This PowerPoint is not intended as a directive. It is intended to serve as a tool to communicate the training community's best practices. Any questions or concerns to these procedures are welcome by contacting the Arizona Flight Training Workgroup (<u>http://aftw.org</u>).

> Revision 6 Revision date: 05 JUN 2020

The airspace around the Stanfield VOR (TFD) and Casa Grande Airport (KCGZ) is extremely congested with training aircraft. This is primarily due to the fact that the ILS approach to runway 5 at CGZ is one of the only precision approaches available to the many flight training providers in the Phoenix area. That, combined with the Class E airspace and lack of radar coverage, puts this area at high-risk for mid-air collisions.

The following procedures are provided as recommendations and best practices to improve communication and provide a safe training environment at and around the Stanfield VOR. Following these procedures is highly recommended, but not mandatory. Please contact the AFTW (at aftw.org) with any questions or concerns regarding these recommended procedures.

**IMPORTANT NOTE:** Everyone following these procedures needs to remember to be patient with, and understanding of, other pilots who are not familiar with these procedures. Those of us who fly these procedures regularly may start to think that this is "the only way" or "the right way" for everything to be done, thereby leading to us think that someone else is "doing it wrong." Please remember that these are unofficial procedures that are not known to many other pilots. When it becomes apparent that there is someone attempting to transit the area and/or practice an instrument approach without following the recommended procedures, the instructor/evaluator currently at the "top of stack" should ask the unfamiliar pilot if they would like help joining the flow of traffic and then proceed to guide that pilot through the procedures as needed. Please be careful to not sound frustrated or inconvenienced while doing this.

It is appropriate to kindly make a brief radio call to suggest that unfamiliar pilots obtain these procedures at aftw.org before their next flight. Please remember to be patient, courteous, and professional at all times.

Thank you!

Dimensions

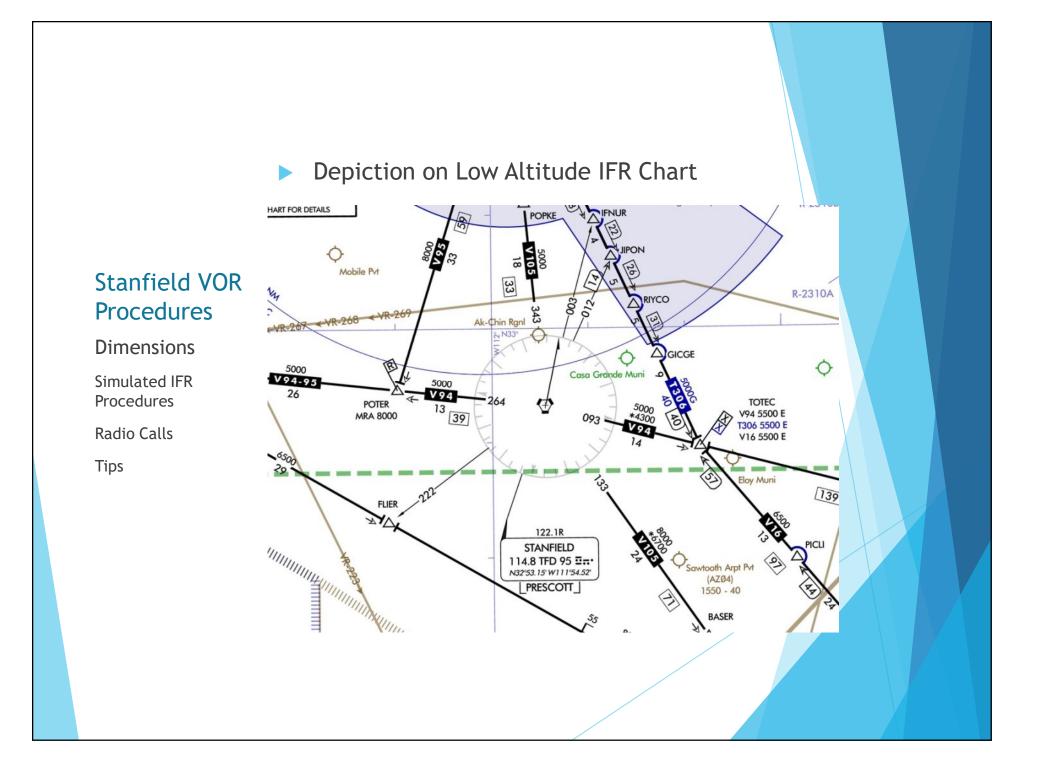
Simulated IFR Procedures

Radio Calls

► Tips



Dimensions



#### Depiction on VFR Terminal Area Chart

#### 90 ABOVE 1514 AA-(314) NORTH TEST TRACK 80 1468 MARICOPÁ (VPNTT) (263) (VPMAR) 1736 • 2163 16 1823 Λ AK-CHIN RGNL (A39) AWOS-3 126:9 1307\*L 47 122:9 C 1838 (613) UC 1640 A (265) 1788 A (257) 2550 2239 Coolidg V 8500') AND ABOVE) 30 NM tailings NODE C substation CASA GRANDE (CGZ) AWOS-3 132.175 \_1464 L 52 122.7 @ RP 23 ponds INTENSIVE STUDENT TRAINING VICINITY OF CASA GRANDE AND COOLIDGE AIRPORTS UP TO 7500' SOUTH TEST TRACK 26 (VPSTT) 29 122.1R STANFIELD 114.8 Ch 95 TFD 2640 CASA PRESCOTT GRANDE Eleven Mile Corner Stanfield golf course 1635 1 M (208) DTITERS fairgrounds -10030'E . 309 - 16Ŵ substatic 1*662* (293) 0930 1776 INTENSIVE STUDENT TRAINING VICINITY OF STANFIELD VORTAC UP TO 7500' **V 94** 139 RRANZA (Pvt) IN (299) 300 - 21 V TOTEC ELOY (E6Ø) 1511 L 39 122.8 RP 20 2350 1687 (253) 125.25 1 Tolte

#### Stanfield VOR Procedures

Dimensions

Simulated IFR Procedures

Radio Calls

#### Depiction on VFR Sectional Chart

#### RELLA SAILPORT (E68) 70 30 11 273 - 25 122.9 1500 MODE Olberg RP\* Bapchule 90 ω Sacaton 10 1736 80 1514 canal (293)-(314) 0 A K<sup>1</sup>CHIN RGNL (A39) AWOS-3 (126.9 307 \*L 47(122.0 988 Maricopa 306 608 MILLAR (Pvt) 123.7 (206)1215 - 26 1838 2121 2755 (613) UC 823 ON PEAK Coolidge 2239 $\bigcirc$ Pvt) CASA GRANDE (CGZ) 1640 39 AWOS-3 132.175 tailings (265)onds test-464 L 52 1.22.7-0 S(Pvt) **RP 23** track<sup>-</sup> 122.1R SARITA N 27 STANFIELD 1464 - 25 ŝ POTER INTENSIVE-STUDENT TRAINING VICINITY 2640 golf course OF CASA GRANDE AND COOLIDGE PRESCOTT Stanfield 200 64 . AIRPORTS-UP-TO-7500' (Pvt) POTTERS rt) 1635 \_fairgrounds CASA 26 CARRANZA (Pvt) 1662 GRANDE 1776 2(208) 1309 - 16 (293)TOTEC A (299) ELOY (E60) 1300 - 21 2111 1511 L 39 122.8 1687 20 (259) • 2350 INTENSIVE STUDENT TRAINING VICINITY 09.20 3117 Toltec ... OF STANFIELD VORTAC UP TO 7500? 125.25 TAC Eloy 1-793 Arizona (255) Chuichu 🖗 City 4373

#### Stanfield VOR Procedures

Dimensions

Simulated IFR Procedures

Radio Calls

#### Stanfield VOR training area laterally extends up to 10 NM - 12 NM from the TFD VOR



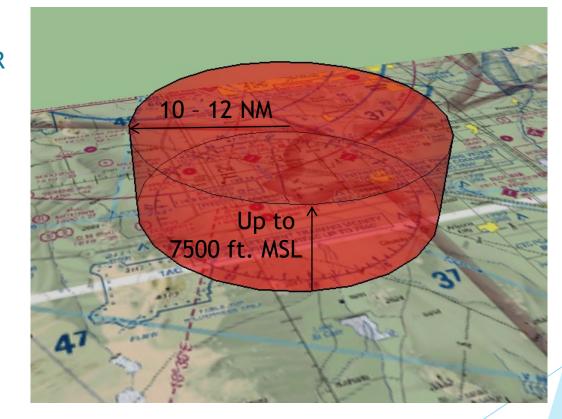
#### Stanfield VOR Procedures

#### Dimensions

Simulated IFR Procedures

Radio Calls

Stanfield VOR training area extends vertically up to 7500 ft. MSL



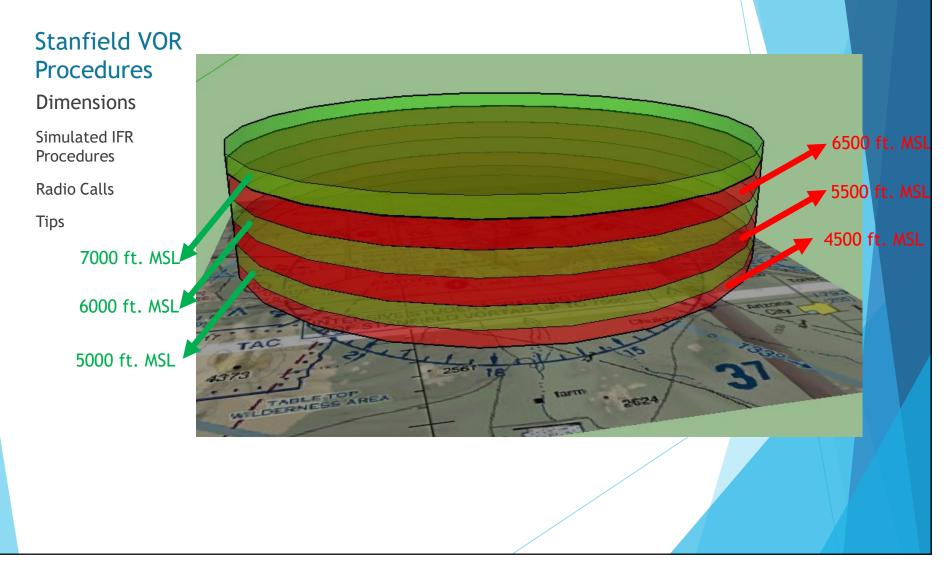
#### Stanfield VOR Procedures

#### Dimensions

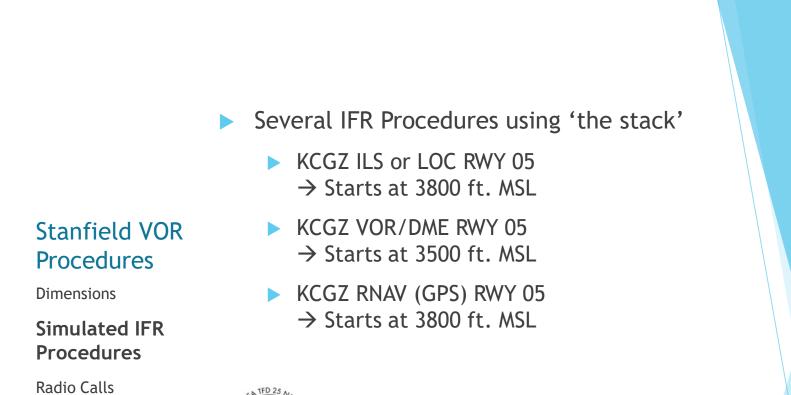
Simulated IFR Procedures

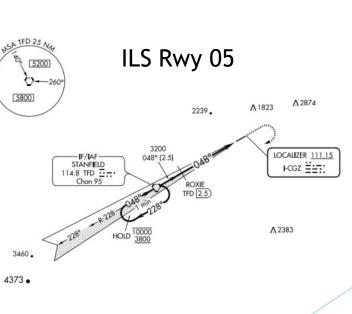
Radio Calls





Simulated IFR Procedures





#### Useable Altitudes

- 4,500 is the lowest useable altitude to hold and await your turn to shoot the approach.
- Any altitude below 4,500 is referred to as "Approach Altitudes" and is reserved for shooting the approaches at the appropriate starting altitude for the approach you wish to practice.
- Above 4,500, each aircraft stacks at 500 ft. increments awaiting turn to drop down and shoot the approach.



#### Stanfield VOR Procedures

Dimensions

#### Simulated IFR Procedures

Radio Calls

Dimensions

#### Simulated IFR Procedures

Radio Calls

Tips

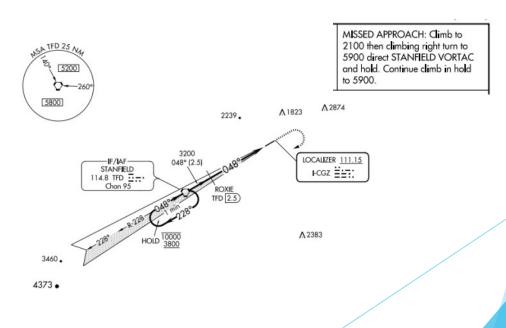
#### Several IFR Procedures using the stack

- Idea is to occupy next available altitude above the top-of-stack and drop down in the stack, one airplane at a time as altitudes become available.
- Drop 500 ft. per descent to next stack holding altitude until at 4,500 MSL.
- Make sure nobody is below you and visually clear the altitude below. When in doubt, CALL!
- Once you reach starting altitude, initiate approach when ready.

Top-of-stack = highest occupied altitude in 'the stack'



- **Missed Approach Procedures** 
  - The missed approach procedures for IFR approaches lead an aircraft back to 'the stack.'
  - When on the missed approach, as soon as practical, communicate with aircraft in 'the stack.'



Dimensions

#### Simulated IFR **Procedures**

Radio Calls

Dimensions

#### Simulated IFR Procedures

Radio Calls

- If performing holdings / tracking / interceptions <u>only</u>
  - Leave the lower altitudes in 'the stack' for airplanes flying IFR approaches.
  - The AFTW suggests holding at 7000 ft. MSL, or as appropriate for the traffic.
  - If holding aircraft intend to accomplish a practice approach, they can work their way into the stack as they near the end of their holding practice.



Radio Calls

Calls should be as short and precise as possible.

#### Stanfield VOR Procedures

Dimensions

Simulated IFR Procedures

#### Radio Calls

Tips

- Should be made by instructor/evaluator, not the pilot in training
  - Students already have enough to think about!
  - The instructor/evaluator should simulate realistic IFR ATC calls to the pilot in training (over the intercom)

Tip: Check out LiveATC.net for KCGZ CTAF audio recordings and live feed.

- When approaching the stack (12 NM out), start monitoring 122.70, even if you are not intending to use it (e.g.: VFR nav.)
- If you are within 10 NM of the stack, make position reports on 122.70



Dimensions

Simulated IFR Procedures

**Radio Calls** 

start monitoring 122.70, even if you are not intending to use it (e.g.: VFR nav.)

When approaching the stack (12 NM out),

If you are within 10 NM of the stack, make position reports on 122.70



#### Stanfield VOR Procedures

Dimensions

Simulated IFR Procedures

#### **Radio Calls**

- If you intend to use the stack:
  - Make a last call on the practice area frequency (122.85)
  - Make an initial call on 122.70 10 NM from Stanfield VOR



Dimensions

Simulated IFR Procedures

#### Radio Calls

#### First call to be made 10 NM out

- Ask for top-of-stack
- Listen carefully to the current topof-stack and occupy the next available altitude.
- Announce intentions



#### Stanfield VOR Procedures

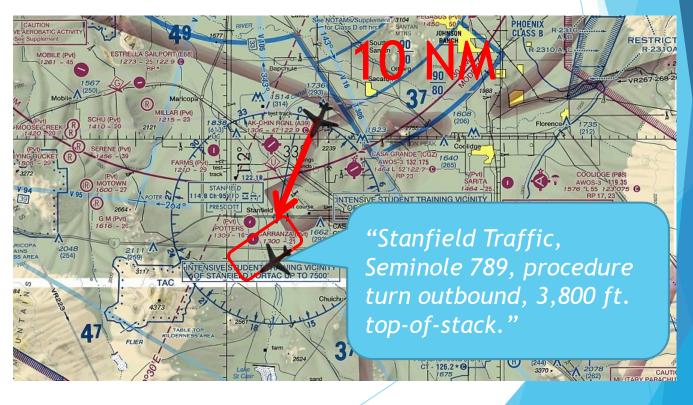
Dimensions

Simulated IFR Procedures

#### Radio Calls

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#### Stanfield VOR Procedures

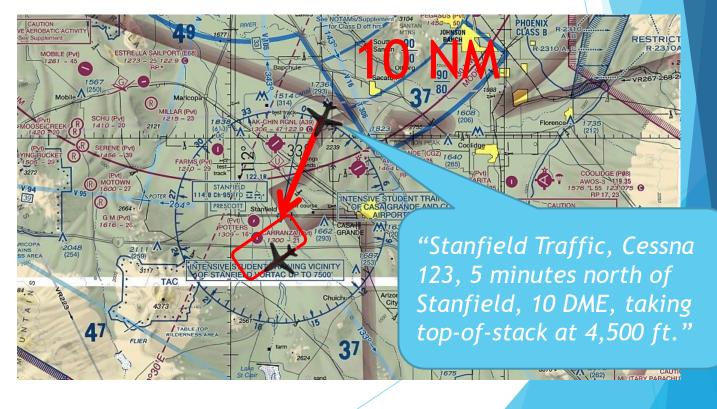
Dimensions

Simulated IFR Procedures

#### Radio Calls

#### First call to be made 10 NM out

- Ask for top-of-stack
- Listen carefully to the current topof-stack and occupy the next available altitude.
- Announce intentions



#### Stanfield VOR Procedures

Dimensions

Simulated IFR Procedures

#### Radio Calls

Dimensions

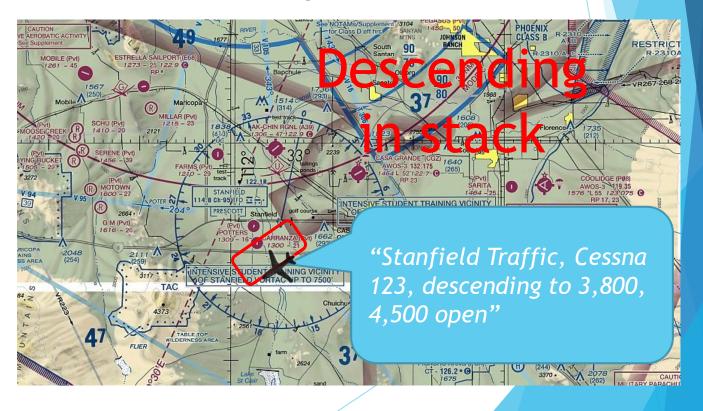
Simulated IFR Procedures

#### Radio Calls

- Next call to be made at about 5 NM (2 minutes) out
  - Announce intentions to take the next open altitude of 4,500 (4,000 is NOT an option because it conflicts with approaches)



- Next call to be made when descending
  - Announce intentions and clearly announce vacated altitude is 'OPEN'
  - Wait until next altitude is 'OPEN' before descending!



Dimensions

Simulated IFR Procedures

#### Radio Calls

Dimensions

Simulated IFR Procedures

#### Radio Calls

- Next call to be made when procedure turn inbound
  - This call lets everyone know you are finished holding and about to shoot the approach



- Next call to be made when starting the approach (overhead the TFD VOR)
  - Announce intentions and report vacated altitude 'OPEN'

#### MOBILE (Pvt) ESTRELLA SAILPORT 1567 MILLAR (Pvt) SCHU (Pv 735 GRANDE (CGZ) 1640 OS-3 132.175 (265) 122.18 COOLIDGE (PØ AWOS-3 119.35 1576 'L 55 123:075 @ R MOTOWN 1600 - 27 STANFI 2664 -G M (Pvt) 1616 - 26 "Stanfield Traffic, Cessna 2048 2111 AINS 123, VOR inbound, INTENSIVE SUDENT TRAINING VICINITY TAC approach altitudes are open" 3 2078 CAUTA 3370 . (262) MILITARY PARACHIT CT - 126.2\*0

### Stanfield VOR Procedures

Dimensions

Simulated IFR Procedures

#### Radio Calls

- While on the approach, an inbound call should be made on a 4 NM and 2 NM final to allow VFR aircraft in the Casa Grande pattern to govern their approaches.
- Report to Casa Grande traffic instead of Stanfield Traffic from this moment on.

#### "2 NM final" AK-CHIN RGNL (A39) 1306 - 47 122.9 C 338 1**788** (257) 2550 2239 "4 NM final" 30 NM 500 tailings NODE C ponds CASA GRANDE (CGZ) AWOS-3 132.175 464 L 52 122.7 0 **RP 23** INTEN OF 122.15 STANFIELD 114.8 Ch 95 TFD ..... CASA PRESCOTT GRANDE Stanfield substation golf course 1635 ERS (208)**∧**⊸ 09.30 1662 (293)I INTENSIVE STUDENT TRAINING VICINIT IZA (Pvt) 94 21 139 OF STANFIELD VORTAC UP TO 7500 TOTEC

#### Stanfield VOR **Procedures**

Dimensions

Simulated IFR **Procedures** 

**Radio Calls** 

Next call to be made when 4 NM final

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ZA (Pvt)

- 21

Stanfield

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Announce intentions and closely monitor KCGZ traffic!

> AK-CHIN RGNL (A39) 306 - 47 122.9 C

STANFIELD 114.8 Ch.95 TFD .....

PRESCOTT

INTENSIVE STUDENT TRAINING VICINIT

OF STANFIELD VORTAC UP TO 7500

golf course

1662 (293) **1788** (257)

> CASA GRANDE (CGZ) AWOS-3 132.175 1464 L 52 122.7 0

**RP 23** 

"Casa Grande traffic,

Cessna 123, 4 mile final

runway 5, Casa Grande"

30 NM

0.9

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tailings

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OF

#### Stanfield VOR Procedures

#### Dimensions

Simulated IFR Procedures

#### Radio Calls

- Next call to be made when 2 NM final
  - Announce intentions and closely monitor KCGZ traffic!

Dimensions

Simulated IFR Procedures

Radio Calls

Tips

"Casa Grande traffic, Twinstar 456, 2 mile final runway 5, Casa Grande"



Dimensions

Simulated IFR Procedures

#### **Radio Calls**

- The procedure turn inbound call should only be made in conjunction with the initiation of the instrument approach procedure and not when making circuits in the holding pattern.
- The procedure turn inbound callout should be made when the aircraft is established on the 228° radial inbound (pointing northeast), not at the beginning of the turn inbound.



#### A Few Notes About ADS-B

- ADS-B is a wonderful tool to help in determining the position of traffic we hear on frequency.
- It's human nature to fall into the mindset that everyone we see/hear is everyone that's there. This is a dangerous assumption.
- Please keep your visual scan going and remember:
  - Pilots are not required to be talking on CTAF around the Stanfield VOR.
  - Pilots may be operating legally in this area without ADS-B Out.
  - Even when it's installed and working, ADS-B is not flawless.



### Stanfield VOR Procedures

Dimensions

Simulated IFR Procedures

Radio Calls

Dimensions

Simulated IFR Procedures

Radio Calls

- What runway in use?
  - Everyone practicing instrument approaches typically accepts up to a 10 knot tailwind component for runway 05 before using circling procedures for runway 23.
  - Runway 23 is established as the active runway as soon as the first pilot selects and uses it as the runway in use.
  - Other arriving aircraft should conform to the established runway in use whenever anyone remains in the traffic pattern.
  - Conform to right-of-way rules

Dimensions

Simulated IFR Procedures

Radio Calls

Tips

#### Simulated radar vectors

If an instructor/evaluator elects to provide simulated radar vectors to the final approach course they should give way to all other aircraft proceeding via the full published route structure.



Dimensions

Simulated IFR Procedures

Radio Calls

- Missed Approach Procedures
  - When flying the published missed approach for runway 05 it is recommended to return to the VOR above top-of-stack.
  - Be cautious for IFR aircraft under ABQ CENTER control!



Dimensions

Simulated IFR Procedures

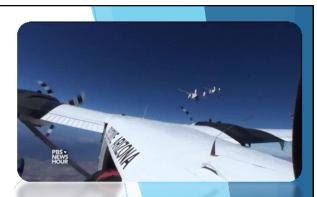
Radio Calls

Tips

Touch-and-go RWY 05 with Missed Approach Procedure

> When flying the initial takeoff or touch-and-go, make a right downwind departure towards TFD VOR. This will keep you clear of the PJE north of the airport.



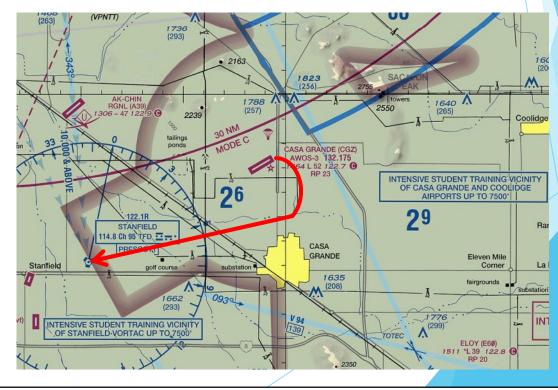


Dimensions

Simulated IFR Procedures

Radio Calls

- When flying Missed Approach Procedure
  - Avoid incoming traffic on the IFR approaches!
  - Recommend to proceeded 2 NM south of KCGZ, then turn back to the VOR



Due to risk of opposite direction approaches and frequent near mid air collisions, AFTW recommends that VFR training aircraft do not fly the GPS Rwy 23 approach into KCGZ.

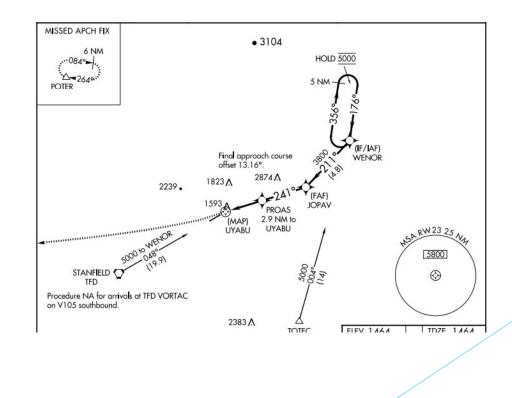
#### Stanfield VOR Procedures



Simulated IFR Procedures

Radio Calls





- Have landing light on from VOR inbound to KCGZ
- Announce intentions when approach terminates so traffic following you can properly separate.
- Speak clearly
- Perform good visual lookout
- Be courteous and kind to one another
- Stay professional
- Have fun!



Dimensions

Simulated IFR Procedures

Radio Calls

#### **Closing Thoughts**

NOTE: The AFTW is currently working on standardized procedures to better coordinate real and simulated IFR traffic at TFD and CGZ. Please submit your suggestions at: http://aftw.org/contact/

#### Please be aware that:

- This procedure is for VFR aircraft only. IFR aircraft must abide by ATC clearances and regulations.
- Aircraft operating IFR that are unfamiliar with these procedures may be instructed to enter the stack by Albuquerque Center at any altitude.
- Aircraft from out of state or users who are not familiar with these procedures will not be using them. Please be patient and kind.

## Keep you eyes out to see and avoid other traffic!

