AN/GPN-30 FACILITY REFERENCE DATA (MSSR)

☐ REFERENCE DATA ☐ ANNUAL CERTIFICATION

LOCATION	ORGANIZATION	SERIAL NUMBER (Site ID)	DATE

SECTION I — ANTENNA SUBSYSTEM

PARAMETER	SPECIFICATION	RESULT			
1) MECHANICAL TILT	SITE DEPENDENT	DEGREES			
2) ANTENNA LEVEL	MANUAL 79691	(INITIALS)			
		A		B	
3) FEEDER CABLES INSERTION LOSS		1030 MHz	1090 MHz	1030 MHz	1090 MHz
SUM	SITE DEPENDENT	dB	dB	dB	dB
DIFFERENCE	SITE DEPENDENT	dB	dB	dB	dB
CONTROL	SITE DEPENDENT	dB	dB	dB	dB
PHASING	± 7.0 DEGREES AT 1090 MHz	DEGREES			

SECTION II — TRANSMITTER SUBSYSTEM

PARAMETER	SPECIFICATION	RESULT			
		MSSR-A		MSSR-B	
1) FREQUENCY	1030.0 MHz ± 0.01 MHz	MHz		MHz	
2) POWER OUT		Σ	Ω	Σ	Ω
FORWARD	SITE DEPENDENT ± 1.0 dB	dBW	dBW	dBW	dBW
REVERSE	SITE DEPENDENT	dBW	dBW	dBW	dBW
3) CERTIFICATION SCREEN ACCURACY FOR TRANSMITTER	TI 6310.30				
4) VSWR	< 1.5:1				
5) PULSE CHARACTERISTICS P1/P3		P1	P3	P1	P3
PULSE WIDTH	0.8 µs ± 0.1	µs	µs	µs	µs
RISE TIME	75 ns ± 35 ns	µs	µs	µs	µs
DECAY TIME	125 ns (40 ns to 200 ns)	µs	µs	µs	µs
P2		MSSR-A		MSSR-B	
PULSE WIDTH	0.8 µs ± 0.1	µs		µs	
RISE TIME	75 ns ± 35 ns	µs		µs	
DECAY TIME	125 ns (40 ns to 200 ns)	µs		µs	
PULSE POSITION	2.0 µs AFTER P1 ± 0.1 µs	µs		µs	
6) MODE SPACING MODE 1	3.0 µs ± 0.1 µs	µs		µs	
MODE 2	5.0 µs ± 0.1 µs	µs		µs	
MODE 3/A	8.0 µs ± 0.1 µs	µs		µs	
MODE C	21.0 µs ± 0.1 µs	µs		µs	
7) PULSE REPETITION FREQUENCY (PRF)	SITE DEPENDENT ± 10%	pps		pps	

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About the ITAOP/savePDF Method

The traditional Field-by-Field creation process is extremely ineffective and slow.

The only realistic option to create high-quality forms is the Insert-Text-Anywhere-on-Page (ITAOP) method.

The field creation process is about 10,000 times faster than the traditional method; the list of ITAOP features is not even available for the traditional method.

ITAOP savePDF method proved to be very simple and completely reliable for millions of users all over the world (incl. individuals, companies, organizations, government employees).

SECTION III	RECEIVER AND PROCESSOR SUBSYSTEM							
		RESULT						
		MSSR-A			MSSR-B			
PARAMETER	SPECIFICATION	Δ	Σ	Ω	Δ	Σ	Ω	
1) RECEIVER TEST TARGET CALIBRATION	≤ -8.3 dBm	dBm	dBm	dBm	dBm	dBm	dBm	
2) MINIMUM RECEIVER SENSITIVITY	≤ -92 dBm	dBm	dBm	dBm	dBm	dBm	dBm	
3) DIGITAL SYSTEM SENSITIVITY	≤ -80 dBm			dBm			dBm	
4) CERTIFICATION SCREEN ACCURACY FOR RECEIVERS	TI 6310.30							

PARAMETER	SPECIFICATION	RESULT
5) PROBABILITY OF DETECTION FOR MSSR PARROT		
PD, MINUTE	SITE DEPENDENT	
PD, HOUR	≥ 80%	
RANGE	SITE DEPENDENT	nmi
dRANGE	± 1/8 nmi	nmi
AZIMUTH	SITE DEPENDENT	DEGREES
dAZIMUTH	± 0.17 DEGREES	DEGREES
6) BEACON RTQC	TI 6310.30	

SECTION IV	POWER SUPPLIES		
PARAMETER	SPECIFICATION	RESULT	
1) INTERROGATOR POWER SUPPLIES	T1 6310.30	MSSR-A	MSSR-B
-70V	-70.0 V ± 3.5 V	V	V
+52V	+52 V ± 2.5 V	V	V
+5V	+5.0-V ± 0.3 V	V	V
-5.2V	-5.2 V ± 0.3 V	V	V
+15V	+15.0 V ± 0.7 V	V	V
-15V	-15.0 V ± 0.7 V	V	V
+28V	+28.0 V ± 1.4 V	V	V
+65V	+65.0 V ± 3.1 V	V	V

SECTION V	CONTROL AND MONITOR SYSTEM (CMS)	
PARAMETER	SPECIFICATION	RESULT
1) VARIABLE SITE PARAMETERS VERIFICATION	SITE DEPENDENT	(INITIALS

SECTION VI	MONOPULSE REMOTE SITE MONITOR (MRSM)	
1) TRANSMITTER OUTPUT POWER LEVEL	SITE DEPENDENT	
2) RECEIVER VIDEO LEVEL	SITE DEPENDENT	

CERTIFYING OFFICIAL		
NAME (Last, First, MI)	SIGNATURE	DATE

SIGNATURE INDICATES ALL ANNUAL PERFORMANCE REQUIREMENTS HAVE BEEN CHECKED AND ALL PROBLEM AREAS HAVE BEEN IDENTIFIED AND DOCUMENTED ON THE AF IMT 3600.