



Regulations & Publications

Overview

WHAT

- Overview and introduction to the various FARs governing the issuance of an instrument rating as well as the rules of IFR flight

WHY

- A student must be familiar with the tools and requirements for the instrument pilot

CONTENT

- Part 61 & IFR Pilots
- Part 91 & IFR Pilots
- Publications
- Charts & Procedures



14 CFR Part 61

Part 61 & IFR Pilots

Instrument Rating Requirements ([FAR 61.65](#))

- FAR 61.65(a): Instrument Rating Requirements
- FAR 61.65(b): Aeronautical Knowledge
- FAR 61.65(c): Flight Proficiency
- FAR 61.65(d): Aeronautical Experience
- FAR 61.65(h): Use of Simulators / FTDs
- FAR 61.65(i): Use of an Aviation Training Device



14 CFR Part 61

Part 61 & IFR Pilots

Recent Flight Experience: Pilot in Command ([FAR 61.57\(c\)](#))

- Within the last 6 months, must have performed & logged:
 - At least 6 instrument approaches
 - Holding procedures
 - Intercepting & tracking courses using navigation systems
- Can be performed under actual or simulated conditions



14 CFR Part 91

Part 91 & IFR Pilots

- Can the airplane fly IFR?
 - FAR 91.205(d): Required Instruments and Equipment
 - FAR 91.411: Altimeter/Pitot-Static Tests & Inspections
 - FAR 91.171: VOR Equipment Check
- Preflight
 - FAR 91.103: Preflight Actions
 - FAR 91.169: IFR Alternate Requirements
 - FAR 91.167: Fuel Requirements
- Departure
 - FAR 91.173: ATC Clearance & Flight Plan
 - FAR 91.175: Takeoff and Landing IFR



14 CFR Part 91

Part 91 & IFR Pilots

- Enroute
 - [FAR 91.177](#): Minimum Altitudes
 - [FAR 91.179](#): IFR Cruising Altitudes
 - [FAR 91.181](#): Course to be Flown
 - [FAR 91.183](#): IFR Communications
 - [FAR 91.185](#): Communications Failures
 - [FAR 91.187](#): Malfunction Reports
- Approach ([FAR 91.175](#))
 - FAR 91.175(a)(c): Takeoff and Landing IFR
 - FAR 91.175(k): ILS Components
 - FAR 91.175(d): Landing
 - FAR 91.175(e): Missed Approach Procedures
 - FAR 91.175(j): Procedure Turns
- [Part 95](#): IFR Altitudes
- [Part 97](#): Standard Instrument Procedures

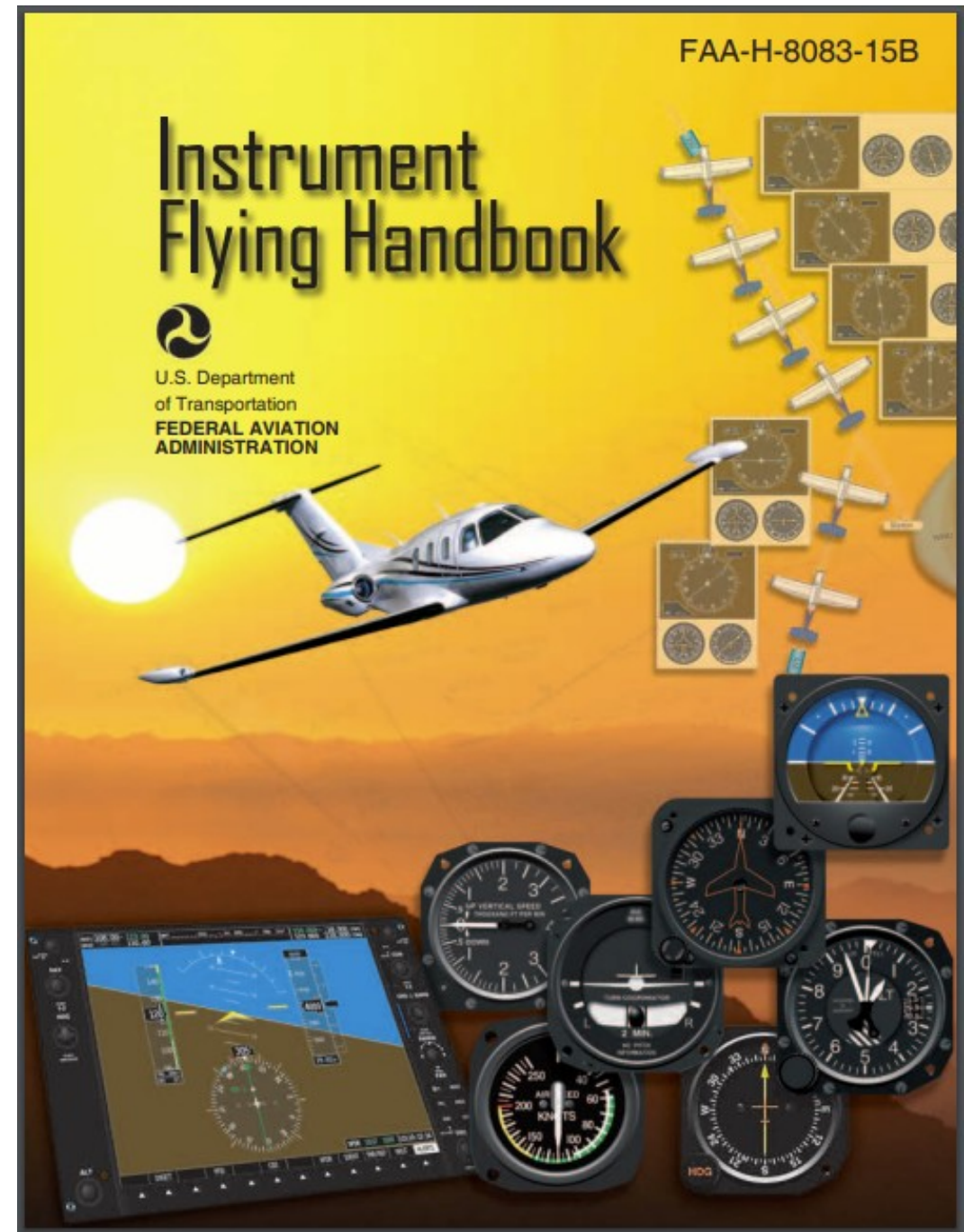


Publications

Instrument Flying Handbook

Knowledge & skills to operate in IMC

- Used to prepare for instrument rating tests
- Contents include:
 - Air Traffic Control
 - Instrument Flying Skills
 - Navigation & IFR Flight
 - Emergency Operations



Publications

Aeronautical Information Manual (AIM)

Basic flight information & ATC procedures

- Navigation
- Airspace
- Air Traffic Control
- Air Traffic Procedures
- Emergency Procedures
- Pilot/Controller Glossary



U.S. Department
of Transportation
**Federal Aviation
Administration**

June 17, 2021

Aeronautical

Information

Manual

Official Guide to
Basic Flight Information and ATC Procedures

An electronic version of this publication is available online at
http://www.faa.gov/air_traffic/publications



Publications

PTS & ACS

List the tasks a pilot must show skill in to obtain a rating

- Current PTS
 - Sport
 - Recreational
 - Instrument Instructor
- Current ACS
 - Private
 - Instrument
 - Commercial
 - Flight Instructor
 - ATP
 - Type Rating

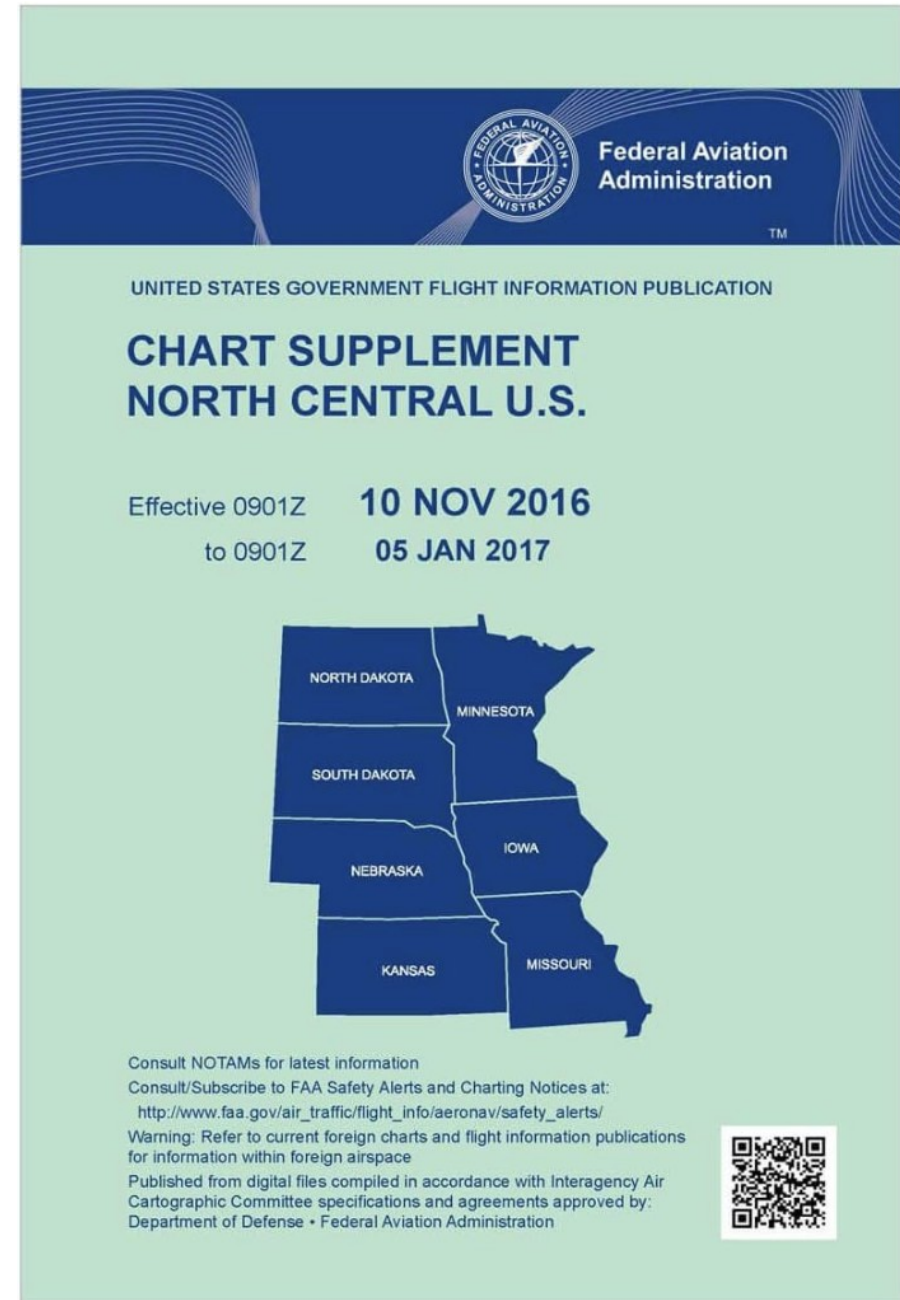


Charts & Procedures

Chart Supplement

Pilot's directory: Airports, communication data, navigation facilities, procedures, etc.

- 7 geographical districts
- Published by NACO every 8 weeks

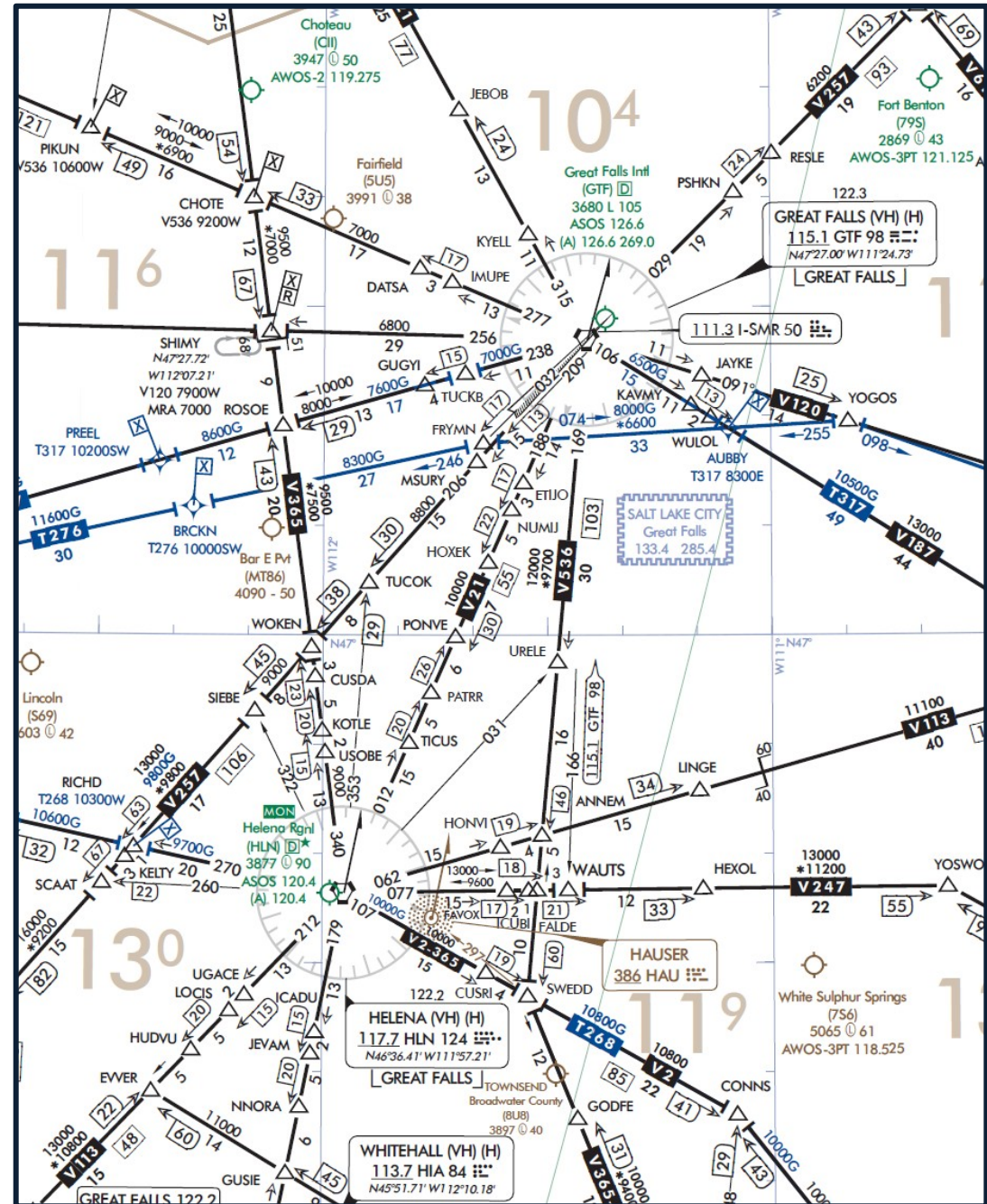


Charts & Procedures

Low Altitude Enroute Charts

For IFR navigation below 18,000' MSL

- Equivalent to the VFR sectional chart
- General Content
 - Airport Information
 - Charted IFR Altitudes
 - Navigation Features
- Revised every 56 days
- [FAA Aeronautical Chart User's Guide](#)



Charts & Procedures

Terminal Procedures Publication (TPP)

Flight procedures in the airport area

- Contains:
 - Takeoff, Alternate, & Radar Minimums
 - Departure Procedures (DPs)
 - Standard Terminal Arrival Routes (STARs)
 - Instrument Approach Procedures (IAPs)
- Exist to make the controller's & pilot's jobs safer & more efficient
- Revised every 56 days

NC-1

MN ND SD

05 SEP 24 to 31 OCT 24



Federal Aviation
Administration

U.S. Terminal Procedures Publication

North Central (NC) Vol 1 of 3

Effective: 0901Z
05 SEP 2024
to: 0901Z
31 OCT 2024

Consult the Change Notice
(CN) effective 03 OCT 2024 for
revised Instrument Procedure
Charts for this volume



Consult NOTAMs for latest information
Consult/Subscribe to FAA Safety Alerts and Charting Notices at:
http://www.faa.gov/air_traffic/flight_info/aeronav/safety_alerts/
Published from digital files compiled in accordance with Interagency Air
Committee specifications and agreements approved by
Department of Defense - Federal Aviation Administration





- Takeoff Minimums
 - Nonstandard IFR takeoff mins
 - Obstacle Departure Procedure (ODPs)
 - Diverse Vector Area
- Alternate Minimums
 - Nonstandard IFR alternate mins
- Radar Minimums
 - PAR/ASR approaches
 - Pilot receives course & altitude guidance from a controller
 - Used in emergency/distress situations

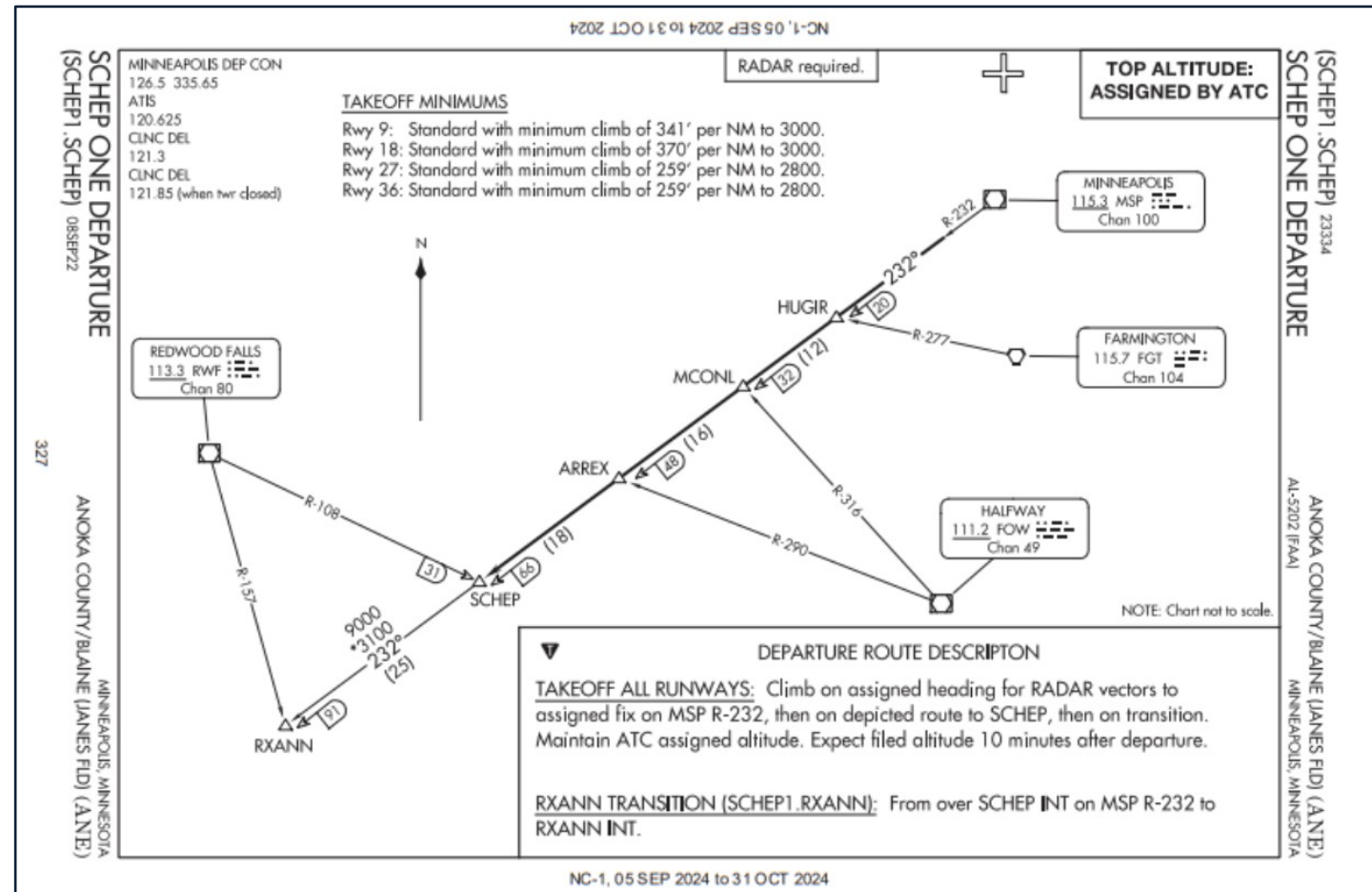
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Charts & Procedures

TPP: Departure Procedures

Standard Instrument Departures (SIDs)

- Preplanned IFR routing to depart an airfield
- Provide obstacle clearance, and reduces communication & departure delays
- Text & graphic form

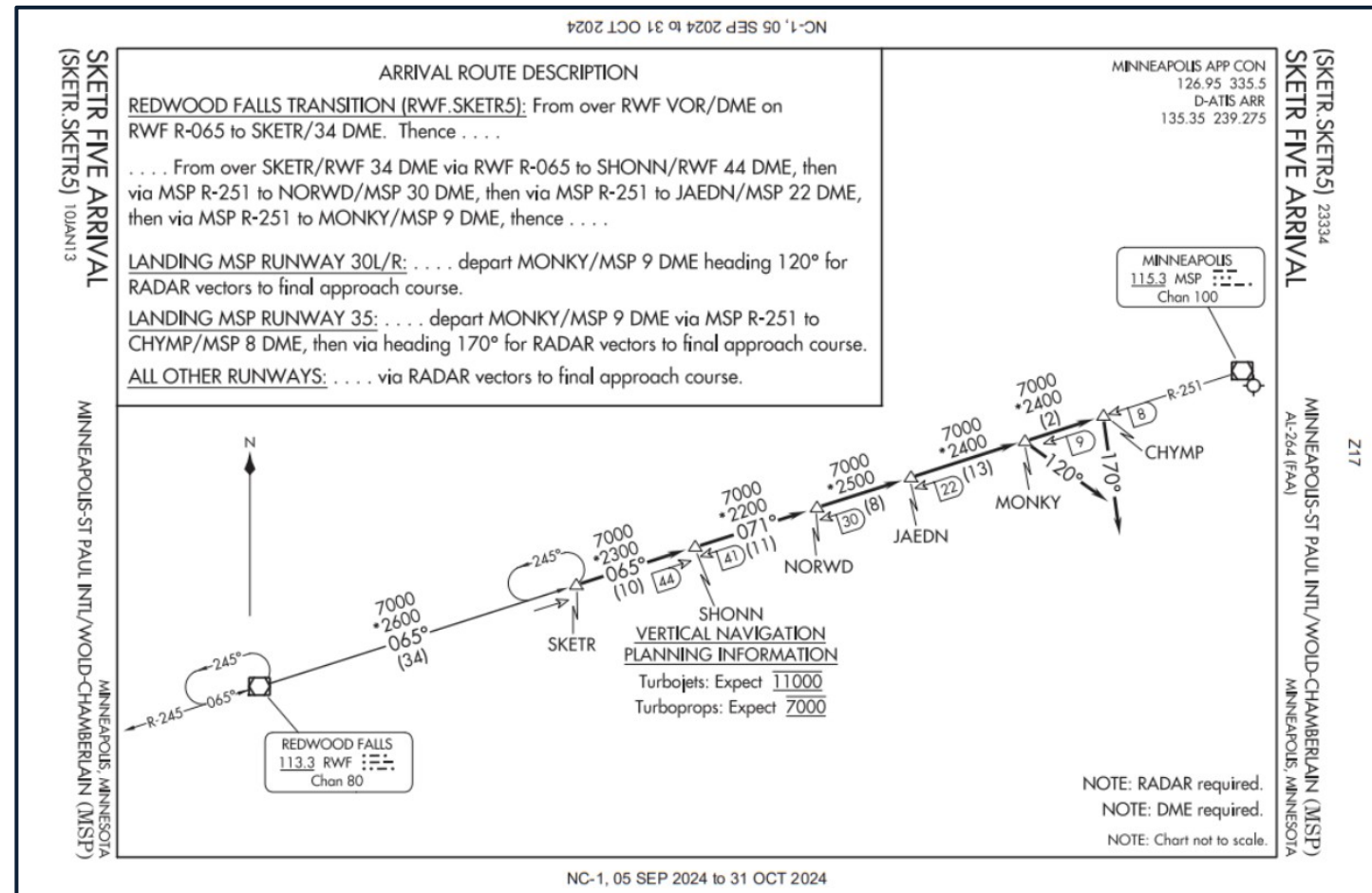


Charts & Procedures

TPP: Arrival Procedures

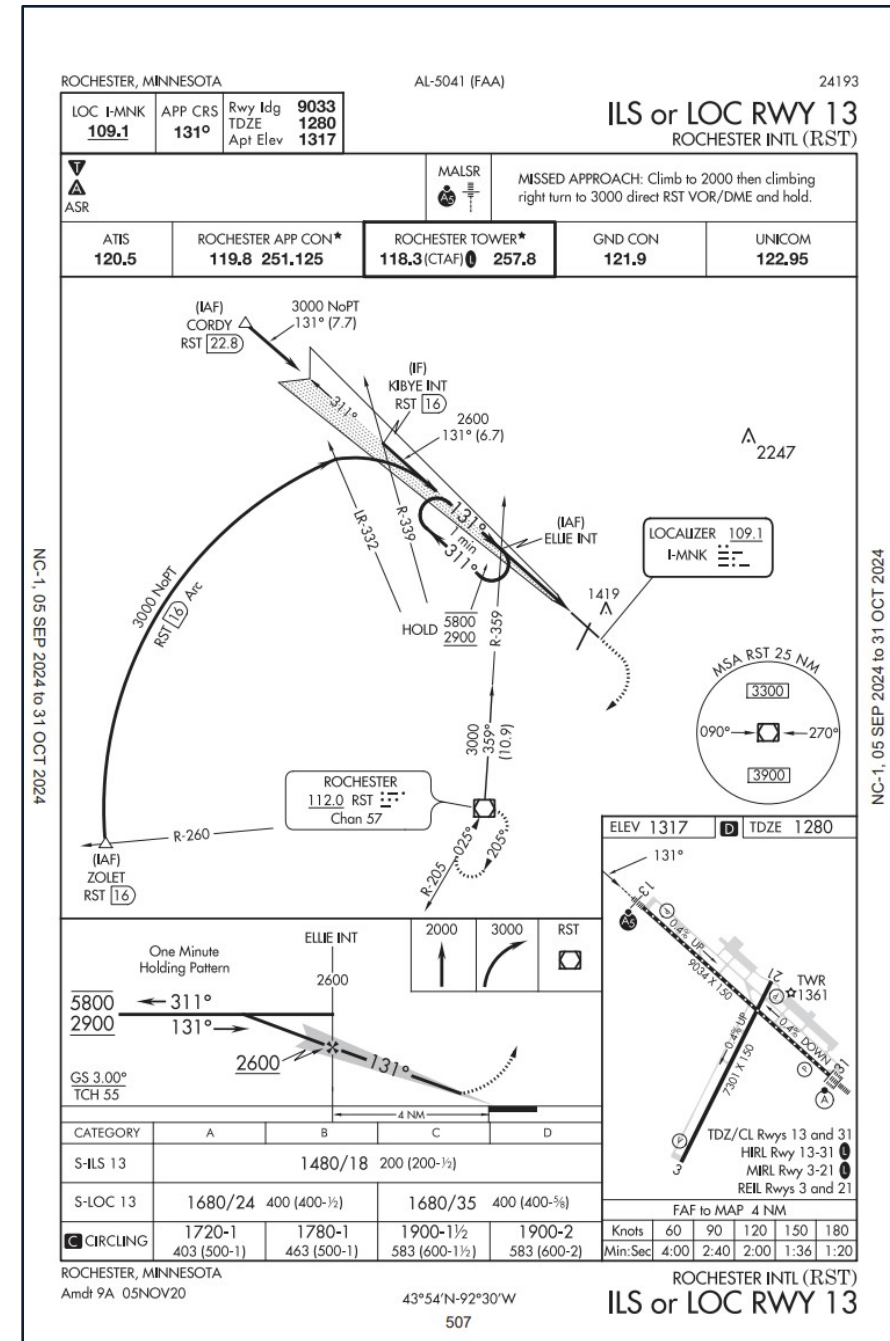
Standard Terminal Arrival Route (STAR)

- Preplanned IFR arrival procedures
- Transition from the enroute structure to a terminal fix
- Text & graphic form



IAP

- Provide the method to descend and land safely in low visibility conditions
- Describes navigation requirements, altitude changes, course changes, and other limitations





Questions?