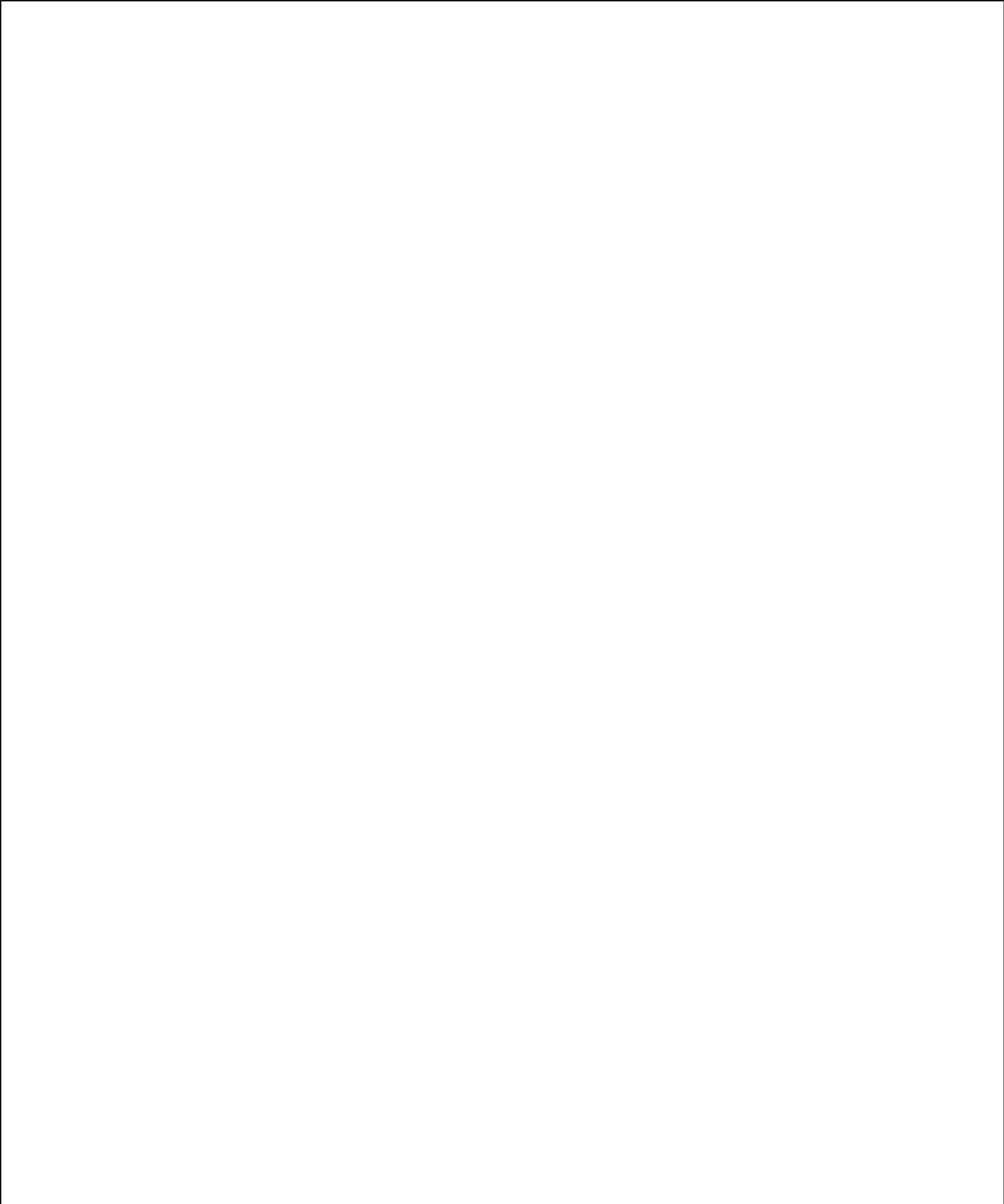




AERONAUTICAL RADIO OF THAILAND LIMITED

PROCEDURE DESIGN REPORT								-	
1. AIRPORT								2. DESIGN DATE	
PHETCHABUN / PHETCHABUN AIRPORT								1-Feb-2019	
3. AERODROME DATA									
AERODROME REFERENCE POINT COORDINATES: 16 40 33.71 N 101 11 42.39 E							THRESHOLD COORDINATES		
AERODROME ELEVATION:	450 FT	ELEVATION (RWY 18)	450	FT			DEGREES	RWY 18	16 41 07.89 N 101 11 42.42 E
MAGNETIC VARIATION:	0.9° W (2014) / 359.7° E	ELEVATION (RWY 36)	449	FT			DEGREES	RWY 36	16 39 59.52 N 101 11 42.36 E
4. OBSTACLE DATA (SURVEY)									
NO.	NAME	COORDINATES (WGS84)		RWY 18 (ELV)	NO.	NAME	COORDINATES (WGS84)		RWY 36 (ELV)
O1-18	Tank	16 40 15.86 N 101 11 23.41 E		544 FT	O1-36	Mountain1-36	16 41 54.45 N 101 21 47.35 E		3056 FT
O2-18	Pole1-18	16 40 24.99 N 101 11 26.6 E		600 FT	O2-36	Control Tower	16 40 26.87 N 101 11 26.69 E		565 FT
O3-18	Control Tower-18	16 40 26.62 N 101 11 26.61 E		565 FT	O3-36	Mountain2-36	16 48 19.97 N 101 08 37.25 E		3037 FT
O4-18	Mountain1-18	16 48 37.28 N 101 08 31.77 E		3110 FT	O4-36	AWOS-36	16 40 10.96 N 101 11 38.32 E		480 FT
O5-18	Localizer-18	16 41 17.66 N 101 11 44.85 E		469 FT					
O6-18	Mountain2-18	16 41 58.4 N 101 22 10.75 E		3155 FT					
O7-18	Mountain3-18	16 39 18.97 N 101 22 18.64 E		3285 FT					
O8-18	DVOR-18	16 40 33.66 N 101 11 47.83 E		486 FT					
O9-18	Glide slop-18	16 40 09.14 N 101 11 46.41 E		495 FT					
PROCEDURE DESIGNER -									
PROCEDURE DESIGN INSPECTOR									
1)					3)				
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APPROVED BY DEPARTMENT OF CIVIL AVIATION THAILAND									

5. OBSTACLES DRAWING



7. REMARKS: -

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PROCEDURE DESIGNER

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PROCEDURE DESIGN INSPECTOR

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APPROVED BY DEPARTMENT OF CIVIL AVIATION THAILAND



AERONAUTICAL RADIO OF THAILAND LIMITED

PROCEDURE DESIGN REPORT							
1. AIRPORT		2. RUNWAY		3. TYPE OF PROCEDURE		4. DESIGN DATE	
PHETCHABUN / PHETCHABUN AIRPORT		RWY 36		RNP APCH		1-Feb-2019	
5. MINIMUM SECTOR ALTITUDE (MSA)							
THE RADIUS OF 10 NM OF VOR (PCB)							
SECTOR ORIENTATION	OBSTACLE ELEVATION	MOC	VEGETATION	REQUIRED MINIMUM ALTITUDE	MSA		
HEADING 5 TO 180	3911	984 FT	50 FT	4945 FT	5000 FT		
HEADING 180 TO 270	4134	984 FT	50 FT	5168 FT	5200 FT		
HEADING 270 TO 360	5820	984 FT	50 FT	6854 FT	6900 FT		
PROCEDURE DESIGNER							
PROCEDURE DESIGN INSPECTOR							
1)				3)			
2)				4)			
APPROVED BY DEPARTMENT OF CIVIL AVIATION THAILAND							

6. MINIMUM SECTOR ALTITUDE DRAWING TEMPLATE

11. REMARKS: -

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PROCEDURE DESIGNER

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PROCEDURE DESIGN INSPECTOR

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APPROVED BY DEPARTMENT OF CIVIL AVIATION THAILAND



AERONAUTICAL RADIO OF THAILAND LIMITED

PROCEDURE DESIGN REPORT - PERFORMANCE BASED NAVIGATION											
1. AIRPORT			2. RUNWAY		3. TYPE OF PROCEDURE			4. SEGMENT		5. DESIGN DATE	
PHETCHABUN / PHETCHABUN AIRPORT			RWY 36		RNP APCH			ST36W to IFI36		1-Feb-2019	
6. MINIMUM SEGMENT LENGTH											
FIRST FIX						SECOND FIX FOR PRETECION AREA					
FIX NAME: ST36W		IAS (MAX): 250 KT		ALTITUDE: 6000 FT		FIX NAME: IFI36		IAS (MAX): 250 KT		ALTITUDE: 3900 FT	
BANK ANGLE: 25 DEG		TEMP: ISA+15 -		K FACTOR: 1.123 -		BANK ANGLE: 25 DEG		TEMP: ISA+15 -		K FACTOR: 1.088 -	
TURN ANGLE: 0 DEG		RATE OF TURN: 1.81 %/SEC		RADIUS OF TURN: 2.46 NM		TURN ANGLE: 90 DEG		RATE OF TURN: 1.87 %/SEC		RADIUS OF TURN: 2.31 NM	
SEGMENT TYPE	STARTING FIX	ENDING FIX	TYPE	ALTITUDE	TAS	TURN ANGLE	MSD	MINIMUM SEGMENT LENGTH		SEGMENT LENGTH (MEASURE)	
IAF	-	ST36W	FLY-BY	6000 FT	280.77 KT	0 DEG	-	2.7 NM		7 NM	
IF	ST36W	IFI36	FLY-BY	3900 FT	271.88 KT	90 DEG	2.7				
7. DESCENT GRADIENT(DG)											
SEGMENT	TAS	BANK ANGLE	TURN ANGLE	RADIUS OF TURN [r]	r*TAN (TURN ANGLE/2)	$\pi/180 * \text{TURN ANGLE}/2 * r$	Δh	TRD	DG		
ST36W	280.77 KT	25 DEG	0 DEG	2.46 NM	0 NM	0 NM	2100 FT	7 NM	4.9 %		
IFI36	271.88 KT	25 DEG	90 DEG	2.31 NM	2.31 NM	1.81 NM					
8. PROTECTION AREA CONSTRUCTION						9. OBSTACLE CLEARANCE ALTITUDE					
WAYPOINT	ST36W		IFI36		No.	Position	OBS ELEV	Vegetation (ft)	MOC (ft)	Req. ALT.(ft)	
TYPE	FLY-BY		FLY-BY								
XTT	1	NM	1	NM							
ATT	0.8	NM	0.8	NM							
AREA SEMI-WIDTH	2.5	NM	2.5	NM							
IAS	250	KT	250	KT							
ALTITUDE	6000	FT	3900	FT							
TAS	280.77	KT	271.88	KT							
TURN ANGLE	0	DEG	90	DEG							
BANK ANGLE	25	DEG	25	DEG							
RATE OF TURN [R]	1.81	%/SEC	1.87	%/SEC							
RADIUS OF TURN [r]	2.46	NM	2.31	NM							
PILOT REACTION TIME		SEC	6	SEC							
BANK ANGLE DELAY		SEC	0	SEC							
r*TAN (TURN ANGLE/2)	0	NM	2.31	NM							
WIND SPEED	-	KT	30	KT							
EARLIEST TURN		NM	3.11	NM							
LATEST TURN		NM	-1.51	NM							
PROCEDURE ALTITUDE: 3900 FT											
PROCEDURE DESIGNER -											
PROCEDURE DESIGN INSPECTOR											
1)						3)					
2)						4)					
APPROVED BY DEPARTMENT OF CIVIL AVIATION THAILAND											

10. DRAWING TEMPLATE

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11. REMARKS:
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PROCEDURE DESIGNER	-
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PROCEDURE DESIGN INSPECTOR	
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APPROVED BY DEPARTMENT OF CIVIL AVIATION THAILAND



AERONAUTICAL RADIO OF THAILAND LIMITED

PROCEDURE DESIGN REPORT - PERFORMANCE BASED NAVIGATION											
1. AIRPORT			2. RUNWAY		3. TYPE OF PROCEDURE			4. SEGMENT		5. DESIGN DATE	
PHETCHABUN / PHETCHABUN AIRPORT			RWY 36		RNP APCH			IF136 to FAI36		1-Feb-2019	
6. MINIMUM SEGMENT LENGTH											
FIRST FIX						SECOND FIX FOR PRETECION AREA					
FIX NAME: IF136		IAS (MAX): 250 KT		ALTITUDE: 3900 FT		FIX NAME: FAI36		IAS (MAX): 185 KT		ALTITUDE: 2219 FT	
BANK ANGLE: 25 DEG		TEMP: ISA+15 -		K FACTOR: 1.088 -		BANK ANGLE: 25 DEG		TEMP: ISA+15 -		K FACTOR: 1.06 -	
TURN ANGLE: 90 DEG		RATE OF TURN: 1.87 %/SEC		RADIUS OF TURN: 2.31 NM		TURN ANGLE: 0 DEG		RATE OF TURN: 2.6 %/SEC		RADIUS OF TURN: 1.2 NM	
SEGMENT TYPE	STARTING FIX	ENDING FIX	TYPE	ALTITUDE	TAS	TURN ANGLE	MSD	MINIMUM SEGMENT LENGTH		SEGMENT LENGTH (MEASURE)	
IF	ST36W	IF136	FLY-BY	3900 FT	271.88 KT	90 DEG	2.7	4.1 NM		7 NM	
FAF	IF136	FAI36	FLY-BY	2219 FT	196.14 KT	0 DEG	1.5				
7. DESCENT GRADIENT(DG)											
SEGMENT	TAS	BANK ANGLE	TURN ANGLE	RADIUS OF TURN [r]	r*TAN (TURN ANGLE/2)	$\pi/180 * \text{TURN ANGLE}/2 * r$	Δh	TRD	DG		
IF136	271.88 KT	25 DEG	90 DEG	2.31 NM	2.31 NM	1.81 NM	1681 FT	7.03 NM	3.9 %		
FAI36	196.14 KT	25 DEG	0 DEG	1.2 NM	0 NM	0 NM					
8. PROTECTION AREA CONSTRUCTION						9. OBSTACLE CLEARANCE ALTITUDE					
WAYPOINT	IF136		FAI36		No.	Position	OBS ELEV	Vegetation (ft)	MOC (ft)	Req. ALT.(ft)	
TYPE	FLY-BY		FLY-BY								
XTT	1	NM	0.3	NM							
ATT	0.8	NM	0.2	NM							
AREA SEMI-WIDTH	2.5	NM	1.5	NM							
IAS	250	KT	185	KT							
ALTITUDE	3900	FT	2219	FT							
TAS	271.88	KT	196.14	KT							
TURN ANGLE	90	DEG	0	DEG							
BANK ANGLE	25	DEG	25	DEG							
RATE OF TURN [R]	1.87	%/SEC	2.6	%/SEC							
RADIUS OF TURN [r]	2.31	NM	1.2	NM							
PILOT REACTION TIME	6	SEC	6	SEC							
BANK ANGLE DELAY	0	SEC	0	SEC							
r*TAN (TURN ANGLE/2)	2.31	NM	0	NM							
WIND SPEED	30	KT	30	KT							
EARLIEST TURN	3.11	NM	0.24	NM							
LATEST TURN	-1.51	NM	0.24	NM							
PROCEDURE ALTITUDE: 2219 FT											
PROCEDURE DESIGNER -											
PROCEDURE DESIGN INSPECTOR											
1)						3)					
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APPROVED BY DEPARTMENT OF CIVIL AVIATION THAILAND											

10. DRAWING TEMPLATE

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11. REMARKS:

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PROCEDURE DESIGNER	-
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PROCEDURE DESIGN INSPECTOR	
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AERONAUTICAL RADIO OF THAILAND LIMITED

PROCEDURE DESIGN REPORT - PERFORMANCE BASED NAVIGATION															
1. AIRPORT			2. RUNWAY		3. TYPE OF PROCEDURE			4. SEGMENT		5. DESIGN DATE					
PHETCHABUN / PHETCHABUN AIRPORT			RWY 36		RNP APCH			IAFS1 to IFI36		1-Feb-2019					
6. MINIMUM SEGMENT LENGTH															
FIRST FIX						SECOND FIX FOR PRETECION AREA									
FIX NAME:		IAFS1		IAS (MAX): 250 KT		ALTITUDE: 6000 FT		FIX NAME:		IFI36		IAS (MAX): 250 KT		ALTITUDE: 3900 FT	
BANK ANGLE:		25 DEG		TEMP: ISA+15 -		K FACTOR: 1.123 -		BANK ANGLE:		25 DEG		TEMP: ISA+15 -		K FACTOR: 1.088 -	
TURN ANGLE:		0 DEG		RATE OF TURN: 1.81 %/SEC		RADIUS OF TURN: 2.46 NM		TURN ANGLE:		42 DEG		RATE OF TURN: 1.87 %/SEC		RADIUS OF TURN: 2.31 NM	
SEGMENT TYPE	STARTING FIX	ENDING FIX	TYPE	ALTITUDE	TAS	TURN ANGLE	MSD	MINIMUM SEGMENT LENGTH		SEGMENT LENGTH (MEASURE)					
IAF	-	IAFS1	FLY-BY	6000 FT	280.77 KT	0 DEG	-	1.5 NM		11.7 NM					
IF	IAFS1	IFI36	FLY-BY	3900 FT	271.88 KT	42 DEG	1.5								
7. DESCENT GRADIENT(DG)															
SEGMENT	TAS	BANK ANGLE	TURN ANGLE	RADIUS OF TURN [r]	r*TAN (TURN ANGLE/2)	$\pi/180 * \text{TURN ANGLE}/2 * r$	Δh	TRD	DG						
IAFS1	280.77 KT	25 DEG	0 DEG	2.46 NM	0 NM	0 NM	2100 FT	11.68 NM	3 %						
IFI36	271.88 KT	25 DEG	42 DEG	2.31 NM	0.89 NM	0.85 NM									
8. PROTECTION AREA CONSTRUCTION						9. OBSTACLE CLEARANCE ALTITUDE									
WAYPOINT	IAFS1	IFI36	No.	Position	OBS ELEV	Vegetation (ft)	MOC (ft)	Req. ALT.(ft)							
TYPE	FLY-BY	FLY-BY													
XTT	1 NM	1 NM													
ATT	0.8 NM	0.8 NM													
AREA SEMI-WIDTH	2.5 NM	2.5 NM													
IAS	250 KT	250 KT													
ALTITUDE	6000 FT	3900 FT													
TAS	280.77 KT	271.88 KT													
TURN ANGLE	0 DEG	42 DEG													
BANK ANGLE	25 DEG	25 DEG													
RATE OF TURN [R]	1.81 %/SEC	1.87 %/SEC													
RADIUS OF TURN [r]	2.46 NM	2.31 NM													
PILOT REACTION TIME		6 SEC													
BANK ANGLE DELAY		0 SEC													
r*TAN (TURN ANGLE/2)	0 NM	0.89 NM													
WIND SPEED	- KT	30 KT													
EARLIEST TURN		1.69 NM													
LATEST TURN		-0.09 NM													
PROCEDURE ALTITUDE: 3900 FT															
PROCEDURE DESIGNER -															
PROCEDURE DESIGN INSPECTOR															
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APPROVED BY DEPARTMENT OF CIVIL AVIATION THAILAND															

10. DRAWING TEMPLATE

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11. REMARKS:
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PROCEDURE DESIGNER	-
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PROCEDURE DESIGN INSPECTOR	
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APPROVED BY DEPARTMENT OF CIVIL AVIATION THAILAND	
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AERONAUTICAL RADIO OF THAILAND LIMITED

PROCEDURE DESIGN REPORT - PERFORMANCE BASED NAVIGATION											
1. AIRPORT			2. RUNWAY		3. TYPE OF PROCEDURE			4. SEGMENT		5. DESIGN DATE	
PHETCHABUN / PHETCHABUN AIRPORT			RWY 36		RNP APCH			IF136 to FAI36		1-Feb-2019	
6. MINIMUM SEGMENT LENGTH											
FIRST FIX						SECOND FIX FOR PRETECION AREA					
FIX NAME: IF136		IAS (MAX): 250 KT		ALTITUDE: 3900 FT		FIX NAME: FAI36		IAS (MAX): 185 KT		ALTITUDE: 2219 FT	
BANK ANGLE: 25 DEG		TEMP: ISA+15 -		K FACTOR: 1.088 -		BANK ANGLE: 25 DEG		TEMP: ISA+15 -		K FACTOR: 1.06 -	
TURN ANGLE: 42 DEG		RATE OF TURN: 1.87 %/SEC		RADIUS OF TURN: 2.31 NM		TURN ANGLE: 0 DEG		RATE OF TURN: 2.6 %/SEC		RADIUS OF TURN: 1.2 NM	
SEGMENT TYPE	STARTING FIX	ENDING FIX	TYPE	ALTITUDE	TAS	TURN ANGLE	MSD	MINIMUM SEGMENT LENGTH		SEGMENT LENGTH (MEASURE)	
IF	IAFS1	IF136	FLY-BY	3900 FT	271.88 KT	42 DEG	1.5	2.9 NM		7 NM	
FAF	IF136	FAI36	FLY-BY	2219 FT	196.14 KT	0 DEG	1.5				
7. DESCENT GRADIENT(DG)											
SEGMENT	TAS	BANK ANGLE	TURN ANGLE	RADIUS OF TURN [r]	r*TAN (TURN ANGLE/2)	$\pi/180 * \text{TURN ANGLE}/2 * r$	Δh	TRD	DG		
IF136	271.88 KT	25 DEG	42 DEG	2.31 NM	0.89 NM	0.85 NM	1681 FT	7.03 NM	3.9 %		
FAI36	196.14 KT	25 DEG	0 DEG	1.2 NM	0 NM	0 NM					
8. PROTECTION AREA CONSTRUCTION						9. OBSTACLE CLEARANCE ALTITUDE					
WAYPOINT	IF136		FAI36		No.	Position	OBS ELEV	Vegetation (ft)	MOC (ft)	Req. ALT.(ft)	
TYPE	FLY-BY		FLY-BY								
XTT	1	NM	0.3	NM							
ATT	0.8	NM	0.2	NM							
AREA SEMI-WIDTH	2.5	NM	1.5	NM							
IAS	250	KT	185	KT							
ALTITUDE	3900	FT	2219	FT							
TAS	271.88	KT	196.14	KT							
TURN ANGLE	42	DEG	0	DEG							
BANK ANGLE	25	DEG	25	DEG							
RATE OF TURN [R]	1.87	%/SEC	2.6	%/SEC							
RADIUS OF TURN [r]	2.31	NM	1.2	NM							
PILOT REACTION TIME	6	SEC	6	SEC							
BANK ANGLE DELAY	0	SEC	0	SEC							
r*TAN (TURN ANGLE/2)	0.89	NM	0	NM							
WIND SPEED	30	KT	30	KT							
EARLIEST TURN	1.69	NM	0.24	NM							
LATEST TURN	-0.09	NM	0.24	NM							
PROCEDURE ALTITUDE: 2219 FT											
PROCEDURE DESIGNER -											
PROCEDURE DESIGN INSPECTOR											
1)						3)					
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APPROVED BY DEPARTMENT OF CIVIL AVIATION THAILAND											

10. DRAWING TEMPLATE

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11. REMARKS:

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PROCEDURE DESIGNER

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PROCEDURE DESIGN INSPECTOR

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APPROVED BY DEPARTMENT OF CIVIL AVIATION THAILAND



AERONAUTICAL RADIO OF THAILAND LIMITED

PROCEDURE DESIGN REPORT - PERFORMANCE BASED NAVIGATION											
1. AIRPORT			2. RUNWAY		3. TYPE OF PROCEDURE			4. SEGMENT		5. DESIGN DATE	
PHETCHABUN / PHETCHABUN AIRPORT			RWY 36		RNP APCH			ST36E to IFI36		1-Feb-2019	
6. MINIMUM SEGMENT LENGTH											
FIRST FIX						SECOND FIX FOR PRETECION AREA					
FIX NAME: ST36E		IAS (MAX): 250 KT		ALTITUDE: 6000 FT		FIX NAME: IFI36		IAS (MAX): 250 KT		ALTITUDE: 3900 FT	
BANK ANGLE: 25 DEG		TEMP: ISA+15 -		K FACTOR: 1.123 -		BANK ANGLE: 25 DEG		TEMP: ISA+15 -		K FACTOR: 1.088 -	
TURN ANGLE: 0 DEG		RATE OF TURN: 1.81 %/SEC		RADIUS OF TURN: 2.46 NM		TURN ANGLE: 90 DEG		RATE OF TURN: 1.87 %/SEC		RADIUS OF TURN: 2.31 NM	
SEGMENT TYPE	STARTING FIX	ENDING FIX	TYPE	ALTITUDE	TAS	TURN ANGLE	MSD	MINIMUM SEGMENT LENGTH		SEGMENT LENGTH (MEASURE)	
IAF	-	ST36E	FLY-BY	6000 FT	280.77 KT	0 DEG	-	2.7 NM		7 NM	
IF	ST36E	IFI36	FLY-BY	3900 FT	271.88 KT	90 DEG	2.7				
7. DESCENT GRADIENT(DG)											
SEGMENT	TAS	BANK ANGLE	TURN ANGLE	RADIUS OF TURN [r]	r*TAN (TURN ANGLE/2)	$\pi/180 * \text{TURN ANGLE}/2 * r$	Δh	TRD	DG		
ST36E	280.77 KT	25 DEG	0 DEG	2.46 NM	0 NM	0 NM	2100 FT	7 NM	4.9 %		
IFI36	271.88 KT	25 DEG	90 DEG	2.31 NM	2.31 NM	1.81 NM					
8. PROTECTION AREA CONSTRUCTION						9. OBSTACLE CLEARANCE ALTITUDE					
WAYPOINT	ST36E		IFI36		No.	Position	OBS ELEV	Vegetation (ft)	MOC (ft)	Req. ALT.(ft)	
TYPE	FLY-BY		FLY-BY								
XTT	1	NM	1	NM							
ATT	0.8	NM	0.8	NM							
AREA SEMI-WIDTH	2.5	NM	2.5	NM							
IAS	250	KT	250	KT							
ALTITUDE	6000	FT	3900	FT							
TAS	280.77	KT	271.88	KT							
TURN ANGLE	0	DEG	90	DEG							
BANK ANGLE	25	DEG	25	DEG							
RATE OF TURN [R]	1.81	%/SEC	1.87	%/SEC							
RADIUS OF TURN [r]	2.46	NM	2.31	NM							
PILOT REACTION TIME		SEC	6	SEC							
BANK ANGLE DELAY		SEC	0	SEC							
r*TAN (TURN ANGLE/2)	0	NM	2.31	NM							
WIND SPEED	-	KT	30	KT							
EARLIEST TURN		NM	3.11	NM							
LATEST TURN		NM	-1.51	NM							
PROCEDURE ALTITUDE: 3900 FT											
PROCEDURE DESIGNER -											
PROCEDURE DESIGN INSPECTOR											
1)						3)					
2)						4)					
APPROVED BY DEPARTMENT OF CIVIL AVIATION THAILAND											

10. DRAWING TEMPLATE

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11. REMARKS:

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PROCEDURE DESIGNER	-
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PROCEDURE DESIGN INSPECTOR	
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AERONAUTICAL RADIO OF THAILAND LIMITED

PROCEDURE DESIGN REPORT - PERFORMANCE BASED NAVIGATION											
1. AIRPORT			2. RUNWAY		3. TYPE OF PROCEDURE			4. SEGMENT		5. DESIGN DATE	
PHETCHABUN / PHETCHABUN AIRPORT			RWY 36		RNP APCH			IF136 to FAI36		1-Feb-2019	
6. MINIMUM SEGMENT LENGTH											
FIRST FIX						SECOND FIX FOR PRETECION AREA					
FIX NAME: IF136		IAS (MAX): 250 KT		ALTITUDE: 3900 FT		FIX NAME: FAI36		IAS (MAX): 185 KT		ALTITUDE: 2219 FT	
BANK ANGLE: 25 DEG		TEMP: ISA+15 -		K FACTOR: 1.088 -		BANK ANGLE: 25 DEG		TEMP: ISA+15 -		K FACTOR: 1.06 -	
TURN ANGLE: 90 DEG		RATE OF TURN: 1.87 %/SEC		RADIUS OF TURN: 2.31 NM		TURN ANGLE: 0 DEG		RATE OF TURN: 2.6 %/SEC		RADIUS OF TURN: 1.2 NM	
SEGMENT TYPE	STARTING FIX	ENDING FIX	TYPE	ALTITUDE	TAS	TURN ANGLE	MSD	MINIMUM SEGMENT LENGTH		SEGMENT LENGTH (MEASURE)	
IF	ST36E	IF136	FLY-BY	3900 FT	271.88 KT	90 DEG	2.7	4.1 NM		7 NM	
FAF	IF136	FAI36	FLY-BY	2219 FT	196.14 KT	0 DEG	1.5				
7. DESCENT GRADIENT(DG)											
SEGMENT	TAS	BANK ANGLE	TURN ANGLE	RADIUS OF TURN [r]	r*TAN (TURN ANGLE/2)	$\pi/180 * \text{TURN ANGLE}/2 * r$	Δh	TRD	DG		
IF136	271.88 KT	25 DEG	90 DEG	2.31 NM	2.31 NM	1.81 NM	1681 FT	7.03 NM	3.9 %		
FAI36	196.14 KT	25 DEG	0 DEG	1.2 NM	0 NM	0 NM					
8. PROTECTION AREA CONSTRUCTION						9. OBSTACLE CLEARANCE ALTITUDE					
WAYPOINT	IF136		FAI36		No.	Position	OBS ELEV	Vegetation (ft)	MOC (ft)	Req. ALT.(ft)	
TYPE	FLY-BY		FLY-BY								
XTT	1	NM	0.3	NM							
ATT	0.8	NM	0.2	NM							
AREA SEMI-WIDTH	2.5	NM	1.5	NM							
IAS	250	KT	185	KT							
ALTITUDE	3900	FT	2219	FT							
TAS	271.88	KT	196.14	KT							
TURN ANGLE	90	DEG	0	DEG							
BANK ANGLE	25	DEG	25	DEG							
RATE OF TURN [R]	1.87	%/SEC	2.6	%/SEC							
RADIUS OF TURN [r]	2.31	NM	1.2	NM							
PILOT REACTION TIME	6	SEC	6	SEC							
BANK ANGLE DELAY	0	SEC	0	SEC							
r*TAN (TURN ANGLE/2)	2.31	NM	0	NM							
WIND SPEED	30	KT	30	KT							
EARLIEST TURN	3.11	NM	0.24	NM							
LATEST TURN	-1.51	NM	0.24	NM							
PROCEDURE ALTITUDE: 2219 FT											
PROCEDURE DESIGNER -											
PROCEDURE DESIGN INSPECTOR											
1)						3)					
2)						4)					
APPROVED BY DEPARTMENT OF CIVIL AVIATION THAILAND											

10. DRAWING TEMPLATE

Blank area for drawing template.

11. REMARKS:
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PROCEDURE DESIGNER	-
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PROCEDURE DESIGN INSPECTOR	
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AERONAUTICAL RADIO OF THAILAND LIMITED

PROCEDURE DESIGN REPORT - PERFORMANCE BASED NAVIGATION											
1. AIRPORT			2. RUNWAY		3. TYPE OF PROCEDURE			4. SEGMENT		5. DESIGN DATE	
PHETCHABUN / PHETCHABUN AIRPORT			RWY 36		RNP APCH			FAI36 to PB015		1-Feb-2019	
6. MINIMUM SEGMENT LENGTH											
FIRST FIX						SECOND FIX FOR PRETECION AREA					
FIX NAME: FAI36		IAS (MAX): 185 KT		ALTITUDE: 2219 FT		FIX NAME: PB015		IAS (MAX): 185 KT		TCH ALTITUDE: 50 FT	
BANK ANGLE: 25 DEG		TEMP: ISA+15 -		K FACTOR: 1.06 -		BANK ANGLE: 15 DEG		TEMP: ISA+15 -		K FACTOR: 1.038 -	
TURN ANGLE: 0 DEG		RATE OF TURN: 2.6 %/SEC		RADIUS OF TURN: 1.2 NM		TURN ANGLE: 0 DEG		RATE OF TURN: 1.52 %/SEC		RADIUS OF TURN: 2.01 NM	
SEGMENT TYPE	STARTING FIX	ENDING FIX	TYPE	ALTITUDE	TAS	TURN ANGLE	MSD	MINIMUM SEGMENT LENGTH		SEGMENT LENGTH (MEASURE)	
FAF	IF136	FAI36	FLY-BY	2219 FT	196.14 KT	0 DEG	1.5	1.5 NM		5.4 NM	
LTP/FTP	FAI36	PB015	FLY_OVER	499 FT	192.11 KT	0 DEG	-				
7. DESCENT GRADIENT(DG)											
SEGMENT	TAS	BANK ANGLE	TURN ANGLE	RADIUS OF TURN [r]	r*TAN (TURN ANGLE/2)	$\pi/180 * \text{TURN ANGLE}/2 * r$	Δh	TRD	DG		
FAI36	196.14 KT	25 DEG	0 DEG	1.2 NM	0 NM	0 NM	1720 FT	5.4 NM	5.2 %		
PB015	192.11 KT	15 DEG	0 DEG	2.01 NM	0 NM	0 NM					
8. PROTECTION AREA CONSTRUCTION						9. OBSTACLE CLEARANCE ALTITUDE					
WAYPOINT	FAI36		PB015		No.	Position	OBS ELEV	Vegetation (ft)	MOC (ft)	Req. ALT.(ft)	
TYPE	FLY-BY		FLY_OVER								
XTT	0.3	NM	0.3	NM							
ATT	0.2	NM	0.2	NM							
AREA SEMI-WIDTH	1.5	NM	1	NM							
IAS	185	KT	185	KT							
ALTITUDE	2219	FT	50	FT							
TAS	196.14	KT	192.11	KT							
TURN ANGLE	0	DEG	0	DEG							
BANK ANGLE	25	DEG	15	DEG							
RATE OF TURN [R]	2.6	%/SEC	1.52	%/SEC							
RADIUS OF TURN [r]	1.2	NM	2.01	NM							
PILOT REACTION TIME	6	SEC	3	SEC							
BANK ANGLE DELAY	0	SEC	3	SEC							
r*TAN (TURN ANGLE/2)	0	NM	0	NM							
WIND SPEED	30	KT	30	KT							
EARLIEST TURN	0.24	NM	0.24	NM							
LATEST TURN	0.24	NM	1.25	NM							
PROCEDURE ALTITUDE: 830 FT											
PROCEDURE DESIGNER -											
PROCEDURE DESIGN INSPECTOR											
1)						3)					
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APPROVED BY DEPARTMENT OF CIVIL AVIATION THAILAND											

10. DRAWING TEMPLATE

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11. REMARKS:

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PROCEDURE DESIGNER	-
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PROCEDURE DESIGN INSPECTOR	
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8. DRAWING TEMPLATE

9. REMARKS:

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PROCEDURE DESIGNER -

PROCEDURE DESIGN INSPECTOR

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8. DRAWING TEMPLATE

9. REMARKS:

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PROCEDURE DESIGNER

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PROCEDURE DESIGN INSPECTOR

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8. DRAWING TEMPLATE

9. REMARKS:

PROCEDURE DESIGNER

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PROCEDURE DESIGN INSPECTOR

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