

**AIRCRAFT OPERATION DEPARTMENT
FLIGHT INSPECTION SERVICES BUREAU
AERONAUTICAL RADIO OF THAILAND LTD.**

FLIGHT INSPECTION REPORT – VOR, VOR/DME, VORTAC TACAN, VOT										FM-AV.PS-06	
1. STATION ROI-ET DVOR/DME				2. LOCATION IDENT. ROT		3. DATE/DATES OF INSPECTION January 18, 2018					
4. TYPE OF INSPECTION										5. COMMON SYSTEM	
SITE EVALUATION		☒		PERIODIC		SPECIAL				YES	
COMMISSIONING				SURVEILLANCE		INCOMPLETE				NO	
6. OWNER		☒		DCA		USAF		OTHER (INDICATE ACTUAL OWNER)			
				RTAF		INTERNATIONAL					
7. FACILITY/COMPONENT INSPECTED				☒		DVOR		☐		VORTAC	
				☐		TACAN		☐		VOT	
				☒		DME					
8. RADIAL DATA											
FACILITY SERVICE DESIGNATION		DVOR	DVOR	DVOR	DVOR	DVOR	DVOR	DVOR	DVOR		
RADIAL USE		MON	MON	B460	B460	W4	W4	W5	W5		
AZIMUTH		180	180	085	065	129	129	290	290		
TRANSMITTER(S)		1	2	1	2	1	2	1	2		
MSL ALTITUDE (in hundreds)		20	20	20	20	20	20	20	20		
DISTANCE (Nautical miles)		FROM	12.9	5.5	5.7	12.9	12.8	5.7	5.6	11.9	
		TO	6.4	13.0	11.6	5.9	6.4	12.2	11.7	5.8	
SENSITIVITY/MODULATION		S	S	S	S	S	S	S	S		
ROUGHNESS		0.3/11.8	0.5/8.6	0.4/10.3	0.2/7.4	0.2/7.4	0.4/7.6	0.7/8.1	0.2/8.8		
SCALLOPING		0	0	0	0	0	0	0	0		
BENDS		0.1/12.8	0.1/7.3	0.2/6.2	0.1/6.2	0.2/12.8	0.1/10.6	0.1/8.1	0.05/7.3		
POLARIZATION		-	0.4/12.5	-	-	-	-	-	-		
ALIGNMENT ERROR		0.0	0.0	+0.6	+0.7	-0.3	-0.3	-0.3	-0.2		
TRANSMITTER DIFFERENCE		0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1		
SIGNAL STRENGTH		50+	50+	50+	50+	50+	50+	50+	50+		
INTERFERENCE		S	S	S	S	S	S	S	S		
9. GENERAL		SAT.	UNSAT.	10. MONITORS							
STANBY POWER		-		LAST DATE INSPECTED				January 30, 2017		TX	ALIGNMENT
VOICE		N/A		DVOR				REFERENCE RADIAL		MON 180/5.4-12.8/20	1
IDENTIFICATION		X		TACAN				REFERENCE RADIAL		/ - /	
DME ACCURACY		X						CHECK POINT			
DME COVERAGE		X						CHECK POINT			
11. DISCREPANCIES AND/OR REMARKS										CORRECTED	
										YES	NO
SEE ATTACHMENT											
FACILITY CLASSIFICATION		PILOT FLIGHT INSPECTOR									
☒ UNRESTRICTED		<i>Sut</i> <i>7. Yutham</i>, <i>Chumpon</i> <i>V. Kanyasorn</i> N/A									
☐ RESTRICTED											
☐ UNUSEABLE											
DIRECTOR, AIRCRAFT OPERATION DEPARTMENT										APPROVED BY THE CIVIL AVIATION AUTHORITY OF THAILAND	
<i>7. Yutham</i>										<i>8 Feb 18</i>	



ATTACHMENT

ROI-ET DVOR/DME DISCREPANCIES

1. This is a periodic check by aircraft register HS-ATS.
2. Coverage orbit data refer from commissioning checked:
 - 2.1 40 NM clockwise-orbit flown from radial 001-360 degree altitude should not below 2,000 feet.
 - 2.2 Airway W5 flown to 40 NM at 2,000 feet was checked and found satisfactory.
3. Facility performance classified as "Unrestricted".
4. Next periodic check is due on January 18, 2019.
(Extendable up to February 17, 2019)



**AIRCRAFT OPERATION DEPARTMENT
FLIGHT INSPECTION SERVICES BUREAU
AERONAUTICAL RADIO OF THAILAND LTD.**

FLIGHT INSPECTION REPORT – VOR, VOR/DME, VORTAC TACAN, VOT										FM-AV.PS-06	
1. STATION NAKHON SI THAMMARAT DVOR/DME				2. LOCATION IDENT. NKS		3. DATE/DATES OF INSPECTION August 3, 2018					
4. TYPE OF INSPECTION											
SITE EVALUATION		☒ PERIODIC		☐ SPECIAL		5. COMMON SYSTEM					
COMMISSIONING		☐ SURVEILLANCE		☐ INCOMPLETE		☐ YES ☐ NO					
6. OWNER		☒ DCA		☐ USAF		OTHER (INDICATE ACTUAL OWNER)					
		☐ RTAF		☐ INTERNATIONAL							
7. FACILITY/COMPONENT INSPECTED				☒ DVOR		☐ VORTAC		☐ TACAN		☐ VOT ☒ DME	
8. RADIAL DATA											
FACILITY SERVICE DESIGNATION		DVOR	DVOR	DVOR	DVOR	DVOR	DVOR	DVOR	DVOR		
RADIAL USE		MON	MON	APCH	APCH	W28	W28	APCH	APCH		
AZIMUTH		350	350	002	002	165	165	190	190		
TRANSMITTER(S)		1	2	1	2	1	2	1	2		
MSL ALTITUDE (in hundreds)		35	35	15	15	15	15	55	55		
DISTANCE (Nautical miles)		FROM	5.0	12.0	8.6	5.0	12.0	5.0	12.0	5.0	
		TO	12.2	4.9	12.0	11.2	4.9	12.1	5.0	12.1	
SENSITIVITY/MODULATION		S	S	S	S	S	S	S	S		
ROUGHNESS		0.5/5.2	0.3/5.7	1.3/7.5	0.5/10.8	0.8/10.6	0.3/11.7	0.6/7.1	0.4/7.7		
SCALLOPING		0	0	0	0	0	0	0	0		
BENDS		0.9/5.0	0.4/5.3	0.2/6.7	0.1/10.7	0.1/7.7	0.1/7.3	0.5/7.9	0.6/7.9		
POLARIZATION		0.4/11.5	-	-	-	-	-	-	-		
ALIGNMENT ERROR		-0.1	+0.1	-0.1	0.3	-1.1	-1.0	-0.1	0.1		
TRANSMITTER DIFFERENCE		0.2	0.2	0.4	0.4	0.1	0.1	0.2	0.2		
SIGNAL STRENGTH		50+	50+	50+	50+	50+	50+	50+	50+		
INTERFERENCE		S	S	S	S	S	S	S	S		
9. GENERAL		SAT.	UNSAT.	10. MONITORS							
STANBY POWER		-		LAST DATE INSPECTED August 7, 2017				TX	ALIGNMENT	ALARM +	ALARM -
VOICE		N/A		REFERENCE RADIAL MON 350/5.0-15.0/35				1	-0.1	0.9	0.8
IDENTIFICATION		X		CHECK POINT							
DME ACCURACY		X		REFERENCE RADIAL / - /							
DME COVERAGE		X		CHECK POINT							
11. DISCREPANCIES AND/OR REMARKS										CORRECTED	
SEE ATTACHMENT										YES	NO
FACILITY CLASSIFICATION		PILOT FLIGHT INSPECTOR									
☐ UNRESTRICTED		Panel Operator <i>Vasudhaya Y. Tanwatt</i> Theodolite Operator N/A									
☒ RESTRICTED											
☐ UNUSEABLE											
DIRECTOR, AIRCRAFT OPERATION DEPARTMENT											
APPROVED BY THE CIVIL AVIATION AUTHORITY OF THAILAND											



ATTACHMENT

NAKHON SI THAMMARAT DVOR/DME DISCREPANCIES

1. This is a periodic check by aircraft register HS-PBN.
2. Coverage orbit data refer from commissioning checked :
due to mountainous terrain surround DVOR/DME station coverage check does not provide adequate signal 40 NM. at required altitude and distances in various areas as following:

- Radial 001 - 190 degree beyond 40 NM. altitude should not below 2,500 feet.
- Radial 191 - 240 degree beyond 40 NM. altitude should not below 7,000 feet.
- Radial 241 - 280 degree beyond 25 NM. altitude should not below 8,000 feet.
- Radial 281 - 320 degree beyond 40 NM. altitude should not below 7,000 feet.
- Radial 321 - 360 degree beyond 40 NM. altitude should not below 5,000 feet.

Result found satisfactory.

3. Facility performance classified as "Restricted" due to item number 2 above.
4. Next periodic check is due on August 3, 2019.

(Extendable up to September 2, 2019)



**AIRCRAFT OPERATION DEPARTMENT
FLIGHT INSPECTION SERVICES BUREAU
AERONAUTICAL RADIO OF THAILAND LTD.**

FLIGHT INSPECTION REPORT – VOR, VOR/DME, VORTAC TACAN, VOT										FM-AV.PS-06	
1. STATION NARATHIWAT DVOR/DME				2. LOCATION IDENT. NTW		3. DATE/DATES OF INSPECTION September 13, 2018					
4. TYPE OF INSPECTION											
SITE EVALUATION		☒		PERIODIC		SPECIAL		5. COMMON SYSTEM			
COMMISSIONING		☐		SURVEILLANCE		INCOMPLETE		YES ☐ NO ☐			
6. OWNER		DCA		USAF		OTHER (INDICATE ACTUAL OWNER)					
		RTAF		INTERNATIONAL		AERONAUTICAL RADIO OF THAILAND LTD.					
7. FACILITY/COMPONENT INSPECTED				☒ DVOR		☐ VORTAC		☐ TACAN		☐ VOT ☒ DME	
8. RADIAL DATA											
FACILITY SERVICE DESIGNATION		DVOR	DVOR	DVOR	DVOR	DVOR	DVOR	DVOR	DVOR		
RADIAL USE		MON	MON	-	-	APCH	APCH	W14	W14		
AZIMUTH		020	020	090	090	198	198	294	294		
TRANSMITTER(S)		1	2	1	2	1	2	1	2		
MSL ALTITUDE (in hundreds)		15	15	15	15	45	45	45	45		
DISTANCE (Nautical miles)		FROM	7.1	13.4	13.7	7.2	13.1	6.6	6.8	13.9	
		TO	13.1	7.1	7.0	14.8	6.7	13.1	12.8	7.7	
SENSITIVITY/MODULATION		S	S	S	S	S	S	S	S		
ROUGHNESS		0.5/12.5	0.2/8.6	0.3/10.2	0.5/7.3	0.3/7.3	0.6/6.6	1.5/9.5	2.1/10.0		
SCALLOPING		0	0	0	0	0	0	0	0		
BENDS		0.2/12.4	0.1/13.1	0.1/7.7	0.2/7.2	0.1/13.0	0.4/6.6	0.3/8.0	0.3/8.4		
POLARIZATION		-	-	-	0.5/13.8	-	-	-	-		
ALIGNMENT ERROR		+0.7	+0.7	-0.5	-0.6	+0.1	+0.2	-1.6	-1.5		
TRANSMITTER DIFFERENCE		0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1		
SIGNAL STRENGTH		50+	50+	50+	50+	50+	50+	50+	50+		
INTERFERENCE		S	S	S	S	S	S	S	S		
9. GENERAL		SAT.	UNSAT.	10. MONITORS							
STANBY POWER		-		LAST DATE INSPECTED August 18, 2017				TX	ALIGNMENT	ALARM +	ALARM -
VOICE		N/A		DME REFERENCE RADIAL MON 020/5.8-18.8/15				1	+0.5	0.9	0.9
IDENTIFICATION		X						CHECK POINT			
DME ACCURACY		X		TACAN REFERENCE RADIAL / - /							
DME COVERAGE		X						CHECK POINT			
11. DISCREPANCIES AND/OR REMARKS										CORRECTED	
SEE ATTACHMENT										YES	NO
FACILITY CLASSIFICATION		PILOT FLIGHT INSPECTOR									
UNRESTRICTED		<i>Kanin S</i>									
X RESTRICTED		PANEL OPERATOR									
UNUSEABLE		<i>17, Utsanue</i>									
		THEODOLITE OPERATOR									
		N/A									
DIRECTOR, AIRCRAFT OPERATION DEPARTMENT											
<i>Mr. Ch. Somrat V.</i>											
APPROVED BY THE CIVIL AVIATION AUTHORITY OF THAILAND											
<i>9 Oct 2018</i>											

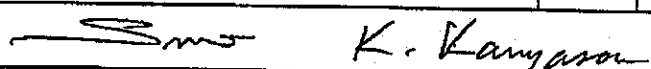
ATTACHMENT

NARATHIWAT DVOR/DME DISCREPANCIES

1. This is a periodic check by aircraft register HS-ATS.
2. Coverage orbit data refer from commissioning checked:
due to mountainous terrain surround DVOR/DME station coverage check does not provide adequate signal to 40 NM. at required altitude in various areas.
 - 2.1 40 NM. clockwise orbit flown from
 - Radial 271 - 290 degree altitude should not below 9,000 feet.
 - Radial 291 - 300 degree altitude should not below 4,000 feet.
 - Radial 301 - 020 degree altitude should not below 2,000 feet.Result found satisfactory.
 - 2.2 20 NM. clockwise orbit flown from (due to border limited)
 - Radial 021 - 130 degree altitude should not below 2,000 feet.
 - Radial 131 - 270 degree altitude should not below 5,000 feet.Result found satisfactory.
3. Facility performance classified as "Restricted" due to 2 above.
4. Next periodic check is due on September 13, 2019.
(Extendable up to October 13, 2019)



**AIRCRAFT OPERATION DEPARTMENT
FLIGHT INSPECTION SERVICES BUREAU
AERONAUTICAL RADIO OF THAILAND LTD.**

FLIGHT INSPECTION REPORT - VOR, VOR/DME, VORTAC TACAN, VOT										FM-AV.PS-06			
1. STATION LAMPANG DVOR/DME					2. LOCATION IDENT. LPN		3. DATE/DATES OF INSPECTION October 11, 2018						
4. TYPE OF INSPECTION													
SITE EVALUATION		☒		PERIODIC				SPECIAL		☐			
COMMISSIONING				SURVEILLANCE				INCOMPLETE		☐			
5. COMMON SYSTEM										☐			
6. OWNER		DCA		USAF		OTHER (INDICATE ACTUAL OWNER)							
		RTAF		INTERNATIONAL		AERONAUTICAL RADIO OF THAILAND LTD.							
7. FACILITY/COMPONENT INSPECTED					☒		DVOR		☐		VORTAC		
					☐		TACAN		☐		VOT		
					☒		DME						
8. RADIAL DATA													
FACILITY SERVICE DESIGNATION		DVOR		DVOR		DVOR		DVOR		DVOR		DVOR	
RADIAL USE		MON		MON		W23		W23		-		-	
AZIMUTH		360		360		153		153		200		200	
TRANSMITTER(S)		1		2		1		2		1		2	
MSL ALTITUDE (in hundreds)		45		45		50		50		45		45	
DISTANCE (Nautical miles)		FROM		5.2		5.3		11.7		5.2		5.4	
		TO		10.4		12.8		5.3		10.8		11.0	
SENSITIVITY/MODULATION		S		S		S		S		S		S	
ROUGHNESS		0.5/5.4		1.9/10.3		0.5/5.6		1.4/5.2		0.6/10.4		1.1/10.0	
SCALLOPING		0		0		0		0		0		0	
BENDS		0.2/5.8		0.2/5.9		0.2/11.8		0.1/5.2		0.1/6.1		0.1/10.9	
POLARIZATION		-		-		-		-		-		0.6/11.9	
ALIGNMENT ERROR		-0.3		-0.1		-0.9		-0.9		+0.3		0.0	
TRANSMITTER DIFFERENCE		0.2		0.2		0.0		0.0		0.3		0.3	
SIGNAL STRENGTH		50+		50+		50+		50+		50+		50+	
INTERFERENCE		S		S		S		S		S		S	
9. GENERAL													
SAT.		UNSAT.											
STANBY POWER		-											
VOICE		N/A											
IDENTIFICATION		X											
DME ACCURACY		X											
DME COVERAGE		X											
10. MONITORS													
LAST DATE INSPECTED		October 11, 2018											
TX		ALIGNMENT		ALARM +		ALARM -							
1		-0.3		0.9		0.9							
REFERENCE RADIAL		MON360/5.2-10.4/45											
CHECK POINT													
TACAN		REFERENCE RADIAL		/ - /									
CHECK POINT													
11. DISCREPANCIES AND/OR REMARKS													
SEE ATTACHMENT										CORRECTED			
										YES		NO	
FACILITY CLASSIFICATION				PILOT FLIGHT INSPECTOR									
UNRESTRICTED													
X RESTRICTED													
UNUSEABLE				PANEL OPERATOR				THEODOLITE OPERATOR					
								N/A					
DIRECTOR, AIRCRAFT OPERATION DEPARTMENT													
APPROVED BY THE CIVIL AVIATION AUTHORITY OF THAILAND													

24/10/18
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AIRCRAFT OPERATION DEPARTMENT
FLIGHT INSPECTION SERVICES BUREAU
AERONAUTICAL RADIO OF THAILAND LTD.

VOR, VOR/DME, VORTAC, TACAN ORBITAL PLOT				☒ DVOR ☐ TACAN ☒ DME		FM-AV.PS-06	
1. STATION LAMPANG DVOR/DME				2. DATE/DATES OF INSPECTION October 11, 2018			
3. ALTITUDE 50							
4. AZIMUTH ERROR (+OR-) PLOTTING CODE: VOR #1 _____ VOR #2 _____ TACAN #1 _____ TACAN #2 _____							
5. CHECK POINT LOCATION 							
6. TACAN DISTANCE LOCK ON 							
7. TACAN AZIMUTH LOCK ON 							
8. AREA OF INTERFERENCE 							
9. ROUGHNESS +/- (Do not plot if less than +/- 1.0 degree) 							
10. SCALLOPING +/- (Do not plot if less than +/- 1.0 degree) 							
11. VOR COVERAGE SIGNAL STRENGTH #1 _____ SIGNAL STRENGTH #2 _____				FLAG ALARM #1 _____ FLAG ALARM #2 _____			
12. ORBITAL ERROR SPREAD		EQUIPMENT ☒ TX ☐ TP NO. 1 ☒ TX ☐ TP NO. 2		- + SPREAD -1.2 +0.8 1.8 -1.0 +0.4 1.4		13. ORBIT RADIUS 8 NM.	
				PILOT FLIGHT INSPECTOR <i>[Signature]</i> PANEL OPERATOR <i>[Signature]</i>			

ATTACHMENT

LAMPANG DVOR/DME DISCREPANCIES

1. This is a periodic check by aircraft register HS-ATS.
2. Coverage orbit data refer from commissioning checked:
due to mountainous terrain surround DVOR/DME station coverage check does not provide adequate signal 40 NM. at the required altitude in various areas as following:
 - Radial 351-070 degree beyond 40 NM. altitude should not below 6,000 feet.
 - Radial 071-130 degree beyond 30 NM. altitude should not below 6,000 feet.
 - Radial 131-320 degree beyond 40 NM. altitude should not below 6,000 feet.
 - Radial 321-350 degree beyond 30 NM. altitude should not below 6,000 feet.

Result found satisfactory.

3. Facility performance classified as "Restricted" due to item number 2 above.
4. Next periodic check is due on October 11, 2019.
(Extendable up to November 10, 2019)



**AIRCRAFT OPERATION DEPARTMENT
FLIGHT INSPECTION SERVICES BUREAU
AERONAUTICAL RADIO OF THAILAND LTD.**

FLIGHT INSPECTION REPORT - VOR, VOR/DME, VORTAC TACAN, VOT										FM-AV.PS-06	
1. STATION PHETCHABUN DVOR/DME				2. LOCATION IDENT. PCB		3. DATE/DATES OF INSPECTION October 29, 2018					
4. TYPE OF INSPECTION											
SITE EVALUATION		☒		PERIODIC				SPECIAL			
COMMISSIONING				SURVEILLANCE				INCOMPLETE			
5. COMMON SYSTEM											
6. OWNER		☒		DOA				USAF		OTHER (INDICATE ACTUAL OWNER)	
				RTAF				INTERNATIONAL			
7. FACILITY/COMPONENT INSPECTED				☒		DVOR				VORTAC	
										TACAN	
										VOT	
										☒ DME	
8. RADIAL DATA											
FACILITY SERVICE DESIGNATION		DVOR		DVOR		DVOR		DVOR		DVOR	
RADIAL USE		MON		MON		APCH		APCH		W39	
AZIMUTH		010		010		177		177		200	
TRANSMITTER(S)		1		2		1		2		1	
MSL ALTITUDE (in hundreds)		30		30		30		30		55	
DISTANCE		FROM		14.8		12.7		5.6		12.3	
(Nautical miles)		TO		6.6		5.8		12.3		5.8	
SENSITIVITY/MODULATION		S		S		S		S		S	
ROUGHNESS		1.1/8.6		1.5/9.1		0.4/11.2		0.7/9.7		0.5/7.9	
SCALLOPING		0		0		0		0		0	
BENDS		0.2/8.9		0.4/6.1		0.2/11.3		0.2/6.2		0.1/5.9	
POLARIZATION		0.7/12.3		-		-		-		-	
ALIGNMENT ERROR		0.0		0.0		-0.2		-0.0		-0.2	
TRANSMITTER DIFFERENCE		0.0		0.0		0.2		0.2		0.1	
SIGNAL STRENGTH		50+		50+		50+		50+		50+	
INTERFERENCE		S		S		S		S		S	
9. GENERAL		SAT.		UNSAT.		10. MONITORS					
STANBY POWER		-				LAST DATE INSPECTED October 29, 2018				TX	
VOICE		N/A				REFERENCE RADIAL MON 010/6.8-17.5/30				ALIGNMENT	
IDENTIFICATION		☒				CHECK POINT				ALARM +	
DME ACCURACY		☒				REFERENCE RADIAL / - /				ALARM -	
DME COVERAGE		☒				CHECK POINT					
11. DISCREPANCIES AND/OR REMARKS										CORRECTED	
										YES	
										NO	
SEE ATTACHMENT											
FACILITY CLASSIFICATION		PILOT FLIGHT INSPECTOR R. Suthap									
UNRESTRICTED											
☒ RESTRICTED		PANEL OPERATOR THIANCHAI									
UNUSEABLE		THEODOLITE OPERATOR N/A									
DIRECTOR, AIRCRAFT OPERATION DEPARTMENT Mr. Ch. Somjit V.											
APPROVED BY THE CIVIL AVIATION AUTHORITY OF THAILAND 12 NOV 2018											

AIRCRAFT OPERATION DEPARTMENT
FLIGHT INSPECTION SERVICES BUREAU
AERONAUTICAL RADIO OF THAILAND LTD.

VOR, VOR/DME, VORTAC, TACAN ORBITAL PLOT		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">☒ DVOR</td> </tr> <tr> <td style="text-align: center;">☐ TACAN</td> </tr> <tr> <td style="text-align: center;">☒ DME</td> </tr> </table>	☒ DVOR	☐ TACAN	☒ DME	FM-AV.PS-06							
☒ DVOR													
☐ TACAN													
☒ DME													
1. STATION PHETCHABUN DVOR/DME		2. DATE/DATES OF INSPECTION October 29, 2018											
3. ALTITUDE 50													
4. AZIMUTH ERROR (+OR-) PLOTTING CODE: VOR #1 _____ VOR #2 _____ TACAN #1 _____ TACAN #2 _____ 													
5. CHECK POINT LOCATION <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="height: 15px;"></td></tr> <tr><td style="height: 15px;"></td></tr> <tr><td style="height: 15px;"></td></tr> <tr><td style="height: 15px;"></td></tr> <tr><td style="height: 15px;"></td></tr> </table>													
6. TACAN DISTANCE LOCK ON <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="height: 15px;"></td></tr> </table>													
7. TACAN AZIMUTH LOCK ON <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="height: 15px;"></td></tr> </table>													
8. AREA OF INTERFERENCE <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="height: 15px;"></td></tr> </table>													
9. ROUGHNESS +/- (Do not plot if less than +/- 1.0 degree) 													
10. SCALLOPING +/- (Do not plot if less than +/- 1.0 degree) 													
11. VOR COVERAGE SIGNAL STRENGTH #1 _____ SIGNAL STRENGTH #2 _____ FLAG ALARM #1 _____ FLAG ALARM #2 _____ 													
12. ORBITAL ERROR <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">☒ TX ☐ TP</td> <td style="text-align: center;">NO. 1</td> <td style="text-align: center;">-1.0</td> <td style="text-align: center;">+0.1</td> <td style="text-align: center;">1.1</td> </tr> <tr> <td style="text-align: center;">☒ TX ☐ TP</td> <td style="text-align: center;">NO. 2</td> <td style="text-align: center;">-0.8</td> <td style="text-align: center;">+0.1</td> <td style="text-align: center;">0.9</td> </tr> </table>		☒ TX ☐ TP	NO. 1	-1.0	+0.1	1.1	☒ TX ☐ TP	NO. 2	-0.8	+0.1	0.9	13. ORBIT RADIUS 8 NM.	
☒ TX ☐ TP	NO. 1	-1.0	+0.1	1.1									
☒ TX ☐ TP	NO. 2	-0.8	+0.1	0.9									
		PILOT FLIGHT INSPECTOR <i>R. Suthap</i> PANEL OPERATOR <i>THIANCHAI</i>											

ATTACHMENT

PHETCHABUN DVOR/DME DISCREPANCIES

1. This is a periodic check by aircraft register HS-ATS.
2. Coverage orbit data refer from commissioning checked:
due to mountainous terrain surround DVOR/DME station coverage check does not provide adequate signal 40 NM. at required altitudes and distances in various areas as following:
 - Radial 061-230 degree beyond 30 NM. altitude should not below 6,500 feet.
 - Radial 231-320 degree beyond 30 NM. altitude should not below 8,000 feet.
 - Radial 321-060 degree beyond 40 NM. altitude should not below 7,500 feet.Result found satisfactory.
3. During checked found roughness out of tolerance on radial 276 altitude 5,500 feet (MSL) distance between 7-9 DME.
NOTAM: PHETCHABUN DVOR/DME unusable on radial 276 distance between
7-9 DME
4. Facility performance classified as "Restricted" due to item number 2 and 3 above.
5. Next periodic check is due on October 29, 2019.
(Extendable up to November 28, 2019)



**AIRCRAFT OPERATION DEPARTMENT
FLIGHT INSPECTION SERVICES BUREAU
AERONAUTICAL RADIO OF THAILAND LTD.**

FLIGHT INSPECTION REPORT - VOR, VOR/DME, VORTAC TACAN, VOT										FM-AV.PS-06		
1. STATION SURAT DVOR/DME					2. LOCATION IDENT. STN		3. DATE/DATES OF INSPECTION February 21, 2018					
4. TYPE OF INSPECTION										5. COMMON SYSTEM		
SITE EVALUATION			☒ PERIODIC		SPECIAL			YES				
COMMISSIONING			SURVEILLANCE		INCOMPLETE			NO				
6. OWNER		☒	DCA		USAF		OTHER (INDICATE ACTUAL OWNER)					
			RTAF		INTERNATIONAL							
7. FACILITY/COMPONENT INSPECTED			☒	DVOR		VORTAC		TACAN		VOT	☒	DME
8. RADIAL DATA												
FACILITY SERVICE DESIGNATION		DVOR	DVOR	DVOR	DVOR	DVOR	DVOR	DVOR	DVOR			
RADIAL USE		MON	MON	W17	W17	-	-	W17	W17			
AZIMUTH		040	040	150	150	227	227	320	320			
TRANSMITTER(S)		1	2	1	2	1	2	1	2			
MSL ALTITUDE (in hundreds)		20	20	20	20	40	40	20	20			
DISTANCE (Nautical miles)	FROM	6.5	17.1	6.1	13.9	12.7	6.3	14.5	6.2			
	TO	14.1	5.8	15.1	6.1	6.4	13.0	6.8	13.4			
SENSITIVITY/MODULATION		S	S	S	S	S	S	S	S			
ROUGHNESS		0.2/12.9	0.2/16.6	0.4/13.6	1.9/8.7	7.8/11.7	9.8/11.6	1.8/8.4	0.3/12.8			
SCALLOPING		0	0	0	0	0	0	0	0			
BENDS		0.1/9.2	0.1/7.6	0.2/6.1	0.3/6.7	0.8/6.7	0.6/6.8	0.1/8.4	0.1/7.9			
POLARIZATION		-	-	0.4/13.8	-	-	-	-	-			
ALIGNMENT ERROR		-0.1	+0.2	-0.8	-0.7	-0.2	+0.3	-0.7	-0.7			
TRANSMITTER DIFFERENCE		0.3	0.3	0.1	0.1	0.5	0.5	0.0	0.0			
SIGNAL STRENGTH		50+	50+	50+	50+	50+	50+	50+	50+			
INTERFERENCE		S	S	S	S	S	S	S	S			
9. GENERAL		SAT.	UNSAT.	10. MONITORS								
STANBY POWER		-		LAST DATE INSPECTED March 14, 2017				TX	ALIGNMENT	ALARM +	ALARM -	
VOICE		N/A		DVOR	REFERENCE RADIAL MON 040/6.0-14.0/20				1	0.0	0.9	0.9
IDENTIFICATION		X			CHECK POINT							
DME ACCURACY		X		TACAN	REFERENCE RADIAL / - /							
DME COVERAGE		X			CHECK POINT							
11. DISCREPANCIES AND/OR REMARKS										CORRECTED		
SEE ATTACHMENT										YES	NO	
FACILITY CLASSIFICATION		PILOT FLIGHT INSPECTOR										
UNRESTRICTED		<i>Sms</i> K. Kanyanon Witsanu Rangsit <i>Kritip</i> N/A										
☒	RESTRICTED											
	UNUSEABLE											
DIRECTOR, AIRCRAFT OPERATION DEPARTMENT		APPROVED BY THE CIVIL AVIATION AUTHORITY OF THAILAND										

Aching

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23 Mar 18



ATTACHMENT

SURAT DVOR/DME DISCREPANCIES

1. This is a periodic check by aircraft register HS-PBN.
2. During perform radial check found roughness out of tolerance on radial 227 distance 11.7 NM and 11.6 NM. at altitude 4,000 feet. (TX#1: 7.8°, TX#2: 9.8°)
NOTAM : SURAT DVOR/DME unusable on radial 227 distance between 11-12 NM. at altitude 4,000 feet.
3. Coverage orbit data refer from commissioning checked :
due to mountainous terrain coverage orbit 40 NM. shall be as follows:
 - Radial 001-070 degree altitude should not below 1,500 feet.
 - Radial 071-090 degree altitude should not below 3,500 feet.
 - Radial 091-150 degree altitude should not below 5,000 feet.
 - Radial 151-190 degree altitude should not below 1,500 feet.
 - Radial 191-360 degree altitude should not below 4,000 feet.
4. Facility performance classified as "Restricted" due to item number 2 and 3 above.
5. Next periodic check is due on February 21, 2019.
(Extendable up to March 23, 2019)

