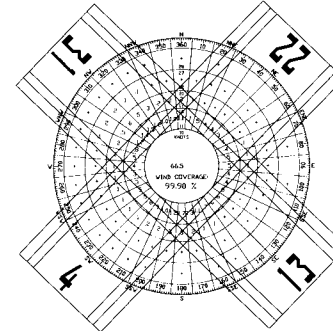


RUNWAY DATA	RUNWAY 13		RUNWAY 31		RUNWAY 4		RUNWAY 22	
	EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE
APPROACH CATEGORY & DESIGN GROUP	B-II	B-II	B-II	B-II	B-II	B-II	B-II	B-II
RUNWAY LENGTH (WDTH)	75'X4,000'	75'X4,000'	75'X4,000'	75'X4,000'	200'X2,000'	75'X4,000'	200'X2,000'	75'X4,000'
TOUCHDOWN ZONE ELEVATION (TDE)	839.90'	839.90'	839.90'	839.90'	843.80'	843.80'	843.80'	843.80'
INSTRUMENT RUNWAY	NP	NP	NP	NP	NP	NP	NP	NP
APPROACH SURFACE (SLOPE)	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1
PAVEMENT DESIGN STRENGTH (IN LBS)	25,000 SW	15,000 SW	25,000 SW	15,000 SW	25,000 SW	15,000 SW	25,000 SW	15,000 SW
RUNWAY EDGE & THRESHOLD LIGHTING	NP	NP	NP	NP	NP	NP	NP	NP
RUNWAY MARKINGS	NP	NP	NP	NP	NP	NP	NP	NP
ELECTRONIC AIDS	-	GPS	VOR/DME GPS	VOR/DME GPS	-	GPS	NDB GPS	NDB GPS
VISUAL AIDS	REL. SZR	REL. VSG	REL. SZR	REL. VSG	REL. VSG	REL. VSG	REL. VSG	REL. VSG
RUNWAY SAFETY AREA (LENGTH/WDTH)	4,600'/200'	6,100'/200'	4,600'/200'	6,100'/200'	2,600'/200'	4,600'/200'	2,600'/200'	4,600'/200'
OBJECT FREE AREA (LENGTH/WDTH)	4,600'/200'	6,100'/200'	4,600'/200'	6,100'/200'	2,600'/200'	4,600'/200'	2,600'/200'	4,600'/200'
OBSTACLE FREE ZONE (LENGTH/WDTH)	4,400'/400'	5,900'/400'	4,400'/400'	5,900'/400'	2,400'/400'	4,400'/400'	2,400'/400'	4,400'/400'
COORDINATES	LATITUDE 41°13'-43.40" N LONGITUDE 92°29'-36.44" W							
NAD 83	LATITUDE 41°13'-43.40" N LONGITUDE 92°29'-36.44" W							



WIND DATA			
CROSSWINDS	Rwy 13/31	Rwy 4/22	COMBIN
10.5 Knots	88.11	81.23	97.51
13.0 Knots	93.91	86.93	99.31
16.0 Knots	98.29	95.79	99.95

SOURCE: DES MOINES INTERNATIONAL AIRPORT
PERIOD: 1981-1990