

AIRPORT OPERATIONS MANUAL
AIRPORT SPECIFICATIONS

Reference Point	48°56'24"N 54°34'07"W
Geometric Centre	48°56'24"N 54°34'07"W
Aerodrome Elevation (Above Mean Sea/Level)	496'
Aerodrome Magnetic Variation	24°W
Aerodrome Reference Temperature	21.9°
Electronic Navigational Aids	VOT 114.8 ILS IQX 109.5 (Rwy 04) RVR: IGN 109.9 (Rwy 13-31) RVR NDB QX 280 (M) N48 57 52 W54 40 06 126° 3.3 NM to A/D VORTAC YQX 112.7 Ch 74 N48 53 59 W54 32 06 (600') 002° 2.5 NM to A/D DME IQX 109.5 Ch 32 N48 57 02 W54 33 37

2.1 Runway Data

A. PHYSICAL CHARACTERISTICS							
RUNWAY IDENTIFIER	04	22	13	31	09	27	
					*2. Varies through length of runway *3. As per Civil Plans *4. As per Civil Plans All measurements are in feet	RWY 13: N W	
						RWY 31: N W	
						Threshold E	
						RWY 04 -	
						RWY 22 -	
						RWY 13 -	
						RWY 31 -	
						capable of surface d	
					Threshold Coordinates RWY 04: N 48.55.15 W 54.34.04 RWY 22: N 48.56.53 W 54.33.35		
- CODE [1,2,3,4] [a,b,c,d,e]	4E	4E	4E	4E	1A	1A	
- Non-Inst, Non-Prec, Prec	PREC	PREC	PREC	PREC	NIL	NIL	
- RUNWAY DIMENSIONS Length	3200.4m	3200.4m	2712.72m	2712.72m	571.5m	571.5	
- Width	60.96m	60.96m	60.96m	60.96m	15.24m	15.24	
- LONGITUDINAL SLOPE *1		Down 0.3%	Down 0.5%		Down .082		
- TRANSVERSE SLOPE *2							

- STRIP DIMENSIONS Length	-	3261.36m	3261.36m	2834.64m	2834.64m	632.46m	632.4
- Width		304.8m	304.8m	304.8m	304.8m	60.96m	60.96
- GRADED AREA DIMENSIONS Length	-	3322.32m	3322.32m	2834.64m	2834.64m	632.46m	632.4
- Width		15.24m	15.24m	15.24m	15.24m	38.1m	38.1
- TRANSVERSE SLOPE OF GRADED AREA *3							
- TRANSVERSE SLOPE BEYOND GRADED AREA *4							
- CLEARWAY DIMENSIONS Length	-	137.16m	0m	70.104m	304.8m		
- Width		15.24m	0m	15.24m	15.24m		
- STOPWAY LENGTH		300'	NIL	NIL	NIL	76.2m	22.86
- DISPLACED THRESHOLD LENGTH		NIL	91.44m	NIL	NIL		
- RUNWAY END SAFETY AREA LENGTH		115.24m	115.24m	115.24m	115.24m		
- DECLARED DISTANCES TORA	-	3322.32m	3108.96m	2712.72m	2712.72m	571.5m	571.5
-TODA		3322.32m	3108.96m	2782.82m	3017.52m	571.5m	571.5
-ASDA		3200.4m	3108.96m	2712.72m	2712.72m	647.7m	1915.2
- LDA		3200.4m	3108.96m	2712.72m	2712.72m	571.5m	571.5
- ADEQUATE DRAINAGE (Y/N)		Y	Y	Y	Y	Y	Y
- DITCHES OUTSIDE OF GRADED AREA (Y/N)		N	N	Y	Y	N	N
B. OBSTACLE LIMITATION SURFACES							
- TAKE-OFF/APPROACH SURFACE SLOPE		2%	2%	2%	2%	5%	5%
- DIVERGENCE (10%/15%)		15%	15%	15%	15%	10%	10%
- TRANSITIONAL SURFACE - SLOPE		14.3%	14.3%	14.3%	14.3%	20%	20%
- OUTER SUR- FACE (RADIUS)		3962.4m					

2.1 Runway Data

C. LIGHTING	13	31	04	22	09	27
	- EDGE LIGHTS (LO, MED, HI)	HI	HI	HI	HI	NIL
- DISTANCE FROM RUNWAY EDGE	1.5m	1.5m	1.5m	1.5m	NIL	NIL
- HEIGHT	35cm	35cm	35cm	35cm	NIL	NIL
- THRESHOLD/END (# OF LIGHTS)	10	10	10	10	NIL	NIL
- APPROACH SLOPE INDICATOR (TYPE)	NIL	P3 PAPI	NIL	P3 PAPI	NIL	NIL
- RILS	No	Yes	No	Yes	NIL	NIL
- APPROACH LIGHTS (TYPE)	CAT I High Intensity	Low Intensity	CAT I High Intensity	Low Intensity	NIL	NIL
- CENTRE LINE LIGHTS	NIL	NIL	NIL	NIL	NIL	NIL
- TOUCHDOWN ZONE LIGHTS	NIL	NIL	NIL	NIL	NIL	NIL
- STOPWAY LIGHTS	NIL	NIL	NIL	NIL	NIL	NIL

D. MARKERS, MARKINGS AND SIGNS		YES/NO				
PAVED RUNWAYS						
- THRESHOLD MARKINGS	Yes	Yes	Yes	Yes	Yes	Yes
- PERMANENTLY DISPLACED THRESHOLD MARKINGS	No	Yes	No	No	No	No
- TRANSVERSE STRIPE	No	Yes	No	No	Yes	Yes
- RUNWAY DESIGNATION MARKINGS	Yes	Yes	Yes	Yes	Yes	Yes
- RUNWAY CENTRE LINE MARKINGS	Yes	Yes	Yes	Yes	Yes	Yes
- AIMING POINT MARKINGS	Yes	Yes	Yes	Yes	No	No
- TOUCHDOWN ZONE MARKINGS	Yes	Yes	Yes	Yes	No	No
- RUNWAY EXIT MARKINGS	Yes	Yes	Yes	Yes	Yes	Yes
- RUNWAY SIDE STRIP MARKINGS	No	No	No	No	No	No
- ROAD HOLDING POSITION MARKING	No	No	No	No	Yes	No
- RUNWAY/RUNWAY INTERSECTION MARKING [SIRO]	No	No	No	No	No	No
UNPAVED RUNWAYS						
- SURFACE (TYPE)						
- BOUNDARY MARKERS						
- THRESHOLD MARKERS						
- DISPLACED THRESHOLD MARKERS						
SIGNS						
- MANDATORY INSTRUCTION SIGNS	Yes	Yes	Yes	Yes	Yes	Yes
- RUNWAY EXIT [INFORMATION] SIGNS	Yes	Yes	Yes	Yes	Yes	Yes
WIND DIRECTION INDICATORS						
- RELATIVE LOCATION (i.e. 60.96m NW TH)	91.44m NETH	44.72m SETH	91.44m NETH	60.96m	No	121.92m NETH (THRES 22)
- LIGHTED	Yes	Yes	Yes	Yes	No	No

A.TAXIWAY IDENTIFICATION [A,B,C,D]	A	B	C	D	E	F	G	REMARKS
- WIDTH	22.86 m	22.86m	22.86m	22.86m	22.86m	22.86m	22.86m	
- CODE LETTER	E	E	E	E	E	E	E	
- DISTANCE(D) FROM RUNWAY CENTRE LINE	240.79m	240.79m	N/A	N/A	N/A	N/A	N/A	
- (D) BETWEEN TAXIWAY CENTRE LINES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
- TAXIWAY CENTRE LINE TO OBJECT CLEARANCE	47.24 m	47.24m	47.24m	47.24m	47.24m	47.24m	47.24m	
- WIDTH OF TAXIWAY STRIP	94.49 m	94.49m	94.49m	94.49m	94.49m	94.49m	94.49m	
- GRADED AREA - WIDTH	44m	44m	44m	44m	44m	44m	44m	
- SHOULDER - WIDTH [CODE C,D,E]	E	E	E	E	E	C	E	

B. LIGHTING		YES/NO						REMARKS
- TAXIWAY EDGE LIGHTING (LO, MED)	LO	LO	LO	LO	LO	LO	LO	
- HEIGHT	35.0 cm	35.0 cm	35.0 cm	35.0 cm	35.0 cm	35.0 cm	35.0 cm	
- DISTANCE FROM EDGE	1.5m	1.5m	1.5m	1.5m	1.5m	1.5m	1.5m	
- TAXIWAY CENTRE LINE LIGHTS	No	No	No	No	No	No	No	
- RAPID-EXIT TAXIWAY LIGHTS	No	No	No	No	No	No	No	
- TAXIWAY INTERSECTION LIGHTS	No	No	No	No	No	No	No	
- STOP BARS	No	No	No	No	No	No	No	
- RUNWAY GUARD LIGHTS	No	No	No	No	No	No	No	
C. MARKERS, MARKINGS AND SIGNS		YES/NO						REMARKS
PAVED TAXIWAYS								
- TAXIWAY CENTRE LINE MARKINGS	No	No	No	No	No	No	No	
- TAXIWAY INTERSECTION MARKINGS	No	No	No	No	No	No	No	

2.3 Apron Data

A. PHYSICAL CHARACTERISTICS				REMARKS
APRON IDENTIFICATION (WHERE PROVIDED)	I	II	III	10 aircraft parking gates capable of Hydrant Refuelling. Overnight parking area on South West edge of Apron II 3 Hydrant refuelling gates.
- APRON SPACE ADEQUATE (Y/N)	Yes	Yes	Yes	
- INTERFERENCE WITH TRANSITIONAL SURFACES	No	No	No	
- AIRCRAFT STANDS (Y/N)	Yes	Yes	No	
- TAXIWAY CENTERLINE TO OBJECT CLEARANCE (M)	>47.5	>47.5	>47.5	
- APRON EDGE TO OBJECT CLEARANCE (M)	15	15	15	
B. LIGHTING		YES/NO		REMARKS
- APRON EDGE LIGHTS	Yes	Yes	No	Field Lighting checked. (November - March) 5 days/week by Electrical Shop. Weekends - Duty Manager (April - October) once a week by Electrical Shop
- FLOODLIGHTING	Yes	Yes	No	
- TAXILANE CENTRE LINE LIGHTING	No	No	No	
- AIRCRAFT STAND MANOEUVRING GUIDANCE LIGHTS	No	No	No	
C. MARKERS, MARKINGS AND SIGNS		YES/NO		REMARKS
- AIRCRAFT STAND TAXILANE MARKINGS	No	No	No	
- AIRCRAFT STAND MARKINGS	Yes	Yes	Yes	
- APRON SAFETY LINES (EQUIPMENT RESTRAINT)	No	No	No	
- INFORMATION MARKINGS	No	No	No	
- ILLUMINATED SIGNS FOR AIRCRAFT STANDS	No	No	No	
- VISUAL DOCKING SYSTEMS (VDS)	No	No	No	
- DIRECTION SIGNS	No	No	No	
- LOCATION SIGNS	No	No	No	

- INFORMATION SIGNS	No	No	No
- MANDATORY INSTRUCTION SIGNS	No	No	No
- HELICOPTER APRON TOUCHDOWN PAD	No	No	No
- APRON EDGE MARKERS	No	No	No

2.4 Airport Environmental Data

THE FOLLOWING GENERAL REQUIREMENTS, WHICH APPLY TO THE AIRPORT AND IMMEDIATE SURROUNDING AREA, MUST MEET SPECIFIC STANDARDS FOR AN AIRPORT TO BE CERTIFIED.

A. PHYSICAL CHARACTERISTICS		REMARKS
- BEARING STRENGTH - RUNWAYS AND STOPWAYS SUFFICIENT TO SUPPORT CONTINUAL OPERATION BY AEROPLANES AIRPORT IS INTENDED TO SERVE.	Yes	See Appendix "A" - Diagram 3 For Details
- TAXIWAYS AND HOLDING BAYS SAME BEARING STRENGTH AS RUNWAY	Yes (Except Taxi Gulf)	
- APRONS - BEARING STRENGTH SUFFICIENT TO SUPPORT CONTINUAL OPERATION BY CRITICAL AIRCRAFT	Yes	

2.4 Airport Environmental Data

B. LIGHTING		REMARKS
- SUPPORT STRUCTURES OF ELEVATED LIGHTS FRANGIBLE (Y/N)	Y	
- AIRPORT BEACON / ARCAL (Y/N)	Y N	
- TYPE OF BEACON	Rotating	
- LOCATION	Control Tower	
- ARCAL (TYPE J, K, OTHER - SPECIFY)	N/A	
- AIRPORT OPERATIONAL GUIDANCE SIGNS ILLUMINATION (SPECIFY)	Internal Lighted Fiberoptic	
- UNIFORM (Y/N)	Y	
- STANDBY POWER (Y/N)	Y	
- SOURCE, IF REQUIRED	EPU/Diesel	
- FACILITIES WITH STANDBY POWER	Y	
- ELECTRICAL LOAD TRANSFER TIME	8 Sec	
C. MARKERS, MARKINGS AND SIGNS		REMARKS
- NON-LOAD BEARING SURFACE MARKINGS ON SHOULDERS OF TAXIWAYS, HOLDING BAYS, APRONS, PRE-THRESHOLD AREAS (PAVED SURFACE NOT SUITABLE FOR USE BY AEROPLANES)	N	
- CLOSED MARKINGS ON RUNWAYS, TAXIWAYS	Y	

2.5 Airport Zoning Regulations

The establishment of an Airport Zoning Regulation in 1976 under the Aeronautics Act has imposed certain restriction upon land use in the vicinity of the airport. These restrictions comprise obstruction height limitations in the runway approaches and within 4000 metres of the airports Reference Point. The Land Use PPlan Drawing following Appendix II indicates the position of the Reference Point, while Figure 2.4.1. illustrates the areas affected by the Zoning Regulation. Details of the restrictions appear in the Transport Canada publication, Aerodrome Standards and Recommended Practices (TP 312), Part II, and a copy of the Regulation is on record in the Land Titles Office (See Map in Appendix A).

*Appendix "F" - Gander International Airport Zoning Regulations.