

18 MAR 11 10-1B TMA  
LEON/AGUASCALIENTES, MEXICO

**SPEED RESTRICTIONS WITHIN MEXICO AIRSPACE**  
*Maximum IAS unless otherwise depicted or authorized by ATC*

At or below 3000' AGL within 10NM of any airport.....	200 KTS
At or below 10000' within Mexico Airspace.....	250 KTS
At or below 10000' AGL within 30NM of any airport.....	250 KTS
<b>WITHIN LEON/AGUASCALIENTES TMA</b>	
At or below 9000' of De Guanajuato Intl Apt and within 10NM of BJX VORDME.....	200 KTS
Below 16000' within 30NM of BJX VORDME.....	250 KTS
At or below 8100' of Jesus Teran Intl Apt and within 10NM of AGU VORDME.....	200 KTS
Below 15100' within 30NM of AGU VORDME.....	250 KTS
<b>WITHIN GUADALAJARA TMA</b>	
At or below 8000' within 10NM of GDL VORDME.....	200 KTS
At or below 15000' within 30NM of GDL VORDME.....	250 KTS
<b>WITHIN SAN LUIS POTOSI TMA</b>	
At or below 9000' of Ponciano Arriaga Intl Apt and within 10NM of SLP VORDME.....	200 KTS
At or below 16000' within 30NM of SLP VORDME.....	250 KTS

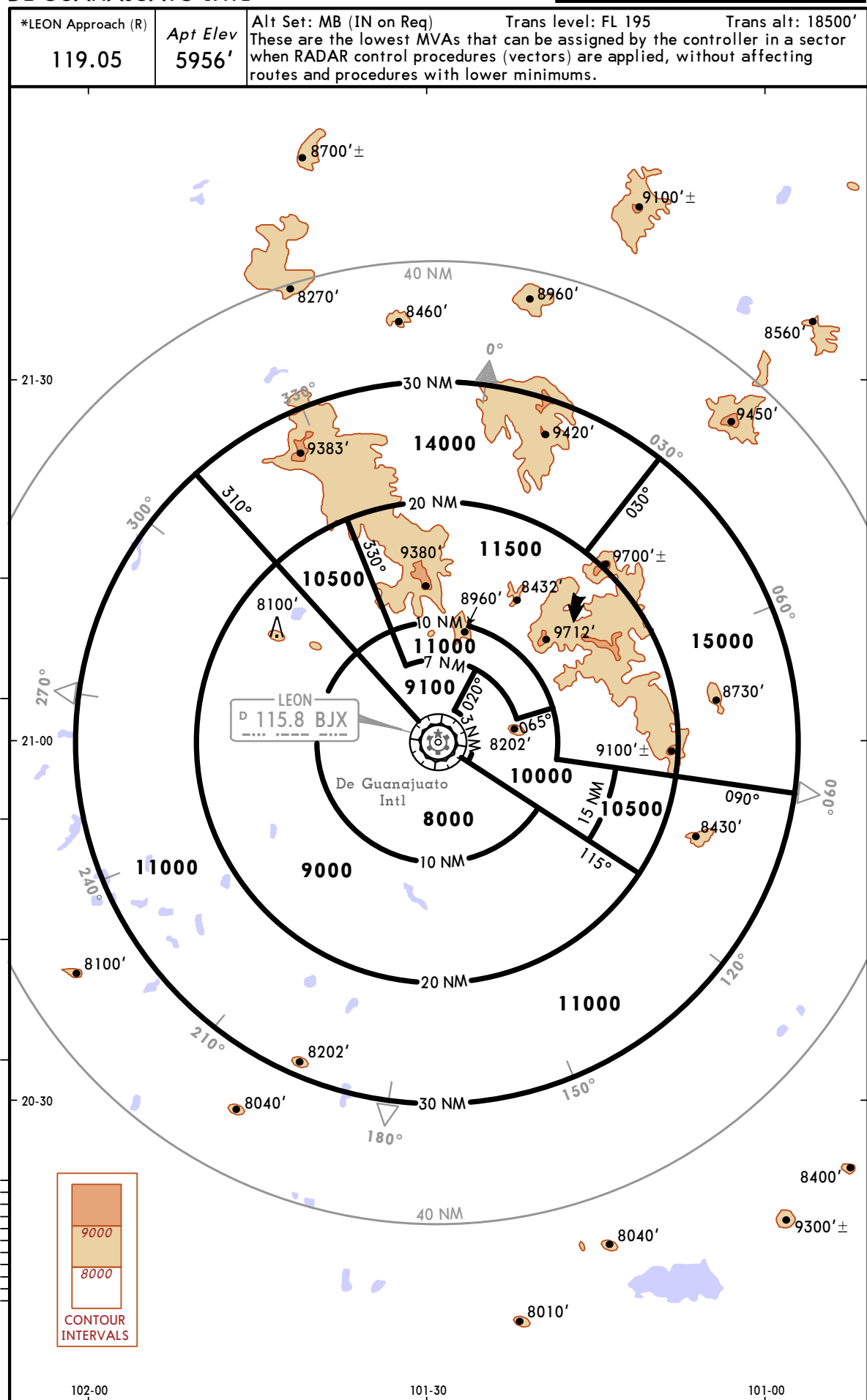
**CHANGES:** ATS system.

**MMLO/BJX**  
**DE GUANAJUATO INTL**

**JEPPesen**  
 4 SEP 09 **(10-1R)**

**LEON, MEXICO**

**RADAR MINIMUM ALTITUDES**



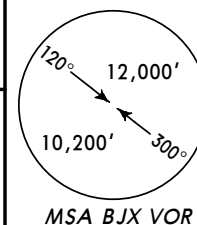
**MMLO/BJX**  
 DE GUANAJUATO INTL

**JEPPESEN**  
 29 APR 11 **10-3** Eff 5 May

**LEON, MEXICO**  
**SID**

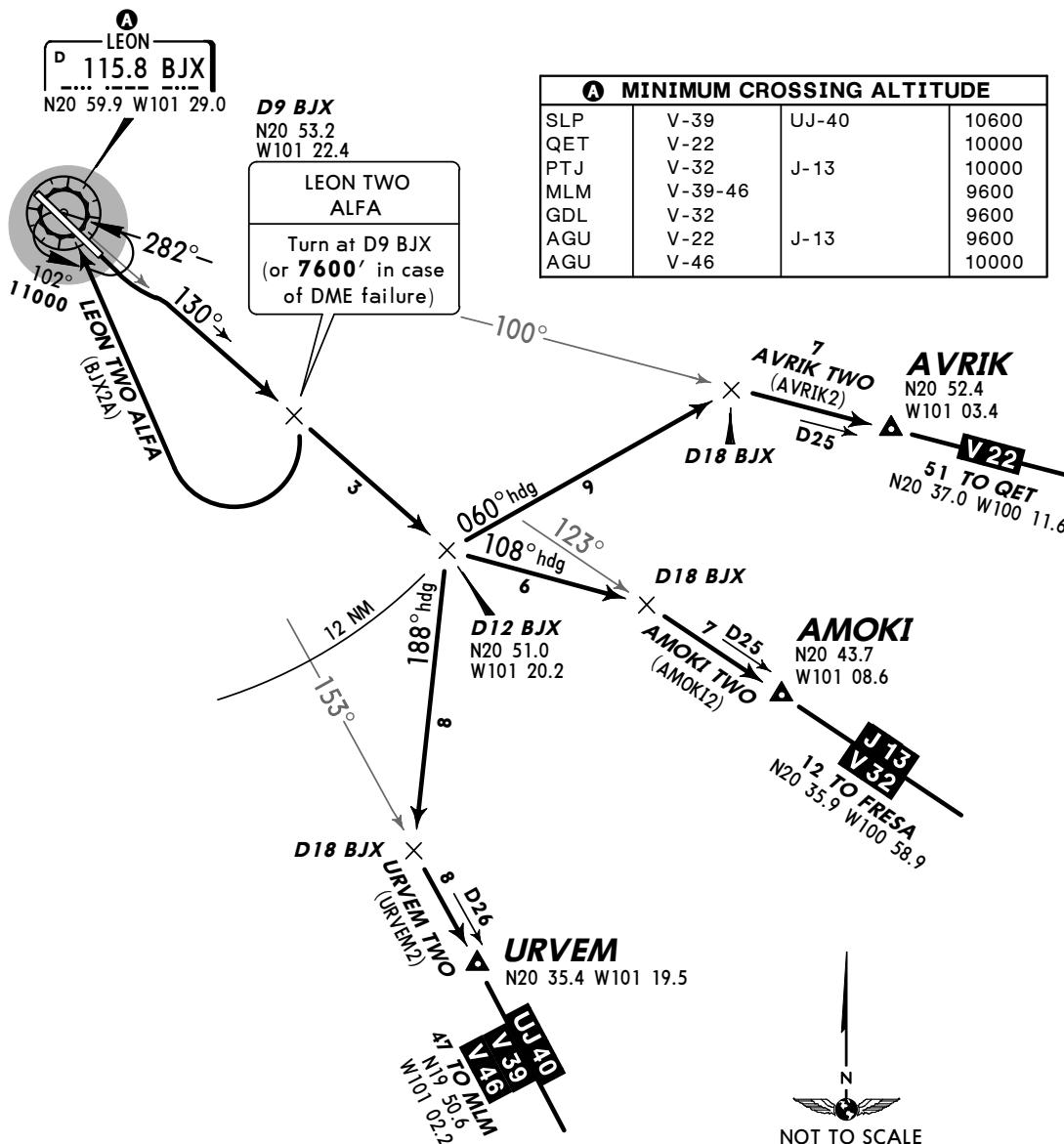
Apt Elev  
 5956'

Trans level: FL 195 Trans alt: 18500'



### DEPARTURES RWY 13

AMOKI TWO (AMOKI2), AVRIK TWO (AVRIK2),  
 LEON TWO ALFA (BJX2A), URVEM TWO (URVEM2)



SID	INITIAL CLIMB
AMOKI TWO	Climb on BJJ R-130, at D12 BJJ turn LEFT heading 108° and intercept BJJ R-123 to AMOKI. Continue on the assigned route or in accordance with ATC instructions.
AVRIK TWO	Climb on BJJ R-130, at D12 BJJ turn LEFT heading 060° and intercept BJJ R-100 to AVRIK. Continue on the assigned route or in accordance with ATC instructions.
LEON TWO ALFA	Climb on BJJ R-130, at D9 BJJ (or 7600' in case of DME failure) turn RIGHT within 12 NM to BJJ. Depart BJJ at the MCA A for the assigned route or in accordance with ATC instructions.
URVEM TWO	Climb on BJJ R-130, at D12 BJJ turn RIGHT heading 188° and intercept BJJ R-153 to URVEM. Continue on the assigned route or in accordance with ATC instructions.

**MMLO/BJX**  
**DE GUANAJUATO INTL**

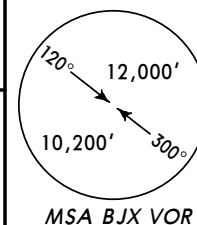
**JEPPESSEN**  
29 APR 11 (10-3A) Eff 5 May

## LEON, MEXICO

**SID**

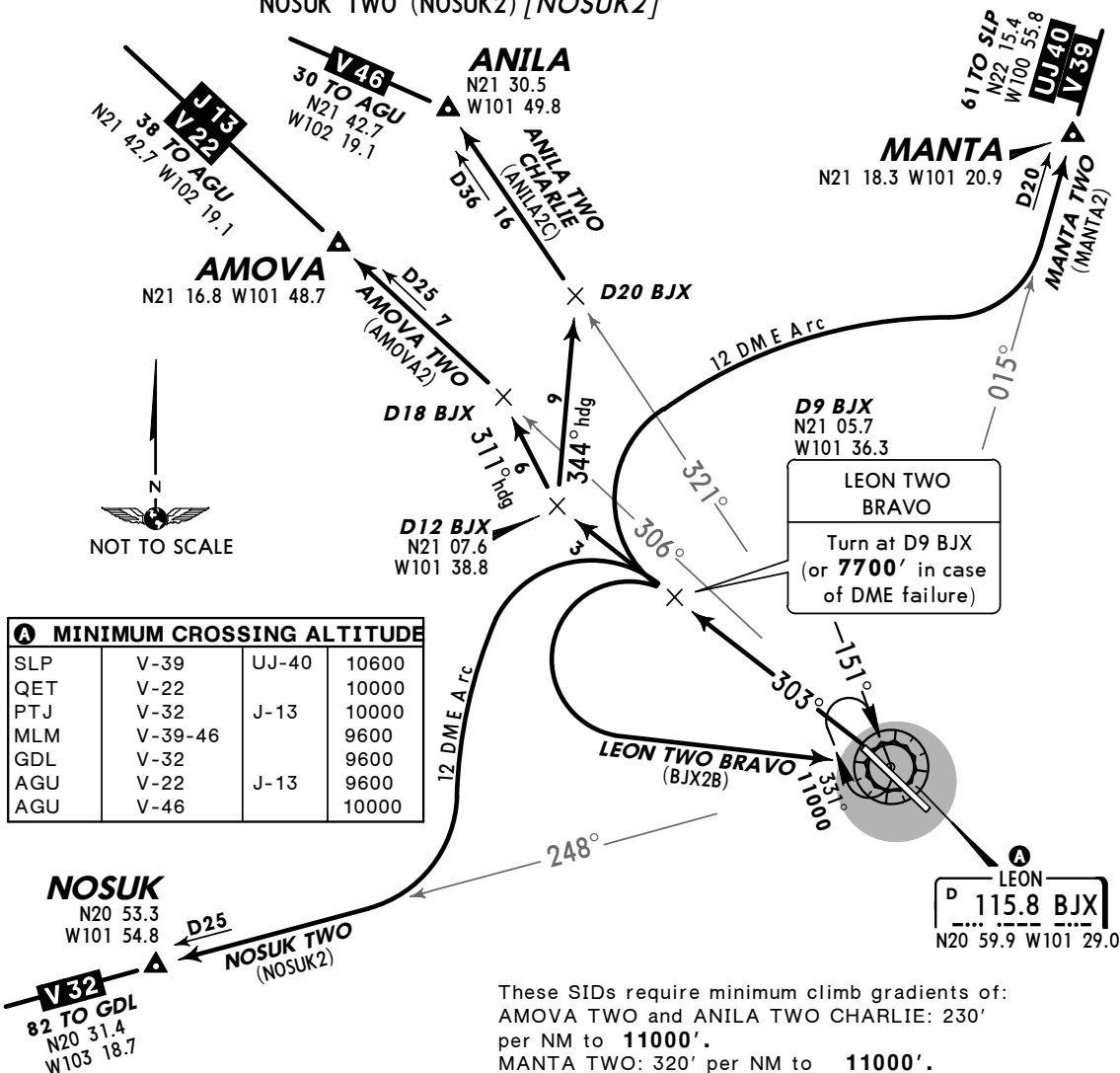
Apt Elev  
5956'

Trans level: FL 195      Trans alt: 18500'



## DEPARTURES RWY 31

AMOVA TWO (AMOVA2) [AMOVA2],  
ANILA TWO CHARLIE (ANILA2C) [ANIL2C],  
LEON TWO BRAVO (BJX2B) [BJX2B], MANTA TWO (MANTA2) [MANTA2],  
NOSUK TWO (NOSUK2) [NOSUK2]



These SIDs require minimum climb gradients of:  
 AMOVA TWO and ANILA TWO CHARLIE: 230'  
 per NM to **11000'**.  
 MANTA TWO: 320' per NM to **11000'**.

Gnd speed-KT	75	100	150	200	250	300
230' per NM	288	383	575	767	958	1150
320' per NM	400	533	800	1067	1333	1600

SID	INITIAL CLIMB
AMOVA TWO	Climb on BJX R-303, at D12 BJX turn RIGHT heading 311° and intercept BJX R-306 to AMOVA. Continue on the assigned route or in accordance with ATC instructions.
ANILA TWO CHARLIE	Climb on BJX R-303, at D12 BJX turn RIGHT heading 344° and intercept BJX R-321 to ANILA. Continue on the assigned route or in accordance with ATC instructions.
LEON TWO BRAVO	Climb on BJX R-303, at D9 BJX (or <b>7700'</b> in case of DME failure), turn LEFT within 12 NM to BJX. Depart BJX at the MCA <b>A</b> for the assigned route or in accordance with ATC instructions.
MANTA TWO	Climb on BJX R-303, at D9 BJX turn RIGHT onto BJX 12 DME Arc to intercept BJX R-015 to MANTA. Continue on the assigned route or in accordance with ATC instructions.
NOSUK TWO	Climb on BJX R-303, at D9 BJX turn LEFT onto BJX 12 DME Arc to intercept BJX R-248 to NOSUK. Continue on the assigned route or in accordance with ATC instructions.

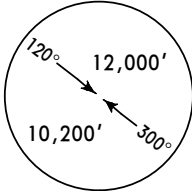
**CHANGES:** None.

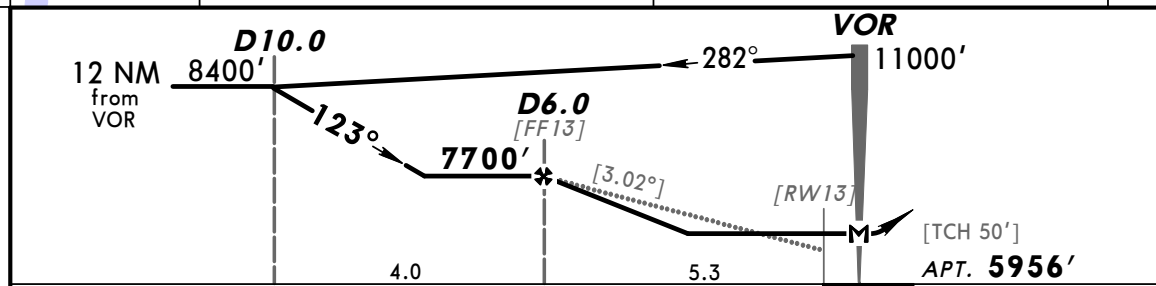
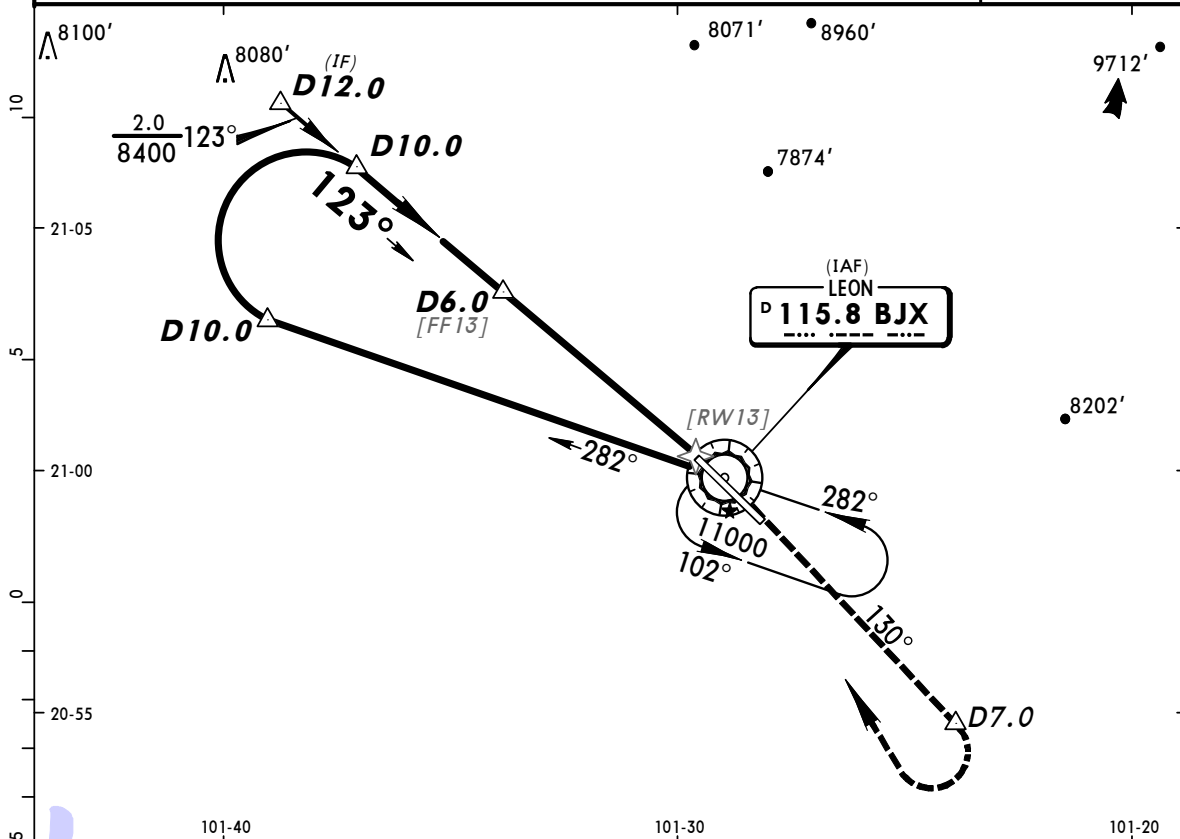
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**MMLO/BJX**  
**DE GUANAJUATO INTL**

**JEPPesen**  
 4 FEB 11 **(13-1)** **Eff 10 Feb**

**LEON, MEXICO**  
**VOR DME 1 Rwy 13**

*ATIS <b>128.4</b>		*LEON Approach (R) <b>119.05</b>		*LEON Tower <b>118.35</b>	
VOR BJX <b>115.8</b>	Final Apch Crs <b>123°</b>	Minimum Alt <b>D6.0</b> <b>7700'</b> (1744')	MDA(H) <b>6500'</b> (544')	Apt Elev <b>5956'</b>	
<b>MISSED APCH:</b> Climb outbound on BJX VOR R-130 to D7.0, turn <b>RIGHT</b> within 10 NM and return to BJX VOR to the minimum holding altitude.					
Alt Set: MB (IN on req) Apt Elev: 200 MB Trans level: FL 195 Trans alt: 18500' 1. CAUTION: Do not use radio altimeter as reference to determine the altitude over the airport due to orographic conditions.					MSA BJX VOR



Gnd speed-Kts	70	90	100	120	140	160	REIL PAPI-L		BJX on <b>115.8</b> <b>R-130</b>		<b>D7.0</b>
Descent Angle [3.02°]	374	481	534	641	748	855					
MAP at VOR											

STRAIGHT-IN LANDING RWY 13				CIRCLE-TO-LAND			
MDA(H) <b>6500'</b> (544')							
A	1			Max Kts	MDA(H)		
B				90	<b>6560'</b> (604')-1		
C	1½			120	<b>6600'</b> (644')-1¾		
D	1¾			140	<b>6600'</b> (644')-2		
				165			

**MMLO/BJX**

Apt Elev **5956'**  
 N20 59.6 W101 28.9

**JEPPESEN**

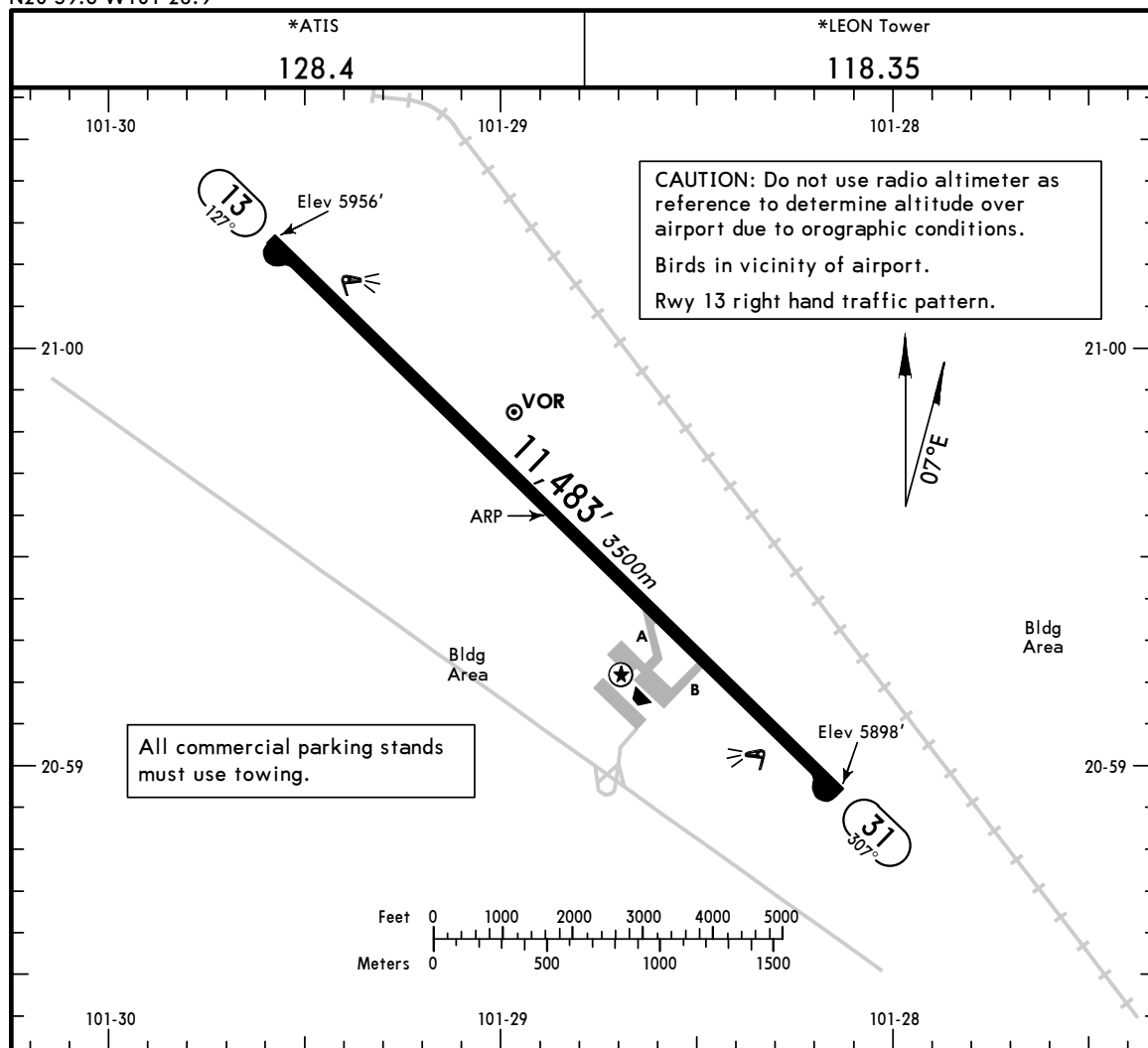
4 FEB 11

**(13-1)**

**Eff 10 Feb**

**LEON, MEXICO**

**DE GUANAJUATO INTL**



**ADDITIONAL RUNWAY INFORMATION**

RWY			USABLE LENGTHS		TAKE-OFF	WIDTH
			LANDING BEYOND Threshold	Glide Slope		
13 31	HIRL REIL PAPI-L (angle 3.0°)					148' 45m

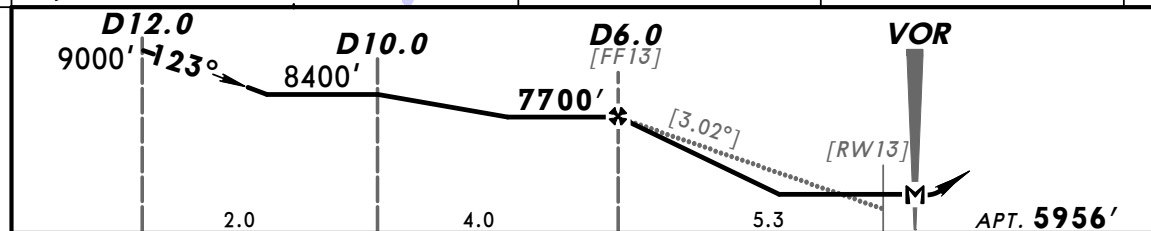
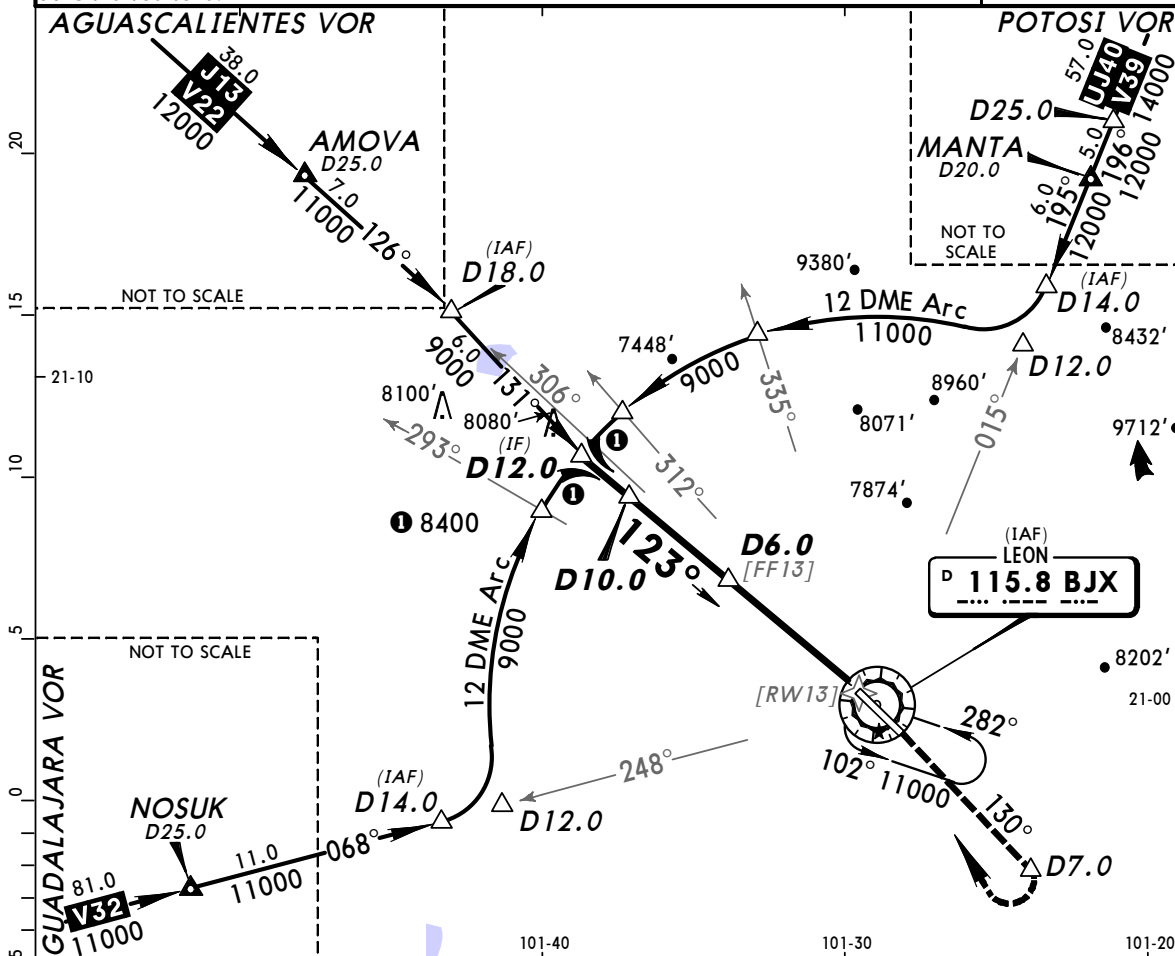
TAKE-OFF				FOR FILING AS ALTERNATE	
	Rwy 13		Rwy 31		
1 & 2 Eng				A	1200-3
3 & 4 Eng	300-½		300-1	B	
				C	
				D	

**MMLO/BJX**  
 DE GUANAJUATO INTL

**JEPPesen**  
 4 FEB 11 **(13-2)** Eff 10 Feb

**LEON, MEXICO**  
**VOR DME 2 Rwy 13**

*ATIS <b>128.4</b>		*LEON Approach (R) <b>119.05</b>		*LEON Tower <b>118.35</b>
VOR BJX <b>115.8</b>	Final Apch Crs <b>123°</b>	Minimum Alt <b>D6.0</b> <b>7700'</b> (1744')	MDA(H) <b>6500'</b> (544')	Apt Elev <b>5956'</b>
<b>MISSED APCH:</b> Climb on BJX VOR R-130 to D7.0, turn RIGHT within 10 NM and return to BJX VOR to the minimum holding altitude.				
Alt Set: MB(IN on Req) Apt Elev: 200 MB Trans level: FL 195 Trans alt: 18500' 1. CAUTION: Do not use radio altimeter as reference to determine the altitude over the airport due to orographic conditions. 2. In case of DME failure at any point during the procedure, maintain last altitude and proceed to the station in accordance with ATC instructions.				
				MSA BJX VOR



Gnd speed-Kts	70	90	100	120	140	160				
Descent Angle [3.02°]	374	481	534	641	748	855				
MAP at VOR										

STRAIGHT-IN LANDING RWY13				CIRCLE-TO-LAND			
MDA(H) <b>6500'</b> (544')				Max Kts	MDA(H)		
A	1			90	6560' (604') - 1		
B				120			
C	1½			140	6600' (644') - 1¾		
D	1¾			165	6600' (644') - 2		

LEON, MEXICO  
VOR DME 1 Rwy 31

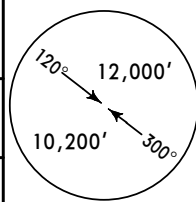
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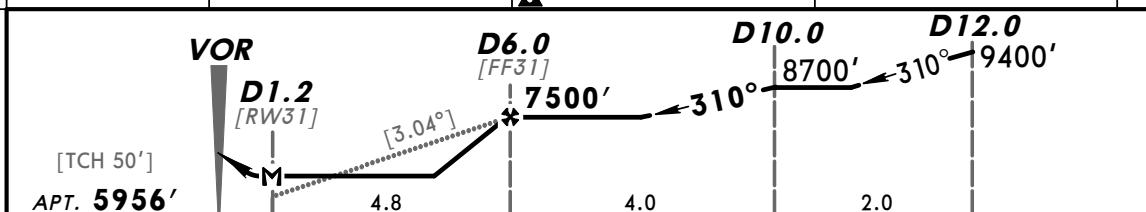
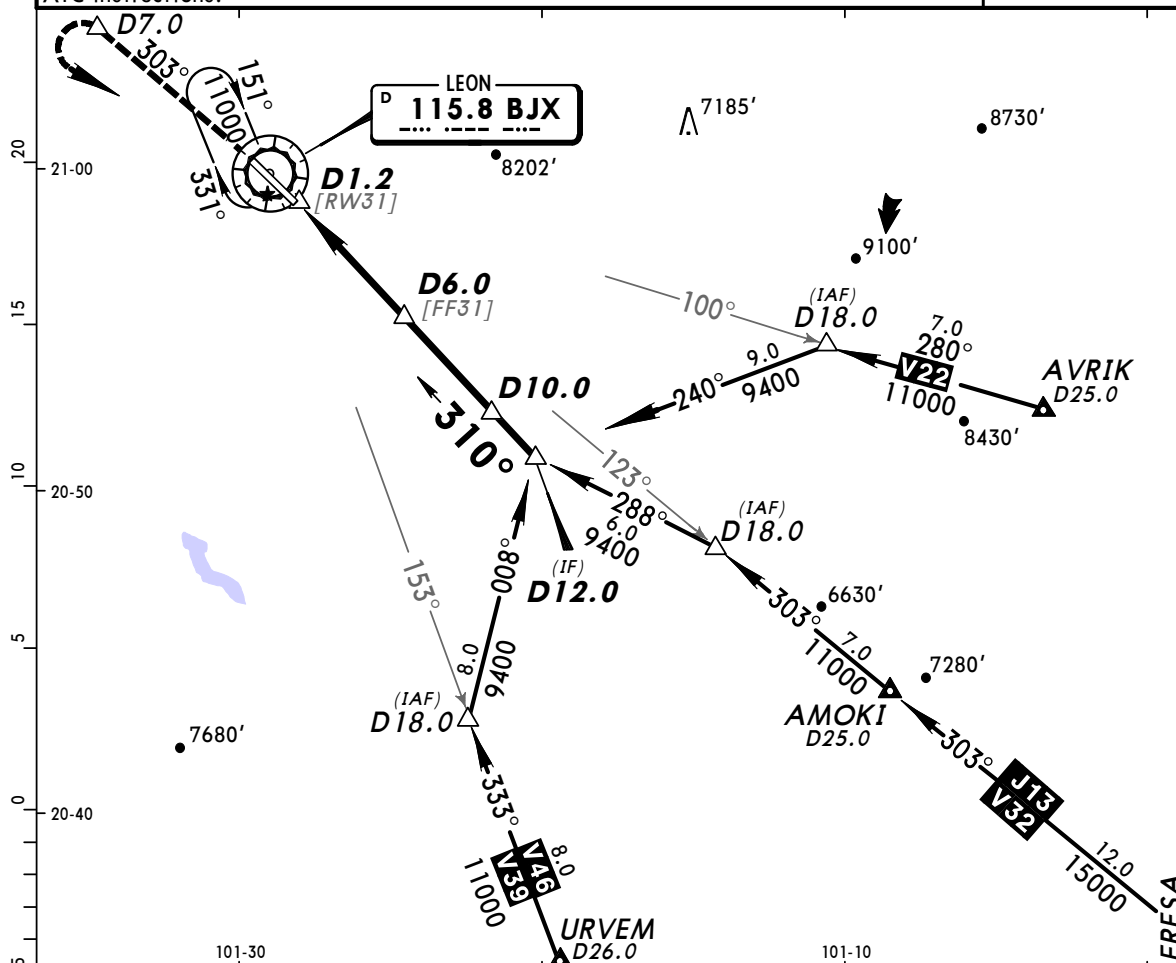


**MMLO/BJX**  
**DE GUANAJUATO INTL**

**JEPPESSEN**  
 4 FEB 11 **(13-4)** **Eff 10 Feb**

**LEON, MEXICO**  
**VOR DME 2 Rwy 31**

*ATIS <b>128.4</b>		*LEON Approach (R) <b>119.05</b>		*LEON Tower <b>118.35</b>	
VOR BJX <b>115.8</b>	Final Apch Crs <b>310°</b>	Minimum Alt D6.0 <b>7500'</b> (1544')	MDA(H) <b>6400'</b> (444')	Apt Elev <b>5956'</b>	
<b>MISSED APCH:</b> Climb outbound on BJX VOR R-303 to D7.0, turn LEFT within 10 NM and return to BJX VOR to the minimum holding altitude.					 <p>MSA BJX VOR</p>
Alt Set: MB (IN on Req) Apt Elev: 200 MB Trans level: FL 195 Trans alt: 18500' 1. CAUTION: Do not use radio altimeter as reference to determine the altitude over the airport due to orographic conditions. 2. In case of DME failure at any point during the procedure, maintain last altitude and proceed to the station in accordance with ATC instructions.					



Gnd speed-Kts	70	90	100	120	140	160	REIL PAPI-L		BJX on <b>115.8</b> <b>R-303</b>		<b>D7.0</b>
Descent Angle [3.04°]	376	484	538	645	753	861					
MAP at D1.2											

STRAIGHT-IN LANDING RWY31				CIRCLE-TO-LAND			
MDA(H) <b>6400'</b> (444')				Max Kts	MDA(H)		
A	1			90	6460' (504') - 1		
B				120			
C	1 1/4			140	6600' (644') - 1 3/4		
D	1 1/2			165	6600' (644') - 2		

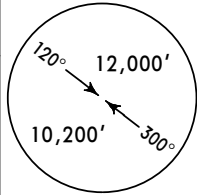
CHANGES: Procedure.

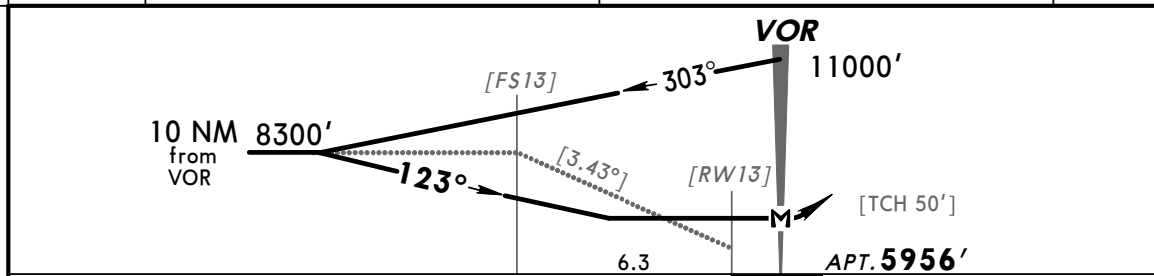
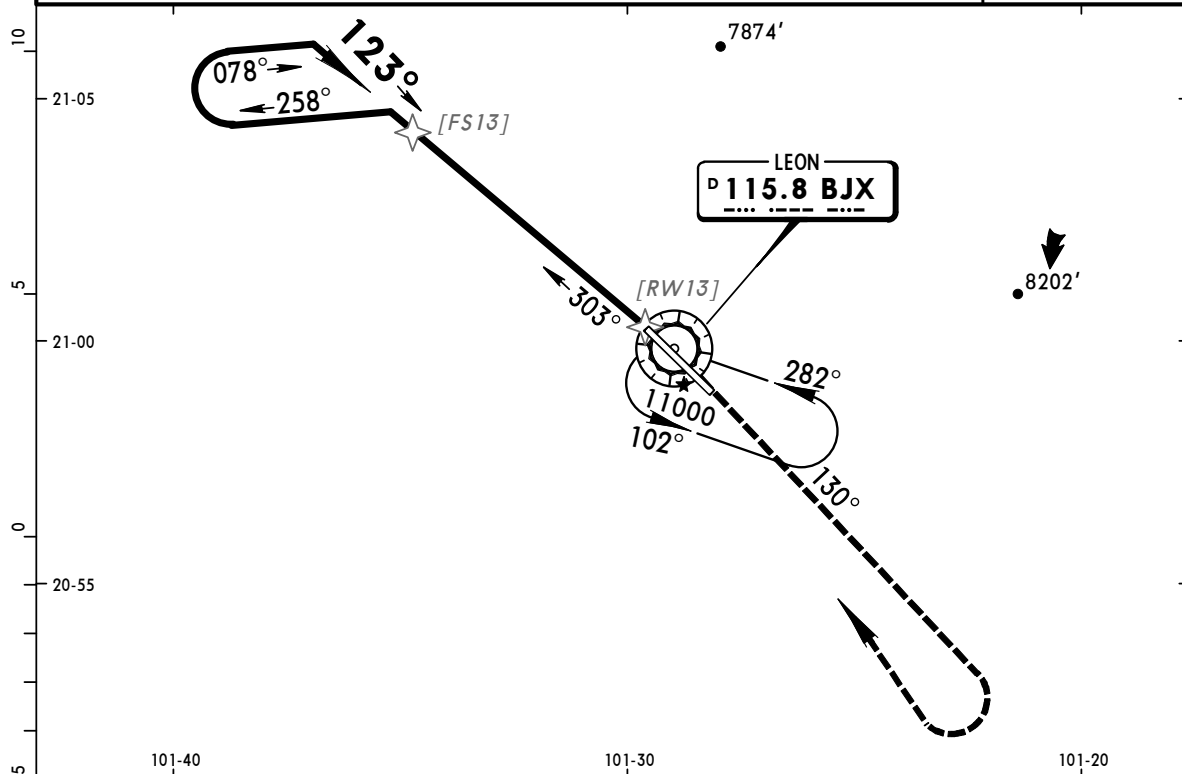
**MMLO/BJX**  
**DE GUANAJUATO INTL**

**JEPPesen**  
 4 FEB 11 **(13-5)** **Eff 10 Feb**

**LEON, MEXICO**  
**VOR Rwy 13**

BRIEFING STRIP™

*ATIS 128.4		*LEON Approach (R) 119.05				*LEON Tower 118.35		
VOR BJX 115.8	Final Apch Crs 123°	No FAF	MDA(H) 7160' (1204')		Apt Elev 5956'			
MISSED APCH: Climb outbound on BJX VOR R-130, turn RIGHT within 10 NM and return to BJX VOR to the minimum holding altitude.								
MAX TIME TO TURN								
Gnd Speed-Kts	80	100	120	140	160		180	200
7 NM to turn	5:15	4:12	3:30	3:00	2:38		2:20	2:06
Alt Set: MB (IN on req) Apt Elev: 200 MB Trans level: FL 195 Trans alt: 18500'						MSA BJX VOR		
1. CAUTION: Do not use radio altimeter as reference to determine the altitude over the airport due to orographic conditions.								



Gnd speed-Kts	70	90	100	120	140	160	REIL PAPI-L	BJX on <b>115.8</b> <b>R-130</b>
Descent Angle [3.43°]	425	546	607	728	850	971		
MAP at VOR								

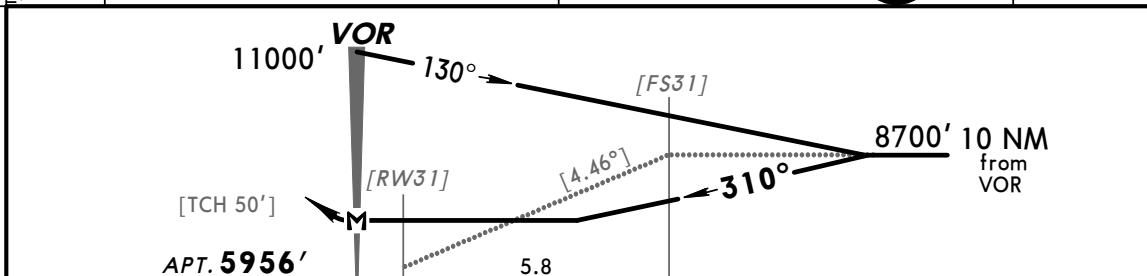
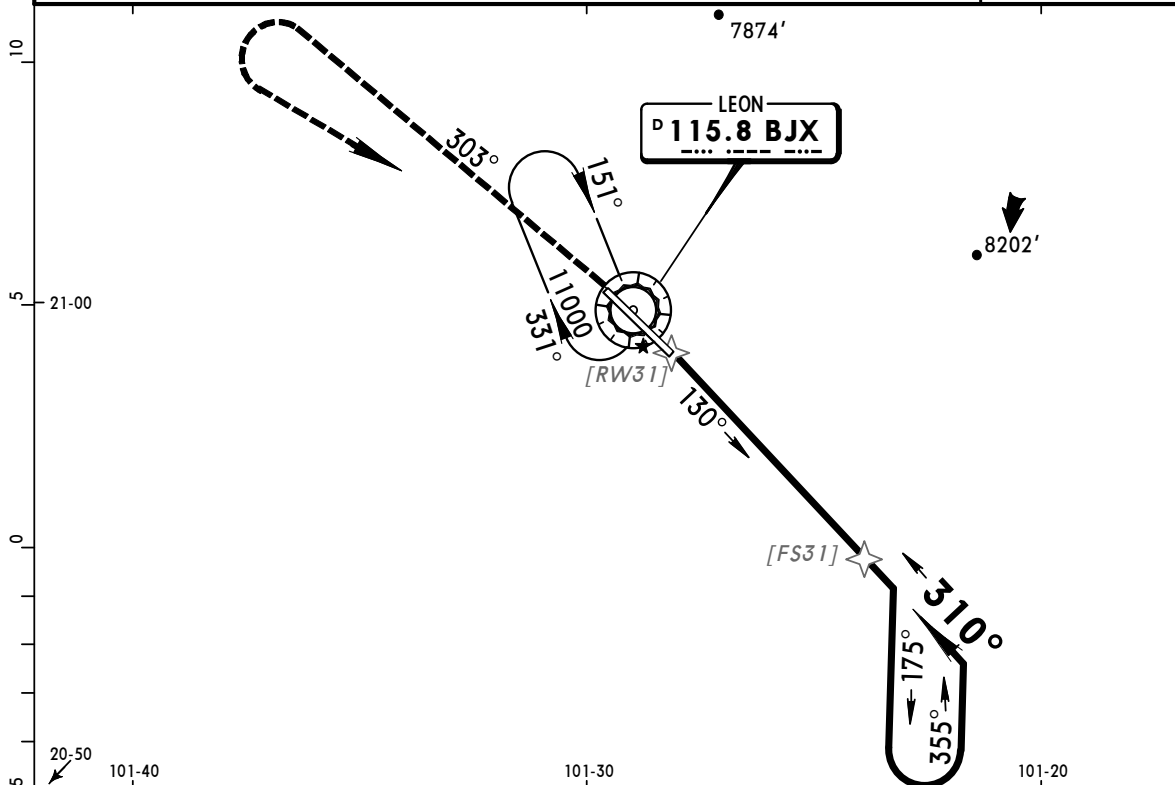
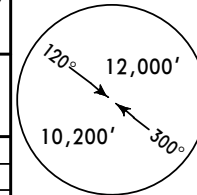
STRAIGHT-IN LANDING RWY 13			CIRCLE-TO-LAND		
MDA(H) <b>7160' (1204')</b>					
A	1¼		Max Kts	MDA(H)	
B	1½		90	7160' (1204') - 1¼	
C			120	7160' (1204') - 1½	
D	3		140	7160' (1204') - 3	
			165		

**MMLO/BJX**  
**DE GUANAJUATO INTL**

**JEPPesen**  
 4 FEB 11 **(13-6)** **Eff 10 Feb**

**LEON, MEXICO**  
**VOR Rwy 31**

*ATIS <b>128.4</b>		*LEON Approach (R) <b>119.05</b>		*LEON Tower <b>118.35</b>																									
VOR BJX <b>115.8</b>	Final Apch Crs <b>310°</b>	No FAF	MDA(H) <b>6960' (1004')</b>	Apt Elev <b>5956'</b>																									
<b>MISSED APCH:</b> Climb outbound on BJX VOR R-303, turn LEFT within 10 NM and return to BJX VOR to the minimum holding altitude.																													
<table border="1"> <tr> <th colspan="8">MAX TIME TO TURN</th> </tr> <tr> <th>Gnd speed-Kts</th> <th>80</th> <th>100</th> <th>120</th> <th>140</th> <th>160</th> <th>180</th> <th>200</th> </tr> <tr> <td>7 NM to turn</td> <td>5:15</td> <td>4:12</td> <td>3:30</td> <td>3:00</td> <td>2:38</td> <td>2:20</td> <td>2:06</td> </tr> </table>						MAX TIME TO TURN								Gnd speed-Kts	80	100	120	140	160	180	200	7 NM to turn	5:15	4:12	3:30	3:00	2:38	2:20	2:06
MAX TIME TO TURN																													
Gnd speed-Kts	80	100	120	140	160	180	200																						
7 NM to turn	5:15	4:12	3:30	3:00	2:38	2:20	2:06																						
Alt Set: MB (IN on req) Apt Elev: 200 MB Trans level: FL 195 Trans alt: 18500' 1. CAUTION: Do not use radio altimeter as reference to determine the altitude over the airport due to orographic conditions.																													



Gnd speed-Kts	70	90	100	120	140	160				
Descent Angle [4.46°]	553	711	790	948	1106	1264				
MAP at VOR										

STRAIGHT-IN LANDING RWY 31				CIRCLE-TO-LAND			
MDA(H) <b>6960' (1004')</b>							
A	1 1/4			Max Kts	MDA(H)		
B	1 1/2			90	6960' (1004') - 1 1/4		
C	3			120	6960' (1004') - 1 1/2		
D				140	6960' (1004') - 3		
				165			