

**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 ID</u> KCGS	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 33	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> COLLEGE PARK	<u>STATE</u> MD	
<u>AIRPORT ELEVATION</u> 49	<u>TDZE</u> 49	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u> NONE	<u>DATED</u>	<u>MAG VAR</u> 11W
<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

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 239/30 CW 059/30	NOPT	JAXXS	IF/IAF	2100
2. 059/30 CW 239/30		059/12 CW 239/12		3100
3. 059/12 CW 239/12		JAXXS	IF/IAF	2100

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
JAXXS	IF/IAF	ERECA		TF	FB	1.00	329.43	5.00	1600
ERECA	FAF	RW33	MAP	TF	FO	0.30	329.39	4.78	
RW33	MAP	449 MSL		CA			329.39		
449 MSL		PINEY		DF	FO	1.00			2200

MISSED APPROACH

MAP:

LP: RW33
 LNAV: RW33

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2200 DIRECT PINEY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



AIRPORT ID
KCGS

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ORIGINAL/AMENDMENT
ORIG

CITY
COLLEGE PARK

STATE
MD

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA OTHER: ZDC, DCA APP, APT MGR

FLIGHT CHECKED BY

OFFICE

DATE

DEVELOPED BY

ALLAN WILL (TIMOTHY JOHNSON)

OFFICE

AJV-A423

DATE

11/16/2022

APPROVED BY

ALLAN WILL

OFFICE

AJV-A423

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCGS
RUNWAY	RW33
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33A
LTP/FTP LATITUDE	385839.9785N
LTP/FTP LONGITUDE	0765508.7030W
LTP/FTP ELLIPSOIDAL HEIGHT	-00203
FPAP LATITUDE	385946.6050N
FPAP LONGITUDE	0765624.6650W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1896
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
CRC REMAINDER	D295B966

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00119
FPAP ORTHOMETRIC HEIGHT	+00119



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

<u>AIRPORT ID</u> KCGS	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 33	<u>AMDT NO.</u> ORIG	<u>CITY</u> COLLEGE PARK	<u>STATE</u> MD	<u>AIRPORT ELEVATION</u> 49	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM 239/30 CW 059/30 **TO** JAXXS

RNP DISTANCE PAT MAP HAT HMAS

<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>
TOWER (24-000957)	384034.69N/0765009.23W	1049	500	125	5E	1000					2100
TERRAIN	384642.00N/0765142.00W	288 (300)								AS1500	1800

COMPUTATIONS

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

SEGMENT REMARKS:

STRAIGHT-IN AREA

FROM 059/30 CW 239/30 **TO** 059/12 CW 239/12

RNP DISTANCE PAT MAP HAT HMAS

<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>
AAO	391657.00N/0771121.00W	1040	164	98	4E	2000					3100
TERRAIN	391906.00N/0770130.00W	698 (700)								AS1500	2200

COMPUTATIONS

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

SEGMENT REMARKS:



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AIRPORT ELEVATION
49

FACILITY
RNAV

STRAIGHT-IN AREA

FROM
059/12 CW 239/12

TO
JAXXS

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (24-000913)	390036.77N/0763631.88W	1049	20	3	1A	1000					2100
TERRAIN	385627.00N/0770039.00W	360 (400)								AS1500	1900

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM
JAXXS (IF/IAF)

TO
ERECA

RNP **DISTANCE**
5.00 **PAT** **MAP** **HAT** **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (24-020143)	385329.95N/0764749.02W	479	50	20	2C	500				AT621	1600
TERRAIN	385139.00N/0765033.00W	275 (300)								AS1000	1300

COMPUTATIONS

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

SEGMENT REMARKS:



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PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
DCA APP CON, DCA FSS

<u>WX SERVICE</u> AWOS-3	<u>LOCATION</u> KCGS	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KCGS	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
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<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KDCA	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KDCA	<u>DISTANCE</u> 9.42	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 27
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WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KCGS 49, KDCA 15
RA = 26.5.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
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<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW15 - MIRL (PCL)	NPI-G	
RW33 - MIRL (PCL)	NPI-G	

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE 171
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	CIRCLING RWY 15	
20:1		
92 TREE (24-046340) 385902.83N/0765530.49W (23.63)	121 TREE (24-046376) 385904.78N/0765542.11W (14.76)	



165 TREE (24-046253) 385910.48N/0765551.58W (12.36)	81 POLE (24-046161) 385901.03N/0765534.10W (9.95)
124 TREE (24-046142) 385905.59N/0765544.00W (9.74)	95 TREE (24-047146) 385905.06N/0765533.86W (9.35)
110 TREE (24-047406) 385905.88N/0765538.53W (9)	150 TREE (24-046176) 385910.83N/0765546.66W (8.95)
106 TREE (24-046290) 385905.77N/0765537.23W (8.83)	108 TREE (24-046479) 385905.45N/0765538.77W (7.99)
121 TREE (24-046109) 385908.64N/0765539.18W (7.86)	134 TREE (24-047403) 385908.75N/0765544.09W (7.56)
103 TREE (24-046764) 385904.24N/0765538.82W (7.43)	146 TREE (24-047093) 385910.62N/0765546.11W (7.19)
110 TREE (24-046976) 385906.56N/0765538.32W (6.98)	165 TREE (24-047473) 385914.60N/0765548.13W (5.85)
179 TREE (24-046159) 385913.35N/0765556.04W (3.81)	102 TREE (24-046143) 385903.40N/0765541.09W (3.65)
142 TREE (24-046951) 385909.99N/0765546.97W (3.31)	155 TREE (24-047107) 385912.21N/0765548.80W (3.12)
118 TREE (24-047136) 385907.95N/0765541.08W (2.48)	78 FENCE (24-047263) 385902.80N/0765533.34W (2.26)
86 TREE (24-046932) 385902.77N/0765536.44W (2.24)	180 TREE (24-046294) 385918.01N/0765550.92W (0.64)
72 TRAVERSE_WAY (24-047505) 385901.09N/0765534.31W (0.18)	

Final Type CIRCLING RWY 33

20:1

127 TREE (24-046533) 385829.22N/0765454.25W (19.4)	125 TREE (24-047102) 385829.91N/0765454.01W (19.38)
100 TREE (24-046922) 385833.29N/0765457.06W (15.16)	147 TREE (24-046502) 385826.61N/0765447.37W (11.48)
101 TREE (24-047094) 385832.38N/0765455.73W (9.23)	86 TREE (24-046827) 385834.66N/0765458.05W (8.94)
47 FENCE (24-046835) 385837.74N/0765507.81W (7.19)	99 TREE (24-047075) 385829.72N/0765459.25W (6.42)
159 TREE (24-047169) 385824.25N/0765444.17W (6.16)	149 TREE (24-046469) 385826.11N/0765444.93W (5.19)
162 TREE (24-047203) 385824.01N/0765442.95W (5.06)	163 TREE (24-046512) 385823.39N/0765443.43W (4.97)
146 TREE (24-046190) 385825.44N/0765446.83W (4.64)	158 TREE (24-046078) 385823.78N/0765444.63W (4.6)
93 TREE (24-046476) 385831.47N/0765458.04W (3.85)	161 TREE (24-046448) 385823.21N/0765443.67W (2.92)
182 TREE (24-046325) 385820.49N/0765439.53W (2.78)	146 TREE (24-046885) 385820.89N/0765452.37W (1.98)
141 TREE (24-046769) 385824.57N/0765448.88W (1.73)	86 TREE (24-047345) 385830.24N/0765501.63W (1.63)
139 TREE (24-046162) 385825.39N/0765448.39W (1.55)	170 TREE (24-046349) 385822.16N/0765441.19W (1.44)
97 TREE (24-046750) 385828.54N/0765459.79W (1.37)	135 TREE (24-047308) 385824.88N/0765450.39W (0.87)
145 TREE (24-046127) 385820.95N/0765452.12W (0.56)	178 TREE (24-047026) 385820.24N/0765440.50W (0.38)

Final Type LP AND LNAV

20:1



<u>AIRPORT ID</u> KCGS	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 33	<u>AMDT NO.</u> ORIG	<u>CITY</u> COLLEGE PARK	<u>STATE</u> MD	<u>AIRPORT ELEVATION</u> 49	<u>FACILITY</u> RNAV
127 TREE (24-046533)	385829.22N/0765454.25W (19.4)		125 TREE (24-047102)	385829.91N/0765454.01W (19.38)		
100 TREE (24-046922)	385833.29N/0765457.06W (15.16)		147 TREE (24-046502)	385826.61N/0765447.37W (11.48)		
101 TREE (24-047094)	385832.38N/0765455.73W (9.23)		86 TREE (24-046827)	385834.66N/0765458.05W (8.94)		
47 FENCE (24-046835)	385837.74N/0765507.81W (7.19)		99 TREE (24-047075)	385829.72N/0765459.25W (6.42)		
159 TREE (24-047169)	385824.25N/0765444.17W (6.16)		149 TREE (24-046469)	385826.11N/0765444.93W (5.19)		
162 TREE (24-047203)	385824.01N/0765442.95W (5.06)		163 TREE (24-046512)	385823.39N/0765443.43W (4.97)		
146 TREE (24-046190)	385825.44N/0765446.83W (4.64)		158 TREE (24-046078)	385823.78N/0765444.63W (4.6)		
93 TREE (24-046476)	385831.47N/0765458.04W (3.85)		161 TREE (24-046448)	385823.21N/0765443.67W (2.92)		
182 TREE (24-046325)	385820.49N/0765439.53W (2.78)		146 TREE (24-046885)	385820.89N/0765452.37W (1.98)		
141 TREE (24-046769)	385824.57N/0765448.88W (1.73)		86 TREE (24-047345)	385830.24N/0765501.63W (1.63)		
139 TREE (24-046162)	385825.39N/0765448.39W (1.55)		170 TREE (24-046349)	385822.16N/0765441.19W (1.44)		
97 TREE (24-046750)	385828.54N/0765459.79W (1.37)		135 TREE (24-047308)	385824.88N/0765450.39W (0.87)		
145 TREE (24-046127)	385820.95N/0765452.12W (0.56)		178 TREE (24-047026)	385820.24N/0765440.50W (0.38)		
Final Type	LP AND LNAV					
34:1						
177 TREE (24-046319)	385819.97N/0765438.51W (52.78)		166 TREE (24-046604)	385821.69N/0765442.39W (51.6)		
167 TREE (24-046506)	385821.39N/0765441.70W (50.87)		161 TREE (24-046673)	385822.78N/0765443.09W (50.1)		
170 TREE (24-046529)	385821.37N/0765439.07W (49.76)		167 TREE (24-047168)	385821.41N/0765440.37W (48.86)		
166 TREE (24-047254)	385819.83N/0765441.98W (46.83)		189 BUILDING (24-046785)	385816.92N/0765430.90W (46.25)		
164 TREE (24-046634)	385820.37N/0765442.01W (46.08)		152 TREE (24-047380)	385821.11N/0765448.02W (45)		
159 TREE (24-046577)	385822.24N/0765441.82W (44.94)		160 TREE (24-046488)	385821.29N/0765442.44W (44.79)		
162 TREE (24-047256)	385820.39N/0765442.32W (44.6)		188 BUILDING (24-046776)	385815.88N/0765431.40W (43.71)		
181 TREE (24-047456)	385818.40N/0765432.22W (43.58)		157 TREE (24-047336)	385820.44N/0765444.77W (43.49)		
146 TREE (24-047362)	385823.19N/0765447.63W (43.02)		165 TREE (24-046784)	385819.74N/0765439.77W (42.22)		
144 TREE (24-047025)	385820.97N/0765451.41W (41.92)		154 TREE (24-046568)	385822.10N/0765442.99W (41.44)		
141 TREE (24-046621)	385824.60N/0765447.55W (41.03)		139 TREE (24-046204)	385824.98N/0765447.95W (40.5)		
151 TREE (24-046288)	385821.24N/0765445.55W (40.48)		148 TREE (24-046956)	385822.93N/0765445.00W (40.38)		
165 TREE (24-047179)	385819.47N/0765438.80W (40.12)		145 TREE (24-046417)	385821.52N/0765448.79W (40.1)		
139 TREE (24-047153)	385821.07N/0765452.72W (39.17)		149 TREE (24-046280)	385820.38N/0765447.10W (38.96)		



144 TREE (24-046738) 385822.22N/0765447.58W (38.79)	154 TREE (24-046837) 385819.86N/0765443.86W (37.8)
141 TREE (24-047522) 385820.11N/0765451.68W (37.43)	144 TREE (24-046134) 385819.70N/0765450.23W (37.28)
137 TREE (24-046913) 385823.01N/0765449.93W (37.17)	173 BUILDING (24-046287) 385817.93N/0765433.85W (37.05)
174 BUILDING (24-047463) 385817.15N/0765434.18W (36.83)	137 TREE (24-046904) 385821.80N/0765450.38W (35.18)
134 TREE (24-046723) 385822.54N/0765451.21W (35.1)	139 TREE (24-046991) 385820.77N/0765450.22W (34.64)
154 TREE (24-046504) 385819.51N/0765441.33W (33.11)	142 TREE (24-047348) 385819.89N/0765448.22W (32.6)
121 TREE (24-046703) 385825.23N/0765454.10W (32.55)	142 TREE (24-046901) 385820.29N/0765447.54W (32.44)
123 TREE (24-046437) 385822.20N/0765456.03W (30.79)	118 TREE (24-047493) 385826.58N/0765452.84W (30.6)
116 TREE (24-046301) 385824.75N/0765455.81W (29.12)	152 TREE (24-046685) 385819.36N/0765439.82W (28.45)
131 TREE (24-046492) 385819.83N/0765451.90W (27.14)	116 TREE (24-047477) 385825.52N/0765453.38W (27.08)
113 TREE (24-047081) 385825.93N/0765453.67W (25.44)	107 TREE (24-047006) 385827.13N/0765455.76W (25.33)
109 POLE (24-047262) 385829.91N/0765450.46W (25.33)	114 TREE (24-047393) 385824.64N/0765454.65W (25.08)
138 TREE (24-046849) 385819.60N/0765446.12W (24.71)	104 TREE (24-046282) 385827.04N/0765456.55W (23.35)
109 TREE (24-047059) 385826.92N/0765453.38W (23.19)	120 TREE (24-046873) 385823.42N/0765451.27W (23.15)
98 TREE (24-046720) 385827.73N/0765459.27W (23.09)	106 TREE (24-046343) 385827.06N/0765454.87W (22.8)
110 POLE (24-046771) 385826.81N/0765452.33W (22.33)	90 TREE (24-046970) 385829.98N/0765459.17W (19.93)
86 TREE (24-047435) 385830.16N/0765500.39W (18.22)	86 TREE (24-047104) 385830.69N/0765459.60W (18.18)
115 TREE (24-046404) 385820.58N/0765453.32W (15)	80 TREE (24-046909) 385829.99N/0765502.00W (14.33)
104 POLE (24-046099) 385824.93N/0765453.12W (13.37)	77 TREE (24-047135) 385832.20N/0765458.35W (10.6)

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

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

PENETRATIONS REMARKS:



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FACILITY
RNAV

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - 20:1 PENETRATIONS.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

ORDER 8260.3 CHAPTER 2 APPLIED TO 440 AAO 385529.00N/0765034.00W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



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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	3.45
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	318.39
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	200
DISTANCE FROM	THLD	TO 1500FT POINT	9.18
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	318.43
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	300

**THRESHOLD
COORDINATES** 385839.98N/0765508.70W
(IF STR-IN)

ARP COORDINATES 385849.72N/0765519.81W

**RUNWAY APCH END
AND DIST FURTHEST
FROM ARP** RUNWAY 15 DISTANCE 0.25 NM

**FAF
COORDINATES** 385505.59N/0765104.65W

**FIX NAME
COORDINATES**

REMARKS NO ADDITIONAL AIRSPACE REQUIRED.

TAA:
JAXXS IF/IAF 385121.00N/0764649.61W 30 NM RADIUS
THLD DISPLACED 171FT, ACTUAL COORDINATES: 385838.72N/0765507.27W.



AIRPORT ID
KCGS

PROCEDURE NAME
RNAV (GPS) RWY 33

AMDT NO.
ORIG

CITY
COLLEGE PARK

STATE
MD

AIRPORT ELEVATION
49

FACILITY
RNAV

PART E: PREPARED BY

NAME
ALLAN WILL (TIMOTHY JOHNSON)

OFFICE
AJV-A423

DATE
11/16/2022

TITLE
AERONAUTICAL INFORMATION SPECIALIST

