last are lightly shaded)

STEP 5:

- You will need to provide a name for the scenario; in this case, use “TEST(your state initials here, VA, NC, SC, etc) Mobile Cat 1”
- Click on the “Save” button on the lower right of the screen.

STEP 6:

- Click on the tab “Evacuation Area”. You should see a tab titled “Evacuation Zone 1”
- Note that the first tab under “Evacuation Area 1” is the “Populations Block” and it is pre-selected. Click on the down arrow of the “Add” button  in the “Population Blocks” tab. Scroll down to the “Predefined” menu selection and click the  button next to “Mobile – Zone 1.”

At this time you will see that the lower half of the screen has been populated with data. You will also notice on the map that the lower part of Mobile County has changed color. The area shaded on the map and data populated on the screen is a zone we want to evacuate for this scenario. Click on the “Configuration/Response” tab within the “Evacuation Zone.” The demographics of the area are shown here.

STEP 7:

- Click on the “Add...” button in the lower right of the “Evacuation Area” tab. This will create a second evacuation zone tab named “Evacuation Zone 2.”
- Repeat step 6, but select “Mobile – Zone 2” instead.

At this time you will see that the lower half of the screen has been populated with data, and an area above the initially selected area has changed color. The newly shaded area on the map and data populated on the screen is the second zone we want to evacuate for this scenario.

- Click on the “Configuration/Response” tab in the “Evacuation Zone2” tab.
- Click on the colored square next to the “Color” and select a different color for the second evacuation zone.
- Click on the up arrow next to the “Response Delay (Hours)” and change the value to 4. This will delay the start of the evacuation of this zone 4 hours.
- Click on “100” next to “Clearing the Area (%)” and change the rate to 50. This indicates that only 50% of the people in Evacuation Zone 2 will evacuate.

STEP 8:

- Click on the tab titled “Roads” This screen will allow you to add or remove roads from the evacuation zone established under the tab “Evacuation Zone.”
- Click on the down arrow of the “Add” button  and scroll down to the  button next to “From Evacuation Area.”
- At this time you will see that the lower half of the screen has been populated with data. You will also notice on the map that the roads contained in the evacuation area have been added to the screen. Click on the tab “Evacuation End Points.” The endpoints associated with highways and major arterial routes have been automatically selected. This tab will give you the opportunity to customize the end points you feel are also appropriate for the evacuation.

STEP 9:

- While still on the “Roads” Tab, click on the “Modified Roads” tab. It will appear blank, you must click on the “Add...” button; this will create a sub-tab that will allow you to designate routes that will be contraflow and/or use shoulders during the evacuation.
- You may either click on the “plus” portion of the  button, or on the drop down arrow and choose “Freehand Polygon.” Draw a polygon around I-65 in the upper right portion of the road network north of Mobile.

Note: The portion of highway you select must end in an active endpoint, and there can be only one highway per group. If you wish to add another section of contraflow, click the “Add...” button again.

STEP 10:

- Return to the second tab “Summary.” Click on “Save.”

STEP 11:

- Click on tab titled “Results” and click on the “Calculate” button on the lower right of the screen.
- A popup will be displayed that states “Successfully started clearance time simulation.”, click “OK”.
- Within a short period of time, depending upon the area being evacuated, a box will appear indicating the simulation is complete, and asking you if you want to load the new results, click “OK”.
- The simulation results will be loaded for this evacuation scenario. In the upper right corner of the screen, check the box, “Animate.” This will animate the evacuation based upon the data in the scenario on the map to the left.
- If you are interested in displaying the animated results in Google Earth, add “kml” to the end of the url, <http://128.244.170.12:8080/RTEPM/kml> and hit “enter.”