

**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.

<b><u>AIRPORT</u></b> LYONS-RICE COUNTY MUNI	<b><u>AIRPORT ID</u></b> KLYO	<b><u>PROCEDURE NAME</u></b> RNAV (GPS) RWY 17	<b><u>ORIGINAL/AMENDMENT</u></b> ORIG-A	<b><u>CITY</u></b> LYONS	<b><u>STATE</u></b> KS
<b><u>AIRPORT ELEVATION</u></b> 1692	<b><u>TDZE</u></b> 1692	<b><u>SUPERSEDED</u></b> RNAV (GPS) RWY 17R	<b><u>ORIGINAL/AMENDMENT</u></b> ORIG	<b><u>DATED</u></b> 09/15/2016	<b><u>MAG VAR</u></b> 6E
<b><u>FACILITY</u></b> RNAV	<b><u>COORDINATES OF FACILITIES</u></b>	<b><u>ACTUAL EFFECTIVE DATE</u></b>	<b><u>REQUIRED EFFECTIVE DATE</u></b> ROUTINE	<b><u>CANCEL/SUSPEND</u></b>	<b><u>EPOCH YEAR</u></b> 2000

**TERMINAL ROUTES**

<b><u>FROM</u></b>	<b><u>FIX TYPE</u></b>	<b><u>TO</u></b>	<b><u>FIX TYPE</u></b>	<b><u>LEG TYPE</u></b>	<b><u>FO/FB</u></b>	<b><u>RNP</u></b>	<b><u>COURSE</u></b>	<b><u>DISTANCE</u></b>	<b><u>ALTITUDE</u></b>
HUT VOR/DME		PAPDY		TF	FO	2.00	330.67	35.25	3400
DISKS		JUTMA		TF	FB	2.00	056.76	27.58	3900
JUTMA	IAF	PAPDY	NOPT	TF	FB	1.00	103.44	6.00	3400
PAPDY	IF/IAF	TOZGO		TF	FB	1.00	173.51	6.50	3300
TOZGO	FAF	DAVGE/1.70 NM TO RW17		TF	FB	0.30	173.51	3.21	
DAVGE/1.70 NM TO RW17		RW17	MAP	TF	FO	0.30	173.51	1.70	
RW17	MAP	2080 MSL		CA			173.51		
2080 MSL		OCISE		DF	FO	1.00			3400

**MISSED APPROACH**

**MAP:**

LP: RW17  
 LNAV: RW17

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3400 DIRECT OCISE AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. HOLD N PAPDY, RT, 173.51 INBOUND, 3400 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 173.51FAF: TOZGODIST FAF TO MAP: 4.91DIST FAF TO THLD: 4.91

4. MIN ALT: PAPDY 3400, TOZGO 3300, DAVGE/1.70 NM TO RW17 2260

5. DIST TO THLD FROM OM:MM:IM:150 HAT:GS ANT:

6. MIN GP INCPT:GP ALT AT FAF :OM:MM:IM:

7. GP ANGLE:34:1: IS NOT CLEAR20:1: IS NOT CLEARTCH:

8. MSA FROM: RW17 4000

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: RWY 17 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.  
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON HUT VOR/DME AIRWAY RADIALS 245 CW 057.  
CHART NOTE: STRAIGHT-IN/CIRCLING RWY 17 NA AT NIGHT.  
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HUTCHINSON ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.  
TOZGO TO RW17: 3.00/45.  
WAAS CHANNEL #99339  
REFERENCE PATH ID: W17A  
CHART FAS OBST: 1747 TRANSMISSION LINE 382105N/0981346W, 1779 TREE 382227N/0981259W.  
1950 AAO 382553N/0981510W.  
HOLD S, RT, 353.51 INBOUND  
LTP HAE: 488.6 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
LP MDA	2080	1	388	2080	1	388		NA			NA				
LNAV MDA	2120	1	428	2120	1	428		NA			NA				
CIRCLING	2260	1	568	2260	1	568		NA			NA				



CHANGES - REASONS

- 1. ALL REFERENCES TO RWY 17R CHANGED TO RWY 17 - 17R/35L ALREADY RENUMBERED DUE TO TOTAL REMOVAL OF TURF RWYS 17L/35R AND 14/32, VERIFIED WITH AIRPORT MANAGER AND SATELLITE IMAGERY.
- 2. CHART FAS OBST CHANGED FROM '1747 ANT 382047N/0981336W' TO '1747 TRANSMISSION LINE 382105N/0981346W' - NEW LP SDF-MAP CONTROLLING OBS PER IPDS BUILD/OBS DB.
- 3. 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).
- 4. REPLACED 'CHART NOTE: DME/DME RNP-0.3 NA' WITH 'PBN REQUIREMENTS NOTE: RNP APCH' - PER UPDATED CRITERIA IN 8260.19H.
- 5. ADDED 'RWY 17' TO 'CHART NOTE: RWY 17 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED' - PER 8260.19H UPDATED CRITERIA.
- 6. ADDED 'CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})' - COMMISSIONED PAPI'S ADDED TO RWY PER AIRNAV DATA, VERIFIED BY APT MGR.
- 7. FAS DATA: CRC REMAINDER CHANGED FROM 0AF95EE3 TO 8B0522EA - RUNWAY DATA BLOCK CHANGED FROM RW17R TO RW17.
- 8. ADDED 'WHEN LOCAL ALTIMETER SETTING NOT RECEIVED...' BEFORE CHART NOTE 'USE HUTCHINSON ALTIMETER SETTING' - AIRPORT ADDED LOCAL AWOS, VERIFIED BY LOCAL AIRPORT DATA REP.
- 9. CHANGED CHART NOTE 'NIGHT LANDING: RWY 17 NA' TO 'STRAIGHT-IN/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 240 CW 052' TO '...245 CW 057' - HUT MAGVAR PREVIOUSLY UPDATED.



<u>AIRPORT</u> LYONS-RICE COUNTY MUNI	<u>AIRPORT ID</u> KLYO	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 17	<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"/> <u>OTHER:</u> ZKC, AMGR					
<u>FLIGHT CHECKED BY</u>		<u>OFFICE</u>	<u>DATE</u>		
<u>DEVELOPED BY</u> LUCAS MCCLOUD		<i>Digitally signed by</i> <b>LUCAS MCCLOUD</b> Jun 28, 2018	<u>OFFICE</u> AJV-5422	<u>DATE</u> 06/04/2018	
<u>APPROVED BY</u> JULIE MORGAN		<u>OFFICE</u> AJV-5420	<u>DATE</u>	<u>TITLE</u> MANAGER	



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLYO
RUNWAY	RW17
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	382046.6515N
LTP/FTP LONGITUDE	0981343.0645W
LTP/FTP ELLIPSOIDAL HEIGHT	+04886
FPAP LATITUDE	381917.4610N
FPAP LONGITUDE	0981342.0960W
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)	0.0
CRC REMAINDER	8B0522EA

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+05157
FPAP ORTHOMETRIC HEIGHT	+05157



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

<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 17	ORIG-A	LYONS	KS	1692	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM TO  
HUT VOR/DME PAPDY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
	35.25										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.TOWER (20-001594)	382142.00N/0980902.00W	2235	500	50	5D	1000				AT165	3400
2.TERRAIN	383330.00N/0981215.00W	1808 (1800)								AS1500	3300

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT  
REMARKS:

FEEDER

FROM TO  
DISKS JUTMA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
	27.58										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
3.TOWER (20-000043)	382554.00N/0984619.00W	2885	250	50	4D	1000					3900
4.TERRAIN	382451.00N/0985527.00W	1959 (2000)								AS1500	3500

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT  
REMARKS:





DAVGE/1.70 NM TO RW17

HMASMIN ALT

2260

RF CENTER FIX/DISTANCE

## REMARKS:

RW17

HMAS

MIN ALT

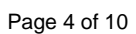
2080

RF CENTER FIX/DISTANCE

## REMARKS:



REMARKS:





MISSED APPROACH : LNAV

FROM

RW17

TO

OCISE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
							1943				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				3400
13.TOWER (20-000677)	381633.00N/0981211.00W	2010	250	50	4D	1000					3100
14.TERRAIN	380921.00N/0981554.00W	1726 (1700)								AS1500	3200

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT  
REMARKS:

CIRCLING ☐ ALL CATS ☒ CAT A ☒ CAT B ☐ CAT C ☐ CAT D ☐ CAT E ☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
15.ELEVATOR (20-029576)	382105.68N/0981209.71W	1.32	568	1871	20	10	1B	300		RA77	2260
CATEGORY B											
15.ELEVATOR (20-029576)	382105.68N/0981209.71W	1.87	568	1871	20	10	1B	300		RA77	2260

CIRCLING REMARKS:

MSA

CENTER	RADIUS
RW17	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TWR (20-000032)	380337.64N/0974549.66W	122	27.9	3000	50	20	2C	1000			4000

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

LPV, AND LNAV/VNAV NOT DEVELOPED DUE TO GQS PENETRATION:  
1737 POLE (KLYOT000032/20-029551) 382059.11N/0981346.20W (1.07)





1737 POLE (KLYOT000032) 382059.11N/0981346.20W (13.95)	1739 POLE (KLYOT000033) 382101.21N/0981346.19W (9.70)
1740 POLE (KLYOT000034) 382103.31N/0981346.20W (4.46)	1746 POLE (KLYOT000039) 382105.41N/0981343.44W (4.26)
1705 RD (N) (KLYOT000024) 382052.17N/0981340.20W (2.72)	1704 RD (N) (KLYOT000025) 382052.17N/0981343.16W (1.66)
1703 RD (N) (KLYOT000026) 382052.19N/0981346.01W (0.54)	1742 POLE (KLYOT000040) 382105.44N/0981346.16W (0.12)

**HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS**

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

**PART C: GENERAL REMARKS:**

VDP NOT ESTABLISHED - 20:1 PENETRATIONS.  
PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
50 FT ASSUMED VEGETATION HEIGHT

REMOTE ALTIMETER ADJUSTMENT RETAINED IN FINAL SEGMENTS DUE TO ABBREVIATED AMDT (WILL NOT LOWER MINS WITH THIS AMDT).  
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	2.91
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	179.51
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1720
DISTANCE FROM	THLD	TO 1500FT POINT	4.71
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	179.51
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1720

THRESHOLD  
COORDINATES  
(IF STR-IN)382046.65N/0981343.06W

ARP COORDINATES382024.90N/0981342.83W

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

FAF  
COORDINATES382541.45N/0981346.27W

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 17	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

