Appendix C

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Design Requirements

AIRPORT DESIGN AIRPLANE AND AIRPORT DATA

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	Aircraft Approach Category B Airplane Design Group II Airplane wingspan
	RUNWAY AND TAXIWAY WIDIH AND CHERICATED DIMEDING DIPERSION Airplane Group/ARC Runway centerline to parallel runway centerline simultaneous operations when wake turbulence is not treated as a factor:
	VFR operations with no intervening taxiway
	Runway centerline to parallel runway centerline simultaneous operations when wake turbulence is treated as a factor:
	<pre>VFR operations</pre>
	Runway centerline to parallel taxiway/taxilane centerline . 239.5240 feetRunway centerline to edge of aircraft parking
	or stopway end, whichever is greater
	or stopway end, whichever is greater
-	Obstacle free zone (OFZ):
Chiamannanan ang ang ang ang ang ang ang ang	Runway OFZ width400 feetRunway OFZ length beyond each runway end200 feetInner-approach OFZ width400 feetInner-approach OFZ length beyond approach light system200 feetInner-approach OFZ slope from 200 feet50:1Inner-transitional OFZ slope0:1
analise and a second se	Runway protection zone at the primary runway end:
·	Width 200 feet from runway end
3	

Length		1700 feet
Runway protection zone at other runway end:		• •
Width 200 feet from runway end		1000 feet 1510 feet 1700 feet
Departure runway protection zone:		
Width 200 feet from the far end of TORA		500 feet 700 feet 1000 feet
Threshold surface at primary runway end:		
Distance out from threshold to start of surface Width of surface at start of trapezoidal section Width of surface at end of trapezoidal section Length of trapezoidal section	• • • • • •	200 feet 1000 feet 4000 feet 10000 feet 0 feet 20:1
Threshold surface at other runway end:		
Threshold surface at other runway end: Distance out from threshold to start of surface Width of surface at start of trapezoidal section Width of surface at end of trapezoidal section Length of trapezoidal section	· · · · · ·	200 feet 1000 feet 4000 feet 10000 feet 0 feet 20:1
Distance out from threshold to start of surface Width of surface at start of trapezoidal section Width of surface at end of trapezoidal section	104.8 65.3 96.9 57.4 24.0 79.0 130.6 114.8 25.8	1000 feet 4000 feet 10000 feet 0 feet

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REFERENCE: AC 150/5300-13, Airport Design, including Changes 1 through 4.

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AIRPORT DESIGN AIRPLANE AND AIRPORT DATA

	cu a cura de Catogoria B	
	Airplane wingspan Primary runway end approach visibility minimums are not lower than Other runway end approach visibility minimums are not lower than Airplane undercarriage width (1.15 x main gear track)	.99 feet n CAT I 3/4 mile .00 feet 160 feet .02 feet
1	RUNWAY AND TAXIWAY WIDTH AND CLEARANCE STANDARD DIMENSIONS	3
	Airplane Runway centerline to parallel runway centerline simultaneous operat: when wake turbulence is not treated as a factor:	Group/ARC ions
	VFR operations with no intervening taxiway	700 feet 705 feet feet less
	Runway centerline to parallel runway centerline simultaneous operat: when wake turbulence is treated as a factor:	lons
	<pre>VFR operations</pre>	2500 feet 2500 feet
manananana) kononananananan kononananananananananananananananananana	Runway object free area width	<pre>300 feet 400 feet 100 feet 10 feet 120 feet 150 feet 300 feet 600 feet 600 feet 500 feet 100 feet</pre>
6	Obstacle free zone (OFZ):	
19099900000000000000000000000000000000		400 feet 200 feet 400 feet 200 feet 50:1 53.1 feet 6:1

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Width 200 feet from runway end	feet feet feet
Runway protection zone at other runway end:	
Width 1900 feet from runway end	feet feet feet
Departure runway protection zone:	and the second sec
Width 1200 feet from the far end of TORA	feet feet feet
Threshold surface at primary runway end:	
Width of surface at start of trapezoidal section1000Width of surface at end of trapezoidal section4000Length of trapezoidal section10000	feet feet feet feet feet
Threshold surface at other runway end:	(1
Width of surface at start of trapezoidal section	feet feet feet feet feet
Taxiway centerline to fixed or movable object65.365.5Taxilane centerline to parallel taxilane centerline96.997Taxilane centerline to fixed or movable object57.457.5Taxiway width24.035Taxiway shoulder width10Taxiway safety area width79.079Taxilane object free area width130.6Taxiway edge safety margin7.5Taxiway wingtip clearance7.5	feet feet feet feet feet feet feet feet
	10000000000000000000000000000000000000

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AIRPORT DESIGN AIRPLANE AND AIRPORT DATA

	Aircraft Approach Category B Airplane Design Group III Airplane wingspan	.99 fe	et
	Airplane wingspan Primary runway end approach visibility minimums are not lower than Other runway end approach visibility minimums are not lower than (Airplane wheelbase is 60 feet or more	1 CAT CAT I	I
Ū	Airplane undercarriage width (1.15 x main gear track)	.00 fe 160 fe .02 fe	et .
1	RUNWAY AND TAXIWAY WIDTH AND CLEARANCE STANDARD DIMENSIONS	3	
	RUNWAI AND IAAIWAI "IDIM IAD Airplane		ARC
	Runway centerline to parallel runway centerline simultaneous operat: when wake turbulence is not treated as a factor:	ions	•
	VFR operations with two intervening taxiways	852 feet	feet less
	100 ft for each 500 ft of threshold stagger to a minimum of it	000 Le	et.
	Runway centerline to parallel runway centerline simultaneous operat: when wake turbulence is treated as a factor:	•	
	VFR operations . IFR departures . IFR approach and departure with approach to near threshold .		feet feet feet
	IFR approach and departure with approach to far threshold 2500 100 feet for each 500 feet of threshold stagger.	feet	plus
1	IFR approaches	3400	feet
	RUNNAV CENEELITING CO DULALLOL CONSUMELLE CONSUMELLE CONSUMELLE	350 400	feet feet
100	Runway centerline to edge of aircraft parking 400.0		feet
	Runway width		feet
al a caracteristic de la c	Runway blast pad width		feet
1. A. B.	Runway blast pad length	200	feet
	Runway safety area width	400	feet
	or stopway end, whichever is greater	800	feet
]	Runway object free area width	800	feet
	or stopway end, whichever is greater		feet
	Clearway width		feet
	Stopway width	100	feet
ananosee a	Obstacle free zone (OFZ):	•	<i>a</i> .
2.5	Runway OFZ width		feet
- Crass	Runway OFZ length beyond each runway end		feet
. Water of the second	Inner-approach OFZ width	400	ieet feet
in the second se	Inner-approach OFZ length beyond approach light system	200 50:1	1905
	Inner-approach OFZ slope from 200 feet beyond threshold Inner-transitional OFZ height H	49.4	feet
I	Inner-transitional OFZ slope	6:J	
13			

Runway protection zone at the primary runway end:

Width 200 feet from runway end	t 🕺
Runway protection zone at other runway end:	B ala
	F
Width 200 feet from runway end	t 📰
Departure runway protection zone:	W
Width 200 feetfrom the far end of TORA500 feeWidth 1200 feetfrom the far end of TORA700 feeLength1000 fee1000 fee	
Threshold surface at primary runway end:	Read
Distance out from threshold to start of surface	t t
Threshold surface at other runway end:	
Distance out from threshold to start of surface	t t t
Taxiway centerline to parallel taxiway/taxilane centerline 151.6 152 fee	t
Taxiway centerline to fixed or movable object	1 N N
Taxilane centerline to parallel taxilane centerline 139.8 140 fee	
Taxilane centerline to fixed or movable object80.881 feeTaxiway width39.060 fee	
Taxiway width39.060 feeTaxiway shoulder width20 fee	- 21.18
Taxiway shoulder width	2. 2
Taxiway safety area width118118118Taxiway object free area width185.2186 fee	
Taxilane object free area width	
Taxiway edge safety margin	× 2
Taxiway wingtip clearance	
Taxilane wingtip clearance	
REFERENCE: AC 150/5300-13, Airport Design, including Changes 1 through 4.	

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REFERENCE: AC 150/5300-13, Airport Design, including Changes 1 through 4.

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AIRPORT AND RUNWAY DATA

	Airport elevation	160 fe 65.10 F. 30 fe 1000 mi	eet
71	RUNWAY LENGTHS RECOMMENDED FOR AIRPORT DESIGN	÷.	
1	Small airplanes with approach speeds of less than 30 knots Small airplanes with approach speeds of less than 50 knots Small airplanes with less than 10 passenger seats	300 fe 810 fe	eet
2.4	75 percent of these small airplanes	2300 fe 2830 fe 3360 fe	et et
	Small airplanes with 10 or more passenger seats	3860 fe	et
	Large airplanes of 60,000 pounds or less 75 percent of these large airplanes at 60 percent useful load 75 percent of these large airplanes at 90 percent useful load 100 percent of these large airplanes at 60 percent useful load	5250 fe 6640 fe 5460 fe	et
	100 percent of these large airplanes at 90 percent useful load	7030 fe	
	Airplanes of more than 60,000 pounds Approximately	6020 fe	et
	REFERENCE: Chapter 2 of AC 150/5325-4A, Runway Length Requirements for Airport Design, no Changes included.		
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