

## AN/GPN-22 FACILITY REFERENCE DATA

 REFERENCE

 ANNUAL CERTIFICATION

LOCATION

ORGANIZATION

SERIAL NUMBER

DATE

**SECTION I**
**ANTENNA/BEAM STEERING SUBSYSTEMS**

PARAMETER	SPECIFICATION	RESULT
1) PEDESTAL/ANTENNA LEVELING	31P5-2GPN22-2	(INITIALS)
2) VERTICAL SENSOR (All Rnwys)	< 0.011 DEGREES OF ERROR	(INITIALS)
3) ABPCU ALGORITHM TEST	NO FAULTS	(INITIALS)
4) ABPCU MUX PH-SHF POLL	< 20 FAULTY PHASE SHIFTERS	(TOTAL NUMBER)
5) WAVEGUIDE PRESSURE	31P5-2GPN22-2	(INITIALS)

**SECTION II**
**TRANSMITTER SUBSYSTEMS**

PARAMETER	SPECIFICATION	RESULT	
		1A19	1A201
1) TWT COLLECTOR CURRENT	4V± 0.5V (1A per volt; no termination)	V	V
2) GRID CLAMP PULSE WIDTH	1.35 μsec ± 0.05 μsec	μsec	μsec
3) OUTPUT PULSE	LEADING EDGE UNDISTORTED	(INITIALS)	(INITIALS)
4) RF OUTPUT	40mV TO 60mV (50 ohm termination)		mV
5) POWER OUT (Low Power)	44.8 dBm (20 nm range)	dBm	dBm
	45.5 dBm (15 nm range)	dBm	dBm
6) OUTPUT PULSE WIDTH	1.0 ± 0.1 μsec	μsec	μsec
7) OUTPUT PULSE DELAY (insure o'scope triggered to on-line receiver)	2.3 ± 0.01 μsec (pretrig to center of rf pulse)	μsec	μsec
<b>1A19 METER READINGS</b>			
STBY CONV DC X 100	270 to 380 VDC	VDC	
TWT HVPS X 1k	-23 TO -25kV	kV	
ION PUMP X 1k	3.8 ± 0.4kVDC	kVDC	
TWT BODY	2.0 TO 5.0mA	mA	
<b>1A201 METER READINGS</b>			
STBY CONV VDC	270 to 320 VDC		VDC
TWT HVPS X 1kV	-24.0 ± 1kV		kV
STATIC FREQ CONV AC	145 to 180 VAC		VAC
ION PUMP PS X 1kV	3.7 TO 4.1 kVDC		kVDC
TWT BODY CUR X 1mA	3 TO 6 mA		mA

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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 SUBSYSTEM(s)				
PARAMETER	SPECIFICATION	RESULT				
		RCVR A		RCVR B		
FRONT PANEL FAULT INDICATOR	NO FAULT CODES PRESENT	(INITIALS)	(INITIALS)	(INITIALS)	(INITIALS)	
RECEIVER NOISE	EQUAL FOR NORMAL AND MTI	(INITIALS)	(INITIALS)	(INITIALS)	(INITIALS)	
FALSE ALRM RATE PAR PERF.1 PAR	AVERAGE HISTORY TRAIL	(INITIALS)	(INITIALS)	(INITIALS)	(INITIALS)	
	CENTERS	(INITIALS)	(INITIALS)	(INITIALS)	(INITIALS)	
	ALONG AZIMUTH CURSOR	(INITIALS)	(INITIALS)	(INITIALS)	(INITIALS)	
AZIMUTH ZERO BIAS	HISTORY DOTS CENTERED ON EL. CURSOR	(INITIALS)	(INITIALS)	(INITIALS)	(INITIALS)	
ELEVATION ZERO BIAS	HISTORY DOTS CENTERED ON EL. CURSOR	(INITIALS)	(INITIALS)	(INITIALS)	(INITIALS)	
CHIRP RANGE TRACK TIMING	TRACK SYMBOL BETWEEN HORIZONTAL CURSOR LINES ON EL. DISPLAY	(INITIALS)	(INITIALS)	(INITIALS)	(INITIALS)	
		XOAFI	XOBF2	XOAFI	XOBF2	
MDS	NORMAL	> -100 dBm (At all remote indicators)	dBm	dBm	dBm	dBm
	COHERENT MTI	> -97 dBm (At all remote indicators)	dBm	dBm	dBm	dBm
	NONCOHERENT MTI	> -95 dBm (At all remote indicators)	dBm	dBm	dBm	dBm
SECTION IV		SYSTEM PERFORMANCE ASSESSMENT INFORMATION				
PARAMETER	SPECIFICATION	RESULT				
		RCVR A		RCVR B		
SPA TESTS	TESTS PASS AS DESCRIBED IN APPLICABLE T.O. (See Notes 1 and 2)	(INITIALS)	(INITIALS)	(INITIALS)	(INITIALS)	
SITE PARAMETER PANEL VERIFICATION	PER TRACALS/ATCALs REPORT OR COMMISSIONING DATA	(INITIALS)	(INITIALS)	(INITIALS)	(INITIALS)	
PAR PERFORMANCE	TRACKS REFLECTOR (All runways)	(INITIALS)	(INITIALS)	(INITIALS)	(INITIALS)	
<p>NOTE 1: IT IS RECOMMENDED THAT SKETCHES OF SWEEPED AND MANUAL ANGLE ERROR PRESENTATIONS BE ATTACHED TO THIS FORM. THESE CAN BE USEFUL IF FUTURE TRACKING PROBLEMS OCCUR.</p> <p>NOTE 2: ENSURE UPON COMPLETION OF SPA TEST THAT THE SYSTEM IS RETURNED TO FULLY OPERATIONAL STATUS WITH NO FAULT INDICATIONS.</p>						
SECTION V		TDC PERFORMANCE				
PARAMETER	SPECIFICATION	RESULT				
TDC PERFORMANCE	PASSES BUILT-IN TESTS AS DESCRIBED IN APPLICABLE T.O.	(INITIALS)				
SECTION VI		REMOTING SUBSYSTEM				
PARAMETER	SPECIFICATION	RESULT				
RADAR DATA TRANSFER GROUP	PASSES BUILT-IN TESTS AS DESCRIBED IN APPLICABLE T.O.	(INITIALS)				
SECTION VII		INDICATING SUBSYSTEM				
PARAMETER	SPECIFICATION	RESULT				
VIDEO REGISTRATION ALIGNMENT	31P5-2GPN22-2	(INITIALS)				
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 FORM 3600.						