



Canadian Virtual Airlines Pilot Training Program

Phase 2 - RegionalJet Training Lesson Plan rj07 – route check flight

Requirements

Project Opensky CRJ-200
Project Fokker F100
Wilco/FeelThere (payware) CRJ-200
VATSIM connection for online flight (optional)
FSR video flight recording for Instructor review

Tolerances

Altitude +/- 200' Speed +/- 20 kias Heading +/- 10°
Use of any type of autopilot assist is prohibited

Outline

This flight will be our final session in the RJ. Hopefully you are comfortable with the aircraft and have learned a few things and refined your flightsim techniques. This flight will simulate a route check flight – you will be occupying the left hand seat and operating as the Pilot-In-Command. The right seat will be occupied (virtually) by a flight check Captain to observe your operations and compliance with CVA procedures. You may fly this, and other, flight profiles as many times as you wish until you are comfortable with the teaching points. No video recorded segment of this flight is required. This flight should take approximately 90 minutes to complete. We will be filing an IFR flightplan from Winnipeg to the destination of your choice from the available options.

Discussion

For this flight you will be expected to carry out and submit all relevant pre-flight and post-flight documentation for a standard CVA route. The required documentation for the route must be filed with your PIREP to the CVA Academy staff to be considered as a successful graduate of the training program. For a basic fuel calculation...

- determine distance to destination and add distance to alternate
- divide total distance by 400 kts
- multiply the result by 4000
- total should be the base fuel requirement
- add the +30 reserve and the CVA 500lb start taxi volume (2500lbs)
- have the ramp rats – fill 'er up

PreFlight

Set weather/time to real world settings

Place your aircraft at Winnipeg Int'l - CYWG on the main ramp – cold and dark flight deck preferred. If you are flying this profile on the VATSIM network file an IFR flight plan CYWG to one of the three optioned destinations

Winnipeg to Churchill (alternate Lynn Lake) WG to YQ 541nms YQ to YL 250nms

Winnipeg to Calgary (alternate Edmonton) WG to YC 643nms YC to EG 133nms

Winnipeg to Toronto (alternate Ottawa) WG to YZ 811nms YZ to OW 195nms

FlightProfile

Carry out a standard CVA route flight. For the purposes of pre-flight weight and balance and fuel calculations take the following as standard values

- (i) zero fuel weight – 30,800 lbs
- (ii) passenger load – 35 at 180 lbs/pax
- (iii) crew load – 3 at 180/lbs/crew
- (iv) cargo load – 1500lbs
- (v) average speed for leg – 400 kts
- (vi) CARS req't for fuel – aviation regulations require jet aircraft to carry sufficient fuel to...
 - (a) fly to destination
 - (b) fly to alternate
 - (c) hold for 30 minutes
- (vii) consider average fuel burn as 4000 lbs/hr
- (viii) CVA company policy is to carry an additional 500 lbs for start/taxi/climb

Submit the following data with your PIREP to verify proper route calculations were taken

1. CVA callsign and aircraft civil registration
2. PIC name and date of flight
3. flightplanned routing and altitude
4. estimated time enroute
5. distance calculation departure + destination + alternate =
6. fuel calculation for above distance + 30 min reserve + 500lbs =
7. a/c ZFW (zero fuel weight) + passenger/crew load =
8. a/c TOW (take off weight) from calculations =
9. a/c landing weight from calculations =
10. METAR for departure aerodrome
11. METAR for destination aerodrome
12. METAR for alternate aerodrome
13. enroute forecast winds (if applicable)
14. time of engine start
15. time of release brakes – taxi
16. type of approach flown
17. time of park at destination/engine shutdown
18. total time brakes on – brakes off
19. total fuel burn on leg
20. comments on flight
21. overall critique/comments on the entire RJ training session

Conclusion

File your appropriate flight time with CVA through normal channels. File an additional PIREP via email with your designated Instructor Pilot indicating you have successfully (or unsuccessfully) completed CVAtp07 and include the relevant details as requested in the flight profile. Should you require online/offline assistance or have questions as to the procedures for handling the RJ contact your instructor for guidance and/or schedule an online training flight. As this is our last flight in the Regional Jet CVA training series, I'd like to thank you for participating and congratulate you on, hopefully, becoming a more proficient flightsim pilot. If you have any comments or critiques on this program please feel free to contact me at the e-mail address listed.

Ken Greenwood CVA822
CVA Flight Academy – Chief Instructor
zedex@nbnet.nb.ca
Jan 2005