



SUPPLEMENTAL / BID BULLETIN NO. ____

REPLACEMENT OF ILS 06 for NINOY AQUINO INTERNATIONAL AIRPORT
(Bid No. 22-009-05)


23 June 2022

- I. Please note the following amendments/ revisions/ clarifications to the Bidding Documents:

Reference	Remarks	Answer/Requirement
Query: Last flight check report	Additional information	Pls. see attached document dated 03 March 2020
Query: Runway Profile	Additional information	No data, recommends actual site visit /survey for assessment.
Query: Last AIP connected to the nav aids procedure	Additional information	Pls. see attached AIP document.
Bid Data Sheet ITB Clause 10.1a	Additional requirement	In case of JV, each member of the Joint Venture shall submit the above required documents under BDS Section 10.1a (A).

This bid bulletin shall be an integral part of the Bidding Documents and the same shall be enclosed in the technical bid envelop/component and shall be marked/tabbed accordingly.

For the information and guidance of all concerned.


CAPTAIN DONALDO A. MENDOZA
Chairman, Bids and Awards Committee



ILS-DME FLIGHT INSPECTION REPORT & CERTIFICATE – ICAO Category 1

GENERAL					
TYPE OF FLIGHT INSPECTION:		<input type="checkbox"/> COMMISSIONING <input checked="" type="checkbox"/> PERIODIC <input type="checkbox"/> SPECIAL		DATE: 03 March 2020	
FACILITY: ILS 06		LOCATION: Ninoy Aquino International Airport			
EQUIPMENT TYPE: Thales 420		CO-LOCATED DME:		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> LLZ <input checked="" type="checkbox"/> GS	
FREQUENCY: 109.1 MHz /331.4 MHz		F/C AIRCRAFT: Learjet 31A RP-C8722			
LOCALIZER WGS84		LATITUDE: 14° 30' 52.678" N		Glide Slope WGS84	
COORDINATES		LONGITUDE: 121° 01' 49.254" E		COORDINATES	
		LATITUDE: 14° 29' 56.133" N		LONGITUDE: 121° 00' 15.948" E	

FLIGHT INSPECTION RESULT				
LOCALIZER PARAMETERS	TX 1	TX 2	ICAO SPECS/ TOLERANCE	REMARKS
GENERAL				
Total Modulation (@ Centerline)	40.4 %	40.4 %	40% ± 4%	Satisfactory
Course Width (CW)	3.67 °	3.56 °	3° to 6°	Satisfactory
Course Symmetry (% 90Hz)	49.4 %	49.6 %	50% ± 5%	Satisfactory
Course Structure (Zone 1)**	+ 7.5 µA	+ 7.9 µA	± 30µA	Satisfactory
Course Structure (Zone 2)**	+ 3.7 µA	+ 3.5 µA	Linear Decrease to ± 15µA	Satisfactory
Course Structure (Zone 3)**	+ 3.5 µA	< 15.0 µA	± 15µA	Satisfactory
Course Alignment @ RWY CL	+ 2.0 µA	+ 0.2 µA	± 15µA	Satisfactory
Transmitter Difference	0.11 °		<10% CW	Satisfactory
Polarization (Aircraft @ 20° roll)*	-	-	± 15µA	--
LLZ Usable Distance (NM)*	-	-	min - 114 dBW/m ² , 30% total mod	--
LLZ Signal Strength (AGC)*	- 67.1 dBm (8NM)	- 68.0 dBm (8NM)	≥ - 114 dBW/m ² (40 µV/m)	Satisfactory
Identification Code (Morse Code)	.. --- ----		Correctness	Satisfactory
Identification Letters	IML		Correctness	Satisfactory
MONITOR ALARM				
Coverage @ RF Power Alarm *	-	-	min - 114 dBW/m ² , 30% total mod	--
Alignment Monitor Alarm	-	-	± 15µA	--
Narrow Course Alarm	-	-	min 83% CW(3.5*0.83=2.95)	For ground calibration
Wide Course Alarm	-	-	max 117% CW(3.5*1.17=4.09)	For ground Calibration
Course Alarm Check Position	ground		air / ground	--
GLIDE SLOPE PARAMETERS				
GENERAL				
Total Modulation (@ Glide Angle)	81.1%	78.4%	80% ± 5%	Satisfactory
Glide Angle (θ)	2.96 °	3.01 °	± 0.05° of Commissioned Angle	Satisfactory
Path Width (PW)	0.77°	0.67°	± (0.12θ ± 0.02θ)	Satisfactory
Path Symmetry (% 90Hz)	41.7%	56.7 %	50% ± 17%	Satisfactory
Path Structure (Zone 1)**	-12.15 µA	-14.6 µA	± 30µA	Satisfactory
Path Structure (Zone 2)**	- 15.30 µA	-22.7µA	± 30µA	Satisfactory
Path Structure (Zone 3)**	- 5.2 µA	- 6.6 µA	± 30µA	Satisfactory
Transmitter Difference	0.1 °		<0.2°	Satisfactory
GS Usable Distance (NM)*	-	-		--
GS Signal Strength (AGC)*	- 63.7 dBm (8NM)	- 65.0 dBm (8NM)	≥ - 95 dBW/m ² (400 µV/m)	Satisfactory
MONITOR ALARM				
Glide Angle Alarm	-	-	± 7.5% of θ	--
Narrow Path Alarm	-	-	min 78% PW(0.72*0.78=0.56)	For ground calibration
Wide Path Alarm	-	-	max 122% PW(0.72*1.22=0.87)	For ground calibration
Alarm Check Position	-		air / ground	--
DME PARAMETERS				
DME Coverage Range (NM)*	-	-		--
DME Signal Strength (AGC)*	- 42.5 dBm (4NM)	- 44.8 dBm (4NM)	≥ -89 dBW/m ² (20µV)	Satisfactory
Distance Information	Correct	Correct	Correctness	Satisfactory
False DME Locks	none	none	None	Satisfactory
Identification Code (Morse Code)	.. --- ----		Correctness	Satisfactory
Identification Letters	IML		Correctness	Satisfactory

OVERALL OPERATIONAL SERVICE ASSESSMENT



This is to certify that the above named facility (ILS06) was inspected to the Flight Inspection Procedures and Standards in accordance with Part 10 of the Civil Aviation Regulations for Air Navigation Services (CARANS) and was found to be:

Useable
 Useable with Restrictions
 Unusable

Remarks :

1. *Recommended for operational use until 03 September 2020.*
2. *Pilots: Capt. Saturnino B. dela Cruz (CAAP Flight Inspection Pilot)
 Capt. Roberto Andres A. Morico (CAAP Flight Inspection Pilot)
 Capt. Dominique P. Glori (AAC Corporate Pilot)*

* - *Performed only during Commissioning & Special flight inspection or upon request of maintenance personnel.*
 ** - *Minus (-) sign indicates 90 hz side; Positive (+) sign indicates 150 hz side.*

	CNS Flight Inspector:	Noted:
Signature/ Initial		
Name	ERWIN REY J. DELA CRUZ	MANUEL F. DE GUZMAN
	Senior CNS Flight Inspector	Chief Flight Inspector

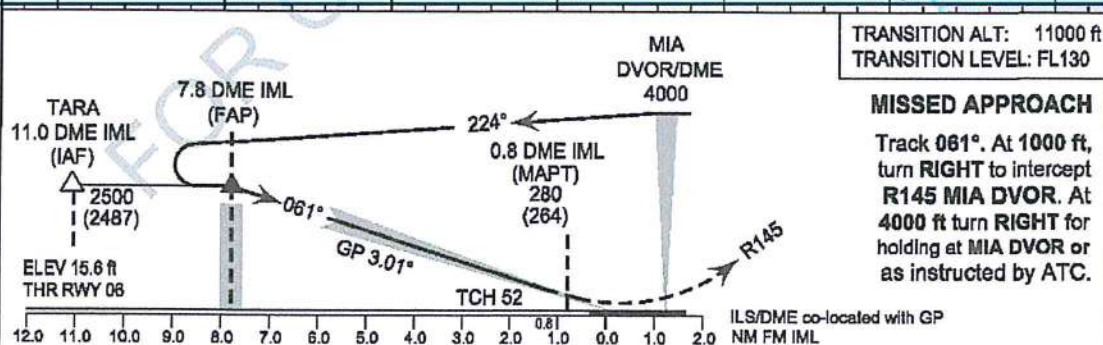
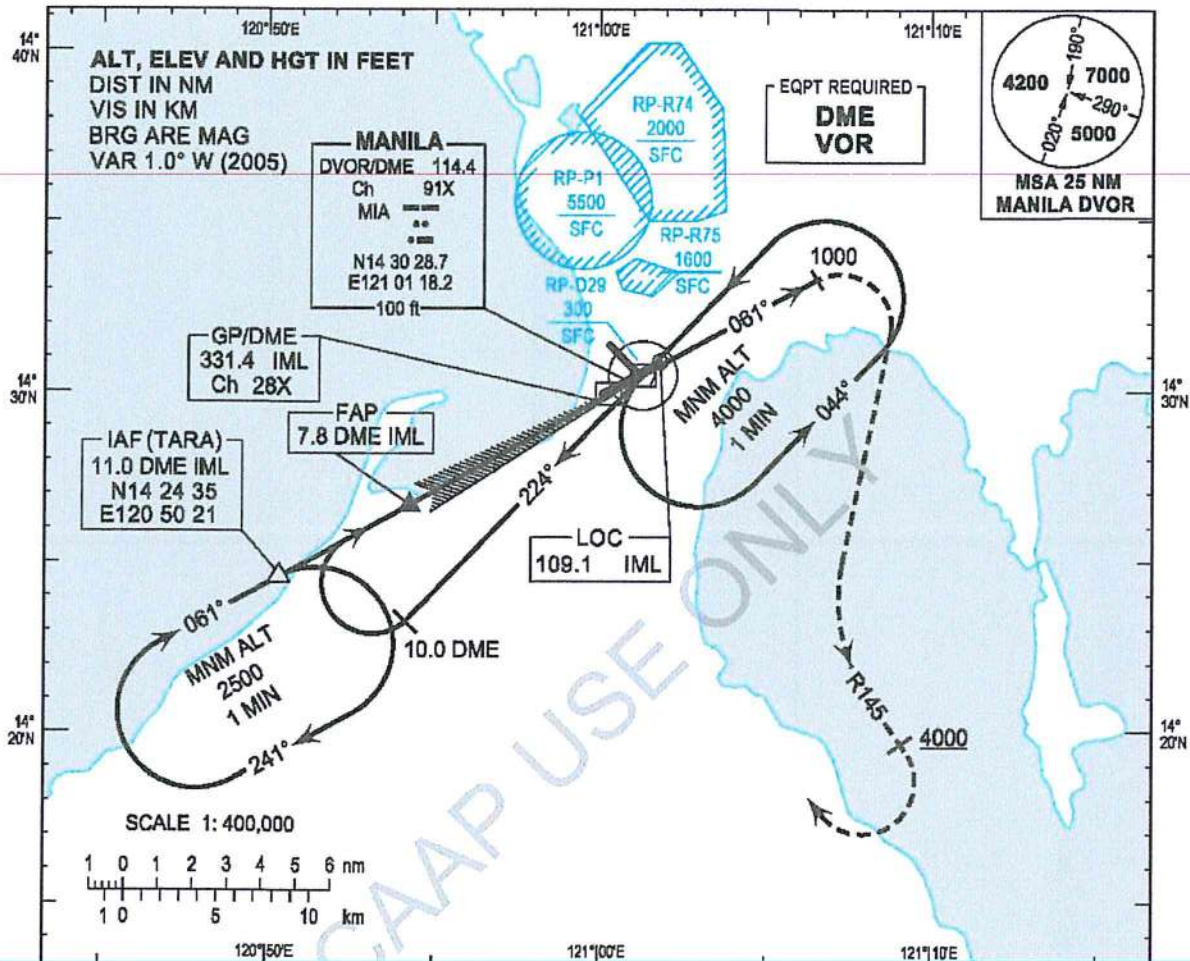
**INSTRUMENT
APPROACH
CHART - ICAO**

AD ELEV 75 ft
HEIGHTS RELATED TO
THR RWY 08

APP - 121.1 / 124.8
TWR - 118.1 / 118.4
GND - 121.8 / 122.0

MANILA/Ninoy Aquino Intl (RPLL)

ILS OR LOC RWY 06



CHANGE: Chart Re-indexed and Resolution.

No Circling	OCA/H	A	B	C	D			
	ILS/DME	280 (264) - 0.8						
CIRCLING	LOC	380 (364) - 1.6		380 (364) - 2.0				
	OCA/H	A	B	C	D			
SECTOR S	470 (395) - 1.9	570 (495) - 2.8	670 (595) - 3.7	770 (695) - 4.6				
SECTOR NW	630 (555) - 1.9	630 (555) - 2.8	670 (595) - 3.7	770 (695) - 4.6				
ILS/DME	7.8	7.0	6.0	5.0	4.0	3.0	2.0	MAPT 0.8
ALT	2500	2255	1935	1615	1295	975	655	280
HGT	(2484)	(2239)	(1919)	(1599)	(1279)	(959)	(639)	(264)