

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
 Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT</u> LYONS-RICE COUNTY MUNI	<u>AIRPORT ID</u> KLYO	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 35	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>CITY</u> LYONS	<u>STATE</u> KS
<u>AIRPORT ELEVATION</u> 1692	<u>TDZE</u> 1689	<u>SUPERSEDED</u> RNAV (GPS) RWY 35L	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 09/15/2016	<u>MAG VAR</u> 6E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2000

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
DISKS		ATZOS		TF	FB	2.00	115.14	29.15	3500
GUTER		IDEZY		TF	FB	2.00	229.86	17.63	3400
IDEZY	IAF	OCISE	NOPT	TF	FB	1.00	263.61	8.00	3400
HUT VOR/DME	IAF	OCISE	NOPT	TF	FB	1.00	296.37	16.38	3400
ATZOS	IAF	OCISE	NOPT	TF	FB	1.00	063.44	6.00	3400
OCISE	IF/IAF	EBAXY		TF	FB	1.00	353.51	6.50	3300
EBAXY	FAF	SIRGE/1.80 NM TO RW35		TF	FB	0.30	353.51	3.17	
SIRGE/1.80 NM TO RW35		RW35	MAP	TF	FO	0.30	353.51	1.80	
RW35	MAP	2016 MSL		CA			353.51		
2016 MSL		PAPDY		DF	FO	1.00			3400

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW35

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3400 DIRECT PAPDY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF (IAF)											
2.	HOLD S OCISE, RT, 353.51 INBOUND, 3400 FT. IN LIEU OF PT (IAF), MAX 6000.														
3. FAC:	353.51	FAF: EBAXY	DIST FAF TO MAP: 4.97	DIST FAF TO THLD: 4.97											
4. MIN ALT:	OCISE 3400, EBAXY 3300, SIRGE/1.80 NM TO RW35 2280*														
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	327 HAT: 0.94	GS ANT:										
6. MIN GP INCPT: 3300	GP ALT AT FAF : EBAXY 3300			OM:	MM:	IM:									
7. GP ANGLE: 3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 45.0												
8. MSA FROM:	RW35 4000														

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING HUTCHINSON ALTIMETER SETTING.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18C OR ABOVE 54C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON HUT VOR/DME AIRWAY RADIALS 230 CW 021.
CHART NOTE: CIRCLING RWY 17 NA AT NIGHT.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HUTCHINSON ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.15 NM TO RW35*
*LNAV ONLY
WAAS CHANNEL #42639
REFERENCE PATH ID: W35A
CHART FAS OBST: 1741 TREE 381955N/0981355W.
HOLD N, RT, 173.51 INBOUND
LTP HAE: 482.5 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	2016	1 1/8	327	2016	1 1/8	327		NA			NA				
LNAV/VNAV DA	2016	1 1/8	327	2016	1 1/8	327		NA			NA				
LNAV MDA	2080	1	391	2080	1	391		NA			NA				
CIRCLING	2260	1	568	2260	1	568		NA			NA				



CHANGES - REASONS

- 1. ALL REFERENCES TO RWY 35L CHANGED TO RWY 35 - 17R/35L ALREADY RENUMBERED DUE TO TOTAL REMOVAL OF TURF RWYS 17L/35R AND 14/32, VERIFIED WITH AIRPORT MANAGER AND SATELLITE IMAGERY.
- 2. DELETED 'CHART NOTE: CIRCLING NA TO RWYS 14-32 AND 17L-35R' - THESE TURF RUNWAYS HAVE ALREADY BEEN TOTALLY REMOVED (VERIFIED WITH AIRPORT MANAGER AND SATELLITE IMAGERY).
- 3. REPLACED 'CHART NOTE: DME/DME RNP-0.3 NA' WITH 'PBN REQUIREMENTS NOTE: RNP APCH' - PER UPDATED CRITERIA IN 8260.19H.
- 4. ADDED 'CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})' - COMMISSIONED PAPI'S ADDED TO RWY PER AIRNAV DATA, VERIFIED BY APT MGR.
- 5. FAS DATA: CRC REMAINDER CHANGED FROM 5498D93D TO D79D5C26 - RUNWAY DATA BLOCK CHANGED FROM RW35L TO RW35.
- 6. ADDED 'WHEN LOCAL ALTIMETER SETTING NOT RECEIVED...' BEFORE CHART NOTE 'USE HUTCHINSON ALTIMETER SETTING' - AIRPORT ADDED LOCAL AWOS, VERIFIED BY LOCAL AIRPORT DATA REP.
- 7. ADDED VDP - AIRPORT ADDED LOCAL AWOS (REMOTE ALTIMETER WAS THE ONLY THING PREVIOUSLY PREVENTING VDP PUBLICATION).
- 8. ADDED CHART NOTE 'BARO-VNAV AND VDP NA WHEN USING HUTCHINSON ALTIMETER SETTING' - VDP PUBLISHED DUE TO ADDITION OF LOCAL AWOS.
- 9. CHANGED CHART NOTE 'NIGHT LANDING: RWY 17 NA' TO 'CIRCLING RWY 17 NA AT NIGHT' - 8260.19H CRITERIA VERBIAGE.
- 10. ALTERNATE MINS CHANGED FROM 'NA' TO 'STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE' - PRIMARY LOCAL ALTIMETER ADDED.
- 11. CHANGED 'CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON HUT VOR/DME AIRWAY RADIALS 225 CW 257' TO '...230 CW 021' - HUT MAGVAR PREVIOUSLY UPDATED.
- 12. CHANGED CHART NOTE FROM 'BARO-VNAV NA' TO 'FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18C OR ABOVE 54C' - PRIMARY LOCAL ALTIMETER ADDED.



<u>AIRPORT</u> LYONS-RICE COUNTY MUNI	<u>AIRPORT ID</u> KLYO	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 35	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>CITY</u> LYONS	<u>STATE</u> KS
<u>COORDINATED WITH:</u>					
A4A <input type="checkbox"/> ALPA <input checked="" type="checkbox"/> AOPA <input checked="" type="checkbox"/> APA <input type="checkbox"/> HAI <input type="checkbox"/> NBAA <input checked="" type="checkbox"/> OTHER: ZKC, AMGR					
<u>FLIGHT CHECKED BY</u>		<u>OFFICE</u>	<u>DATE</u>		
<u>DEVELOPED BY</u>		<u>OFFICE</u>	<u>DATE</u>		
LUCAS MCCLOUD		AJV-5422	06/04/2018		
<u>APPROVED BY</u>		<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>	
JULIE MORGAN		AJV-5420		MANAGER	



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLYO
RUNWAY	RW35
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W35A
LTP/FTP LATITUDE	382003.1565N
LTP/FTP LONGITUDE	0981342.5860W
LTP/FTP ELLIPSOIDAL HEIGHT	+04825
FPAP LATITUDE	382132.3470N
FPAP LONGITUDE	0981343.5555W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1408
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	D79D5C26

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+05097
FPAP ORTHOMETRIC HEIGHT	+05097



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
LYONS-RICE COUNTY MUNI	KLYO	RNAV (GPS) RWY 35	ORIG-A	LYONS	KS	1692	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM
DISKS

TO
ATZOS

RNP

DISTANCE

PAT

MAP

HAT

HMAS

29.15

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
1.TOWER (20-001297)	382425.00N/0985252.00W	2281	500	50	5D	1000					3300
2.TERRAIN	381939.00N/0985624.00W	1985 (2000)								AS1500	3500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:

FEEDER

FROM
GUTER

TO
IDEZY

RNP

DISTANCE

PAT

MAP

HAT

HMAS

17.63

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
3.TOWER (20-001234)	381547.00N/0975409.00W	2242	500	50	5D	1000				AT158	3400
4.TERRAIN	381000.00N/0975712.00W	1733 (1700)								AS1500	3200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:



REMARKS:

REMARKS:

MISSED APPROACH : LNAV/VNAV

FROM

DA

TO

PAPDY

RNP	DISTANCE	PAT	MAP	HAT	HMAS						
						1791					
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3400
14.TOWER (20-020863)	383123.12N/0981448.40W	2079	20	3	1A	1000					3100
15.TERRAIN	383306.00N/0981212.00W	1802 (1800)								AS1500	3300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:

MISSED APPROACH : LNAV

FROM

RW35

TO

PAPDY

RNP	DISTANCE	PAT	MAP	HAT	HMAS						
						1903					
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3400
14.TOWER (20-020863)	383123.12N/0981448.40W	2079	20	3	1A	1000					3100
15.TERRAIN	383306.00N/0981212.00W	1802 (1800)								AS1500	3300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT
REMARKS:



APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW35 - MIRL, REIL (PCL), PAPI-2L (PCL)	NPI-G	

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
3.00	1672.4	45.0			3.00	40.0

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<div>X</div>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<div>X</div>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
-18C (0F)	+54C (+130F)	-18C	+11.65C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 977 HIGH TEMP 1140.

"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	CIRCLING RW17
20:1	
1744 POLE (KLYOT000028) 382052.79N/0981346.19W (31.05)	1740 POLE (KLYOT000027) 382052.79N/0981345.88W (27.06)
1741 POLE (KLYOT000030) 382054.91N/0981346.20W (17.32)	1736 POLE (KLYOT000031) 382057.00N/0981346.20W (1.75)

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSUMED VEGETATION HEIGHT = 50 FT.

REMOTE ALTIMETER ADJUSTMENT RETAINED IN FINAL SEGMENTS DUE TO ABBREVIATED AMDT (WILL NOT LOWER MINS WITH THIS AMDT).

SURFACES:
LPV = 34:1
LNAV/VNAV = 23.40:1
ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.09
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	359.51
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1690
DISTANCE FROM	THLD	TO 1500FT POINT	4.77
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	359.51
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1690

THRESHOLD
COORDINATES
(IF STR-IN)382003.16N/0981342.59W

ARP COORDINATES382024.90N/0981342.83W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP RUNWAY 35 DISTANCE 0.51 NM

FAF
COORDINATES381504.69N/0981339.35W

FIX NAME
COORDINATES

REMARKS
NO ADDITIONAL AIRSPACE REQUIRED.



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
LYONS-RICE COUNTY MUNI	KLYO	RNAV (GPS) RWY 35	ORIG-A	LYONS	KS	1692	RNAV

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
LUCAS MCCLOUD	AJV-5422	06/04/2018	AERONAUTICAL INFORMATION SPECIALIST

