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| **NORMAL PROCEDURES PA 44-180 SEMINOLE G1000** | |  | **NORMAL PROCEDURES PA 44-180 SEMINOLE G1000** | |
| **PREFLIGHT CHECKLIST**  **COCKPIT**  PITOT MAST COVER REMOVE  AIRCRAFT DOCUMENTS AROW  AVIONICS MASTER SWITCH OFF  PARKING BRAKE SET  ELECTRICAL SWITCHES OFF  MAGNETO SWITCHES OFF  FUEL PUMP SWITCHES OFF  LANDING GEAR SWITCH DOWN  THROTTLES IDLE  MIXTURE CONTROLS IDLE CUT-OFF  COWL FLAPS OPEN  BATT MASTER SWITCH ON  GEAR POSITION LIGHTS 3 GREEN  FUEL QUANTITY GAUGES CHECK  PITOT HEAT SWITCH ON  INTERIOR/EXTERIOR LIGHTS ON & CHECK &OFF  PITOT/STATIC HEAD CHECK – WARM &OFF  BATT MASTER SWITCH OFF  FLIGHT CONTROLS CHECK  FLAPS EXTEND  STABILATOR & RUDDER TRIM NEUTRAL  FUEL SELECTORS ON  STATIC SYSTEM DRAIN  ALTERNATE STATIC SOURCE CLOSED  EMERGENCY EXIT CHECK  WINDOWS CHECK, CLEAN  BAGGAGE SECURE  BAGGAGE DOOR CLOSED  **RIGHT WING**  FUEL SUMP DRAINS DRAIN  SURFACE CONDITION CLEAR OF ICE, FROST & SNOW  FLAP AND HINGES CHECK  AILERON, HINGES & FREEDOM OF MOVEMENT CHECK  STATIC WICKS CHECK  WING TIP AND LIGHTS CHECK  SCUPPER DRAIN CLEAR  FUEL TANK VENT CLEAR  TIE DOWN REMOVE  NACELLE FUEL FILLER CAP CHECK & SECURE  ENGINE OIL & CAP CHECK & SECURE  PROPELLER & SPINNER CHECK  AIR INLETS CLEAR  COWL FLAP AREA CHECK  MAIN GEAR STRUT PROPER INFLATION (2.60±0.25 IN)  BRAKE, BLOCK & DISC CHECK  CHOCK REMOVE | | **NOSE SECTION**  GENERAL CONDITION CHECK  WINDSHIELD CLEAN  BATTERY VENTS CLEAR  LANDING LIGHTS CHECK  HEATER AIR INLET CLEAR  CHOCK REMOVE  NOSE GEAR STRUT PROPER INFLATION (2.70±0.25 IN)  NOSE WHEEL TIRE CHECK  **LEFT WING**  SURFACE CONDITION CLEAR OF ICE, FROST & SNOW  MAIN GEAR STRUT PROPER INFLATION (2.60±0.25 IN)  MAIN WHEEL TIRE CHECK  BRAKE, BLOCK & DISC CHECK  CHOCK REMOVE  COWL FLAP AREA CHECK  NACELLE FUEL FILLER CAP CHECK & SECURE  ENGINE OIL & CAP CHECK & SECURE  PROPELLER & SPINNER CHECK  AIR INLETS CLEAR  SCUPPER DRAIN CLEAR  FUEL TANK VENT CLEAR  TIE DOWN REMOVE  STALL WARNING VANES CHECK  PITOT/STATIC HEAD CLEAR  WING TIP LIGHTS CHECK  AILERON, HINGES & FREEDOM OF MOVEMENT CHECK  FLAP AND HINGES CHECK  STATIC WICKS CHECK  **FUSELAGE (LEFT SIDE)**  EMERGENCY EXIT CHECK  ANTENNAS CHECK  FRESH AIR INLET CLEAR  **EMPENNAGE**  SURFACE CONDITION CLEAR OF ICE, FROST & SNOW  STABILATOR, TRIM TAB & FREEDOM OF MOVEMENT CHECK  RUDDER, TRIM TAB & FREEDOM OF MOVEMENT CHECK  POSITION LIGHT CHECK  STATIC WICKS CHECK  TIE DOWN REMOVE  **FUSELAGE (RIGHT SIDE)**  BAGGAGE DOOR SECURED AND LOCKED  **WALK AROUND AIRCRAFT**  NOTE GENERAL CONDITION | |
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| **NORMAL PROCEDURES PA 44-180 SEMINOLE G1000** | |  | **NORMAL PROCEDURES PA 44-180 SEMINOLE G1000** | |
| **BEFORE ENGINE START THROUGH ENGINE SHUTDOWN – CHECKLIST WILL BE *VERBALIZED***  **BEFORE ENGINE START**  HOBBS / TAC CHECK TIME REMAINING  HOBBS TIME RECORD  PARKING BRAKE SET  PASSENGER BRIEF COMPLETE  SEATS ADJUSTED & LOCKED  SEATBELTS FASTEN AND SECURE  GEAR SELECTOR DOWN  THROTTLES IDLE  PROPELLER CONTROLS FULL FWD  MIXTURES IDLE  ALT-AIR CLOSE  COWL FLAPS OPEN  FUEL SELECTORS ON  LEFT/RIGHT ALTR SWITCHES ON (OFF, if external power connected)  EMERG BATT ARM  E VOLTS INDICATION # 23.3 VOLTS (MINIMUM)  AVION MASTER SWITCHES OFF  STROBE LIGTHS ON  ALL OTHER ELECTRICAL SWITCHES OFF  CABIN HEAT SWITCH OFF  CIRCUIT BREAKERS IN  #IF E VOLTS indication less than 23.3 Volts  You are allowed to start the engines HOWEVER,  You have to complete checklist at the end of engine run-up check list  **ENGINE START – COLD**  BATT MASTER ON  GEAR LIGHTS 3 GREEN  CAS MESSAGES CONSIDER ANY ILLUMINATED  PFD ANNUNCIATIONS CONSIDER ANY ILLUMINATED  THROTTLES OPEN ¼ INCH  PROPELLER CONTROLS FULL FWD  \*FUEL PUMP ON  \*MAG LEFT/RIGHT SWITCHES ON  \*MIXTURE PRIME – then CUT-OFF  \*PROPELLER AREA CLEAR  \*STARTER ENGAGE  \*MIXTURE ADVANCE  \*THROTTLE 1000 RPM  \*OIL PRESSURE CHECK  **REPEAT START (\*) FOR SECOND ENGINE**  VOLTS CHECK  ALTR AMPS CHECK  FUEL PUMPS OFF | | **BEFORE ENGINE START THROUGH ENGINE SHUTDOWN – CHECKLIST WILL BE *VERBALIZED***  **ENGINE START – HOT**  BATT MASTER ON  GEAR LIGHTS 3 GREEN  CAS MESSAGES CONSIDER ANY ILLUMINATED  PFD ANNUNCIATIONS CONSIDER ANY ILLUMINATED  THROTTLES OPEN 1/2 INCH  PROPELLER CONTROLS FULL FWD  \* MIXTURE CUT-OFF  \*FUEL PUMP ON  \*MAG LEFT/RIGHT SWITCHES ON  \*PROPELLER AREA CLEAR  \*STARTER ENGAGE  \*MIXTURE ADVANCE  \*THROTTLE 1000 RPM  \*OIL PRESSURE CHECK  **REPEAT START (\*) FOR SECOND ENGINE**  VOLTS CHECK  ALTR AMPS CHECK  FUEL PUMPS OFF  **ENGINE START – COLD WEATHER (BELOW 10°F)**  SEE POH page 4-10b  **ENGINE START – FLOODED**  SEE POH page 4-11  **ENGINE START – EXTERNAL POWER SOURCE**  SEE POH page 4-12  **PRE-TAXI**  AVION MASTER SWITCH ON  MFD SPLASH SCREEN VERIFY DATABASE  FUEL TOTALIZER FOB SYNC or MANUALLY  CAS MESSAGES CONSIDER ANY ILLUMINATED  PFD ANNUNCIATIONS CONSIDER ANY ILLUMINATED  SYSTEM MESSAGES CONSIDER  AUTOPILOT VERIFY PREFLIGTH SELF TEST (PFT)  ANN TEST SOFTKEY (Aux-System) PRESS  STANDY FLIGHT INSTRUMENT Verify, No red X’s  AWOS/ATIS CHECK  ALTIMETER SET  TRANSPONDER LOCAL CODE & ALT  FUEL SELECTORS CROSSFEED  BRAKES TEST | |
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| **NORMAL PROCEDURES PA 44-180 SEMINOLE G1000** | |  | **NORMAL PROCEDURES PA 44-180 SEMINOLE G1000** | |
| **BEFORE ENGINE START THROUGH ENGINE SHUTDOWN – CHECKLIST WILL BE *VERBALIZED***  **ENGINE RUN-UP**  PARKING BRAKE SET  FUEL SELECTORS ON  FLIGHT CONTROLS FREE & CORRECT  ELECTRIC TRIM TEST & SET  AUTOPILOT TEST  MIXTURE RICH  PROPELLER CONTROLS FULL FWD  ENGINE INSTRUMENTS CHECK  THROTTLES 1500 RPM  PROPELLERS FEATHER CHECK  \*MAX DROP 500 RPM  THROTTLES 2000 RPM  MAGNETOS CHECK  MAX DROP 175 RPM/MAX DIFF 50 RPM  ALT-AIR CHECK  THROTTLES 2200RPM  PROPELLERS EXERCISE  \*MAX DROP 300 RPM  GOVERNER CHECK CHECK  THROTTLES (500-600 RPM) IDLE CHECK  FUEL PUMPS ON  THROTTLES 1000 RPM  FLIGHT INSTRUMENTS CHECK & SET  ENGINE INSTRUMENTS CHECK  CABIN DOOR LATCHED  \*IF E VOLTS indication less than 23.3 VOLTS  during BEFORE STARTING ENGINE checklist  EMERG BATT SWITCH VERIFY ARM  AVIATION MATER SWITCH OFF  ALTER LEFT/RIGHT SWITCHES OFF BATT MASTER SWITCH OFF E VOLTS INDICAITON 23.3 VOLTS MINIMUM  \*IF E VOLTS less than 23.3 VOLTS,  determine cause and correct issue prior to flight  IF E VOLTS greater than or equal to 23.3 VOLTS:  BATT MASTER SWITCH ON  ALTER LEFT/RIGHT SWITCHES ON  AVIATION MATER SWITCH ON | |  | |
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| **NORMAL PROCEDURES PA 44-180 SEMINOLE G1000** | |  | **NORMAL PROCEDURES PA 44-180 SEMINOLE G1000** | |
| **BEFORE ENGINE START THROUGH ENGINE SHUTDOWN – CHECKLIST WILL BE *VERBALIZED***  **BEFORE TAKE-OFF**  TYPE OF TAKEOFF DETERMINE  FLAPS RETRACTED  AIRSPEEDS: ROTATION, CLIMB OUT,  AND BEST GLIDE CALCULATE (GUST SPREAD)  PRE-TAKEOFF BRIEFING COMPLETE  PROPELLERS FULL FWD  MIXTURES FULL RICH  ALT-AIR CLOSE  COWL FLAPS OPEN  STABILATOR & RUDDER TRIM SET  FUEL SELECTOR ON  CAS MESSAGES CONSIDER ANY ILLUMINATED  PFD ANNUNCIATIONS CONSIDER ANY ILLUMINATED  SYSTEM MESSAGES CONSIDER  FUEL PUMPS ON  ANTI-COLLISION LIGHTS ON  LANDING/REC LIGHTS ON  TRANSPONDER LOCAL CODE & ALT  CABIN DOOR LATCHED  TAKE-OFF TIME RECORD  **\*\* RESET HEADING INDICATOR AFTER TAXIING ONTO RUNWAY\*\***  V SPEEDS Vr – 75 Vx – 82 Vy – 88 Vyse – 88 | | THIS PAGE INTENTIONALLY LEFT BLANK  Text  Description automatically generated” | |
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| **NORMAL PROCEDURES PA 44-180 SEMINOLE G1000** | |  | **NORMAL PROCEDURES PA 44-180 SEMINOLE G1000** | |
| **BEFORE ENGINE START THROUGH ENGINE SHUTDOWN – CHECKLIST WILL BE *VERBALIZED***  **CLIMB (BETWEEN 500 AND 1500 AGL)**  POWER/PROP SET  GEAR UP  TRIM SET  COWL FLAPS OPEN  FUEL PUMPS ON  LANDING/REC LIGHTS OFF  **CRUISE (AT TOP OF CLIMB FOR X/C AND LCL FLIGHTS)**  POWER/PROP 21” MAN. PRESS./ 2400 RPM  FUEL PUMP OFF  TRIM SET  COWL FLAPS CLOSED  HEADING INDICATOR CHECK  MIXTURE AS REQUIRED  FULE FLOW GAUGE MONITOR  EGT MONITOR  **IN-RANGE (X/C – BEFORE TOP OF DESCENT; LCL – BEFORE TURNING TO OUN)**  AWOS/ATIS CHECK  ALTIMETER SET  COWL FLAPS CLOSED  MIXTURE RICH  FUEL PUMPS ON  FUEL SELECTORS ON  LANDING/REC LIGHTS ON  SEATBELTS FASTEN AND SECURE  **BEFORE LANDING (BEFORE PATTERN ENTRY AND BEFORE MIDFIELD DOWNWIND EACH SUBSEQUENT APPROACH)**  APPROACH SPEED ON FINAL CALCULATE  FLAP SETTING ON FINAL DETERMINE  LANDING GEAR DOWN/LOCKED **(TOUCH 3 GREEN)**  NACELLE MIRROR VERIFY  ***MEMORY***  ***PROPELLER (PRIOR TO BASE OR FAF) FULL INCREASE***  ***LANDING GEAR ON FINAL DOWN/LOCKED (TOUCH 3 GREEN)*** | | THIS PAGE INTENTIONALLY LEFT BLANK  Text  Description automatically generated | |
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| **NORMAL PROCEDURES PA 44-180 SEMINOLE G1000** | |  | **NORMAL PROCEDURES PA 44-180 SEMINOLE G1000** | |
| **BEFORE ENGINE START THROUGH ENGINE SHUTDOWN – CHECKLIST WILL BE *VERBALIZED***  **AFTER LANDING**  FLAPS UP  FUEL PUMPS OFF  ALT-AIR CLOSE  COWL FLAPS OPEN  LANDING/REC LIGHTS AS REQUIRED  TRANSPONDER LOCAL CODE & ALT  HEATER – FOR TURNOFF FOLLOW PROC  PITOT HEAT OFF  **Diagram  Description automatically generated** | | **BEFORE ENGINE START THROUGH ENGINE SHUTDOWN – CHECKLIST WILL BE *VERBALIZED***  **ENGINE SHUTDOWN**  HEATER (IF ON) FAN 2 MIN THEN OFF  VENT FAN OFF  THROTTLES IDLE  AVIONICS MASTER OFF  EMERG BATT OFF  ALTERNATORS OFF  LEFT/RIGHT FUEL PUMP OFF  All Other ELECTRICAL EQUIPTMENT OFF  MIXTURES OFF  MAGNETOS OFF  INTERIOR/EXTERIOR LIGHTS OFF  BATT MASTER OFF  STANDBY INSTRUMENT VERIFY SHUTDOWN  VENT WINDOW CLOSED  PARKING BRAKE RELEASED  HOBBS TIME RECORD  **POST-FLIGHT**   * PUT SUN VISOR IN WINDOW (IN SUMMER) * CLOSE VENT IN WINDOW * GATHER PERSONAL BELONGINGS – No Trash left * PLACE YELLOW PLACARD -- IF MX REQUIRED * SECURE COCKPIT DOOR * LOOK IN ENGINE COMPARTMENT FOR ANY LEAKS * WALK AROUND AIRCRAFT – LOOK AT CONDITION STRAP DOWN (3 STRAP POINTS) OR CHOCK (IF NO STRAP AREA AVAILABLE CROSS-COUNTRY)   **IF NECESSARY**   * CLOSE FLIGHT PLAN * TURN IN KEY TO DISPATCH OR NIGHT DROP BOX * FILL OUT ANY SAFETY REPORTS ONLINE * ENTER SQUAWKS ON FSP FOR ANY MAINTENANCE DISCREPANCY * FILL OUT SYLLABUS TICKET WITH APPLICABLE INFO/HOBBS, LOCAL TIME, ETC. * TURN IN FUEL CARD (IF USED) – IF AFTER HOURS DROP FUEL CARD IN ‘NIGHT DROP BOX” * FILL OUT YOUR “PERSONAL LOGBOOK WITH FLIGHT TIME/DETAILS” | |
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| **EMERGENCY PROCEDURES PA 44-180 SEMINOLE G1000** | |  | **EMERGENCY PROCEDURES PA 44-180 SEMINOLE G1000** | |
| **ENGINE FAILURE DURING CRUISE with clean configuration**  CONTROL Vyse – 88 kts  CRAM MIXTURE, PROP, THROTTLE – FWD  CLEAN GEAR & FLAPS – UP  IDENTIFY LEFT OR RIGHT ENGINE  VERIFY LEFT OR RIGHT ENGINE  TROUBLESHOOT IF SAFE AND TIME PERMITS  FEATHER DEAD ENGINE  SECURE DEAD ENGINE  **ENGINE TROUBLESHOOT**  MIXTURE FULL RICH  FUEL PUMP ON  FUEL SELECTOR CROSSFEED  MAGNETOS LEFT/RIGHT SWITCHES CHECK  ALT-AIR OPEN  THROTTLE ½ TRAVEL  \*IF ENGINE DOES NOT RESTART CONTINUE TO ENGINE SECURE CHECK  **ENGINE SECURE**  THROTTLE (INOP. ENGINE) CLOSE  PROPELLER FEATHER (950RPM Min.)  MIXTURE (INOP. ENGINE) IDLE/CUT OFF  COWL FLAPS (INOP. ENGINE) CLOSE  MAGNETOS LEFT/RIGHT (INOP. ENGINE) OFF  FUEL PUMPS (INOP. ENGINE) OFF  ALTERNATOR (INOP. ENGINE) OFF  FUEL SELECTOR (INOP. ENGINE) OFF  ALT-AIR (INOP. ENGINE) CLOSE  ELECTIRCAL LOAD REDUCED  POWER (OPERATING ENGINE) AS REQUIRED  FUEL SELECTOR (OPERATING ENGINE) ON or XFEED  FUEL PUMP (OPERATING ENGINE) AS REQUIRED  COWL FLAP (OPERATING ENGINE) AS REQUIRED  ESTABLISH BANK 2̊ TO 3̊ INTO OPERATING ENGINE  AIRSPEED ATTAIN AND MAINTAIN AT LEAST 88KIAS  RUDDER TRIM TOWARD OPERATING ENGINE  TO ABOUT ½ TRAPEZOID ON THE SLIP INDICATOR  **ENGINE RESTART**  FUEL SELECTOR (INOP. ENGINE) ON  MAGNETOS LEFT/RIGHT (INOP. ENGINE) ON  FUEL PUMP (INOP. ENGINE) ON  THROTTLE (INOP. ENGINE) OPEN ¼ INCH  PROP (INOP. ENGINE) FULL INCREASE  MIXTURE (INOP. ENGINE) FULL RICH  ENG START (INOP. ENGINE) ENGAGE UNTIL PORP WINDMILLS  THROTTLE 12” MAN. PRESS. Until CHT in GRENN  ALTERNATOR ON (after restart)  FUEL PUMP AS REQUIRED  COWL FLAP CLOSED  \*IF RESTART IS NOT SUCCESSFUL  MIXTURE (INOP. ENGINE) CUT-OFF  FOLLOW ENGINE SECURE CHECKLIST | | **ONE ENGINE INOPERATIVE LANDING**  INOPERATIVE ENGINE ENGINE SECURING PROCEDURE  COMPLETE  SEAT BELT/ HARNESS SECURE  FUEL SELECTOR (OPERATING ENGINE) ON  MIXTURE (OPERATING ENGINE) FULL RICH  PROPELLER (OPERATING ENGINE) FULL INCREASE  FUEL PUMP (OPERATING ENGINE) ON  COWL FLAP (OPERATING ENGINE) AS REQUIRED  ALTITUDE & AIRSPEED MAKE NORMAL APPROACH  \*WHEN LANDING IS ASSURED  GEAR DOWN  FLAPS 25̊ (2ND NOTCH)  FINAL APPROACH SPEED 90KIAS  POWER RETARD SLOWLY AND FLARE AIRPLANE  TRIM AS POWER IS REDUCED  (AIRPLANES WILL YAW IN DIRECTION OF OPERATING ENGINE)  **ENGINE ROUGHNESS**  ALT-AIR OPEN  **IF ROUGHNESS CONTINUES AFTER ONE MINUTE:**  ALT-AIR CLOSE  MIXTURE ADJUST FOR MAX SMOOTHNESS  FUEL PUMP ON  ENGINE GAUGES CHECK  MAGNETO SWITCHES CHECK  **IF OPERATION IS SATISFACTORY ON EITHER MAGNETO, CONTINUE ON THAT MAGNETO AT REDUCED POWER AND FULL RICH MIXTURE TO FIRST AIRPORT.**  **ENGINE OVERHEAT**  COWL FLAPS OPEN  MIXTURE ENRICH  POWER REDUCE  AIRSPEED INCREASE (IF ALTITUDE PERMITS)  **LOSS OF OIL PRESSURE**  OIL PRESSURE GAUGE VERIFY LOSS & ENGINE AFFECTED  THROTTLE (AFFECTED ENGINE) MINIMUM REQUIRED  PROPELLER (AFFECTED ENGINE) DECREASE  AFFECTED ENGINE ENGINE SECURING PROCEDURE | |
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| **EMERGENCY PROCEDURES PA 44-180 SEMINOLE G1000** | |  |  | |
| **MANUAL EXTENSION OF LANDING GEAR**  **CHECK FOLLOWING BEFORE EXTENDING GEAR MANUALLY:**  CIRCUIT BREAKERS CHECK  BATT MASTER SWITCH ON  ALTERNATORS CHECK  **TO EXTEND, PROCEED AS FOLLOWS**  AIRSPEED REDUCE (100 KIAS MAX)  GEAR SELECTOR DOWN  EMERG GEAR EXTEND KNOB MOVE WIRE GUARD AND PULL  INDICATOR LIGHTS 3 GREEN  ***LEAVE EMERGENCY GEAR EXTENSION KNOB OUT***  **TO CLOSE DOOR IN FLIGHT**  AIRSPEED SLOW TO 82 KIAS  CABIN VENTS CLOSE  STORM WINDOW OPEN  IF TOP LATCH IS OPEN LATCH  IF SIDE LATCH IS OPEN PULL ON ARMREST WHILE MOVING  LATCH HANDLE TO LATCHED POSITION  IF BOTH LATCHES ARE OPEN LATCH SIDE LATCH  THEN LATCH TOP LATCH  **PROPELLER OVERSPEED**  THROTTLE (AFFECTED ENGINE) RETARD  PROP CONTROL (AFFECTED ENGINE)  DESCREASE (DO NOT FEATHER)  OIL PRESSURE (AFFECTED ENGINE) CHECK  AIRSPEED REDUCE  THROTTLE (AFFECTED ENGINE) AS REQUIRED  TO REMAIN BELOW 2700 RPM  **Engine Fire During Start**  MIXTURE CUT-OFF  THROTTLE FULL OPEN  ENG START CONTINUE to CRANK ENGINE  FUEL SELECTORS OFF  FUEL PUMP OFF  MIXTURES CUT-OFF FIRE EXTINGUISHER USE AIRPLANE EVACUATE | |  | |
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| **COMMON FREQUENCIES** | |  |  | |
| **Max Westheimer (KOUN)**  AWOS 119.55  Ground 121.60  Tower 118.00  LOC IPHY 111.10  OU Traffic 123.30  Cruise Aviation 122.95  **David Jay Perry (1K4)**  CTAF 122.7  **Chickasha (CHK)**  AWOS 118.175  CTAF 123.00  **Shawnee (SNL)**  AWOS 118.275  CTAF 122.70  **Will Rogers (KOKC)**  ATIS 125.85  Clearance Delivery 124.35  Ground 121.90  Tower 119.35  IRW 114.10 | **Okla. City Approach Control**  NW 124.60  NE 124.20  SW 124.60  SE 120.45  S 133.60  **Transponder Codes**  7500 Hijack  7600 Lost Comm.  7700 Emergency  **Contact Numbers**  Aviation Department  405-325-7231  Mobile Phone  405-919-6319  OU Police Department  405-325-1717 |  | |
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