The story/context:

Set around Oklahoma City you work for an air taxi company. You own a Mooney 201J and have a good reputation for providing a speedy service. You are based at Wiley Post airport (KPWA)

This morning you have an early start. A couple have booked you to fly them to Elk City for a weekend break. As car enthusiasts they are looking forward to visiting the Route 66 museum amongst the other attractions Elk City has to offer!

The forecast for the morning flight is calm with scattered clouds and a moderate northerly wind. However, late evening storms are forecasted. The last few days have seen numerous tornado producing supercell storms in the state. The forecasted storms are not expected until early evening which should not be a problem for you, as you are making your return flight in early afternoon having attended to some business in Elk City.
Leg 1 suggested route from Wiley Post (KPWA) to Elk City (KELK):

Navigation would be up to the mission user but these are suggestions...

- Depart KPWA and track the El Reno NDB (freq. 335).
- Then either:
  - Use the airports shown by the route on the sectional as for visual navigation. KELK is the first airport you will reach after passing overhead of the Foss NDB (freq. 393). It is easy to find. Just follow the road which is modelled on flight simulator and is highway 40 or US historic route 66! KELK is an uncontrolled airport so use ATC to communicate your arrival. Both runways 35/17 have left patterns.
  - OR when passing the El Reno NDB track the 260° outbound radial from the Wiley Post VOR/DME (113.4). When this signal is lost, you will almost immediately be able to track the SAYRE VOR/DME (115.2) on a heading of 251°. After a short while you can track the Foss NDB (freq. 393). KELK is the first airport you will reach after passing overhead of the Foss NDB.
- Enter the traffic pattern for KELK and land.

Weather for leg 1 would be set as scattered cumulus clouds at 5000ft with a northerly wind of 8-12knots. Other than navigation, this should be the easy part of the mission!

Sample screenshots from leg 1:

- Getting ready for the early start at Wiley Post
- Taking off for Wiley Post
- Landing at Elk City
Leg 2 Elk City (KELK) to Cordell airport (F36):

During the morning at Elk City the weather takes a turn for the worse. You are in the middle of the south’s tornado alley and the predicted late afternoon storms are building early. It looks like you’re going to be spending some extra time at Elk City airport until early evening waiting for the weather to clear.

Until... you turn on the TV and see a news report showing a twister hitting the nearby town of Cordell. The report tells of a family injured by the twister with no way of reaching the hospital at Oklahoma due to storm damage on the roads. Thus, the rest of your mission is decided!

Cordell has a tragic history of being hit by twisters...

You need to fly to Cordell and pick up the family and fly them back to Wiley Post to get them to hospital. There are no instrument approaches to Cordell so it promises to be a hair-raising flight. Weather is set to heavy turbulence with ¾ - 1 mile visibility. The storm is still around so expect thunder and lightning. You will have to fly as low as possible to see the ground and be able to navigate. Route 66 and the main road leading to Cordell shown on the chart is a good navigational aid. Follow this road and it will lead to the airport. This will be a short but very difficult flight. Lives depend on your success!

**Leg 3: Cordell (F36) back to Wiley Post airport (KPWA):**

Now you have picked up the injured family, the Mooney is heavy! This would be represented in the simulator by a large gross weight for the aeroplane.

The journey back will be IFR. There are no published departures from Cordell but you will follow a published approached and ILS landing into Wiley Post as shown on the chart below. Weather will be the same as the flight from Elk City, so expect a bumpy ride where you rely on your instruments.

From Cordell fly direct to Kingfisher VOR (freq 114.7)

Fly the 98° radial from the Kingfisher VOR to intercept the Wiley Post ILS localiser (freq 110.15).

Intercept the Wiley Post ILS localiser at an altitude of 3000ft. Fly the ILS on a heading of 172° to land on the 17L runway.

Having landed, hopefully, taxi to parking to complete the mission and get the injured family to hospital. You have saved the day... and some lives.
Summary of the mission on sectional
(Zoom to see the details!)
Sectional from skyvector.com

Leg 1: KPWA to KELK
Dept: 7:00
Arrive: 7:45

KPWA – Wiley Post Airport
VOR/DME 113.4

Leg 2: KELK to F36

Leg 3: F36 to KPWA

Historic route 66. Useful for finding Elk City airport!
Flowchart summary of the mission

Start at Wiley Post airport and fly your customers to Elk City. Use the charts for navigation.

The weather turns and tornadoes are in the area as a supercell storm sets in. It looks like you'll be making a late return as you'll have to wait for the weather to clear.

Fly in very difficult weather conditions to Cordell. Fly as low as you dare to use the roads to locate Cordell airport. The GPS might be useful too. Land and pick up the injured family.

You receive a call about an injured family in the town of Cordell. You are their only hope to get them to hospital.

Fly as quick as you can back to Wiley Post airport to get the family to a hospital. The weather will still be poor so this will be an IFR flight with a ILS landing into Wiley Post. Land and taxi to parking.
**Rewards for the completed mission**

Following the completion of your heroic rescue you become a legend aviator at Wiley Post airport and your air taxi service goes from strength to strength. You also awarded the “key to the city of Cordell” for your daring rescue!