SPECIAL USE AIRSPACE

PRESENTATION STARTS IN



MINUTES



National Airspace System and

SPECIAL USE AIRSPACE

Cherry Ridge Pilot Group Erik Petschauer





SPECIAL USE AIRSPACE





Or How to avoid this

Presented by

RICH MARTINDELL

FAASTeam Representative and the San Diego FSDO

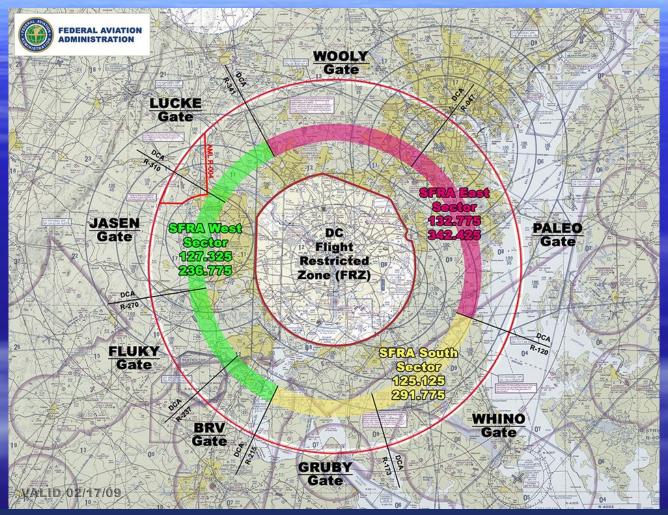


SPECIAL USE AIR SPACE

- WASHINGTON, DC SFRA
- VISUAL INTERCEPT SIGNALS
- RESTRICTED AREAS (MOAs)
- MILITARY TRAINING ROUTES
- TEMPORARY FLIGHT RESTRICTIONS
- LOCAL AREA CONSIDERATIONS
- NAVIGATION AIDS
- SUMMARY



WASHINGTON, DC SFRA





WASHINGTON FRZ





SFRA ENTRY PROCEDURES

- FILE & ACTIVATE SFRA FLIGHT PLAN
 - DIFFERENT FROM REGULAR FLIGHT PLAN
- CONTACT POTOMIC APPROACH
- GET AND SQUAWK DISCRETE CODE
 - NEVER SQUAWK 1200 IN ADIZ



SFRA FLIGHT PLANS

SPECIALIST INITIALS	STARTED	NR TIM	OT BRIEFING VI	ILY) 🗆 PIL	(FAA USE ON	NSPORTATION NISTRATION	TMENT OF TRAN	
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ALTITUDE	ACTUAL (Z)	PROPOSED (Z)		AIRSPEED	ECIAL EQUIPMENT	UN GPE	DENTIFICATION	VFR
				KTS				
15. NUMBER	//E BASE	RAFT HO	ADIZ/DUATS			ort 10. ES HOUR	ON (Name of airpo	(T)
15. NUMBER ABOARD	ME BASE	RAFT HO			JRS MINUTES	HOUR		40
	ME BASE	00000000		14.	JRS MINUTES	HOUR	N BOARD	(y)



SFRA ENTRY PROCEDURES

- AFTER CONTACT WITH CODE FLY FLIGHT PLAN ROUTE
- FOLLOW NORMAL PROCEDURES FOR CLASS B AIR SPACE
- GET HANDOFF TO TOWER/CTAF
- CONTINUE TO SQUAWK DISCRETE CODE
- LAND
- TURN TRANSPONDER OFF
- CLOSE FLIGHT PLAN



OUTBOUND SERA FLIGHT PLAN

- TYPE OF FLIGHT IFR
- DEPARTURE POINT AIRPORT
- DESTINATION FROM LIST
- ALTITUDE VFR/0##
- REMARKS ADIZ/DUATS



SFRA DEPARTURE PROCEDURES

- FILE AND ACTIVATE FLIGHT PLAN
- GET & SQUAWK DISCRETE TRANSPONDER
 CODE PRIOR TO TAKEOFF
- DO NOT SQUAWK 1200 IN ADIZ
- WHEN CLEAR OF PATTERN CONTACT POTOMIC APPROACH
- DEPART SFRA
- CLEAR WITH POTOMIC AND CHANGE TRANSPONDER



COMMON SFRA VIOLATIONS

- PILOT UNAWARE OF ADIZ BOUNDARY
- EARLY SWITCH TO VFR 1200 CODE
- PILOT UNAWARE OF SFRA
- FORGET TO ACTIVATE MODE C (ALTITUDE)



EQUIPMENT MALFUNCTIONS

- LOST COMM (RADIO OR TRANSPONDER)
 - VFR DIRECT OUT OF ADIZ
 - LAND AND CALL ATC ASAP
- EQUIPMENT FAILURE LAND OR EXIT



TOO CLOSE FOR COMFORT

- VISUAL WARNING SYSTEM
 - RED/RED/GREEN LASER LIGHT
 - AIMED AT YOUR AIRCRAFT
 - NOT HARMFUL TO EYES
 - VISABLE TO 20 MILES IN VMC
- EXECUTE THE THREE "Ts"
 - TURN AWAY FROM SFRA & LIGHTS
 - TUNE 121.5 AND SQUAWK 7700
 - TALK TO ANYONE WHO WILL LISTEN



VISUAL WARNING SYSTEM

LOOKS LIKE THIS





I'VE BEEN INTERCEPTED

- FIGHTER/HELICOPTER
- TALK TO ATC AND/OR TUNE 121.5 AND TALK
- FOLLOW INSTRUCTIONS



VISUAL SIGNALS

Intercepting Aircraft Signal	Meaning	Intercepted Aircraft Response	Meaning
Rocks wings; after acknowledgement initiates a slow level turn, typically to the left, into the desired heading	You have been intercepted	Rocks wings, follows intercepting aircraft's lead	I understand and will comply
Night operations = flashing of navigation lights		Night = flash navigation lights	
Performs an abrupt breakaway maneuver with a climbing 90 degree turn without crossing the intercepted aircraft's flight path	You may proceed	Rocks wings	I understand and will comply
Circles airport, lowers landing gear, and files over runway in the direction of landing	Land at this airport	Lowers landing gear, follows intercepting aircraft and lands if runway is safe	I understand and will comply
Night = additionally turns on landing lights		Night = turn on landing light	



VISUAL SIGNALS

Intercepted Aircraft	Meaning	Intercepting	Meaning
Signal		Aircraft Response	
Raises landing gear while flying over runway between 1000' and 2000' and continues to circle airport	This airport is inadequate	If the intercepted aircraft is required to go to an alternate airport, intercepting aircraft will raise landing gear	Understood, follow me
Night operations = intercepted aircraft will flash landing lights while passing over runway		and use intercept procedures	
		To release the intercepted aircraft, the intercepting aircraft will perform a breakaway maneuver	Understood, you may proceed
Pilot switches all available lights on and off at regular intervals	Cannot comply	Performs breakaway maneuver	Understood
Pilot switches all available lights on and off at	In distress	Performs breakaway maneuver	Understood
irregular intervals			



SPECIAL USE AIR SPACE

- PROHIBITED AREAS
- RESTRICTED AREAS
- WARNING AREAS
- ALERT AREAS
- MILITARY OPERATING AREAS (MOAs)
- MILITARY TRAINING ROUTES



PROHIBITED AREAS

- DON'T GO THERE EVER
 - THE MALL IN WASHINGTON, DC
 - CAMP DAVID
 - CRAWFORD, TEXAS
 - NATIONAL SECURITY AREAS
- DIMENSIONS LISTED ON SECTIONALS & WACs



RESTRICTED AREAS

- UNMANNED, UNGUIDED OBJECTS HURLING THROUGH SPACE
- DON'T GO THERE WITHOUT CHECKING AND GETTING A CLEARANCE
- TIMES, DIMENSIONS & CONROLLING AGENCY LISTED ON SECTIONALS & WACs



WARNING AREAS

- RESTRICTED AREA IN INTERNATIONAL AIR SPACE
- VFR FLIGHT OK ??????
- TIMES, DIMENSIONS & CONROLLING AGENCY LISTED ON SECTIONALS & WACs



ALERT AREAS

- INTENSIVE STUDENT TRAINING
- TIMES, DIMENSIONS & CONROLLING AGENCY LISTED ON SECTIONALS & WACs
- VFR OK NO CLEARANCE REQUIRED
- FLIGHT FOLLOWING EXTRA SET OF EYES



MILITARY OPERATING AREAS (MOAs)

- ADVISORY IN NATURE
- AGGRESSIVE, MANUVERING FLIGHT
- TIMES, DIMENSIONS & CONROLLING AGENCY LISTED ON SECTIONALS & WACs
- VFR FLIGHT PERMITTED AT YOUR OWN RISK
- CONTACT WITH ATC OR CONTROLLING AGENCY NOT REQUIRED
- FLIGHT FOLLOWING HIGHLY RECOMMENDED
- IFR FLIGHT ONLY IF AREA IS COLD
- NIGHT LIGHTS OUT SELECTED MOAs



MILITARY TRAINING ROUTES

- VRs VISUAL ROUTES
- IRs INSTRUMENT ROUTES
- #### < 1500 AGL (VRs)</p>
- ### > 1500 AGL (IRs & VRs)
- BIG & SMALL JETS GREATER THAN 250KTS
- PILOT MUST REQUEST INFORMATION ABOUT SPECIFIC VRs/IRs ON FLIGHT PLAN ROUTE



TEMPORARY FLIGHT RESTRICTIONS (TFRs)

- PRESIDENTIAL
- SPECIAL EVENTS
- DISASTER/HAZARD AREAS
- HOMELAND SECURITY



TER FORMAT

- 1. Location of the TFR area
- 2. Effective period
- 3. Defined area
- 4. Altitudes affected
- 5. FAA coordination facility and telephone number
- 6. Reason for the TFR
- 7. Agency directing relief activities (if applicable) and telephone number
- 8. Any other information considered appropriate.



PRESIDENTIAL TFRs

- SHORT NOTICE
- TAKE NO PRISONERS MENTALITY

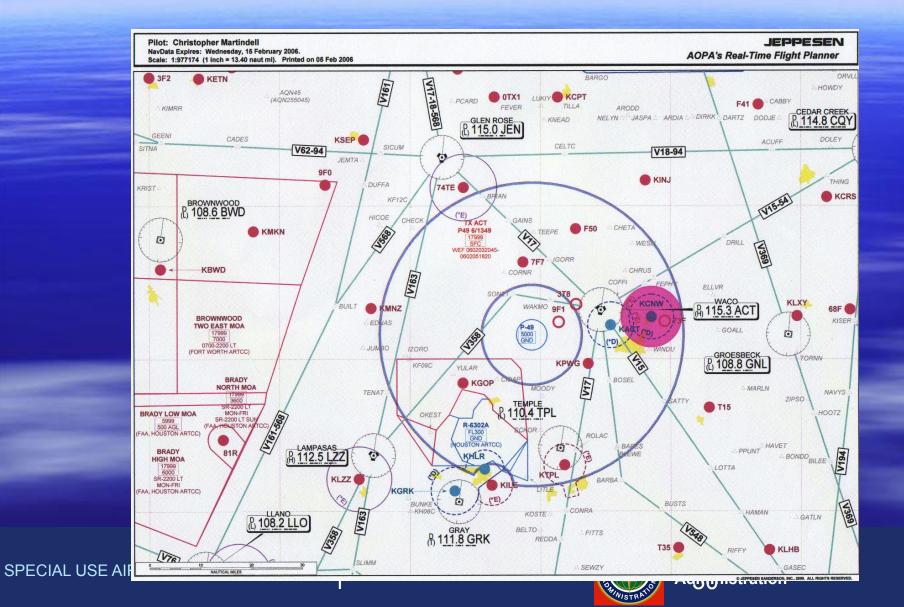


PRESIDENTIAL TERS





PRESIDENTIAL TERS



SPECIAL EVENT TFRs

- SPORTS EVENTS/STADIUMS
- AIRSHOWS
- SPACE FLIGHTS



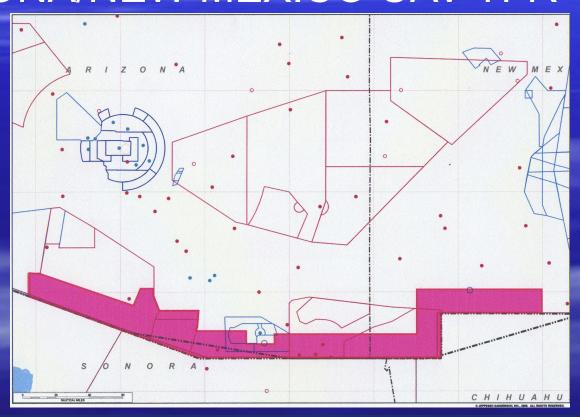
DISASTER/HAZARDS TFRs

- FOREST FIRES
- HURRICANE RELIEF
- MUDSLIDES
- EARTHQUAKE



HOMELAND SECURITY TERS

ARIZONA/NEW MEXICO UAV TFR





SPECIAL FEDERAL AVIATION REGULATIONS

- SFAR 50-2 GRAND CANYON OPERATIONS
- SFAR 60 ATC EMERGENCY OPERATION
- SFAR 94 WASHINGTON, DC SPECIAL FLIGHT RULES AREA

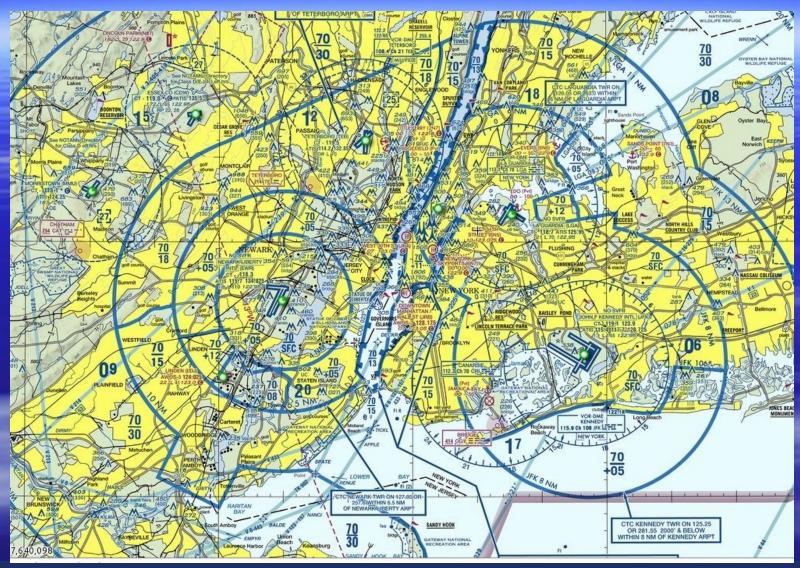


LOCAL STUFF

- CLASS B TERMINAL CONTROL AREA
- MIRAMAR FLIGHT ACTIVITY



NYC Class B





NAVIGATION AIDS

- LOCKHEED FLIGHT SERVICE STATIONS
- CHARTS MUST BE CURRENT
- CURRENT NOTAMS (UPDATE IN THE AIR ON LONG FLIGHTS)
- VOR/DME
- CURRENT GPS DATABASE
- GPS USE BIGGEST PICTURE FEASIBLE



Airspace Depiction





SUMMARY

- GOOD FLIGHT PLANNING
- CHECK PERMANENT AND TEMPORARY RESTRICTIONS
- GET HELP WITH SPECIAL PROCEDURES
- GET A BRIEFING ON TAPE FROM AN "OFFICIAL" SOURCE
- UPDATE FREQUENTLY



SUMMARY

ADDITIONAL INFORMATION & TRAINING

http://faasafety.gov/

CLICK ON "TFR TRAINING"

http://www.aopa.org/

CLICK "AIR SAFETY FOUNDATION" > "ON-LINE COURSES"



SUMMARY

- FLYING IS STILL FUN!!!!
- GOOD PRE-FLIGHT PLANNING MAKES IT LESS STRESSFUL AND KEEPS IT FUN



Flying is not inherently dangerous, but to an even greater extent than the sea, it is terribly unforgiving of any carelessness, incapacity, or neglect.

Thank you for attending.

