

ASPEN AIRPORT FAMILIARIZATION TRAINING & AREA BRIEFING

PRESENTED BY JASON HERMAN, CAM

Rev 4.0

FOR TRAINING AND REFERENCE ONLY

12/10/20

Photo courtesy Aspen/Pitkin County Airport





THIS PRESENTATION DISCUSSES:

- UNIQUE ASPEN AIRPORT OPERATING CHARACTERISTICS
- ROARING FORK VALLEY TERRAIN FAMILIARIZATION
- PROMINENT LANDMARKS IN/AROUND THE ASPEN AREA
- PUBLISHED INSTRUMENT AND VISUAL APPROACH PROCEDURES AT ASPEN
- DEPARTURE PROCEDURES AT ASPEN
- RUNWAY SAFETY INFORMATION
- ASE ATC OPERATING PROCEDURES
- TRAFFIC MANAGEMENT INITIATIVES
- COMMON HOLDING FIXES AND PUBLISHED HOLDS
- NEARBY DIVERSION/ALTERNATE AIRPORTS
- OPERATIONAL TECHNIQUES & CONSIDERATIONS AT ASPEN AIRPORT

UNIQUE AIRPORT OPERATING CHARACTERISTICS

- ASPEN PITKIN COUNTY AIRPORT IS LOCATED IN THE ROARING FORK VALLEY WITH RAPIDLY RISING TERRAIN TO THE NORTHEAST THROUGH WEST (CLOCKWISE)
- AIRCRAFT TYPICALLY OPERATE ONE-WAY IN (RUNWAY 15) AND ONE-WAY OUT (RUNWAY 33)
 - CAN BE VERY CHALLENGING WITH RAPIDLY SHIFTING OR GUSTY WINDS (TAILWINDS CAN AND DO OCCUR OFTEN)
- AIRPORT ELEVATION: **7838'** (MEASURED AT HIGHEST POINT, APPROACH END OF RUNWAY 33)
- RUNWAY **15** IS **UP** SLOPED 1.97% (PRIMARILY USED FOR LANDING)
 - RUNWAY 15 THRESHOLD IS **158'** LOWER THAN RUNWAY 33
- RUNWAY **33** IS **DOWN** SLOPED 1.97% (PRIMARILY USED FOR TAKEOFF)
- PARALLEL TAXIWAY ALPHA IS ALSO SLOPED SIMILAR TO RUNWAY 15/33 AND TYPICALLY REQUIRES ADDITIONAL THRUST ABOVE IDLE TO TAXI SOUTHBOUND TOWARD RUNWAY 33 (UPHILL)
- NO STRAIGHT IN PUBLIC PUBLISHED INSTRUMENT APPROACH PROCEDURES (CIRCLE-TO-LAND ONLY MINIMA)
- LOC/DME-E APPROACH REQUIRES A 6.59° VERTICAL PATH FROM FINAL APPROACH FIX (FAF) TO RUNWAY 15
- TAILWIND CONDITIONS OFTEN EXIST, CAREFULLY EVALUATE REPORTED AVERAGE & INSTANTANEOUS WINDS
- DURING STRONG WESTERLY WIND CONDITIONS (25+ KNOTS), WINDSHEAR IS LIKELY ABEAM BRUSH CREEK ROAD, ADJACENT TO THE INTERCEPT LOT. EXPECT POSSIBILITY OF AN EGPWS WINDSHEAR ALERT, IF EQUIPPED.

UNIQUE AIRPORT OPERATING CHARACTERISTICS

- TAKEOFF ON RUNWAY 15 IS A UNIQUE PROCEDURE AND REQUIRES WRITTEN **PPR** FROM AIRPORT MANAGER. CLIMB GRADIENT REQUIRED IS IN EXCESS OF 11.3% (688'/NM) STRAIGHT OUT. CONSIDER USE OF A MODIFIED BALKED LANDING PROCEDURE AND ADDITIONAL TRAINING/FAMILIARIZATION PRIOR TAKING OFF RUNWAY 15.
- ALL PUBLIC INSTRUMENT PROCEDURES ARE **NOT AUTHORIZED** AT **NIGHT** (PAST EVENING CIVIL TWILIGHT)
- ALL PUBLISHED INSTRUMENT APPROACHES (PUBLIC & SPECIAL) ARE AUTHORIZED FOR CATEGORY A, B, AND C AIRCRAFT ONLY. **CATEGORY D AIRCRAFT PROHIBITED FROM PUBLISHED APPROACHES** (VREF >140 KTS)
- ASE AIRPORT IS **CLOSED** FROM 2300 – 0700 LOCAL TIME (ATCT CLOSURES AT 2000)
 - NO DEPARTURES PERMITTED AFTER 2230 LOCAL
 - **CRITICALLY IMPORTANT** TO SELF ANNOUNCE ON CTAF AFTER TOWER CLOSURES WHEN 20 NM, 15 NM, 10 NM, AND 5 NM OUT AS WELL AS SHORT FINAL DUE TO ACTIVE SNOW REMOVAL BY THE AIRPORT ON THE RUNWAY AND ADJACENT SURFACES
- AIRPORT IS LIMITED TO AIRCRAFT WITH A WINGSPAN OF 95' OR LESS
 - TAXIWAY ALPHA CENTERLINE AND RUNWAY 15/33 CENTERLINE ARE ONLY 320' APART
- RUNWAY 15 PAPI ANGLE IS **3.50°** (372'/NM, TCH 55')
 - UNUSABLE BEYOND 4NM FROM RUNWAY AND BEYOND 7° RIGHT OF CENTERLINE DUE TO TERRAIN
- RUNWAY 15 LANDING DISTANCE AVAILABLE (LDA) IS ONLY **7006'** FOR LANDING DISTANCE COMPUTATIONS DUE TO FAA RUNWAY SAFETY AREA REQUIREMENTS AT THE DEPARTURE END OF RUNWAY 15 (1000' RSA)
- LINDZ9 SID REQUIRES AN **IMMEDIATE** RIGHT TURN TO 343° AS SOON AS PRACTICAL AFTER TAKEOFF FOR TRAFFIC AND TERRAIN SEPARATION



Sardy Field

Aspen/Pitkin County Airport

0233 EAST AIRPORT ROAD
ASPEN, COLORADO 81611

PHONE 970-925-7600
FAX 970-925-1892

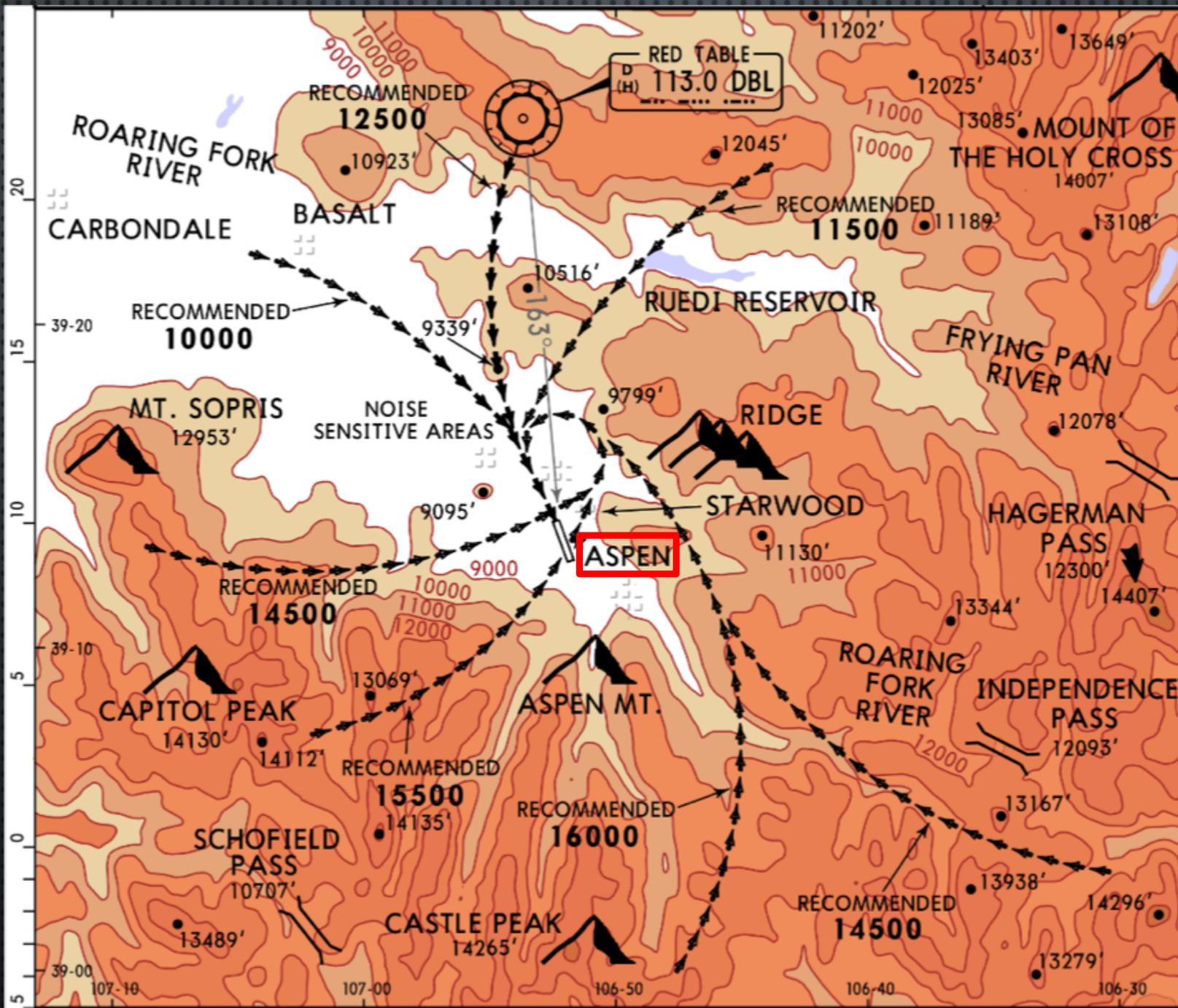
CRITERIA FOR AIRPORT DIRECTOR PRIOR PERMISSION FOR TAKE-OFF RUNWAY 15

Takeoff on Runway 15 Requires PIC Signature and PPR from Airport Manager

1. The preferred runway for departures from ASE is Runway 33. Departures using Runway 15 are not preferred principally because of rising terrain southeast of the Airport. The selection and use of a runway for departure is the responsibility of FAA Air Traffic Control and the Pilot-in-command. Pitkin County Code requires prior permission from the Director of Aviation for all departures from Runway 15.
2. By this writing, Pitkin County waives the below signed party's liability for any and all claims, damages, losses, and expenses, due to the surrounding terrain, which risk may be expected. Pitkin County is not aware of any condition at ASE under the control of the undersigned that would contribute to the inherent risk presented by departures from Runway 15.
3. The signature below, the undersigned requests prior permission to use Runway 15. In consideration for such prior permission, the undersigned, their heirs, assigns, dependents, successors, assigns and any other person or entity, hereby acknowledges that the undersigned is fully advised of the risks and liabilities associated with the use of Runway 15.

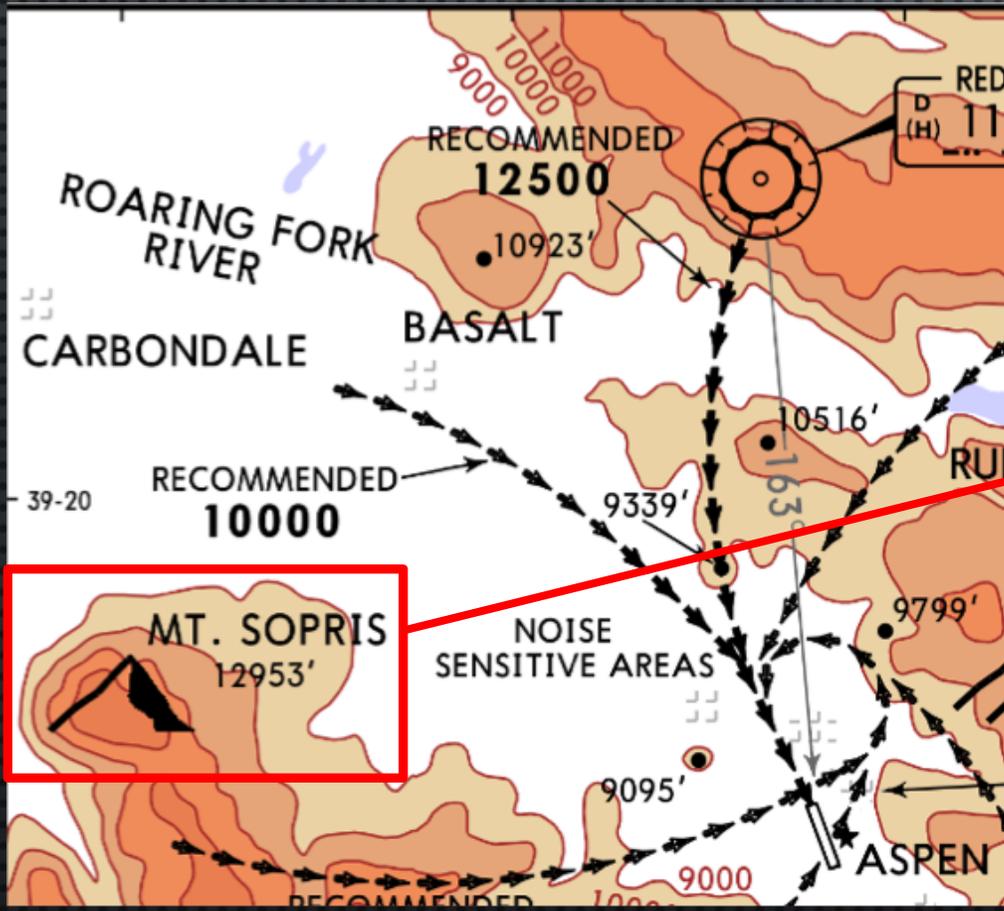
APPROVED AIRCRAFT MAKE/MODEL	_____		
APPROVED AIRCRAFT N-NUMBER:	_____		
PILOT-IN-COMMAND:			
Name	_____		
Address	_____		
City	State	Zip	
_____	_____	_____	
Pilot-In-Command Signature	Date	Director of Aviation/Representative	Date

ROARING FORK VALLEY TERRAIN



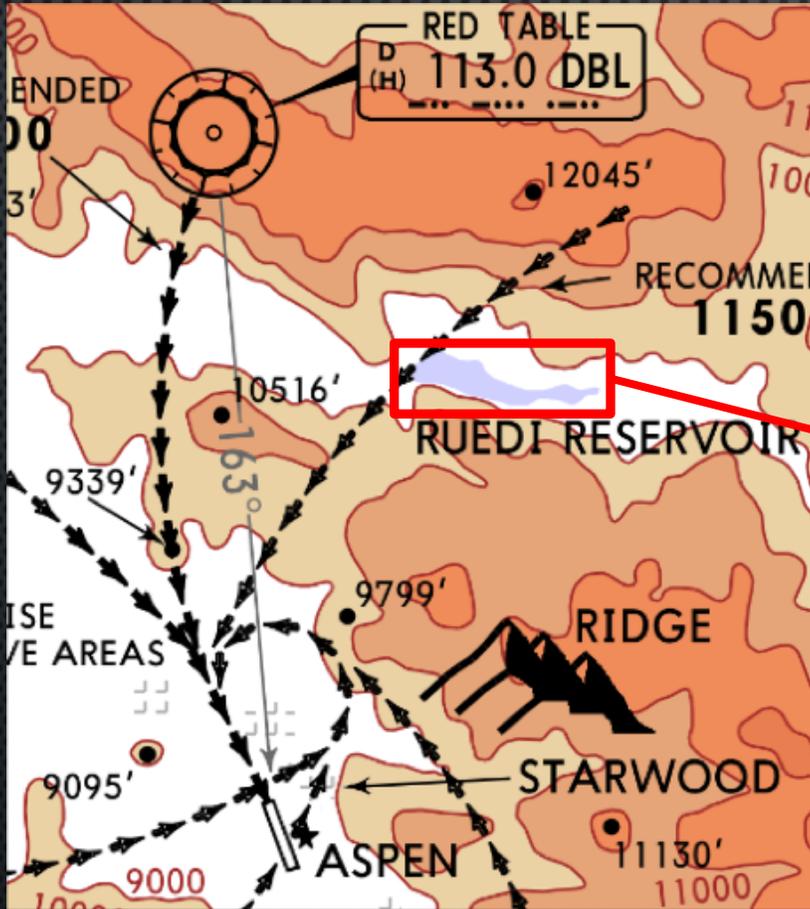
PROMINENT LANDMARKS

MT. SOPRIS (12,953')



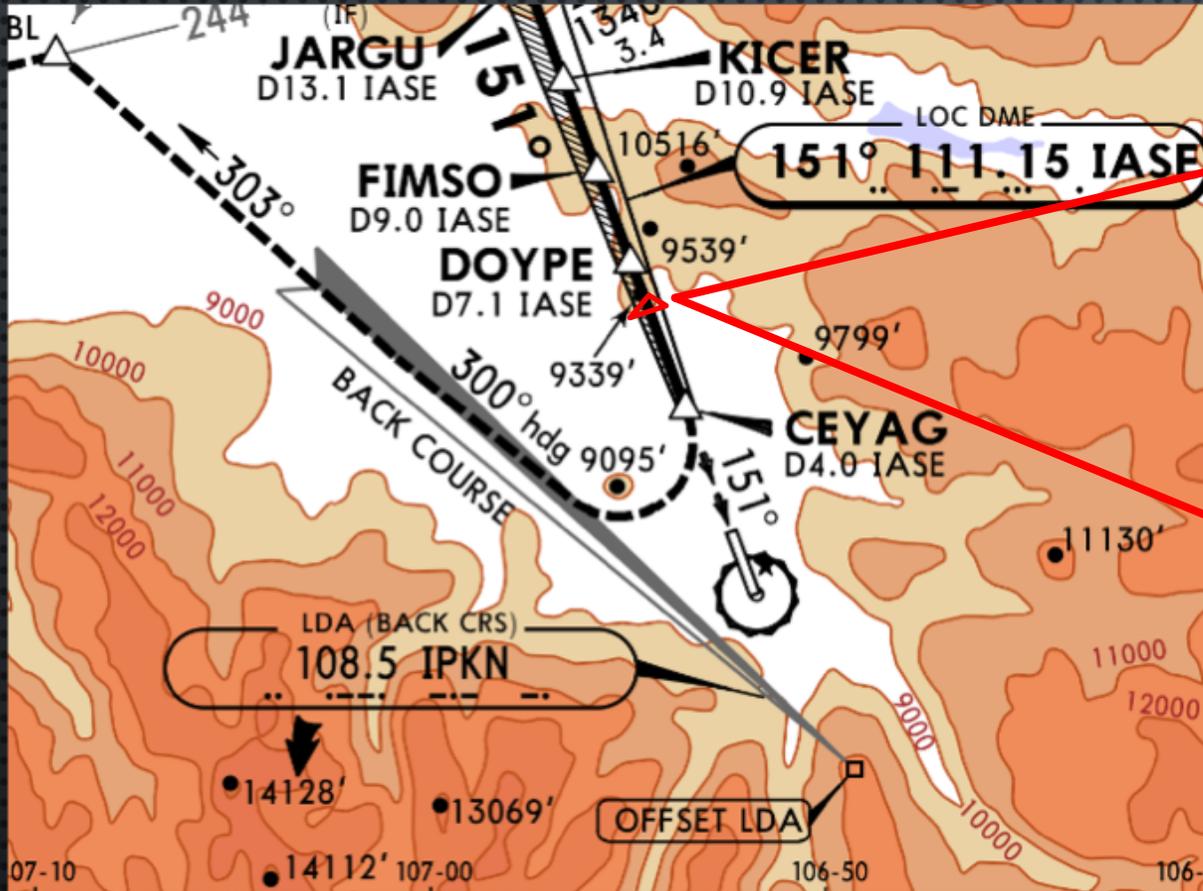
Mt. Sopris, approaching from the west

RUEDI RESERVOIR (7,800')



View of Ruedi Reservoir from the West, looking East

TRIANGLE MOUNTAIN/PEAK (9,239')



'500 Smart Call' from EGPWS/TAWS may be heard twice on final if overflying Triangle Mountain at approximately 9800' MSL

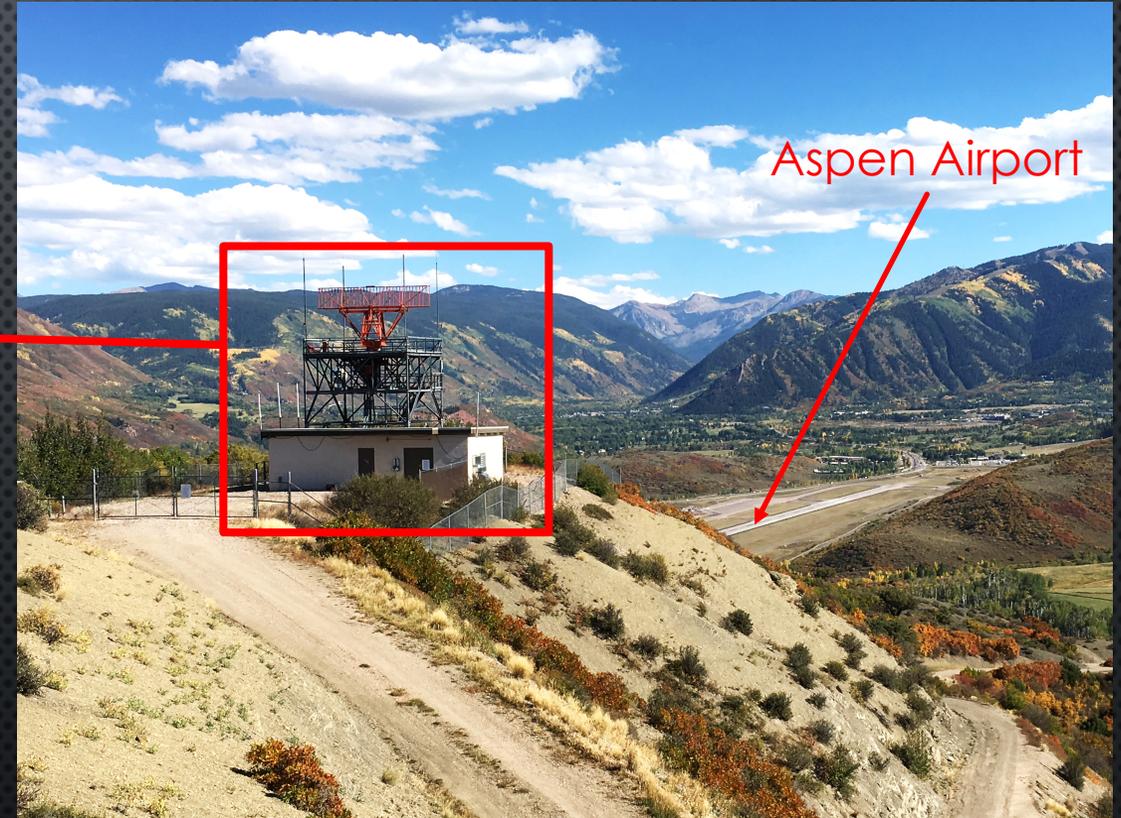
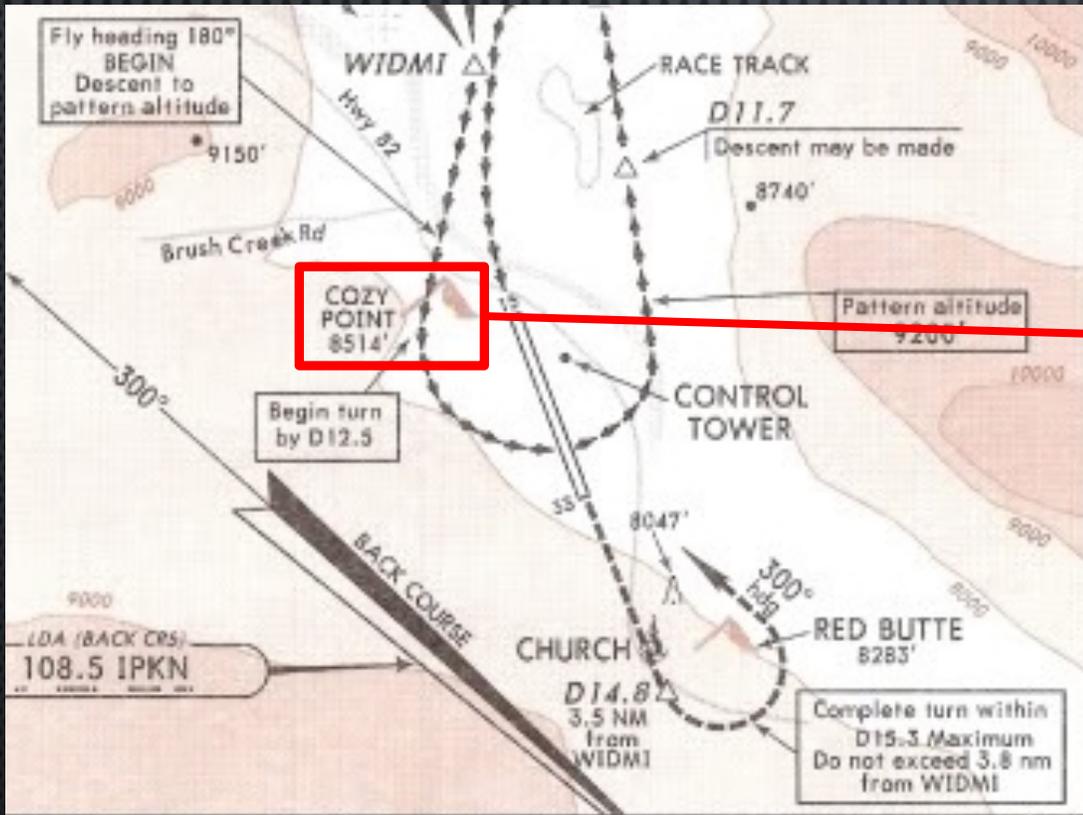


View from Atlantic ramp, looking northwest



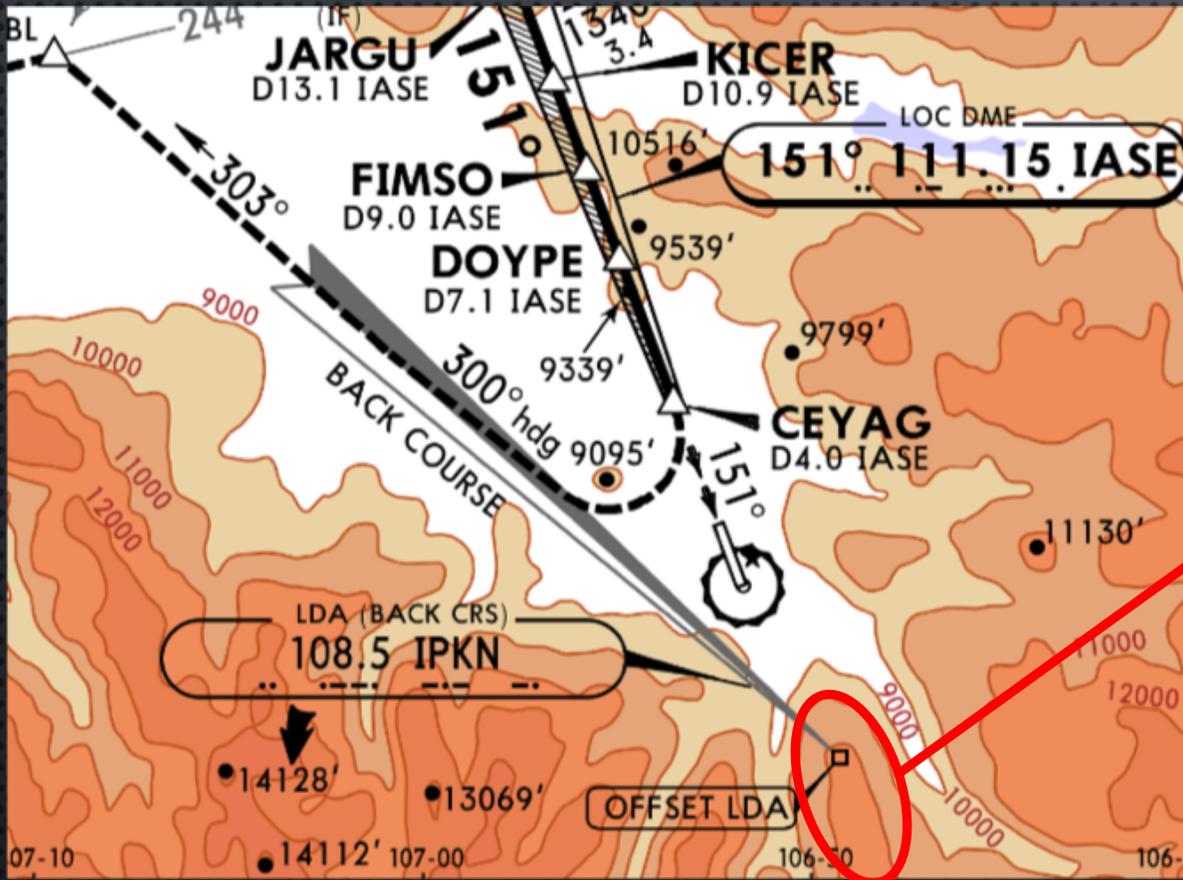
View on 6 NM final to Runway 15

COZY POINT (8,514')



Aspen ASR-4 Radar Site (Cozy Point), looking southeast at Aspen Airport
(Secondary Surveillance Radar only, Primary Radar not available)

ASPEN MOUNTAIN (PEAK 11,212')



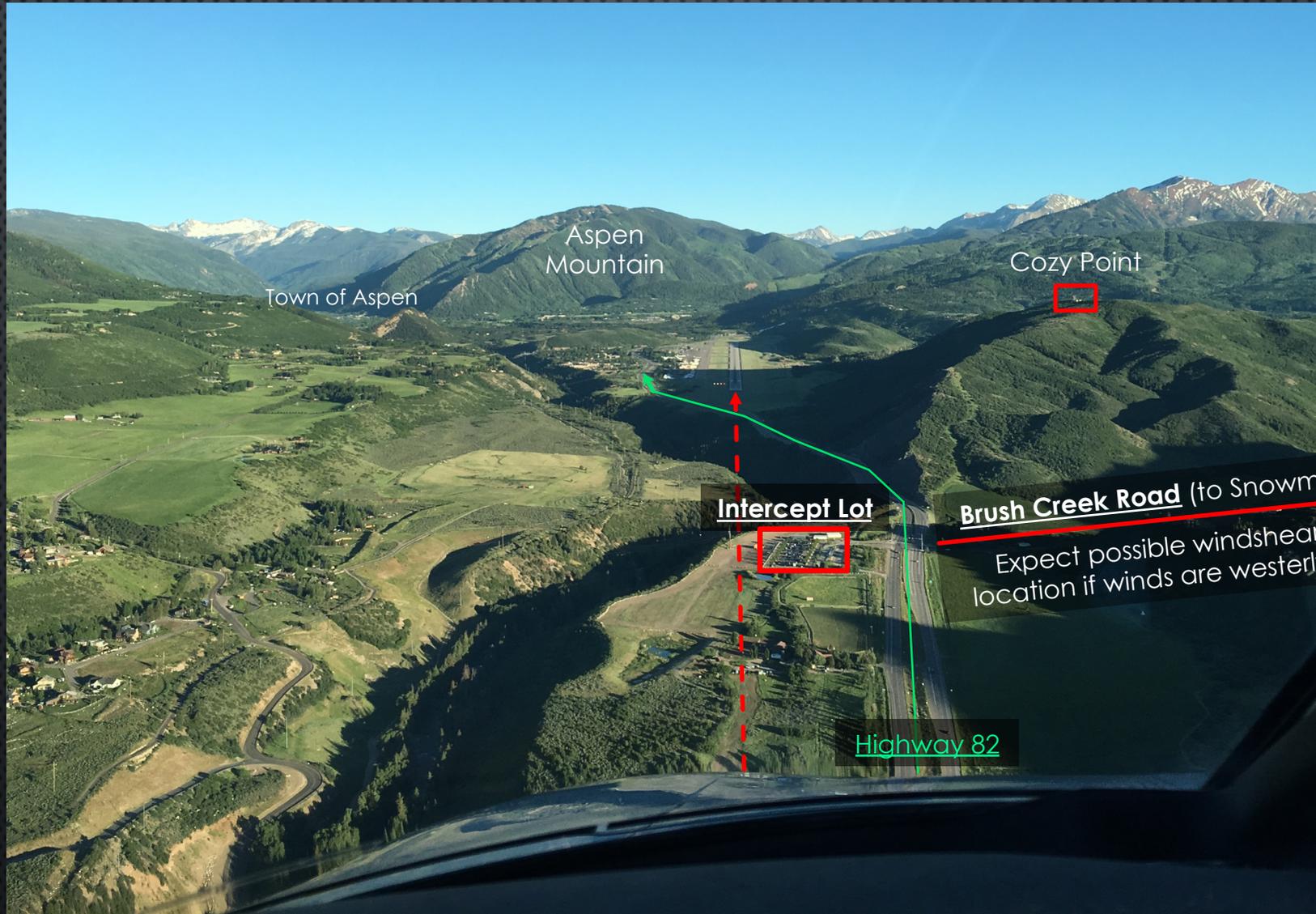
View of Aspen Mountain, on Final to Runway 15

SHALE BLUFFS (TERRAIN)



Located $\frac{1}{4}$ – 1 NM northwest of Runway 15 Approach End
(West of the Runway 15 Extended Centerline, adjacent to Highway 82)

“INTERCEPT LOT” (PARKING LOT)



View of Intercept Lot, approximately 1.25 NM final to Runway 15

PUBLISHED INSTRUMENT AND VISUAL APPROACH PROCEDURES

PUBLISHED INSTRUMENT APPROACH PROCEDURES

- **PUBLIC** APPROACHES:

- **LOC/DME-E** (PREFERRED)

- LOWEST MINS FOR CATEGORY C AIRCRAFT: 2383' – 3

- **RNAV (GPS)-F**

- **NOTE:** NO STRAIGHT-IN PUBLIC APPROACHES (CIRCLING MINS ONLY)

- **VOR/DME-C** APPROACH DECOMMISSIONED ON 08/13/2020

- **SPECIAL AUTHORIZATION** APPROACHES (STRAIGHT IN):

- **LOC/DME RWY 15***

- LOWEST MINS: 1080' – 2 ³/₄

- **RNAV (GPS) Z RWY 15***

- **RNAV (RNP) Y RWY 15* (NETJETS)**

- *REQUIRES TWO-PILOT CREW + ADDITIONAL TRAINING + SPECIFIC AIRCRAFT PERFORMANCE + FAA APPROVAL (LOA C081)

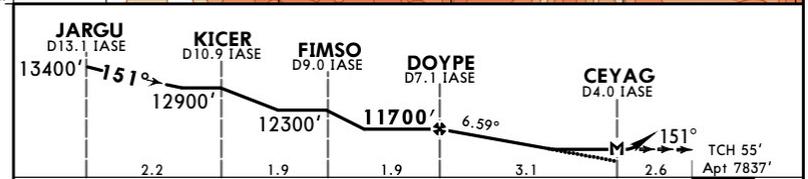
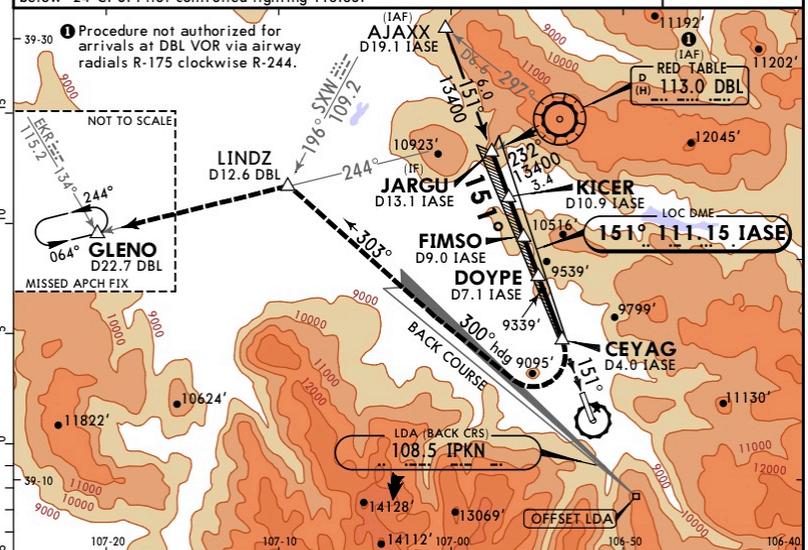
ATIS (ASOS when Twr inop) 120.4	*ASPEN Approach (R) 123.8	DENVER Center (R) 119.85 when App inop.	*ASPEN Tower CTAF 118.85	*Ground 121.9
LOC IASE 111.15	Final Apch Crs 151°	DOYPE 11700' (3863')	MDA(H) Refer to Minimums Apt Elev 7837'	

MISSED APCH: Climbing RIGHT turn to 14000' on heading 300° and IPKN localizer NORTHWEST course (303°) to LINDZ/D12.6 DBL and on DBL VOR R-244 to GLENO/D22.7 DBL and hold.

Alt Set: INCHES Trans level: FL 180 Trans alt: 18000'

1. Dual VHF navigation receivers required. 2. Procedure not authorized at night. 3. VGS1 and descent angles not coincident. 4. IPKN back course outbound is normal sensing. 5. Cold temperature restricted airport, altitude correction required at or below -24°C. 6. Pilot controlled lighting 118.85.

MSA DBL VOR



Gnd Speed-Kts	70	90	100	120	140	160	Lighting - Refer to Airport Chart	14000'	300° on hdg	IPKN 108.5 NORTHWEST
Descent Angle	6.59°	819	1053	1170	1404	1638	1872	RT	and	303°

MAP at CEYAG

CIRCLE-TO-LAND

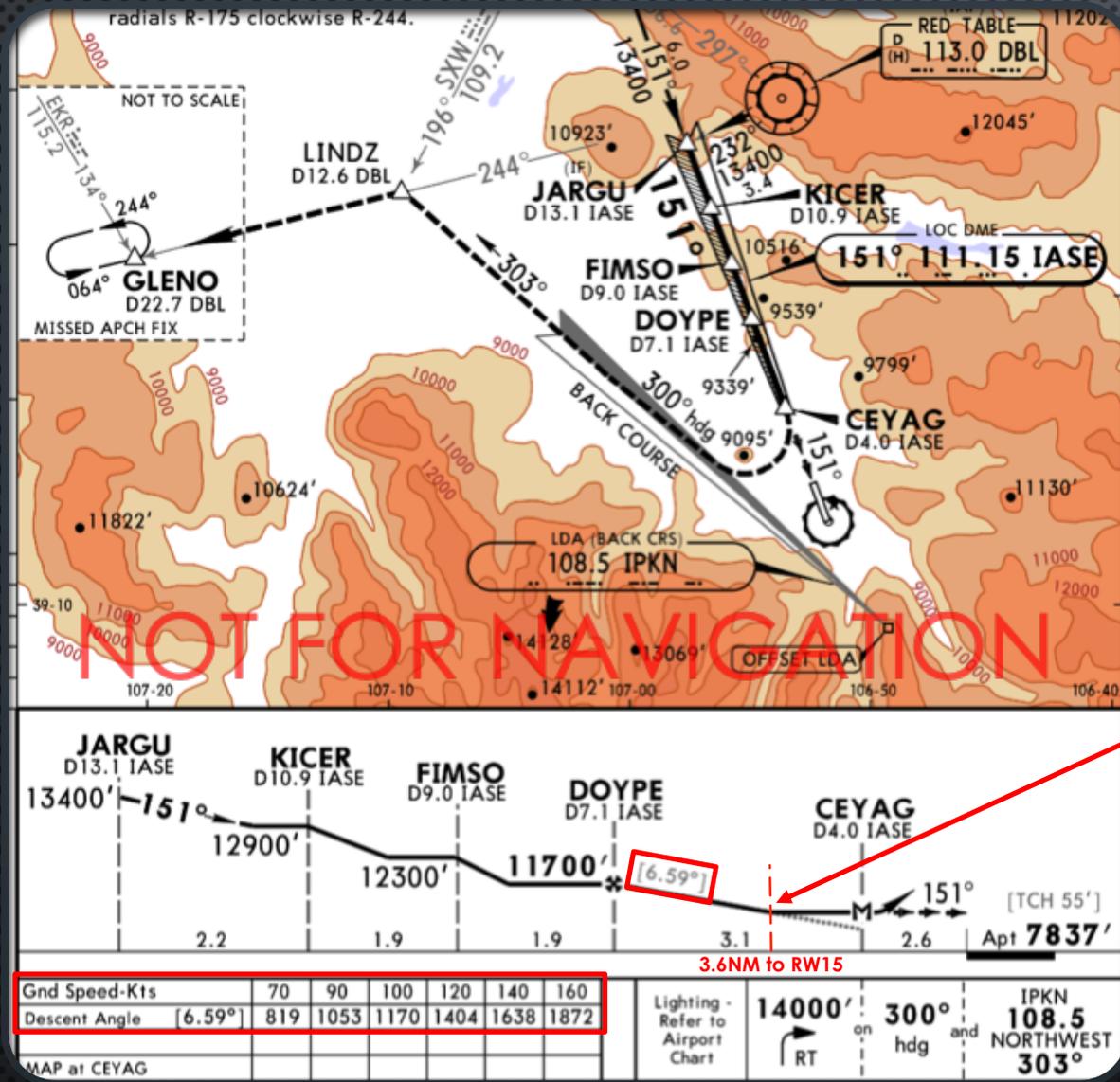
NOT FOR NAVIGATION

Max Kts	MDA(H)	
A 90	9840' (2003')	-3
B 120	10020' (2183')	-3
C 140	10220' (2383')	-3
D	NA	

LOC/DME-E

- DUAL VHF RECEIVERS REQUIRED (FOR MISSED APPROACH)
- CIRCLE-TO-LAND ONLY; NOT AUTHORIZED AT NIGHT
- CATEGORY D MINIMA **NOT AUTHORIZED!**
- COLD TEMPERATURE CORRECTIONS REQUIRED BELOW -24°C
- 696'/NM DESCENT GRADIENT EXCEEDS TERPS MAXIMUM OF 400'/NM FOR STRAIGHT IN; CIRCLE-TO-LAND MINS PUBLISHED
- CONSIDER FULLY CONFIGURING AIRCRAFT PRIOR TO **JARGU**
- MISSED APPROACH REQUIRES AN **IMMEDIATE** CLIMBING RIGHT TURN AFTER REACHING CEYAG (MAP) TO 14,000' ON HEADING 300° FOR TERRAIN AND OBSTRUCTION CLEARANCE
- MISSED APPROACH INCORPORATES AN LDA (BACK COURSE) WHICH IS **NORMAL** SENSING WHEN TUNED TO 303° ON **GREEN NEEDLES** (RAW DATA)
- IF THE AIRPORT IS VISUALLY ACQUIRED DURING THE LOC/DME-E APPROACH, A **VISUAL APPROACH** CLEARANCE **MUST** BE RECEIVED BEFORE DESCENDING BELOW ANY STEPDOWN ALTITUDE ON THE PROCEDURE. ASE ATCT CAN ISSUE A VISUAL APPROACH CLEARANCE IF ALREADY SWITCHED TO TOWER.

TERPS AMEND 1B 20 SEP 2012



LOC/DME-E [PLAN & PROFILE VIEW]

- THE **LOC/DME-E** APPROACH REQUIRES A 6.59° DESCENT FROM DOYPE TO RUNWAY 15
 - MOST FMS/AVIONIC SUITES WILL NOT **VNAV** INSIDE THE FAF WITH A VERTICAL PATH ANGLE (VPA) > 6.0°
 - IF THE AIRPORT ENVIRONMENT IS VISUALLY ACQUIRED BY DOYPE (FAF), A STRAIGHT IN DESCENT/LANDING MAY BE ACCOMPLISHED IF STABLE & IN A SAFE POSITION TO LAND
 - IF THE AIRPORT ENVIRONMENT IS NOT VISUALLY ACQUIRED UNTIL PAST DOYPE (BUT WITHIN TERPS CIRCLING RADIUS), A LEFT 360° CIRCLING MANEUVER MAY BE NECESSARY TO CONTINUE DESCENT AND LAND (NOT RECOMMENDED UNLESS TRAINED, PROFICIENT, AND FAMILIAR)
- DOYPE IS LOCATED JUST PRIOR TO TRIANGLE MOUNTAIN
 - **5.7** NM FROM RUNWAY 15 & **3965'** ABOVE TCH [55']
 - WITH A 6.59° DESCENT ANGLE, MDA 10,220' WILL BE REACHED ~3.6NM FROM RUNWAY 15
 - OPERATORS SHOULD CONSIDER THIS INFORMATION WHEN DETERMINING WHETHER TO DISPATCH/BEGIN THE APPROACH OR DIVERT TO AN ALTERNATE AIRPORT
 - MANY OPERATORS RECOMMEND APPROXIMATELY 4000–5 TO BEGIN THIS APPROACH AND LAND SAFELY
- NOTE THE HIGH DESCENT RATE REQUIRED (FPM) IN LOWER LEFT HAND TABLE ON JEPPESEN CHART
- MAP (CEYAG) IS LOCATED 2.6NM **PRIOR** TO RUNWAY 15

ATIS (ASOS when Tur Inop.) 120.4	*ASPEN Approach (R) 123.8	DENVER Center (R) 125.35 when App Inop.	*ASPEN Tower CTAF 118.85	*Ground 121.9
LOC IASE 111.15	Final App Crs 151°	Minimum Alt TIKET 12300' (14620')	MDA(H) (CONDITIONAL) 8760' (1080')	Apt Elev 7837' Rwy 15 7680'

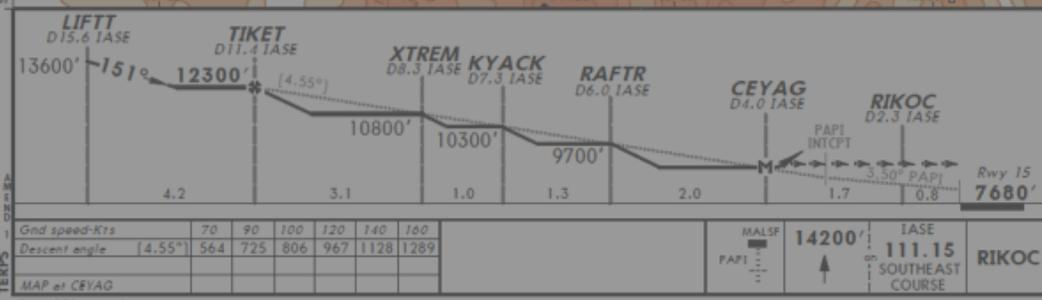
MISSED APCH: Climb to 14200' on IASE SOUTHEAST LOC course (151°) to RIKOC/D2.3 IASE then climbing RIGHT turn on heading 300° and on IPKN LDA NORTHWEST course (303°) to LINDZ INT/D12.6 DBL then outbound on DBL VOR R-244 to GLENO/D22.7 DBL and hold, continue climb-in hold to 14200', or as directed by ATC.

Alt Set: INCHES Trans level: FL 180 Trans alt: 18000'

NOTES:

1. Use of this procedure requires specific authorization by FAA Flight Standards.
2. Special aircrew training required.
3. Special aircraft performance required.
4. Two pilot operation required.
5. Dual VHF navigation receivers required.
6. MALS, PAPI and MIRL required for operation at night.
7. When local altimeter setting not received, procedure not authorized.
8. Aircraft must be configured for final approach prior to LIFTT/D15.6 IASE.
9. Use IASE DME when on the localizer course.
10. VGSI and descent angles not coincident.
11. 4.55° descent angle intercepts 3.50° PAPI angle inside CEYAG.
12. Visibility reduction by helicopters not authorized.
13. Remain within 13.5 NM of DBL VOR/DME until established on the IPKN LDA NORTHWEST course. IPKN LDA back course outbound is normal sensing.
14. Pilot controlled lighting 118.85.

1. Use of this procedure requires specific authorization by FAA Flight Standards.



	STRAIGHT-IN LANDING RWY 15				CIRCLE-TO-LAND	
	ALS OUT	ALS OUT	ALS OUT	ALS OUT	Max Alt	MDA (H)
A					90	9520' (1683') -3
B	2%	3	2%	3	120	10020' (2183') -3
C					140	10220' (2383') -3
D	NA		NA			NA

TERPS: MALS, PAPI, 14200', IASE 111.15 SOUTHEAST COURSE, RIKOC

- SPECIAL **LOC/DME RWY 15** REQUIRES SPECIFIC AUTHORIZATION BY FAA FLIGHT STANDARDS (FSDO)
- APPROVAL (LOA C081) REQUIRES:
 - TWO PILOT OPERATION
 - SPECIAL CREW TRAINING
 - SPECIAL AIRCRAFT PERFORMANCE
 - APPROACH CURRENCY
- **SPECIAL LOC/DME RWY 15** HAS NUMEROUS TERPS WAIVERS FOR TERRAIN/OBSTACLE CLEARANCE AND FINAL APPROACH SEGMENT DESCENT GRADIENT [4.55°]
- WHEN SELECTING **LOC/DME-E** APPROACH IN THE FMS, USE CAUTION TO NOT SELECT **SPECIAL LOC/DME RWY 15** APPROACH FROM THE DATABASE

Air Carrier CRJ-700 on short final to Runway 15,
executing the **LOC/DME RWY 15*** (*Special*)
approach in winter snow conditions



Special Authorization Required Approaches

- RNAV (GPS) Z Rwy 15
- LOC/DME Rwy 15

KASE ARRIVAL 1/2

STARS NONE APPROACHES

RNV Z 15

RNVF

LOC 15

LDME

<DEP/ARR IDX LEGS>

[]

MSG EXEC

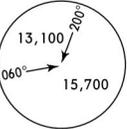
DIR	FPLN	LEGS	DEP ARR	PERF	DSPL MENU	MFD ADV	MFD DATA	PREV	NEXT		
IDX	A	B	C	D	E	F	G	1	2	3	CLR DEL
TUN	H	I	J	K	L	M	N	4	5	6	BRT DIM
	O	P	Q	R	S	T	U	7	8	9	
	V	W	X	Y	Z	SP	/	.	Ø	+/-	

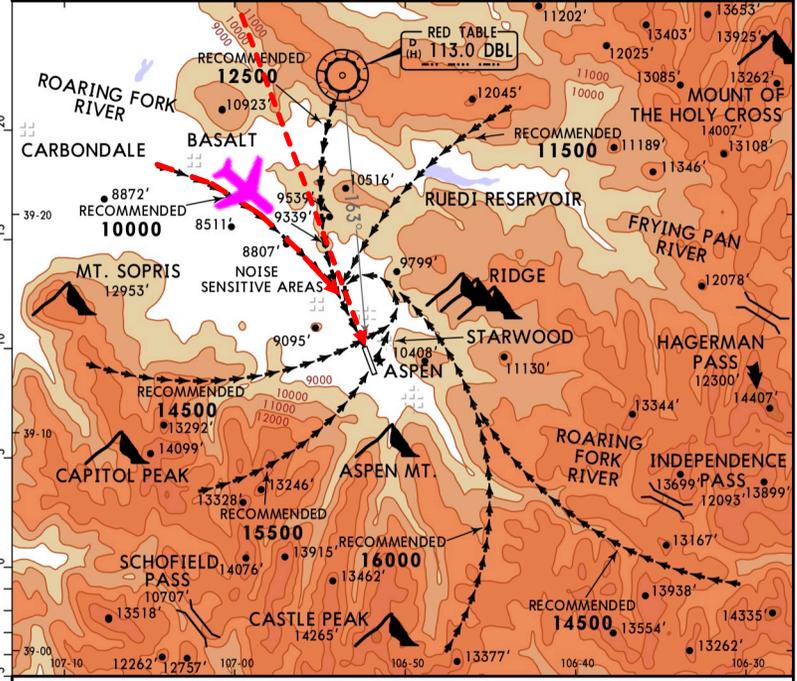
Public/Published Approaches

- RNAV (GPS)-F
- LOC/DME-E

Note that some FMS Databases may include Special Authorization Required Approaches. Special LOC/DME RWY 15* (**LOC 15**) and LOC/DME-E (**LDME**) can often be confused. Use caution!

KASE/ASE ASPEN, COLO
 -PITKIN CO/SARDY 21 AUG 20 (19-1) ROARING FORK VISUAL Rwy 15

ATIS (ASOS when Twr inop) 120.4		*ASPEN Approach (R) 123.8	DENVER Center (R) 119.85 when App inop.	*ASPEN Tower CTAF 118.85	*Ground 121.9
NAVAIDS- See Planview	Final Apch Crs See Planview	No FAF	CEIL-VIS (CONDITIONAL) 6000'-10	Apt Elev 7838'	
No Missed Approach procedure.					
Alt Set: INCHES Trans level: FL 180 Trans alt: 18000' 1. Radar required. 2. Procedure not authorized at night. 3. Vertical guidance aid and angle: Rwy 15 PAPI-L 3.5°. 4. Cold temperature restricted airport, altitude correction required at or below -24°C. 5. Pilot controlled lighting 118.85.					



ROARING FORK VISUAL RWY 15

When visual approaches to Runway 15 are in progress, clearances will be given utilizing in part the following phraseology:

“(IDENT) CLEARED FOR A ROARING FORK VISUAL APPROACH TO RUNWAY 15.”

NOT FOR NAVIGATION

WEATHER MINIMUMS

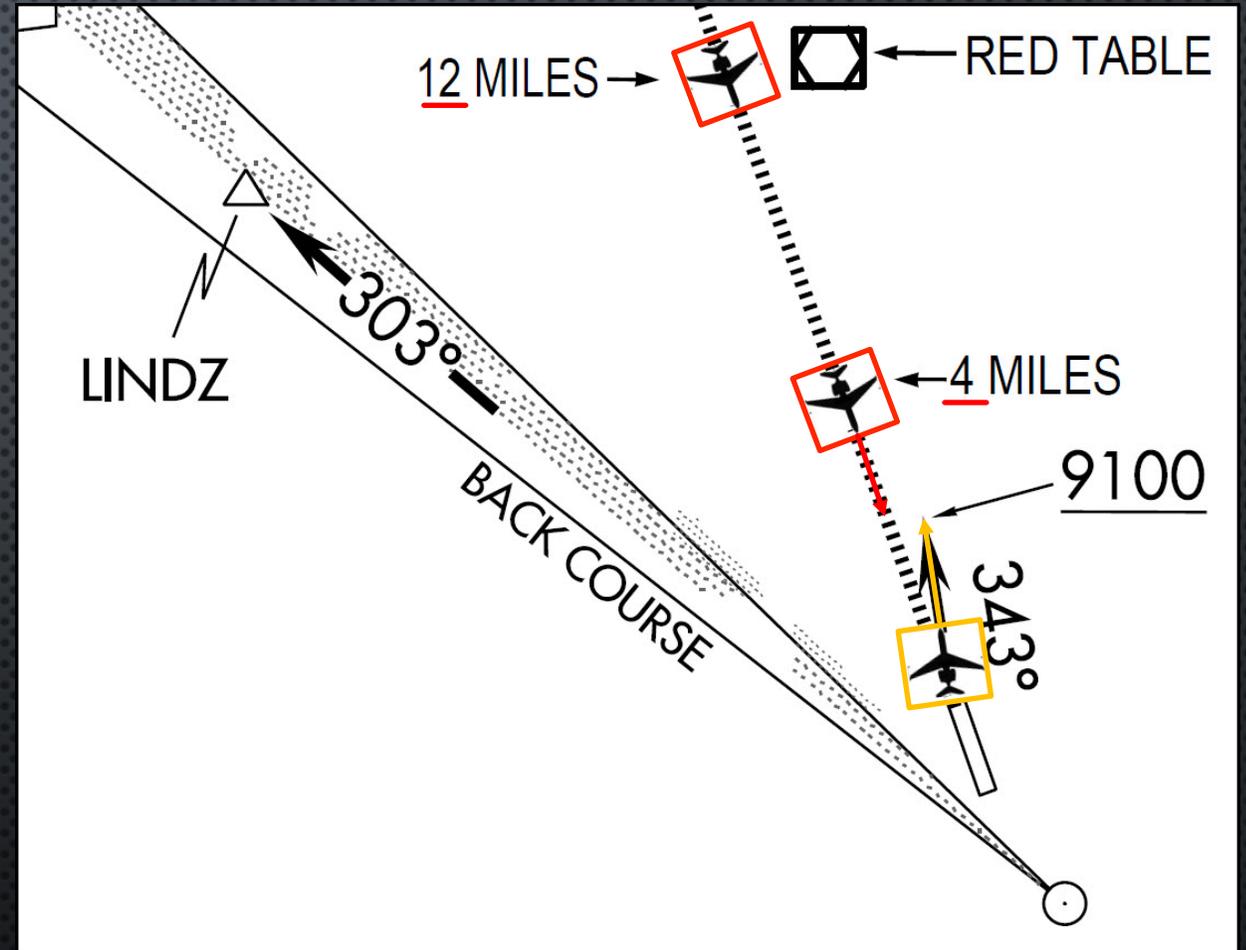
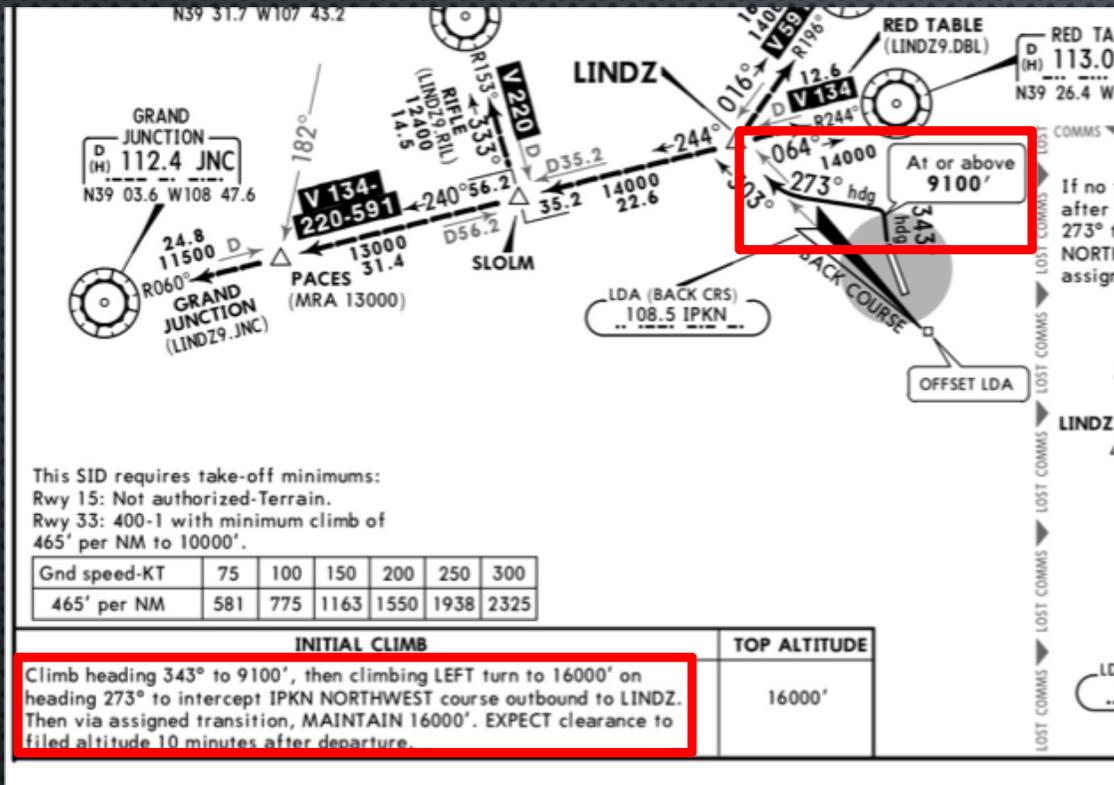
Ceiling **6000'**- VIS **10**

- ASPEN HAS A CHARTED VISUAL FLIGHT PROCEDURE (CVFP) TITLED “ROARING FORK VISUAL” TO RUNWAY 15
- THIS CVFP IS NOT OFTEN ISSUED EXCEPT BY PILOT REQUEST, HOWEVER THE PLAN VIEW OF THIS CHART IS EXTREMELY USEFUL FOR SITUATIONAL AWARENESS WHEN NAVIGATING LOCAL TERRAIN, ESPECIALLY WHEN GEO-REFERENCED
- A “VALLEY ARRIVAL” WHICH STARTS NEAR THE TOWN OF BASALT AND FOLLOWS HIGHWAY 82 TO RUNWAY 15 ALLOWS AIRCRAFT TO DESCEND IN THE ROARING FORK VALLEY WITH SUFFICIENT TERRAIN CLEARANCE AT A MORE FAVORABLE RATE OF DESCENT (PREFERRED, IF FAMILIAR)
 - AVAILABILITY OF THIS PROCEDURE IS SOMETIMES LIMITED DUE TO OPPOSITE DIRECTION DEPARTURE TRAFFIC
- AIRCRAFT ON A VISUAL APPROACH TO RUNWAY 15 MAY BE INSTRUCTED TO FLY “ON OR EAST OF THE RUNWAY 15 EXTENDED CENTERLINE” FOR OPPOSITE DIRECTION TRAFFIC DEPARTING RUNWAY 33
 - THIS DECONFLICTS RUNWAY 15 ARRIVAL TRAFFIC FROM RUNWAY 33 DEPARTURE TRAFFIC, WHICH WILL BE TURNING WESTBOUND (DOWN VALLEY) AFTER PASSING 9100'

DEPARTURE PROCEDURES AT ASPEN



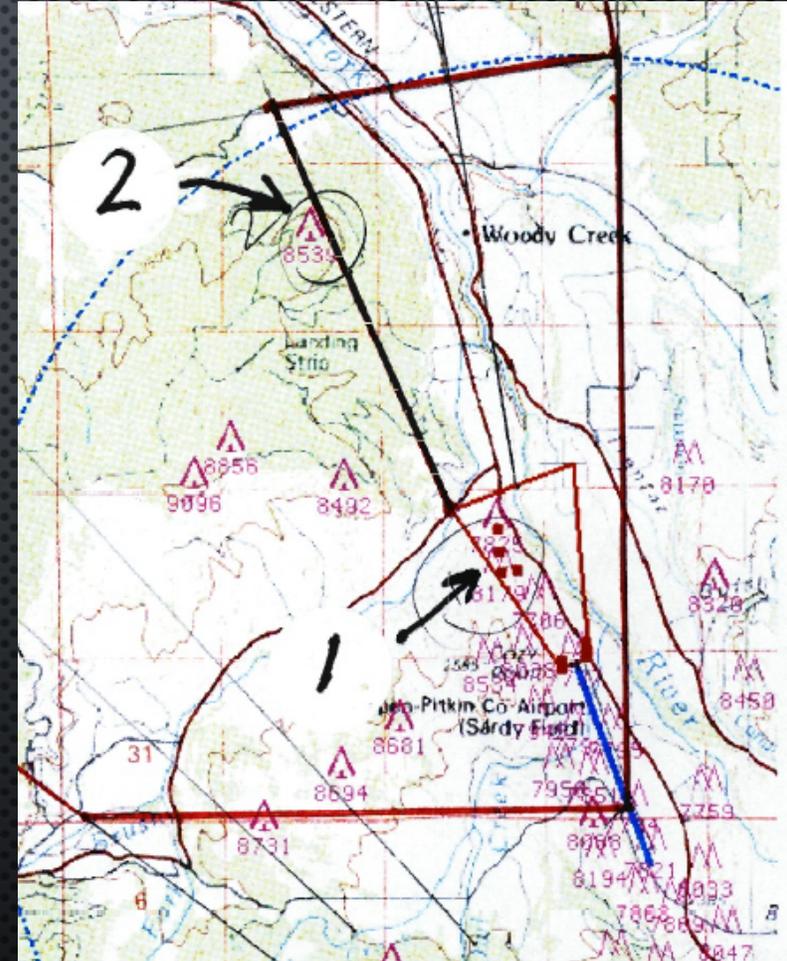
LINDZ9 – STANDARD INSTRUMENT DEPARTURE (SID)



The LINDZ9 SID requires an **IMMEDIATE** right turn to heading 343° as soon as practical after takeoff to ensure traffic separation with arrival aircraft. Reaching 9100', begin a **PROMPT** left turn to heading 273°

LINDZ9 SID – PROMPT RIGHT TURN TO HEADING 343°

- **A PROMPT RIGHT TURN TO HEADING 343° MAY BE ACCOMPLISHED BELOW 400' AGL** AT PILOT'S DISCRETION AND IS ENCOURAGED, CONSISTENT WITH SAFE AIRCRAFT OPERATIONS
- A PROMPT RIGHT TURN FACILITATES SAFE TERRAIN CLEARANCE FROM SHALE BLUFFS, LOCATED NORTHWEST OF RUNWAY 33, AS WELL AS TRAFFIC SEPARATION FROM OPPOSITE DIRECTION ARRIVALS TO RUNWAY 15
- CREWS ARE ENCOURAGED TO COMPLY WITH THE INITIAL 343° HEADING AS SOON AS ABLE. **HDG** MODE WITH MANUAL PILOT INPUT SUGGESTED FOR INITIAL PORTION OF THE LINDZ9 SID (USE OF **LNAV** DISCOURAGED ON INITIAL PORTION OF LINDZ9 SID DUE TO DELAYED CAPTURE OF H343°)





GPS/FMS navigation guidance will not sequence to H343° until reaching 400' AGL (8240' MSL). Use of **HDG** Mode with manual pilot input encouraged to facilitate prompt flight director guidance to H343° after takeoff. **NAV** Mode selection encouraged only **after** established on H273° per LINDZ9.

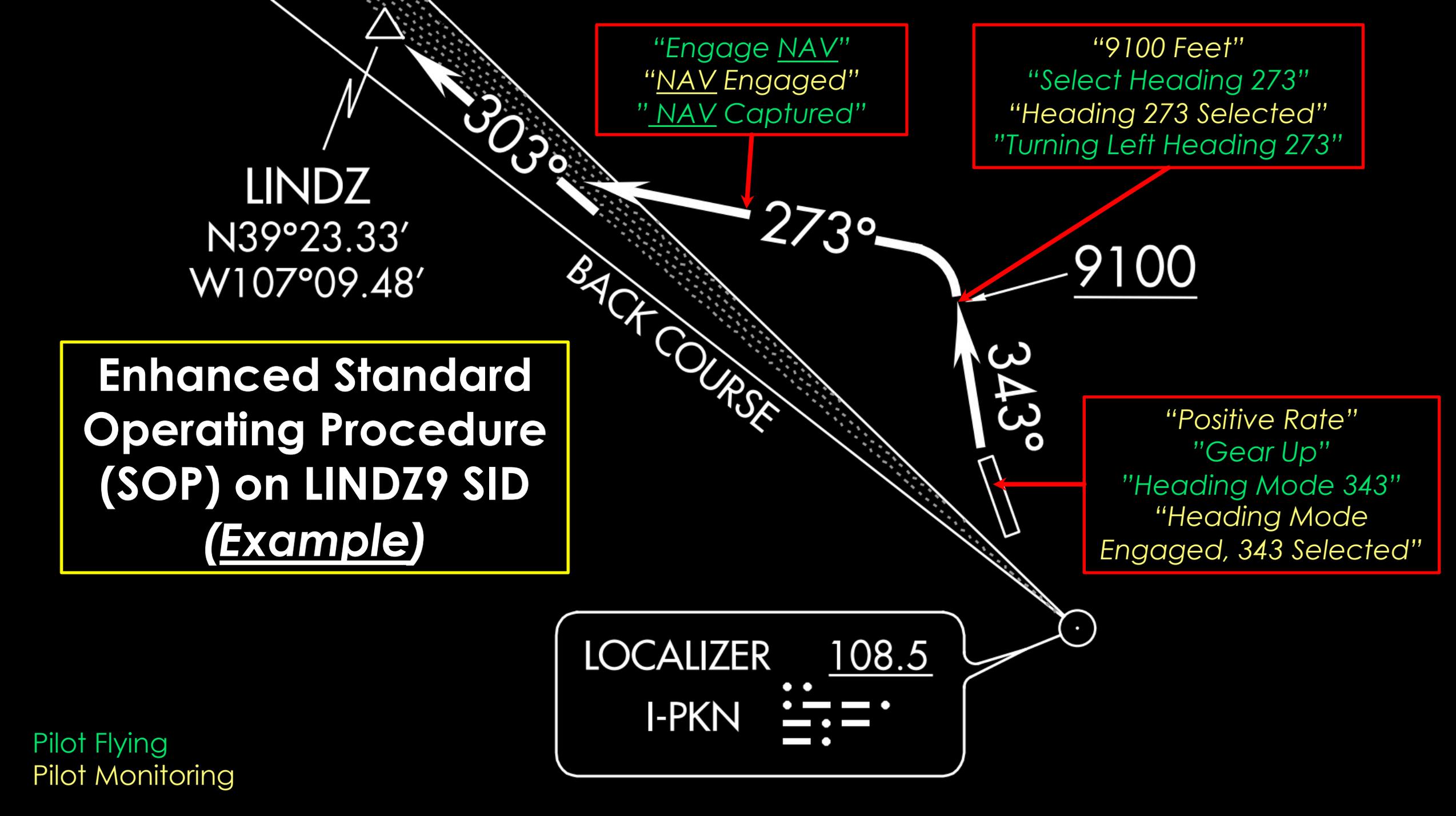
LINDZ
N39°23.33'
W107°09.48'

"Engage NAV"
"NAV Engaged"
"NAV Captured"

"9100 Feet"
"Select Heading 273"
"Heading 273 Selected"
"Turning Left Heading 273"

**Enhanced Standard
Operating Procedure
(SOP) on LINDZ9 SID
(Example)**

LOCALIZER 108.5
I-PKN

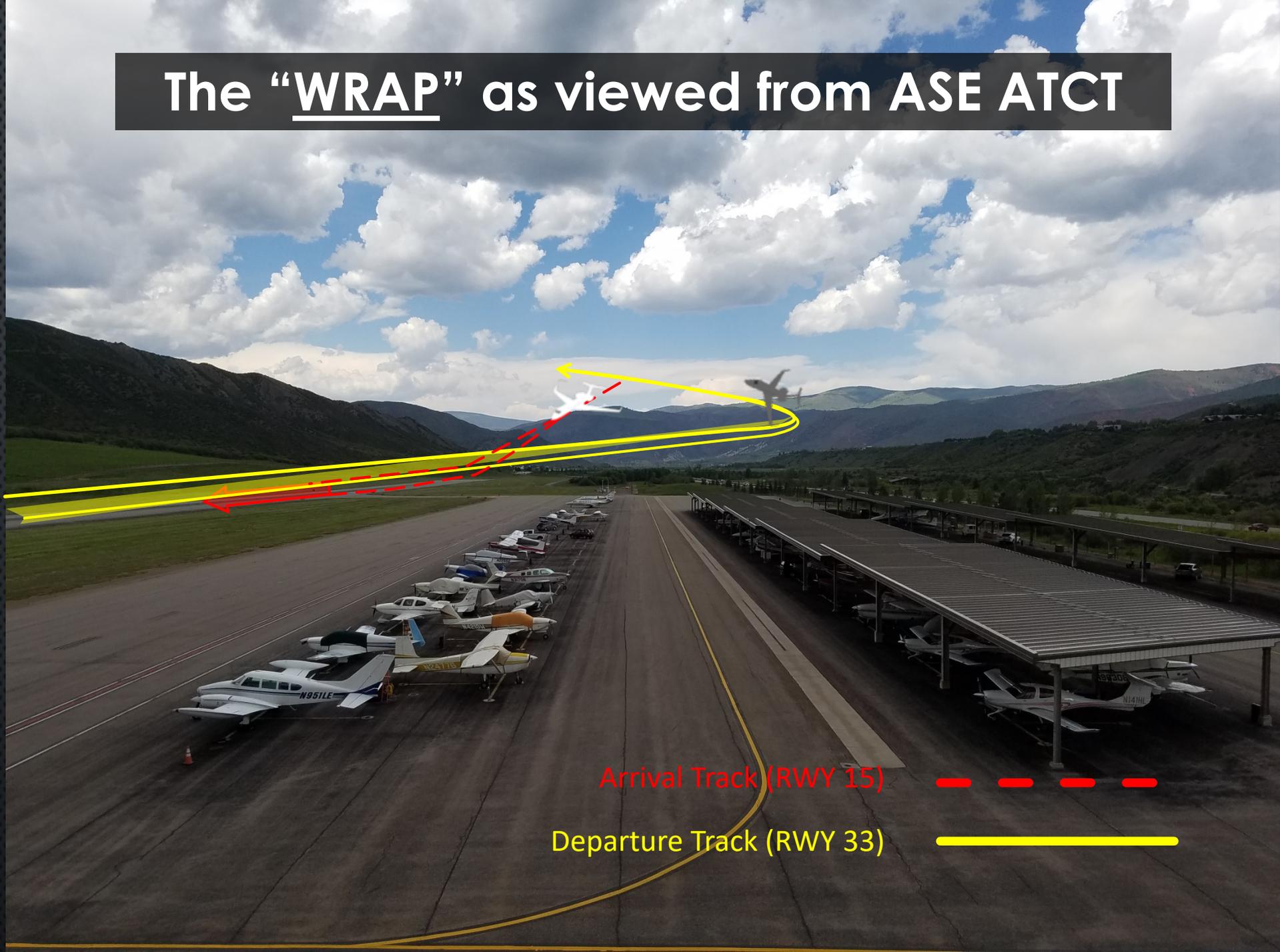


ASE ATCT “WRAP” PROCEDURE

- THE “WRAP” PROCEDURE IS AN OPERATION CONTROLLED BY ASPEN TOWER UNDER VISUAL METEOROLOGICAL CONDITIONS (VMC) WHERE A RUNWAY 33 DEPARTURE OFFSETS EAST OF THE RUNWAY 15 FINAL APPROACH COURSE, THEN TURNS WESTBOUND ABOVE OR BEHIND A RUNWAY 15 ARRIVAL
 - INCREASES AIRPORT EFFICIENCY
 - REDUCES DEPARTURE/ARRIVAL DELAYS
- THE “WRAP” PROCEDURE REQUIRES **PROMPT** AND **EXPEDITIOUS** COMPLIANCE WITH ATC INSTRUCTIONS FOR TRAFFIC SEPARATION
- EXPECT TO PASS IN CLOSE PROXIMITY TO ARRIVING AIRCRAFT
- INITIAL RIGHT TURN TO HEADING 343° SHOULD BE ACCOMPLISHED **AS SOON AS PRACTICAL AFTER TAKEOFF** TO ENSURE TERRAIN CLEARANCE WITH SHALE BLUFFS (LOCATED NORTHWEST OF RUNWAY 33) IN ADDITION TO TRAFFIC SEPARATION WITH OPPOSITE DIRECTION ARRIVALS
 - TURN MAY BE INITIATED **BELOW 400’ AGL AND PRIOR TO DEPARTURE END OF RUNWAY (DER)** AT PILOT’S DISCRETION IN VMC. A PROMPT RIGHT TURN BELOW 400’ AGL IS ENCOURAGED, IF ABLE.
- ASE ATCT MAY INSTRUCT AIRCRAFT TO CONTINUE H343° AFTER TAKEOFF AND WILL ADVISE WHEN TO BEGIN LEFT TURN TO H273° TO PROVIDE SEPARATION FROM OPPOSITE DIRECTION ARRIVAL AIRCRAFT. THIS TURN WILL BE INITIATED BY NO LATER THAN 3.05 NM FROM THE DER, AS INSTRUCTED BY ASE ATCT. COMPLIANCE WITH AMENDED ATC INSTRUCTIONS IS CRITICAL FOR AIR TRAFFIC SEPARATION.



The “WRAP” as viewed from ASE ATCT



Arrival Track (RWY 15)

Departure Track (RWY 33)

“WRAP” as viewed from the Cockpit

After takeoff, Initiate a Prompt Right Turn H343° per LINDZ9 SID
(prior to Departure End of Runway 33, preferred)

- Prompt right turn required for:
- Traffic Separation (RWY 15 Final)
 - Terrain Avoidance (Shale Bluffs)

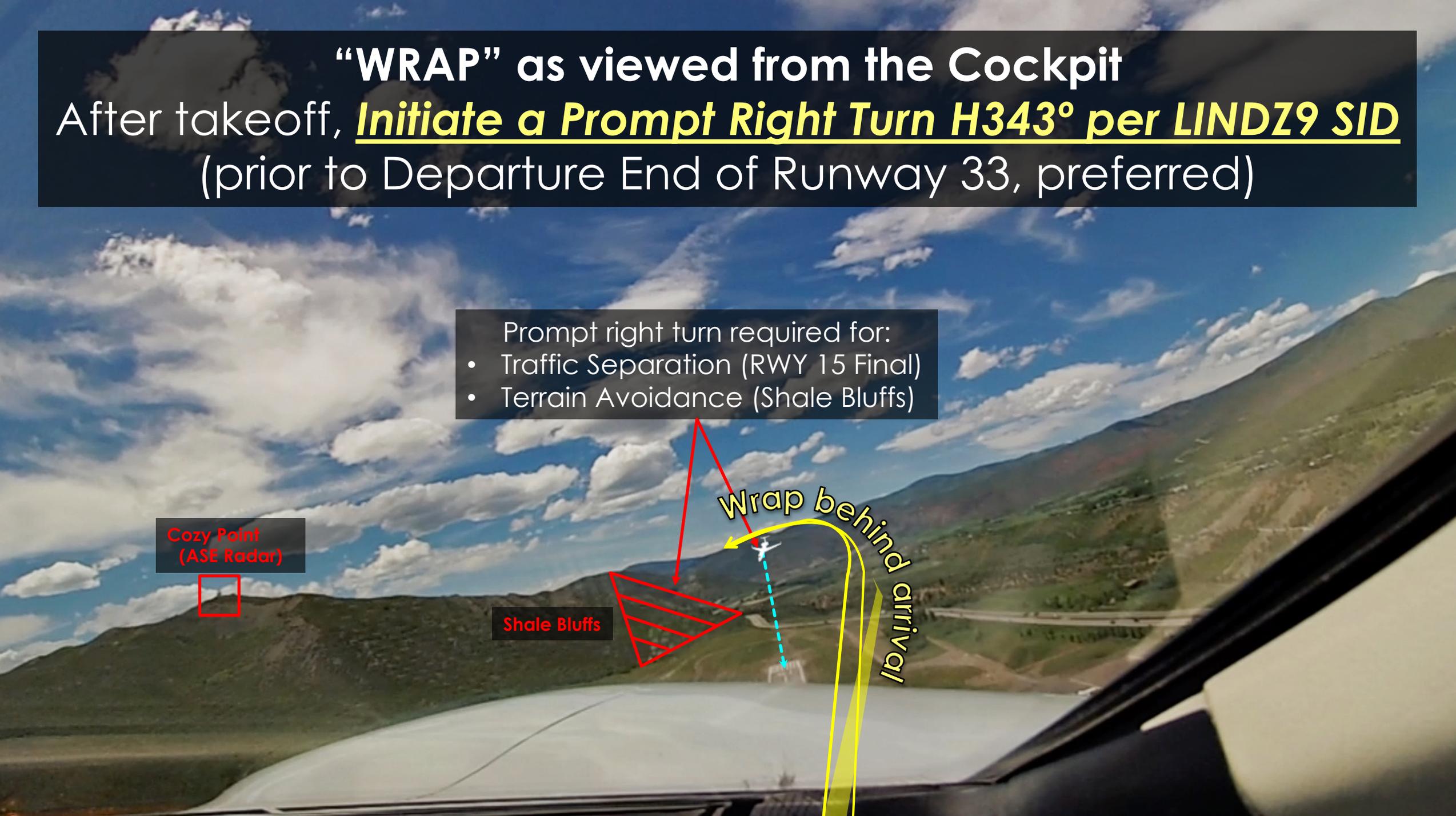
Cozy Point
(ASE Radar)



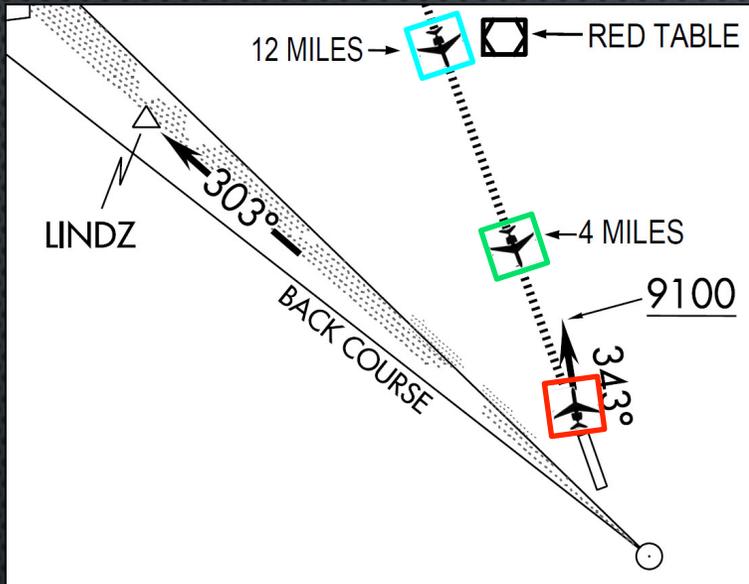
Shale Bluffs



Wrap behind arrival

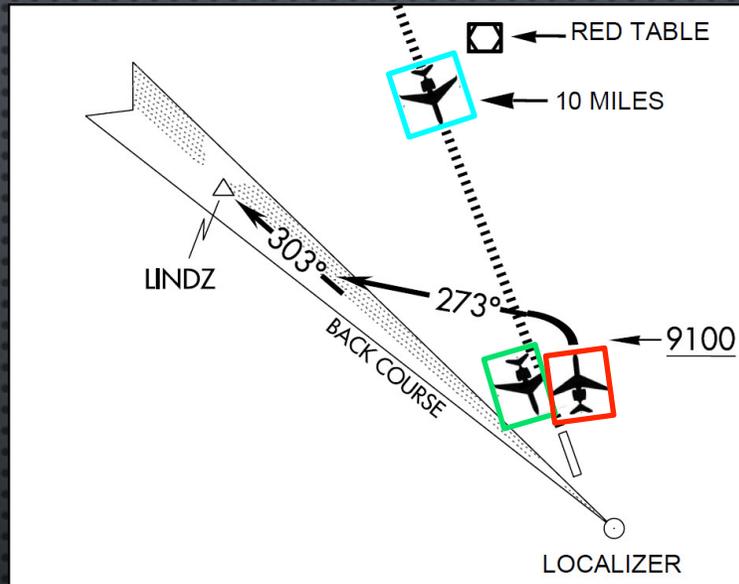


“WRAP” AND “WESTBOUND-IN-FRONT-OF” OPERATION

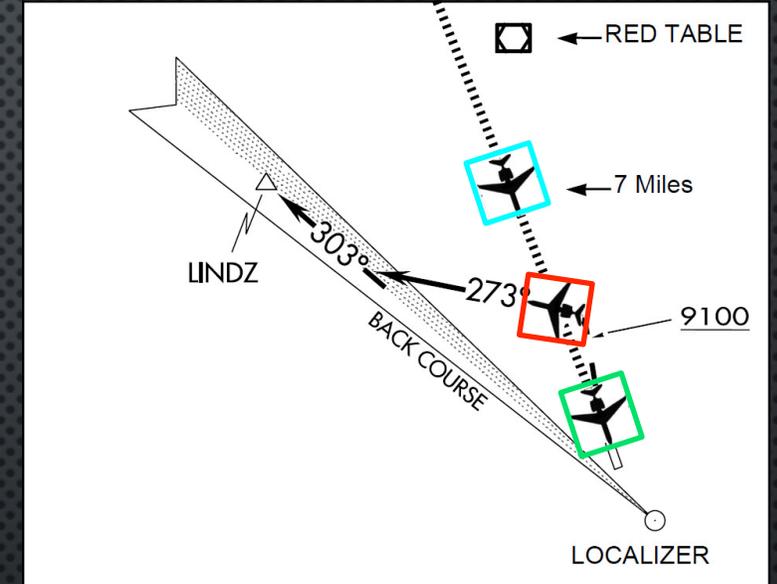


Aircraft A departs Runway 33 and “Wraps” behind (or above) opposite direction **Aircraft B** landing Runway 15.

Expeditious compliance with initial H343° is critical for air traffic separation with opposite direction arrival aircraft.



At or above 9100' MSL, departing **Aircraft A** turns west to H273°. First arrival **Aircraft B** lands straight in. Arrival **Aircraft C** remains on the Runway 15 extended centerline unless otherwise instructed by ASE ATCT/TRACAB.

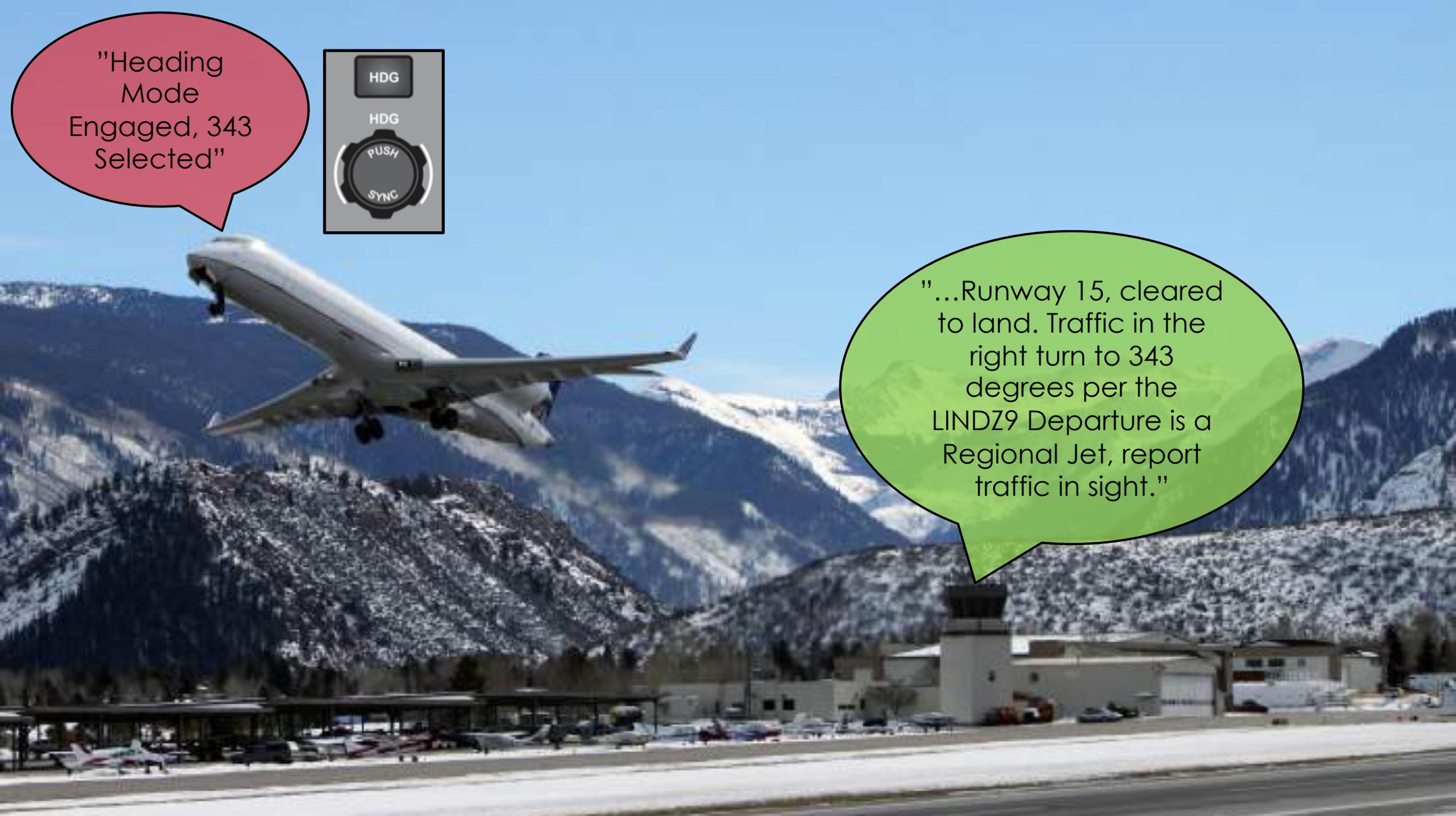


Departing **Aircraft A** continues “Westbound-In-Front-Of” **Aircraft C** tracking the extended centerline for Runway 15.

"Heading
Mode
Engaged, 343
Selected"

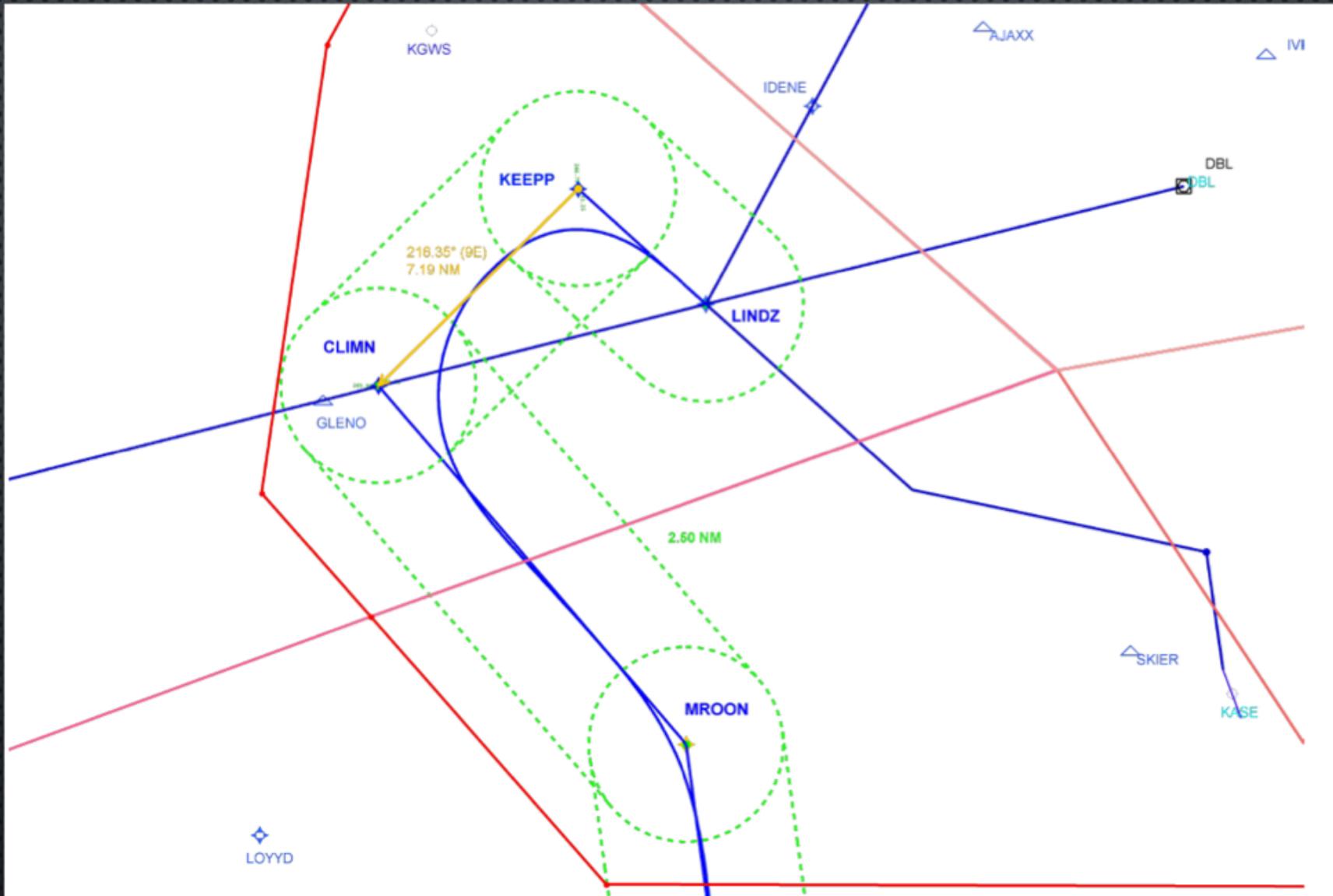


"...Runway 15, cleared
to land. Traffic in the
right turn to 343
degrees per the
LINDZ9 Departure is a
Regional Jet, report
traffic in sight."



LINDZ9 DEPARTURE – ADDITIONAL INFO

- OPERATORS ARE ENCOURAGED TO FILE THE LINDZ INTERSECTION (VICE LINDZ9 SID)
 - THE FAA'S FLIGHT DATA COMPUTER DOES NOT CURRENTLY RECOGNIZE TRANSITIONS ON THE LINDZ9
 - FILE LINDZ INTERSECTION, THEN THE FOLLOWING VOR/WAYPOINT, AS APPROPRIATE
 - AIRCRAFT FILING HBU, SEE NEXT SLIDE FOR SPECIFIC ROUTING
- EXPECT "CLEARED TO...VIA THE LINDZ9 DEPARTURE, TO THE LINDZ INTERSECTION, DIRECT XYZ, THEN AS FILED" PHRASEOLOGY FROM ASPEN CLEARANCE DELIVERY
- WHILE A CUSTOM TAILORED RUNWAY ANALYSIS IS PRUDENT AND MAY INCLUDE AN ENGINE OUT DEPARTURE PROCEDURE (EODP), ALWAYS FLY THE ASSIGNED SID UNLESS A LOSS OF ENGINE THRUST OCCURS (EMERGENCY)
- I-PKN LDA COURSE GUIDANCE (RAW DATA) SHOULD BE DISPLAYED IN THE COCKPIT DURING THE LINDZ9 DEPARTURE, EVEN IF COUPLED TO GPS/IRS/FMS GUIDANCE
 - CONSIDER PLACING 108.50 IN NAV2 AND DISPLAY RAW DATA ON STANDBY OR PILOT MONITORING PRIMARY FLIGHT DISPLAY



Aircraft filed over HBU, expect to be cleared: LINDZ9.LINDZ KEEP CLIMN MROON HBU
Once airborne and above the MVA, expect a turn direct HBU VOR from ASE TRACAB

A twin-engine propeller airplane is shown in flight, banking to the right. The aircraft is white with a dark stripe along the fuselage. Below the plane, a long, straight runway stretches into the distance, flanked by green grass and forested hills. In the foreground, several large, spherical light fixtures are visible, likely part of the runway lighting system. The background features rolling hills and mountains covered in dense green forest under a clear blue sky.

‘VFR Climb’ Procedure

'VFR CLIMB' PROCEDURE

PURPOSE:

- RETAINS IFR FLIGHT PLAN STATUS; REFER TO AIM 4-4-8(C) – (E) AND OPSPEC C077(E), IF APPLICABLE (PART 121 OR 135)
- RELIEVES ATC OF TERRAIN/OBSTRUCTION CLEARANCE REQUIREMENTS UNTIL AN AIRCRAFT ON A 'VFR CLIMB' REACHES 13,000' MSL
- FACILITATES DEPARTURE FOR AIRCRAFT UNABLE TO MEET THE IFR ALL-ENGINES OPERATING CLIMB GRADIENT ON LINDZ9

FLIGHT CREW RESPONSIBILITIES:

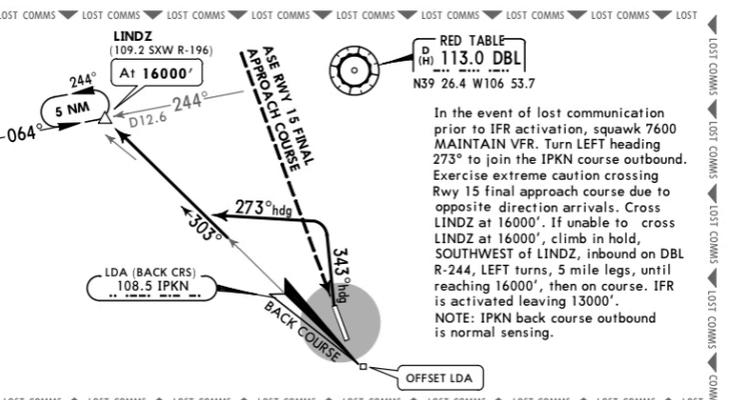
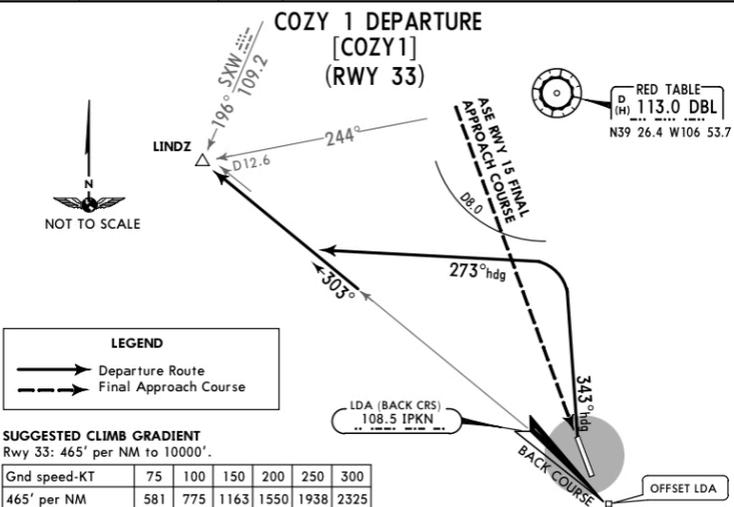
- LOOK FOR AND AVOID OTHER AIRCRAFT AND MAINTAIN OWN TERRAIN/OBSTRUCTION CLEARANCE WHILE ON AN ATC AUTHORIZED 'VFR CLIMB'
- MAINTAIN 14 CFR 91.155 BASIC VFR WEATHER MINIMUMS BELOW 13,000' MSL
- IF ABLE, REQUEST A 'VFR CLIMB' ON INITIAL CONTACT WITH ASPEN ATCT/CLEARANCE DELIVERY (AVAILABLE BY PILOT REQUEST ONLY)
- EXPECT THE FOLLOWING PHRASEOLOGY FROM ASPEN CLEARANCE, "CLEARED TO ABC AIRPORT VIA THE LINDZ9 DEPARTURE, TO LINDZ, DIRECT XYZ, THEN AS FILED. **CLIMB VFR BELOW 13,000', MAINTAIN 16,000'...**"
- FLY THE LINDZ9 SID OR AS ASSIGNED BY ASE ATCT; COMPLY WITH ANY AMENDED INSTRUCTIONS AS ASSIGNED BY ASE ATC
- **TURN RIGHT HEADING 343° AS SOON AS PRACTICAL AFTER TAKEOFF!** (BELOW 400' AGL AND/OR PRIOR TO DEPARTURE END OF RUNWAY 33 ACCEPTABLE) THIS ENSURES SEPARATION FROM OPPOSITE DIRECTION TRAFFIC AND RISING TERRAIN NEAR SHALE BLUFFS NORTHWEST OF DER
- AT 9100' **OR AS ASSIGNED BY ASE ATCT**, TURN LEFT TO 273° HEADING PER THE LINDZ9 SID
- ASE ATCT MAY INSTRUCT AIRCRAFT TO CONTINUE HEADING 343° AND DELAY THE LEFT TURN (WESTBOUND) TO 273° UNTIL ADVISED FOR SEPARATION WITH OPPOSITE DIRECTION TRAFFIC; EXPEDITIOUS COMPLIANCE WITH AMENDED ATC INSTRUCTIONS IS CRITICAL FOR TRAFFIC SEPARATION
- **HDG** MODE WITH MANUAL PILOT INPUT ENCOURAGED TO ENSURE EXPEDITIOUS COMPLIANCE WITH LINDZ9 SID UNTIL ESTABLISHED ON H273°
- ADVISE ASE ATC AS SOON AS POSSIBLE IF UNABLE TO 'CLIMB VFR' DUE TO WEATHER (CLOUD CLEARANCE) OR IF UNABLE TO COMPLY WITH THE ASSIGNED ROUTE/HEADING DUE TO TRAFFIC OR TERRAIN/OBSTACLES ALONG THE INTENDED FLIGHT PATH

*ASPEN
Departure (R)
123.8

DENVER Center (R)
119.85
when Dep inop.

Apt Elev
7838'

Trans level: FL180 Trans alt: 18000'
1. Aspen Airport Rwy 33 VFR departure procedure with transition to IFR clearance when Aspen Airport is landing Rwy 15 and departing Rwy 33. 2. WEATHER MINIMUMS: Ceiling 6000', visibility 10 miles. 3. Pilots should specifically request this procedure using the departure name. 4. Aircraft unable to comply with the restrictions in this chart must advise tower prior to taxi and request the published SID. 5. Contact for additional information Aspen Air Traffic Control Tower (970) 925-3703.



INITIAL CLIMB
After departure fly heading 343°, MAINTAIN VFR at or below 13000'. EXPECT A LEFT turn (called by ASE tower) to heading 273°, prior to D8.0 DBL. Fly heading 273° to intercept IPKN NORTHWEST course outbound to LINDZ (DBL R-244). NOTE: IPKN back course outbound is normal sensing.

ROUTING
Receipt of a clearance to climb above 13000' from Aspen Tower or Departure Control constitutes activation of IFR clearance upon leaving 13000'.

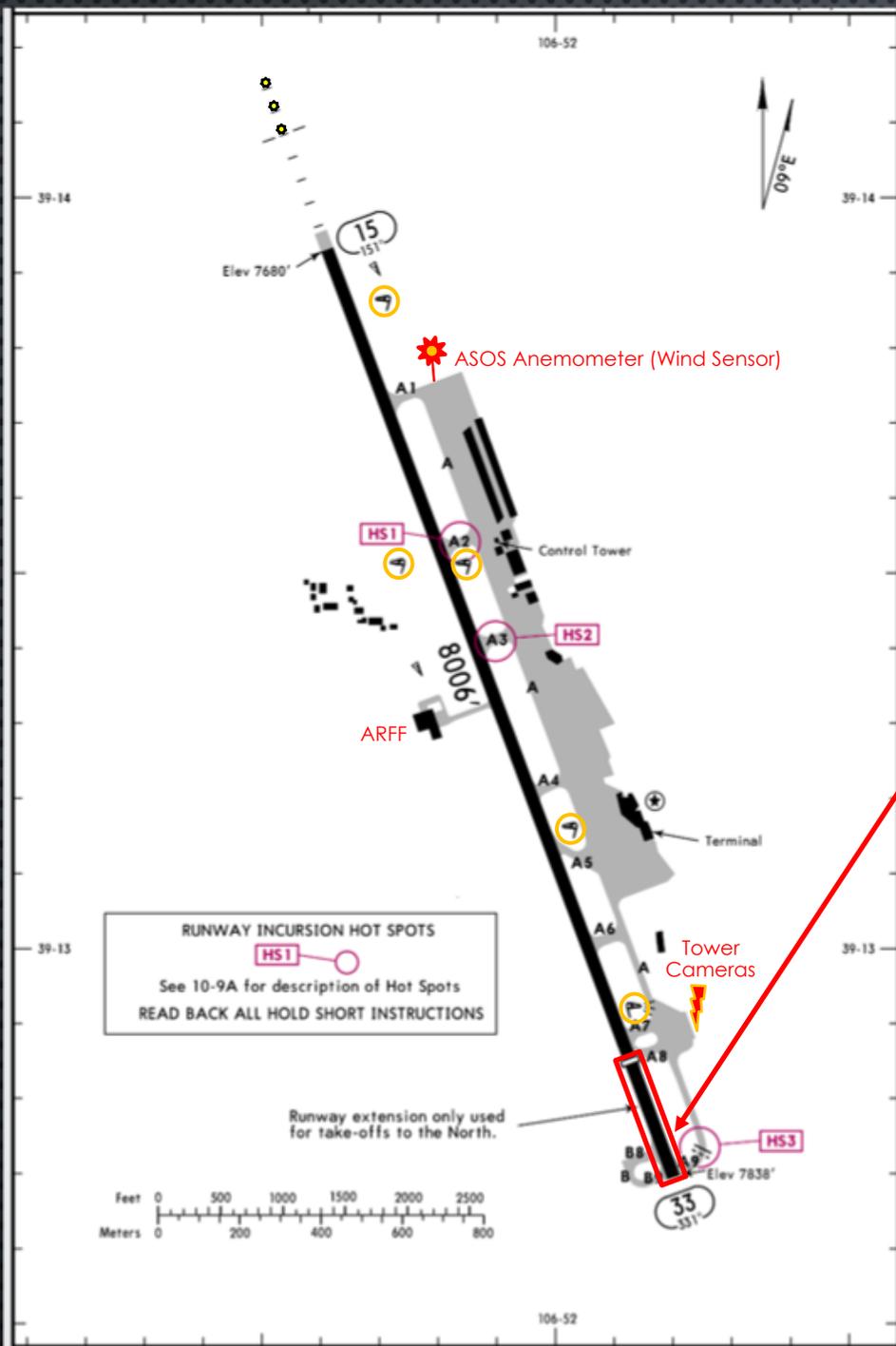
COZY ONE VFR DEPARTURE

- PUBLISHED IN THE "SPECIAL NOTICES" SECTION OF THE SOUTHWEST CHART SUPPLEMENT (FORMERLY THE AIRPORT/FACILITY DIRECTORY OR A/FD)
 - ALSO PUBLISHED BY JEPPESEN (10-3A)
- PROCEDURE ISSUED BY ASE ATCT UPON **PILOT REQUEST ONLY**
- VFR DEPARTURE WHICH TRANSITIONS TO IFR AUTOMATICALLY AT 13,000' SIMILAR TO THE DALTON 2 VFR DEPARTURE PROCEDURE AT TETERBORO
- FOLLOWS SIMILAR LATERAL PATH AS THE LINDZ9 SID, HOWEVER THE LEFT TURN TO HEADING 273° **SHOULD NOT** BE INITIATED UNTIL INSTRUCTED TO DO SO BY ASE ATCT
- PART 121/135 OPERATORS SHOULD VERIFY ELIGIBILITY TO REQUEST/ACCEPT THE COZY ONE VFR DEPARTURE VIA OpSpec C077(d). SEE FAA NOTICE N8900.470, EFFECTIVE 5/17/18 FOR MORE DETAILS.
- MAY BE BENEFICIAL FOR AIRCRAFT WHO ARE UNABLE TO COMPLY WITH THE ALL-ENGINES OPERATING CLIMB GRADIENT ON THE LINDZ9 OR OTHER SIDS

N32PM
C25C/L
709

0657	KASE	KASE LINDZ JNC FIZZL PURSE JANNY3 KVNY OREQUEST COZY ONE VFR D***		
P2200				
430				

RUNWAY SAFETY INFORMATION



RWY	ADDITIONAL RUNWAY INFORMATION		USABLE LENGTHS		WIDTH	
			Threshold	Glide Slope		TAKE-OFF
15	MIRL ①	② MALSF ③ PAPI-L (angle 3.50°)	④ 7006'		NA	100'
33	MIRL ②	REIL	7006'			

① Grooved.
 ② Activate 118.85 when Twr inop.
 ③ PAPI unusable beyond 4 NM from runway threshold and beyond 7° right of runway centerline.
 ④ Last 1000' not available for landing distance computations.

RUNWAY INCURSION HOT SPOTS
 (For information only, not to be construed as ATC instructions.)

HS1 Twy A2. Short taxi distance from ramp to runway.
HS2 Twy A3. Short taxi distance from ramp to runway.
HS3 Rwy 33 and Twy A9. Non typical location for Rwy holding position marking.

- The last 1000' of Runway 15 pavement may not be used for landing distance **computations** (7006' LDA)
- This area is used as the **Runway Safety Area** or **RSA**
- Note the slightly offset position of the **Hold Short Markings** for Runway 33 at Twy A9 (Approach End)
- Runway 15 is equipped with a **MALSF** Approach Light System with 3 **Sequenced Flashing Lights** (each **SFL** is mounted to the outermost steady light arrays)

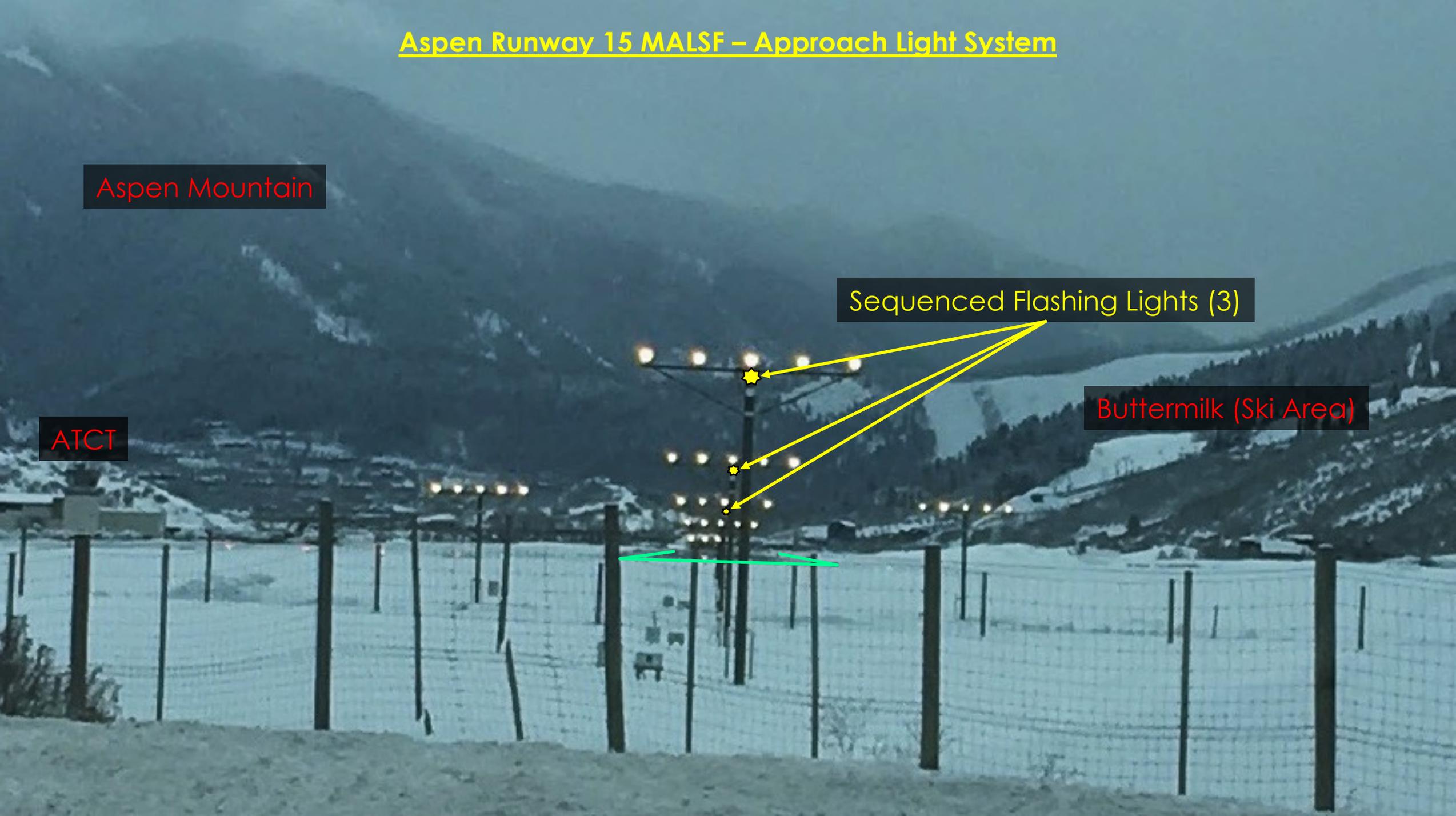
Aspen Runway 15 MALSF – Approach Light System

Aspen Mountain

ATCT

Sequenced Flashing Lights (3)

Buttermilk (Ski Area)



Aspen Mountain
& I-PKN LDA

Buttermilk (Ski Area)

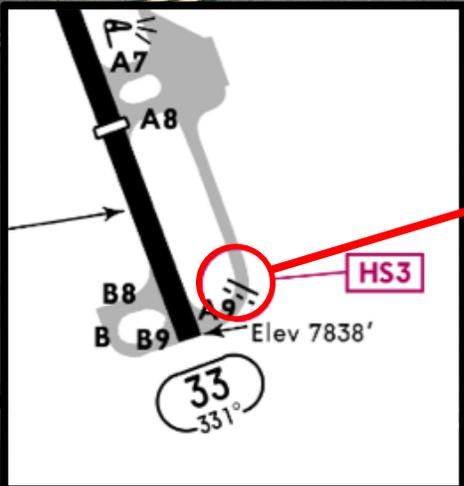
Highway 82 (Towards Downtown Aspen)

I-ASE LOC/DME

33 A9

Note the location of the Hold Short Markings
for Runway 33 at Twy A9 (Approach End)

HS3 Rwy 33 and Twy A9. Non typical location for Rwy holding position marking.



ASE ATC OPERATING PROCEDURES

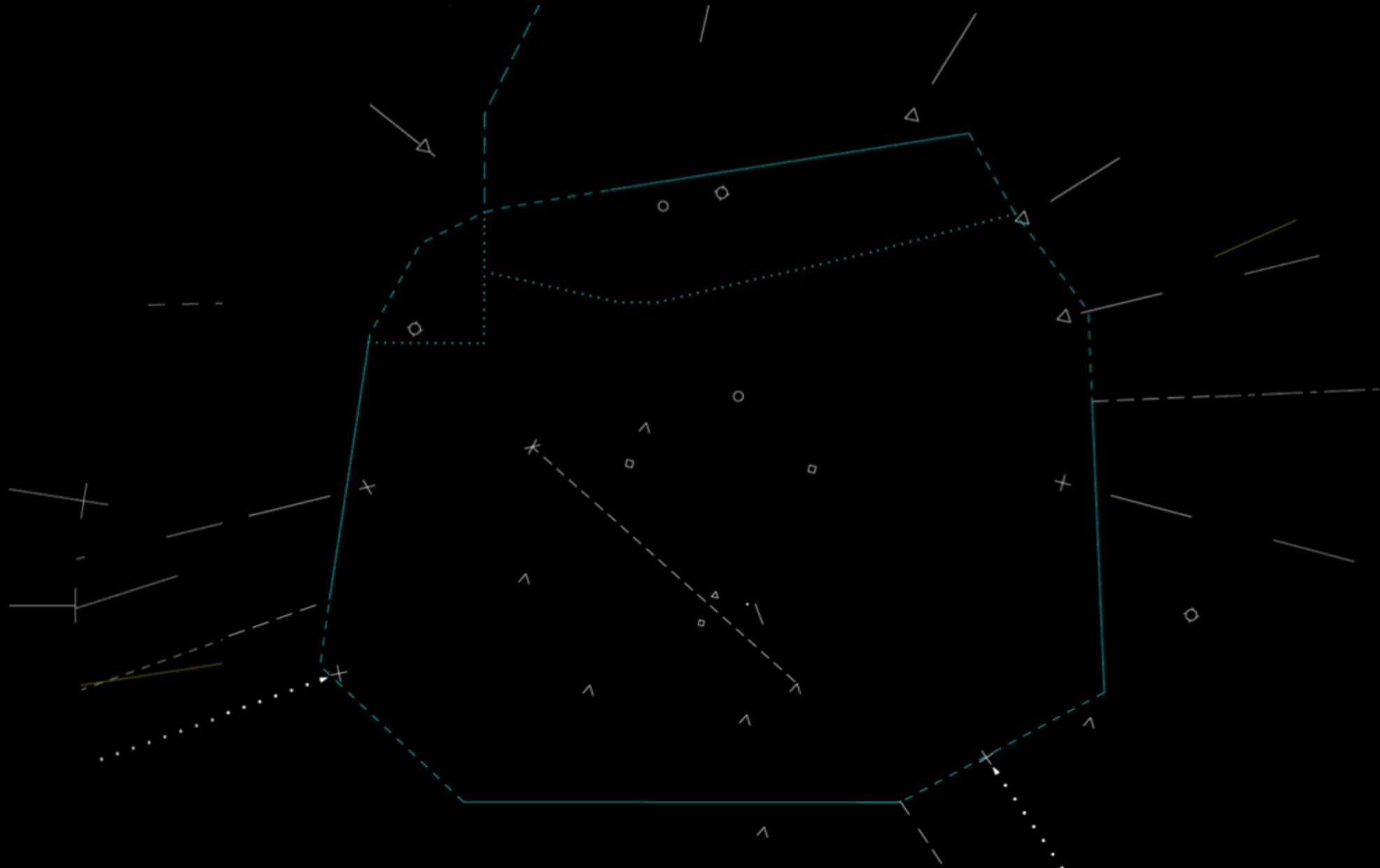


ASE ATCT/TRACAB



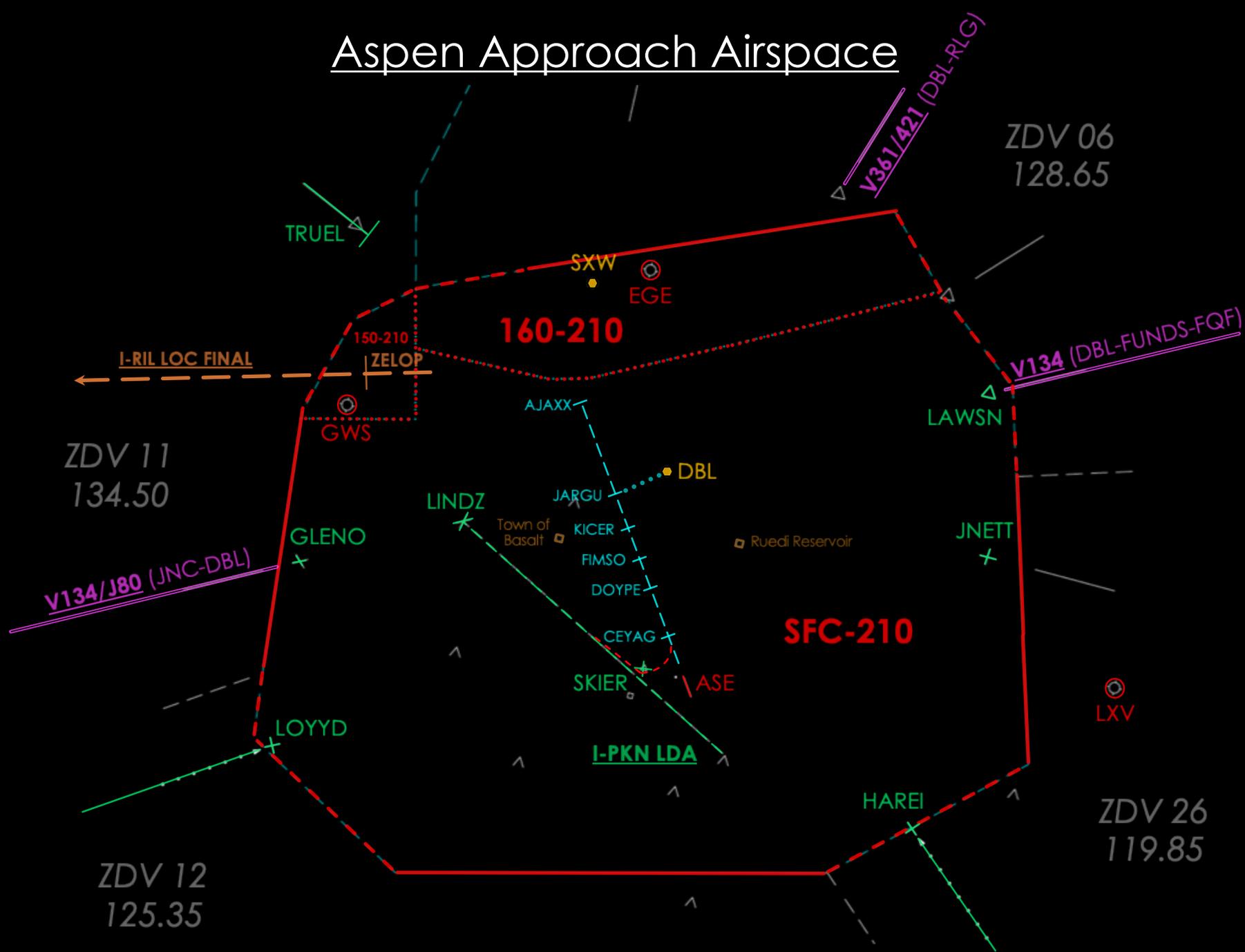
- ASE ATCT IS LOCATED MIDFIELD, ABEAM TAXIWAY A2
- THE FACILITY IS CONSIDERED A TRACAB, AS THE SINGLE POSITION APPROACH CONTROL IS LOCATED IN THE TOWER CAB (WITH ACCESS TO REAL-TIME WIND/WEATHER INFO)
- THE TOWER CAB HAS 4 MAIN POSITIONS:
 - APPROACH/DEPARTURE (RADAR)
 - LOCAL CONTROL ("TOWER")
 - GROUND CONTROL
 - FLIGHT DATA ("CLEARANCE DELIVERY")
- TOWER VISIBILITY OF AIRCRAFT HOLDING SHORT OF RUNWAY 33 AT A9 IS LIMITED (LOCATED ~1SM FROM TOWER CAB)
 - TO IMPROVE EFFICIENCY AND SAFETY, ASE ATCT HAS A DIGITAL VIDEO FEED SYSTEM ADJACENT TO THE DE-ICE PAD WHICH DISPLAYS ON LARGE SCREENS IN THE TOWER CAB TO PROVIDE CONTROLLERS WITH A VISUAL IMAGE OF AIRCRAFT AWAITING DEPARTURE

Aspen Approach Airspace



Radar Video Map courtesy of ASE ATCT/TRACAB

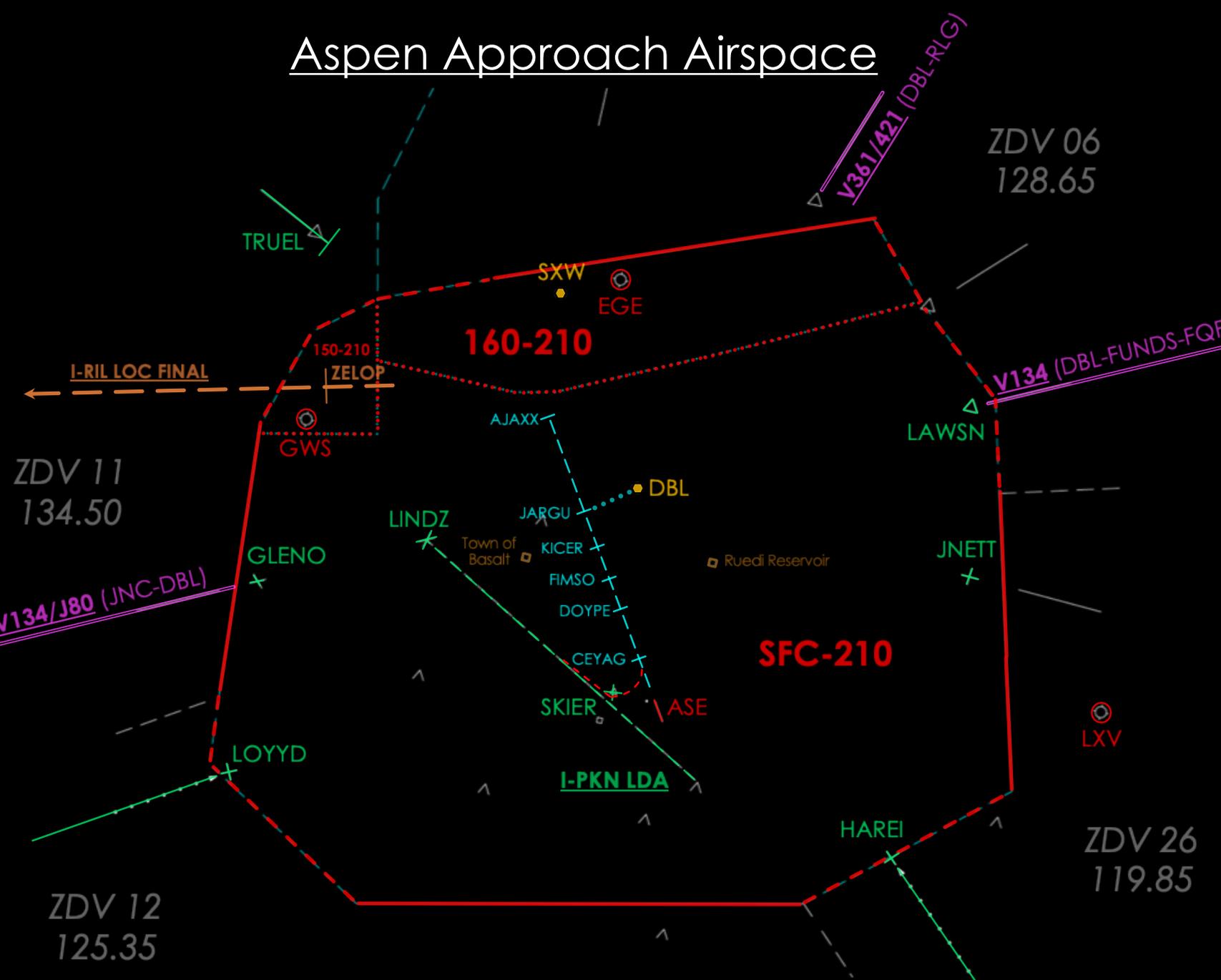
Aspen Approach Airspace



Radar Video Map courtesy of ASE ATCT/TRACAB

Aspen Approach Airspace

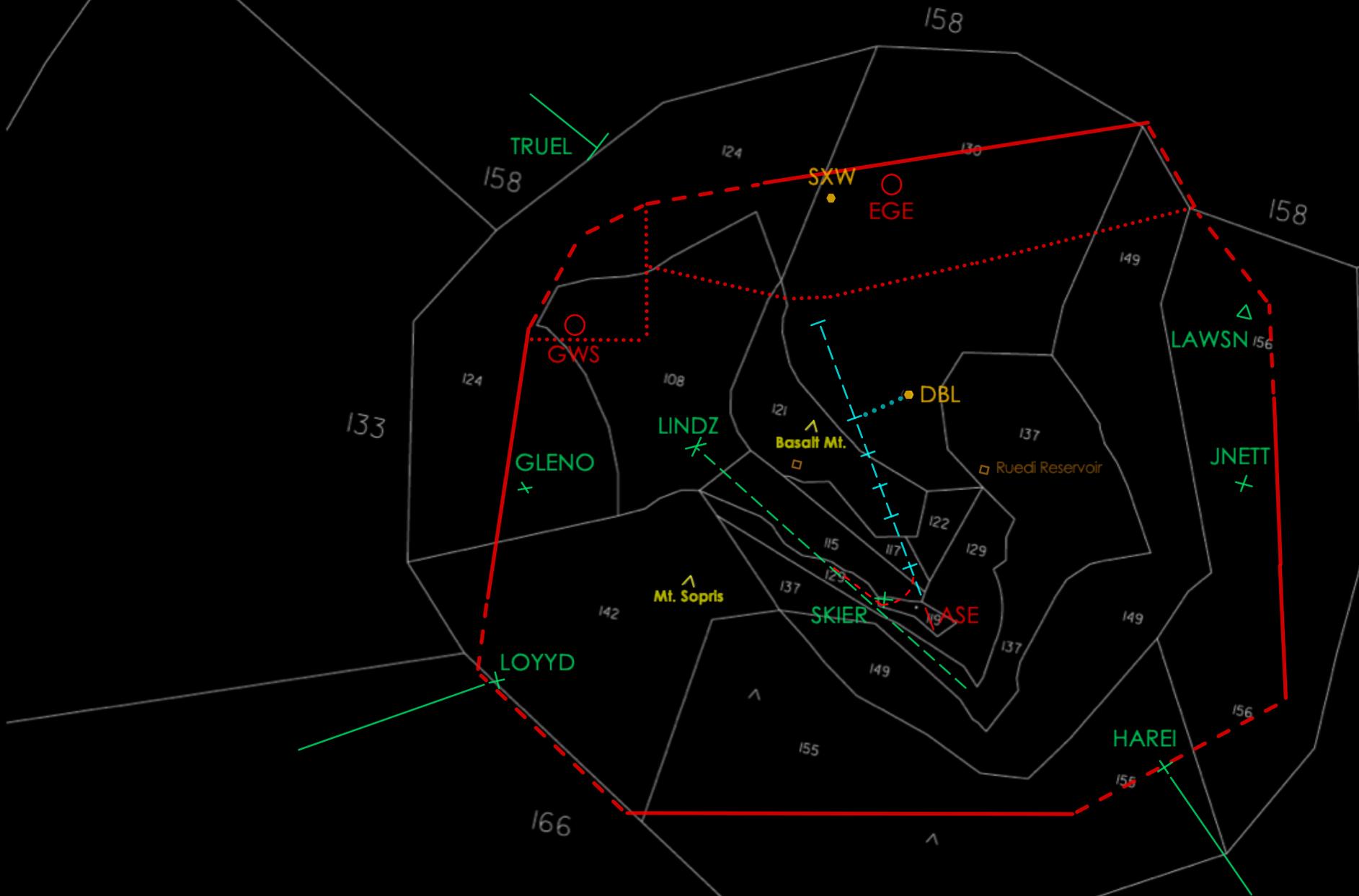
A missed approach requires careful airspeed control and radius of turn to ensure terrain/obstruction clearance. Prompt turns may be required during subsequent radar vectors back to the I-ASE LOC course to remain south of the EGE airspace shelf located 1.5NM north of AJAXX.



Aircraft approaching ASE from north of AJAXX will be unable to descend below 16,000' until crossing AJAXX due to EGE airspace shelf. Applies to both Instrument and Visual Approaches.

Radar Video Map courtesy of ASE ATCT/TRACAB

Minimum Vectoring Altitudes (MVA)



166

Due to 13,000' MVA between [AJAXX](#) and [KICER](#), aircraft may be cleared to maintain "at or above 13,000'" until established on the localizer." Aircraft may maintain 13,000' until passing [JARGU](#)

ASE ATC OPERATING PROCEDURES

- ASPEN IS A UNIQUE OPERATION IN THAT 95% OF AIRCRAFT DEPART RUNWAY 33 AND 90% ARRIVE RUNWAY 15, REQUIRING CAREFUL AND TIMELY SEQUENCING OF OPPOSITE DIRECTION TRAFFIC
- ASPEN APPROACH WILL NORMALLY SEQUENCE SUCCESSIVE ARRIVALS AT LEAST 10 MILES IN TRAIL, TO ALLOW FOR DEPARTURE GAPS
- FOR A “WESTBOUND IN FRONT OF” OPERATION, THE LOCAL CONTROLLER MAY ONLY CLEAR AN AIRCRAFT FOR TAKEOFF ON RUNWAY 33 IF THE ARRIVAL AIRCRAFT HAS NOT YET REACHED 15 NM FLYING MILES FROM RUNWAY 15. IFR SEPARATION MUST BE MAINTAINED BETWEEN THE DEPARTURE AND ARRIVAL FOR A “WESTBOUND IN FRONT OF”
- THE “CUT-OFF POINT” FOR ISSUING A TAKEOFF CLEARANCE ON RUNWAY 33 FOR A “WRAP” OPERATION IS WHEN AN INBOUND ARRIVAL AIRCRAFT REACHES A 5NM FINAL FOR RUNWAY 15 (NEAR TRIANGLE MOUNTAIN)
 - IF AN INBOUND ARRIVAL HAS REACHED A 5NM FINAL AND THE LOCAL CONTROLLER HAS NOT VISUALLY ACQUIRED THE AIRCRAFT, HE/SHE MUST ALLOW THE AIRCRAFT TO LAND ON RUNWAY 15 BEFORE CLEARING AN AIRCRAFT FOR TAKEOFF ON RUNWAY 33
 - IN THIS SCENARIO, AN AIRCRAFT INSTRUCTED TO “LINE UP AND WAIT” ON RUNWAY 33 MAY BE INSTRUCTED TO VACATE THE RUNWAY TO THE LEFT AT TAXIWAY BRAVO 8 AND HOLD SHORT OF RUNWAY 33 AT BRAVO 9
 - OPERATORS ARE ENCOURAGED TO SELECT PULSE LIGHTS ON (IF EQUIPPED) UNTIL AT LEAST TRIANGLE MOUNTAIN TO ASSIST CONTROLLERS IN VISUALLY ACQUIRING INBOUND ARRIVAL AIRCRAFT, INCREASING OPERATIONAL EFFICIENCY
- AIRCRAFT ARRIVING RUNWAY 15 VIA VISUAL APPROACH MAY BE INSTRUCTED TO “TRACK THE LOCALIZER INBOUND” TO ENSURE TRAFFIC SEPARATION WITH OPPOSITE DIRECTION DEPARTURES
- ASE ATCT RETAINS OUTBOUND FLIGHT PLANS FOR 3 HOURS PAST PROPOSED DEPARTURE TIME
- ASE ATCT/TRACAB DOES **NOT** HAVE WEATHER RADAR AND CANNOT PROVIDE CONVECTIVE WEATHER INFO OR RADAR VECTORS AROUND PRECIPITATION

ASE ATC OPERATING PROCEDURES

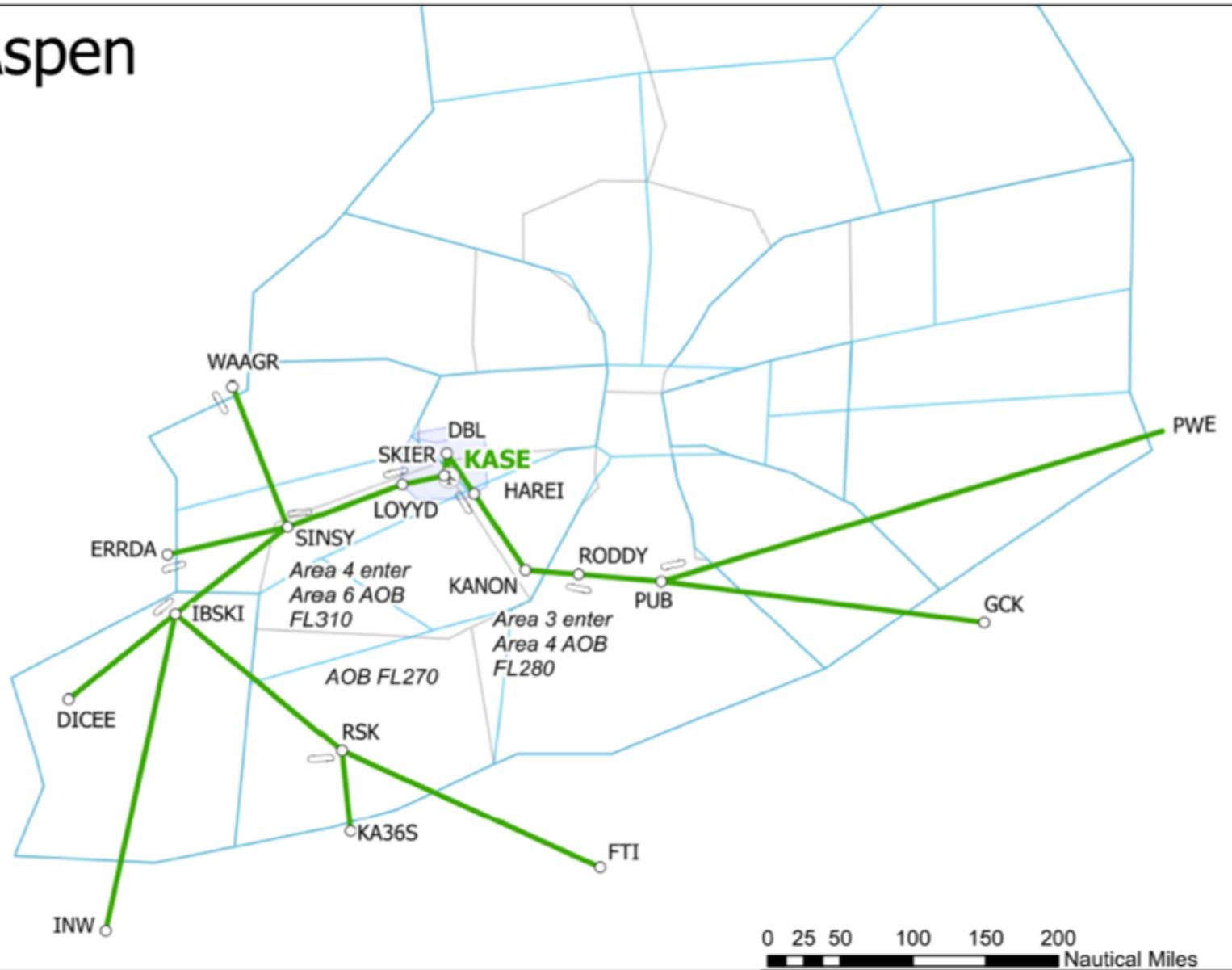
- DUE TO AIRSPACE RESTRICTIONS, ASE APPROACH MAY BLEND (RADAR VECTOR) AIRCRAFT INTO A SINGLE FLOW OF INBOUND ARRIVAL AIRCRAFT FOR RUNWAY 15 DEPENDING ON TRAFFIC/VOLUME
 - THIS MAY REQUIRE RADAR VECTORS OVER THE AIRPORT AND THEN A TURN TO THE NORTHWEST TO JOIN AN EXTENDED LEFT DOWNWIND FOR SEQUENCE (ARRIVING FROM THE WEST)
 - DUE TO EAGLE (VAIL) AIRPORT ARRIVALS AND DEPARTURES WITH ZDV (DENVER CENTER), ARRIVAL AIRCRAFT BOUND FOR ASPEN MAY BE RESTRICTED OVER EAGLE AIRPORT TO AT/ABOVE 16,000 FEET (KNOWN AS THE "EAGLE SHELF")
- DEPARTURE AIRCRAFT WHICH CAN MAINTAIN VFR CONDITIONS (AND OWN TERRAIN/OBSTACLE CLEARANCE) DURING THE INITIAL CLIMB MAY REQUEST A "VFR CLIMB" ON INITIAL CONTACT WITH ASPEN DEPARTURE TO EXPEDITE A TURN IN THE DIRECTION OF THE FIRST FLIGHT PLAN WAYPOINT AFTER LINDZ
- TAILWIND CONDITIONS CAN AND OFTEN EXIST. MONITOR WINDS REPORTED BY THE TOWER
 - WINDS ISSUED BY THE TOWER ARE A 2 MINUTE DIGITALLY CALCULATED AVERAGE, WHICH INCLUDES PEAK GUSTS OVER THE LAST 10 MINUTES
 - "INSTANTANEOUS WINDS" ARE REAL TIME WINDS, MEASURED IN THE LAST 3 SECONDS AT THE ASOS ANEMOMETER, LOCATED ADJACENT TO THE THE NORTH END OF THE ATLANTIC AVIATION RAMP, ABEAM THE RUNWAY 15 AIMING POINT MARKINGS (1000' MARKERS)

TRAFFIC MANAGEMENT INITIATIVES

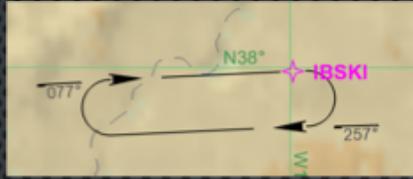
TRAFFIC MANAGEMENT INITIATIVES

- DURING PEAK TRAVEL DAYS, FAA ATCSCC (COMMAND CENTER) WILL IMPLEMENT **T**RAFFIC **M**ANAGEMENT **I**NITIATIVES (TMI'S) TO MANAGE THE FLOW OF INBOUND IFR TRAFFIC TO ASPEN (AND SURROUNDING AIRPORTS INCLUDING EAGLE)
 - THESE INCLUDE GROUND STOPS (GS), GROUND DELAY PROGRAMS (GDP), AND AIRSPACE FLOW PROGRAMS (AFP)
 - SEE FAA AND NBAA RESOURCES FOR MORE INFO
 - [HTTPS://WWW.NBAA.ORG/OPS/AIRSPACE/ISSUES/SKI-COUNTRY/](https://www.nbaa.org/ops/airspace/issues/ski-country/)
 - FAA WILL PUBLISH ADVISORIES WHEN “**SKI COUNTRY**” ROUTES ARE REQUIRED TO ASE, EGE, AND RIL
 - OPERATORS **MUST** FILE THESE REQUIRED ROUTES DURING THE EFFECTIVE DATES/TIMES
 - POP-UP ARRIVALS TO ASPEN/EAGLE WILL NOT BE PERMITTED IF FLOW PROGRAMS ARE IN EFFECT
 - AIRCRAFT WILL TYPICALLY BE ROUTED OVER EITHER **SINSY** & **LOYYD** (SW) OR **KANON** & **HAREI** (SE) ARRIVAL GATES
 - FILE A FLIGHT PLAN AS EARLY AS POSSIBLE IN ADVANCE OF A TRIP TO AVOID SIGNIFICANT DELAYS (MOST PEAK TRAFFIC ARRIVES ASPEN BETWEEN 10 AM AND 5 PM LOCAL TIME)
 - HOURLY ARRIVAL RATE IS TYPICALLY 8-10 AIRCRAFT PER HOUR WHEN IFR; 14-16 WHEN VFR

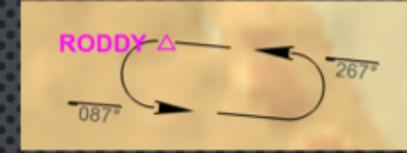
Aspen



COMMON HOLDING FIXES & PUBLISHED HOLDS

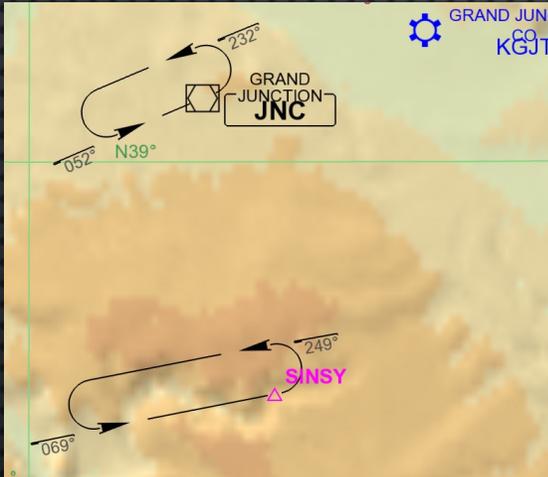


IBSKI - 077° Inbound, RT, 9NM Legs

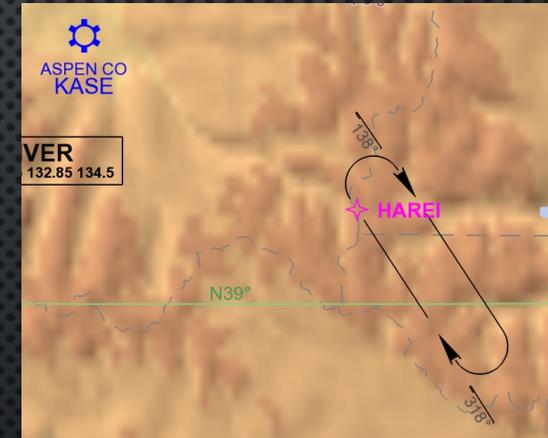
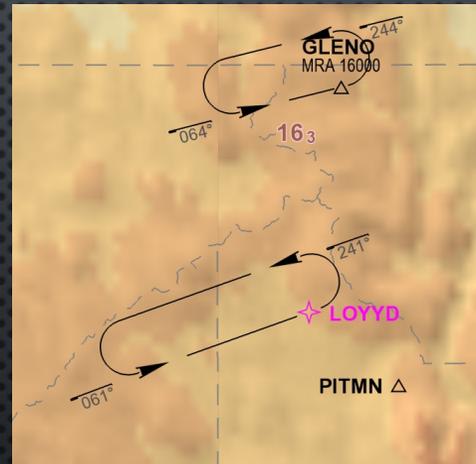


RODDY - 267° Inbound, LT, 1:30 Legs

LOYYD - 061° Inbound, LT, 9NM Legs



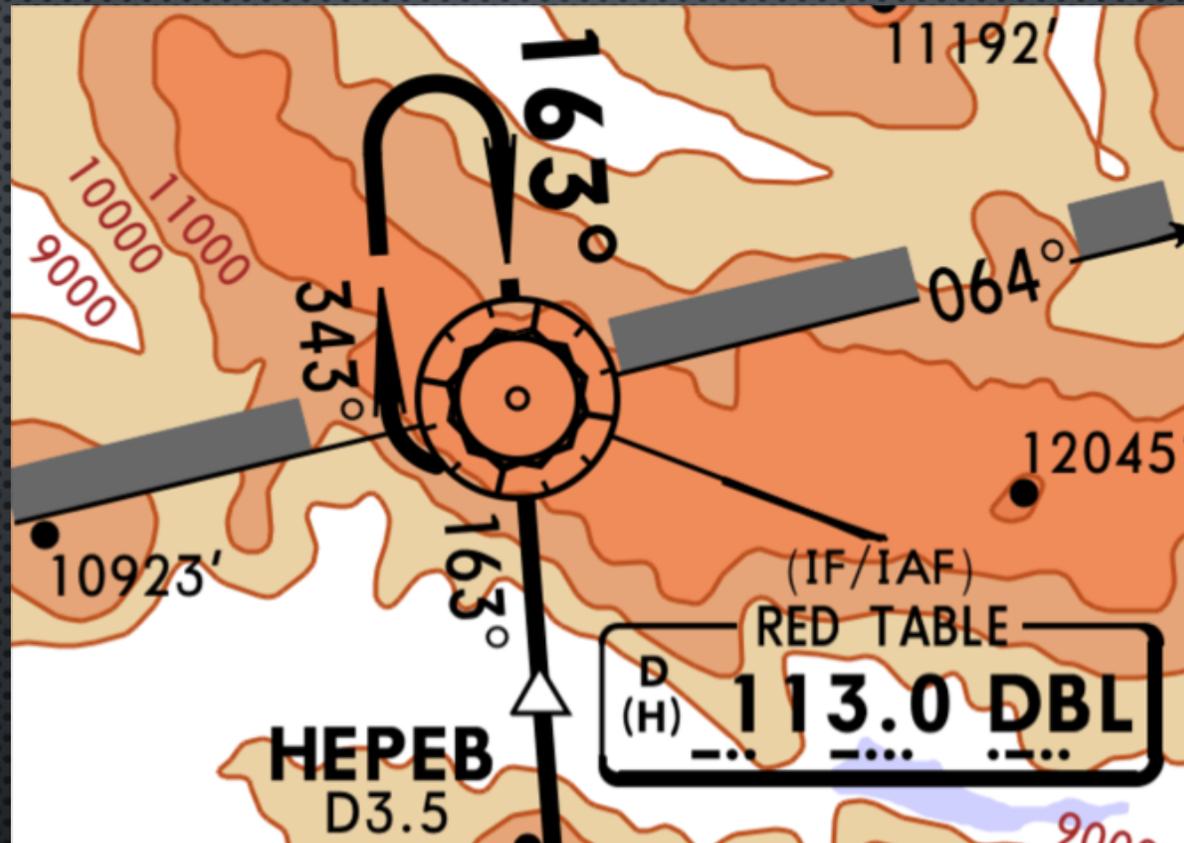
SINSY - 069° Inbound, LT, 10NM Legs



HAREI - 318° Inbound, RT, 9NM Legs

Published holds outside ASE Airspace are located on the HI Enroute Chart
(Use the Search function on the Enroute/Map page if using JeppFD)

"HOLD NORTHWEST OF RED TABLE VOR ON THE 343 DEGREE RADIAL, 7 MILE LEGS, RIGHT TURNS."



As traffic permits, Denver ARTCC (ZDV) will release aircraft from enroute holds outside ASE Approach Airspace. Upon entering ASE Approach Airspace, aircraft may be held again (closer to the airport) for traffic volume and sequencing at DBL VOR/DME as depicted on the 343° radial, 7NM legs (to remain within ASE Airspace). ASE Approach will typically hold up to 4 aircraft at a time over DBL at 17,000', FL180 (when useable), FL190, and FL210.

NEARBY DIVERSION/ALTERNATE AIRPORTS



Rifle

KEGE
SXW (109.2)
91

KRIL (105.6)

Eagle/Vail
DBL (113)

Grand Junction

JNC (112.4)
74
KGJT

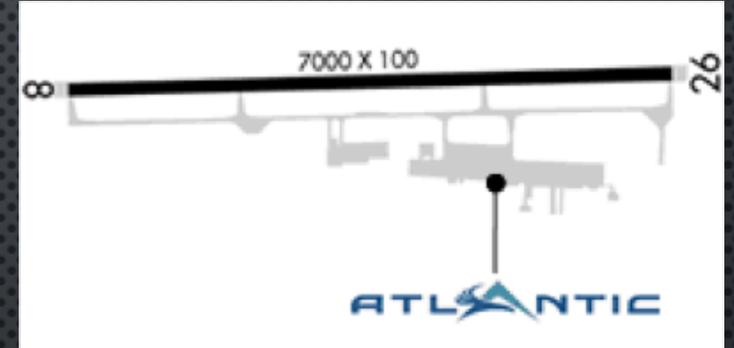
KASE
103

KLXV

Aspen

DIVERSION/ALTERNATE AIRPORTS

- KRIL (RIFLE) – GARFIELD CO
 - RWY 8/26, 7000'x100'
 - ILS 26, GPS/LPV 26, RNAV/GPS 8, RNP TO RWYS 8/26
 - HIGH MINIMUMS ON ILS (1263 – 4) & LPV (763 – 2 ¼)
 - RUNWAY 26 ILS/LPV VPA is 3.6°
 - NON-STANDARD ALTERNATE MINIMA, VERIFY ON JEPPESEN 10-9 CHART
 - IFR DEPARTURE FROM RUNWAY 26 REQUIRES **RNAV 1** CAPABILITY
 - GOOD SERVICES, HANGAR, ETC.
 - NO CONTROL TOWER, ZDV TRANSMITTER 134.95 USABLE ON THE GROUND FOR IFR RELEASES
 - SIGNIFICANTLY LESS TERRAIN IMMEDIATELY SURROUNDING AIRPORT THAN ASE/EGE
 - APPROXIMATELY 1+30 DRIVE FROM RIL TO DOWNTOWN ASPEN

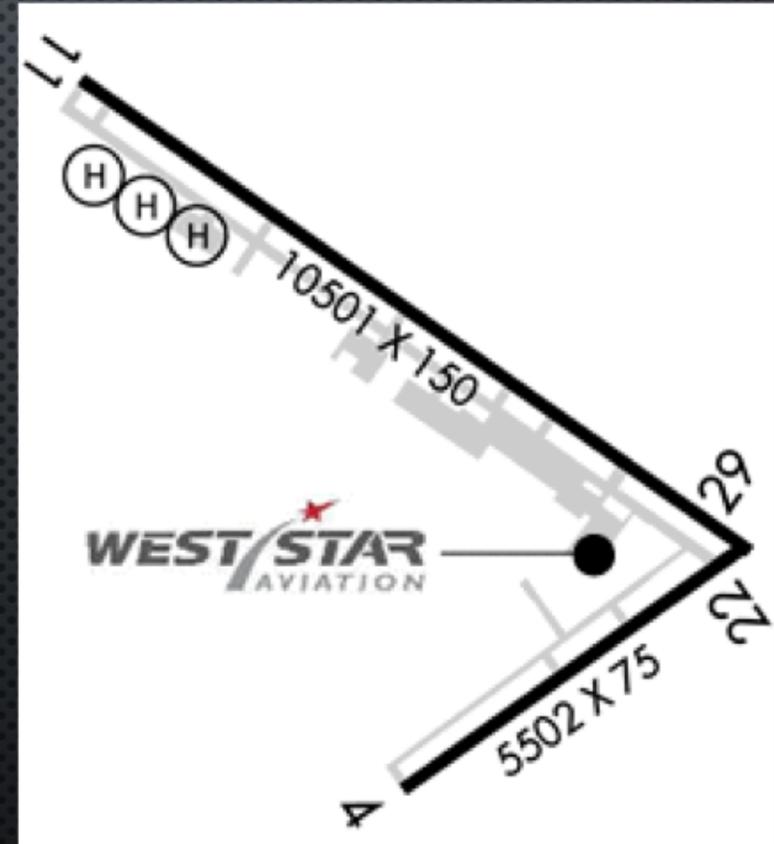


- KEGE (EAGLE/VAIL) – EAGLE CO
 - RWY 7/25, 9000'x150'
 - LDA/DME RWY 25 (W/ GLIDESLOPE)
 - LDA W/ GS HAS A 4.3 NM "FLY VISUAL" SEGMENT – SEE AIM 5-4-5(L)
 - HIGH MINIMUMS ON LDA/GS, (1790 – 3; 5 SM AT NIGHT)
 - NON-STANDARD ALTERNATE MINIMA, VERIFY ON JEPPESEN 10-9 CHART
 - GOOD SERVICES, HAS AIRLINE SERVICE, LIMITED HANGAR DURING PEAK TIMES
 - APPROXIMATELY 1+30 FROM EGE TO DOWNTOWN ASPEN, HOWEVER DRIVE CAN BE SIGNIFICANTLY LONGER (OR SOMETIMES IMPOSSIBLE) IN WINTER WEATHER IF GLENWOOD CANYON ON I-70 IS RESTRICTED OR CLOSED



DIVERSION/ALTERNATE AIRPORTS

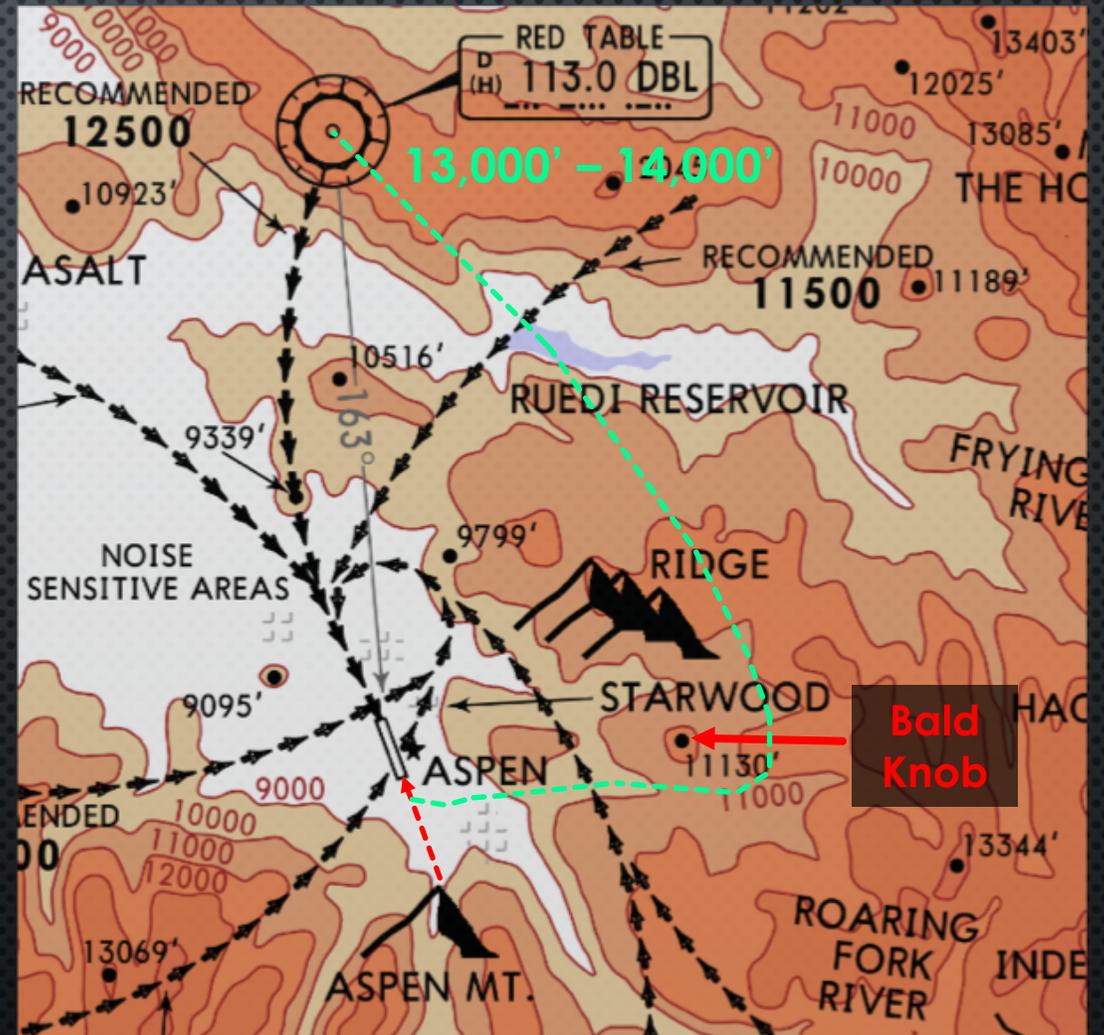
- KGJT (GRAND JUNCTION)
 - RWY 11/29, 10501'x150'
 - ILS 11, GPS/LPV 11, RNP 11, LDA/DME 29, RNAV/GPS 29
 - GOOD SERVICES, HANGAR, MAINTENANCE (WESTSTAR SUPPORTS ALL MAJOR TURBINE/JET AIRCRAFT TYPES)
 - AIRLINE SERVICE, DISTANT TERRAIN
 - APPROXIMATELY 2+15 TO 2+30 DRIVE FROM GJT TO DOWNTOWN ASPEN



OPERATIONAL TECHNIQUES & CONSIDERATIONS AT ASPEN AIRPORT

VISUAL CIRCLE TO RUNWAY 33

- IF TAILWIND COMPONENT EXCEEDS 10 KNOTS FOR RUNWAY 15, RUNWAY 33 MAY BE CONSIDERED FOR LANDING (NOT RECOMMENDED IF UNFAMILIAR, CONSIDER DIVERTING TO AN ALTERNATE AIRPORT)
- IF FAMILIAR AND TRAINED, IN AN APPROPRIATE AIRCRAFT TYPE, THERE ARE GENERALLY TWO ACCEPTED METHODS OF CIRCLING TO RUNWAY 33 IN VFR CONDITIONS:
 - CLOSE-IN RIGHT DOWNWIND TO RUNWAY 33 AT APPROXIMATELY 9,500' – 10,000'
 - "HUNTER CREEK ARRIVAL" - PROCEED SOUTHEAST OF DBL VOR OVER RUEDI RESERVOIR, THEN EAST OF BALD KNOB, TURN WESTBOUND, AND FINALLY DESCEND THROUGH HUNTER CREEK FOR A MODIFIED RIGHT BASE TO FINAL ENTRY FOR RUNWAY 33 (DEPICTED RIGHT)
 - USE CAUTION FOR PARAGLIDER ACTIVITY NEAR ASPEN MOUNTAIN WHEN LANDING RUNWAY 33





Town of Aspen
(Noise Sensitive)

Hunter Creek

Visual circle to Runway 33 via Hunter Creek



Highway 82



33

Highway 82

Buttermilk Ski
Area Parking Lot

BALKED LANDING (EXTRACTION MANEUVER)

- OPERATORS SHOULD CONSIDER THE DEVELOPMENT AND POTENTIAL NEED TO USE A BALKED LANDING (“EXTRACTION MANEUVER”) PROCEDURE FOR RUNWAY 15 DUE TO RAPIDLY RISING TERRAIN TO THE SOUTH OF THE AIRPORT, RESTRICTING A NORMAL GO-AROUND PROFILE
- THIS PROCEDURE IS USED IF A BALKED LANDING/GO-AROUND IS INITIATED PAST THE MISSED APPROACH POINT (CEYAG)
- TYPICALLY, A BALKED LANDING PROCEDURE AT ASPEN WILL REQUIRE A CLIMB STRAIGHT AHEAD OVER RUNWAY 15, THEN AT A SHORT DISTANCE PAST THE RUNWAY, BEGIN A CLIMBING LEFT TURN TO THE NORTHWEST TO JOIN THE MISSED APPROACH I-PKN BACKCOURSE (EXACT PROCEDURE, AIRSPEED, BANK ANGLE, AND CONFIGURATION WILL VARY DEPENDING ON AIRCRAFT TYPE)
- FLIGHT CREWS SHOULD ADVISE ASE ATCT WHEN EXECUTING A BALKED LANDING AND INCLUDE A BRIEF DESCRIPTION OF THE FLIGHT PATH TO BE FLOWN TO FACILITATE TRAFFIC SEPARATION
 - “ASPEN TOWER, ABC123 EXECUTING A BALKED LANDING, PROCEEDING STRAIGHT AHEAD, THEN MAKING A CLIMBING LEFT TURN TO THE NORTHWEST ON HEADING 280”

-- ASE - KASE --

ELEVATION 7837

LANDING PERFORMANCE

CESSNA CITATION CJ4

FJ44-4A ENG

525CFM-05

-- ASE - KASE --

ASPEN, CO

ASPEN-PITKEN CO/SARDY

BALKED LANDING PROCEDURE:

- INITIATE THE BALKED LANDING AT OR PRIOR TO 50 FT ABOVE LANDING THRESHOLD.

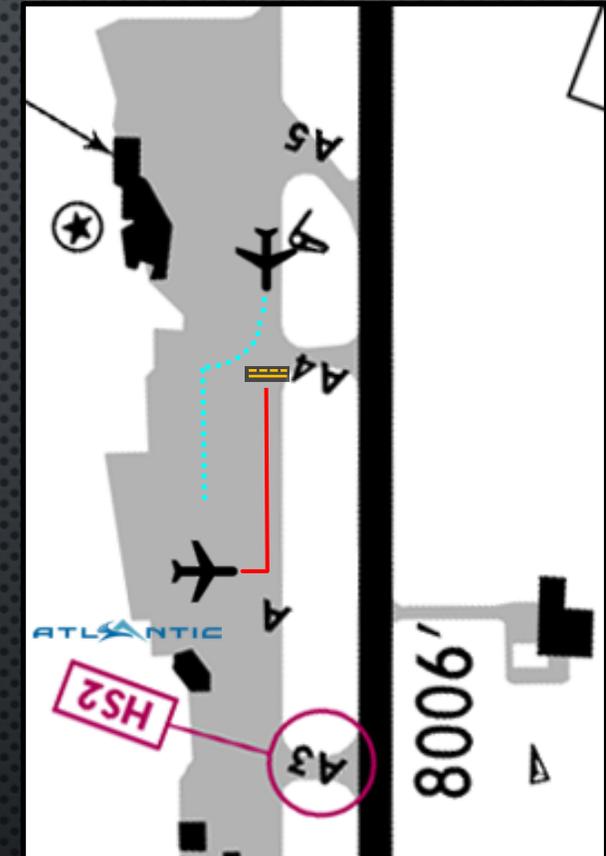
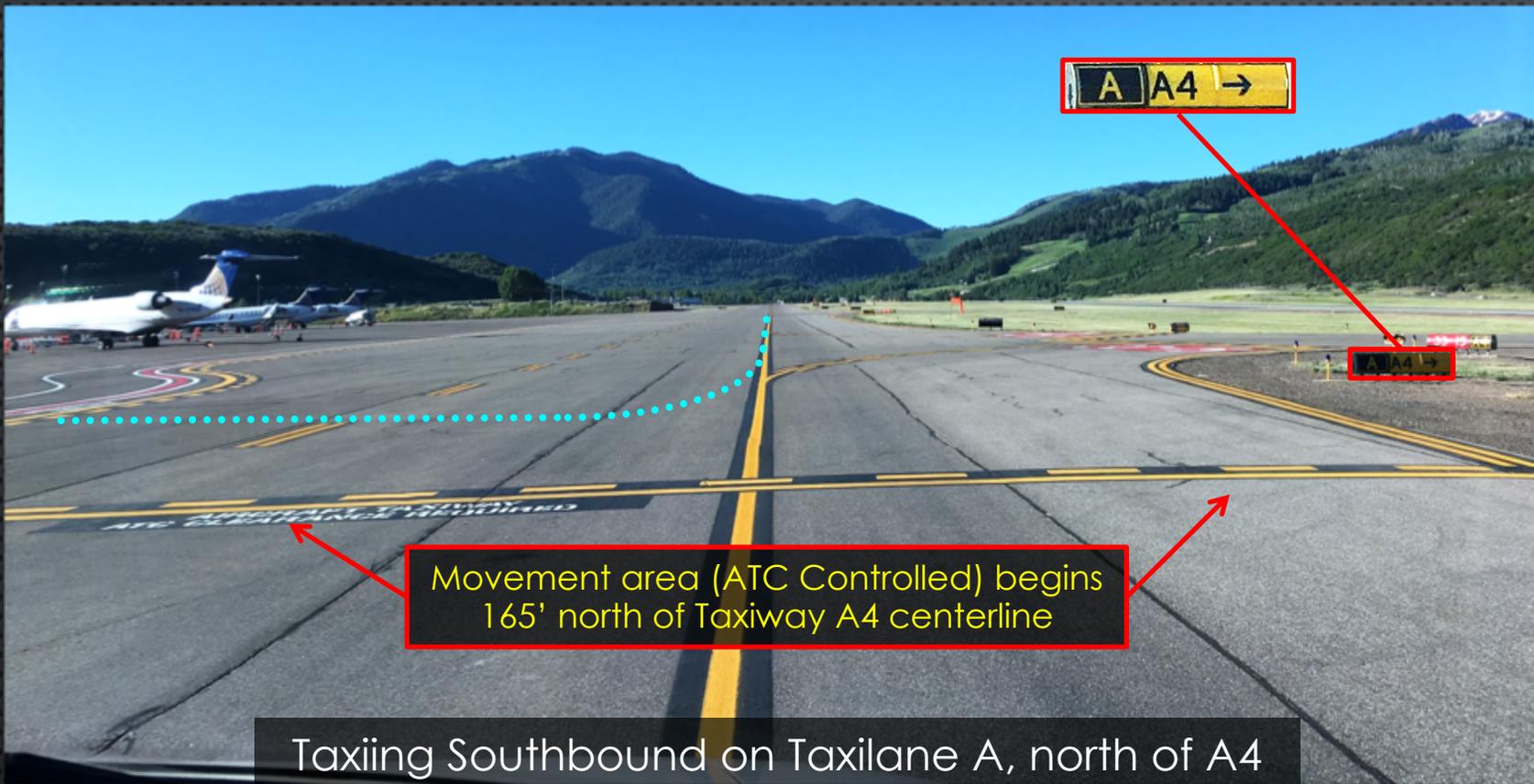


USE OF PULSE LIGHTS



Operators are encouraged to use **PULSE** lights, if equipped, until Triangle Mountain (approximately 5 NM final to Runway 15) to assist the Tower in visually acquiring arrival aircraft and the efficient separation of opposite direction departures/arrivals.

TAXIING TO RUNWAY 33

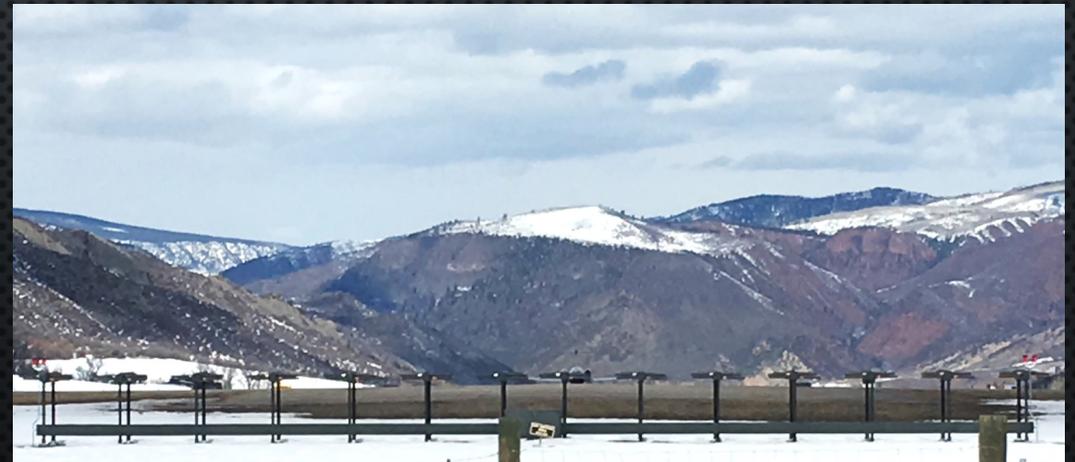


Aircraft are routinely cleared to taxi to Runway 33 via Alpha, to hold short of **A4** taxiway. This allows inbound aircraft to clear the runway and taxi to the terminal or Atlantic Aviation ramp.

Taxiway A becomes **Taxi-lane** A (non-movement area) 165' north of the Taxiway A4 centerline. **Taxi-lane** A, A1, A2, A3, and all GA/SIDA ramps are not controlled by ASE ATCT. Use caution.

FUN FACTS

- THE **I-ASE LOC/DME** ANTENNA, LOCATED JUST SOUTH OF THE APPROACH END OF RUNWAY 33, IS ONE OF THE ONLY PAINTED FOREST GREEN INSTEAD OF AVIATION ORANGE TO BLEND IN WITH THE SURROUNDINGS
- THE I-PKN LOCALIZER BACKCOURSE, LOCATED ON TOP OF ASPEN MOUNTAIN, IS ALSO PAINTED THE SAME COLOR

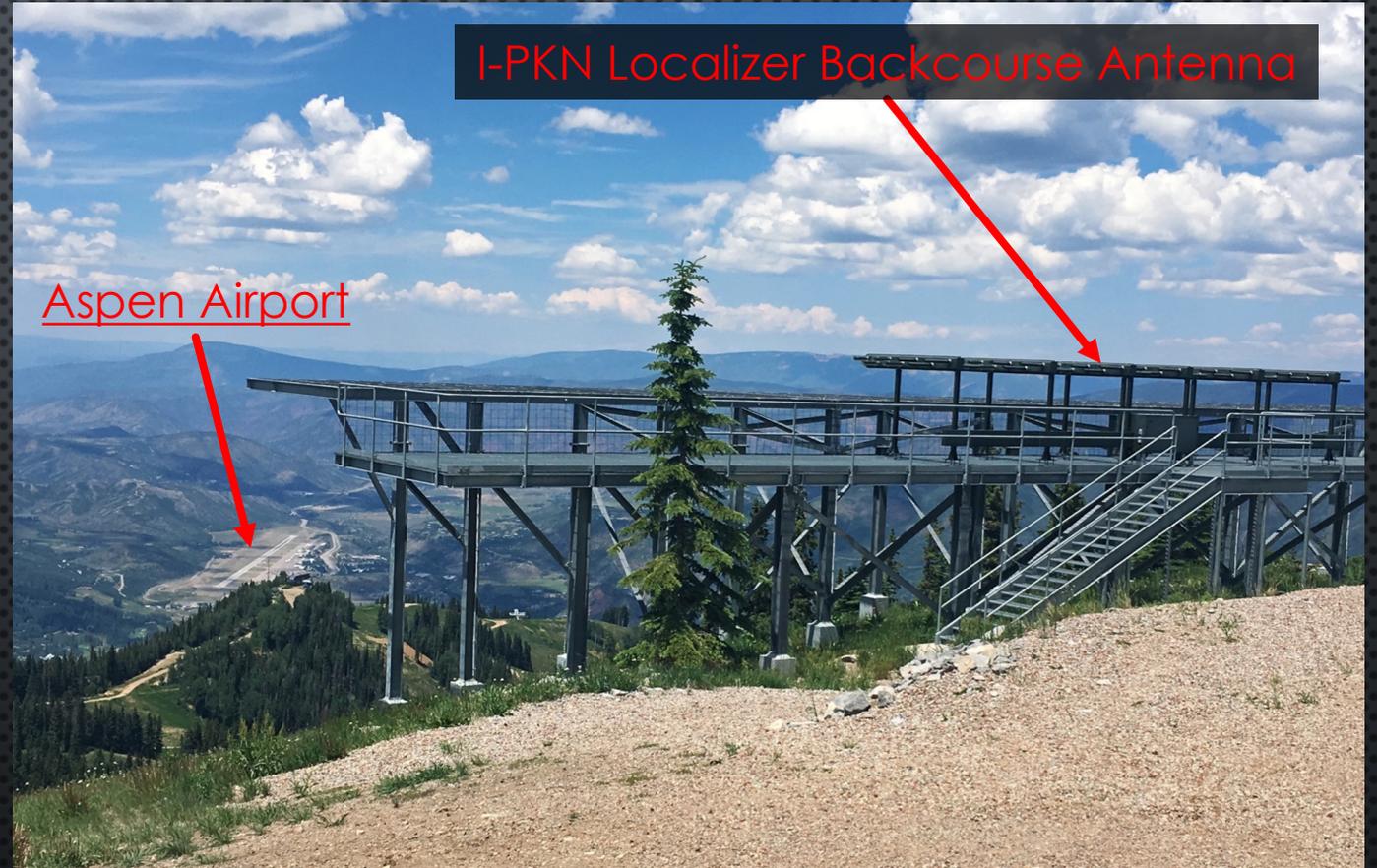


FUN FACTS

- I-PKN LDA (BACKCOURSE) IS INSTALLED ON TOP OF ASPEN MOUNTAIN AND TRANSMITS ITS 303° COURSE FROM 11,181'



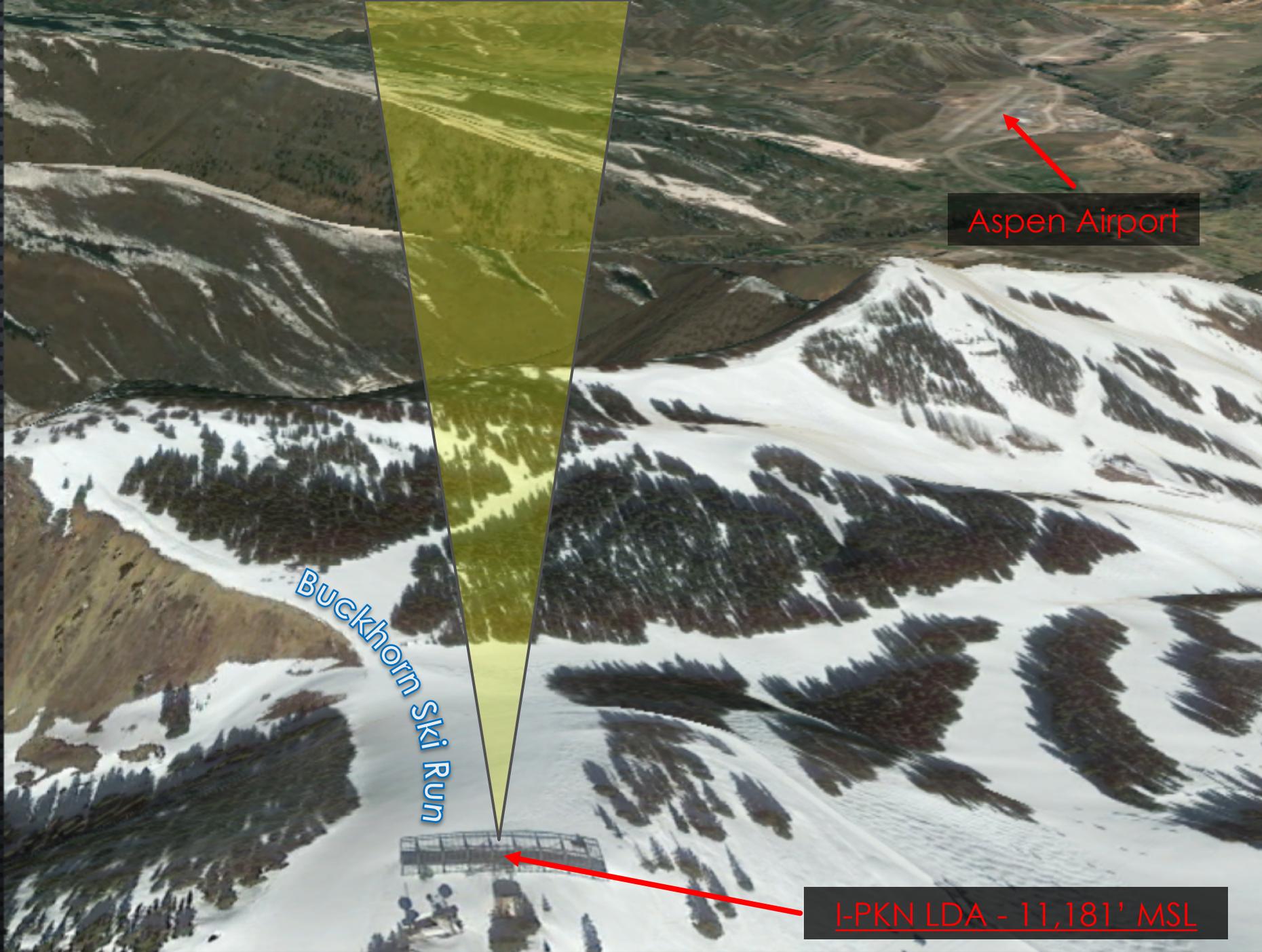
Aspen Airport



I-PKN Localizer Backcourse Antenna

Aspen Airport

I-PKN LDA is certified for an Expanded Service Volume (ESV) of 22.0 NM from the antenna up to 17,500' MSL



Aspen Airport

Buckhorn Ski Run

I-PKN LDA - 11,181' MSL



Questions?
AspenAirport.Training@gmail.com