

**UNCLASSIFIED**

**SECURITY SUMMARY & SPECIAL HANDLING REQUIREMENTS**

**The title of this application is :** AN/PPS-26A, Sense Through The Wall (STTW) Radar

**The overall classification of this application is :** **UNCLASSIFIED**

**Refer to your Security Manual for further guidance.**

**The Application Level Special Handling is :E**

**Exempt from the Freedom of Information Act**

Not Releasable outside the US Government IAW Section 552 (b)(1) of Title 5 of the US Code.

**DOWNGRADING INSTRUCTIONS**

Special Handling Instruction :E

**CLASSIFICATION**

**UNCLASSIFIED**

## FULL RECORD PRINT FOR AN/PPS-26A, Sense Through The Wall

**Selected Frequencies**

(U) 3150.000 MHz

**Application Title**

(U) AN/PPS-26A, Sense Through The Wall (STTW) Radar

**System Name** : (U) AN/PPS-26A, Sense Through The Wall  
**(Nomenclature)**

**Stage** : (U) 4 - Operational  
**Agency** : (U) AR - Department of the Army  
**NTIA Certified** : (U) No  
**Date Of Import** : 1/18/2011 10:04:07 PM (GMT)  
**Date/Time Last Mod.** : 1/18/2011 8:18:48 PM (GMT)  
**Overall Security** : Unclassified

**System Description**

(U) A low power, hand held radiolocation device for through wall detection and location of moving personnel for military and law enforcement use to gain increased situational awareness in urban combat situations.

**Geographic Areas for Stage 4**

(U) Afghanistan (U) Polygon

(U) Buena Park, (U) California (U) Single Point  
 Lat/Lon : (U) 33 51'28"N 118 0'15"W

(U) El Segundo, (U) California (U) Single Point  
 Lat/Lon : (U) 33 54'38"N 118 25'33"W

(U) Iraq (U) Polygon

(U) Forest, (U) Mississippi (U) Single Point  
 Lat/Lon : (U) 32 21'29"N 89 24'12"W

(U) USP (US &amp; POSS) (U) Polygon

**Predefined Trunking?** : (U) No**Certification of Spectrum Support Information****Attachments**

**File Name** : (U) Measured data.pdf  
**File Name** : (U) STTW EL-CID Remarks and Failures.pdf  
**Date of the Attachment:** 1/18/2011

**Recommending Official** : Stephen J. Butcher  
**Title** : Chairman Spectrum Planning Subcommittee  
**Certifying Official** : Edward M. Davison  
**Title** : Deputy Associate Administrator

**To Address** : (U) Army Spectrum Management Office (ASMO)  
 2461 Eisenhower Ave., Suite 1204

## FULL RECORD PRINT FOR AN/PPS-26A, Sense Through The Wall

Cont. (U)

**From Address** : Alexandria, VA 22331-2200  
 : (U) Intelligence and Information Warfare Directorate  
 ATTN: AMSRD-CER-IW-IM  
 Building 600, McAfee Center  
 Fort Monmouth, NJ 07703

**Point(s) of Contact** : (U) Raytheon Project Engineer  
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 714-690-5055  
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 703-704-2068  
 jim.herndon@us.army.mil  
 (U) USA Project Engineer  
 Vincent Curto  
 comm: 732-532-0915  
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 vincent.curto@us.army.mil  
 (U) Raytheon Program Manager  
 Carl Cook  
 714-690-8347  
 cdcook@raytheon.com  
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 310-616-9243  
 igor\_mikhaylov@raytheon.com

**Stage Start(s)**

**Stage (U) 4 - Operational Start Date** : (U) 8/1/2011

**Target Date(s)**

**System Approval** : (U) 8/1/2011

**System Activation** : (U) 8/1/2011

**National Coord. Required?** Yes

**NSEP Use** : (U) Yes

**Extent of Use**

(U) Testing: Continuous 10 hrs/day, 5 days/wk; Peacetime Training: Intermittent 2 min transmissions; Wartime: Intermittent 2 min transmissions 5/day.

**ITU Waiver** : (U) No

**Number Of Units** : (U) 7200

**Num. Units in Same Environment** : (U) 3

**Number Of Units Per Stage**

**Stage 4** : (U) 7200

**Estimated Initial Cost of the System** : (U) \$ 1000000

**System Cost Comments**

(U) \$1M for 30 developmental units.

**Information Transfer Requirement**

(U) N/A

**System Essentiality**

(U) The device provides situational awareness to tactical combat personnel engaged

FULL RECORD PRINT FOR AN/PPS-26A, Sense Through The Wall

Cont. (U)

in urban combat. The device is a standalone system and does not require any external functional support or interfaces.

**Replacement Information**

(U) NA

**Remark(s)** (U)

- (U) AN/PPS-26A, Sense-Through-the-Wall (STTW) Radar, is Raytheon Model RS2-05. This is a low power, hand-held radiolocation system for detecting and locating moving personnel behind obstructions such as buildings and walls. The system provides situational awareness on personnel location in urban combat or law enforcement operations.
- (U) The STTW radar has center frequency of 3150 MHz. The frequency requirement ranges from 2900 MHz - 3400 MHz. The requested tuning range is 2900 MHz - 3400 MHz.
- (U) Army anticipates 1 sensor per squad, 3 per platoon. Training: Expect approximately 3 - 5 systems within a 150m radius in a training environment. Wartime: Expect approximately 3 - 10 systems within a 150m radius in an urban environment. Depending upon specific mission requirements, more sensors may be used in closer proximity in highly populated areas with a large number of buildings/structures. Due to handheld nature of system, sensors may come within 10m - 20m of each other if used within the same building or area.

**Stations**

**Station Name** : (U) AN/PPS-26A

**Transmitters**  
(U) AN/PPS-26A

**Receivers**  
(U) AN/PPS-26A

**Antennas**  
(U) AN/PPS-26A

**Station Name** : (U) Target - Generic

**Selected Modes**

<b>Link</b>	
<b>Transmitting Station</b>	<b>Receiving Station</b>
(U) AN/PPS-26A	(U) Target - Generic
<b>Radio Service</b> :	Radiodetermination
<b>Station Classes</b> :	MRP

**Equipment Combination**

<b>Transmitter</b>	:	(U) AN/PPS-26A
<b>Tx Antenna</b>	:	(U) AN/PPS-26A
<b>Receiver</b>	:	(U) AN/PPS-26A
<b>Rx Antenna</b>	:	(U) AN/PPS-26A

<b>Selected Modes</b>		<b>Em. Des</b>	<b>Power</b>	<b>Notes</b>
<b>Frequency</b>				
(U) 3150.000 MHz		(U) 401MQ3N	(U) 0.251 W Peak	PRI
(U) 3150.000 MHz		(U) 322MQ3N	(U) 0.251 W Peak	PRI

**FULL RECORD PRINT FOR AN/PPS-26A, Sense Through The Wall**

(U) 3150.000 MHz

(U) 269MQ3N

(U) 0.251 W Peak

PRI

FULL RECORD PRINT FOR AN/PPS-26A, Sense Through The Wall

**TRANSMITTER AN/PPS-26A**

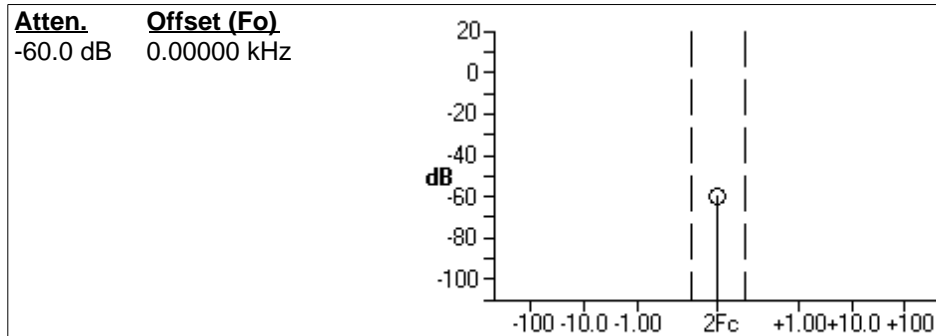
**Nomenclature** : (U) AN/PPS-26A  
**Manufacturer** : (U) RAYTHEON CO. OR RAYTHEON MANUFACTURING CO.  
**Model Name** : (U) STTW, RS2-05  
**Tx Type** : (U) FM Pulsed Radar  
**NTIA Approval Status** : (U) Unapproved  
**Coordination ID** : J/F 12  
**Date of Import** : 1/18/2011 10:04:07 PM (GMT)  
**Date/Time Last Mod.** : 1/18/2011 6:45:16 PM (GMT)  
**Fcc Acc. Number** : (U) NA  
**Filter Type** : (U) Low Pass with 1dB cut-off at 3800MHz and 30dB stop band at 5700MHz.  
**Freq. Stability** : (U) 50ppm  
**Output Device** : (U) Integrated Circuit  
**Tuning Method** : (U) Programmable Frequency Synthesizer  
**Radar/Comm** : (U) Radar  
**Supp. of Harmonics** : (U) No

**Powers**

**Power Type** : Peak Envelope

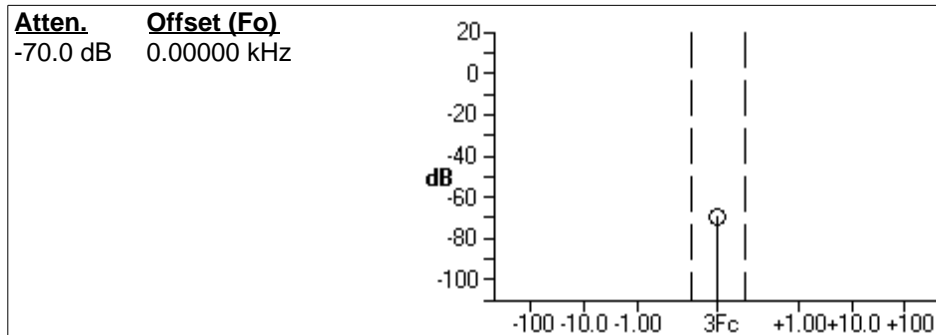
**Upper Limit** : (U) 0.251 W

**Figure 1 - 2nd Harmonic Curve (U)**



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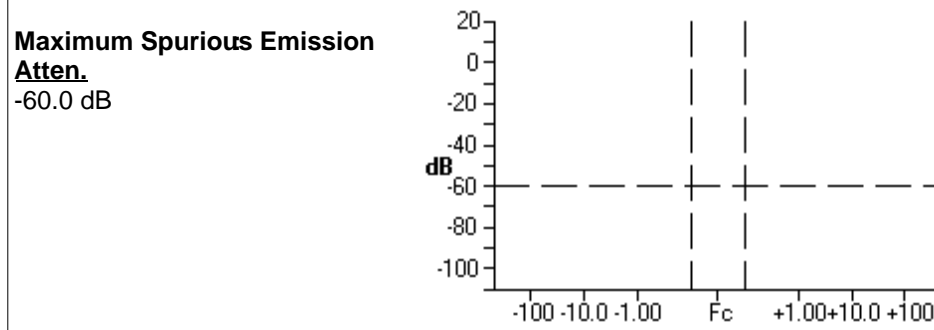
**Figure 2 - 3rd Harmonic Curve (U)**



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## FULL RECORD PRINT FOR AN/PPS-26A, Sense Through The Wall

Figure 3 - Spurious Emission Curve (U)



(UNCLASSIFIED)

Frequencies

Fixed Frequency : (U) 3150.000 MHz  
 Freq. Blocking Indicator : (U) No  
Em. Designator : (U) 401MQ3N  
 Necessary BW : (U) 401000 kHz

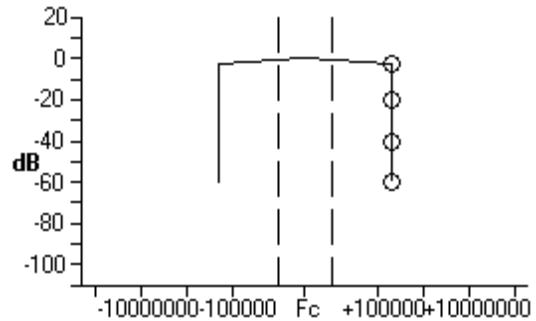
Modulation - 401MQ3N

Occupied Bandwidth : (U) 400000 kHz  
 Measured/Calculated : (U) Measured  
 Radar/Communications : (U) Radar  
 Radar Type : (U) FM Pulse Radar  
 Pulse Repetition Rate : (U) 100 pps  
 Pulse Rise Time : (U) 0.0000100 ms  
  
 Pulse Fall Time : (U) 0.0000100 ms  
 Pulse Width : (U) 2.17 ms  
 Pulse Duty Cycle : (U) 21.74 %  
 Pulse Comp. Ratio : (U) 866048  
 Pulse Freq. Deviation : (U) 398500 kHz  
 Radar Processing Gain : (U) 15.0 dB  
 Radar Subpulses : (U) 2  
 Spread Spectrum : No

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Figure 4 - Fundamental Curve (U)

Meas/Calc Level	Offset (Fo)
-3.00 dB	198850 kHz
-20.0 dB	200350 kHz
-40.0 dB	202900 kHz
-60.0 dB	214400 kHz



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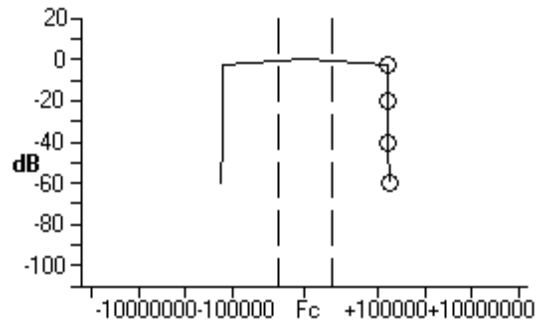
**Em. Designator** : (U) 322MQ3N  
**Necessary BW** : (U) 322000 kHz

**Modulation - 322MQ3N**

**Occupied Bandwidth** : (U) 359000 kHz  
**Measured/Calculated** : (U) Measured  
**Radar/Communications** : (U) Radar  
**Radar Type** : (U) FM Pulse Radar  
**Pulse Repetition Rate** : (U) 100 pps  
**Pulse Rise Time** : (U) 0.0000100 ms  
  
**Pulse Fall Time** : (U) 0.0000100 ms  
**Pulse Width** : (U) 2.17 ms  
**Pulse Duty Cycle** : (U) 21.74 %  
**Pulse Comp. Ratio** : (U) 693082  
**Pulse Freq. Deviation** : (U) 318900 kHz  
**Radar Processing Gain** : (U) 15.0 dB  
**Radar Subpulses** : (U) 2  
**Spread Spectrum** : No

Figure 5 - Fundamental Curve (U)

Meas/Calc Level	Offset (Fo)
-3.00 dB	159550 kHz
-20.0 dB	160950 kHz
-40.0 dB	163500 kHz
-60.0 dB	174900 kHz



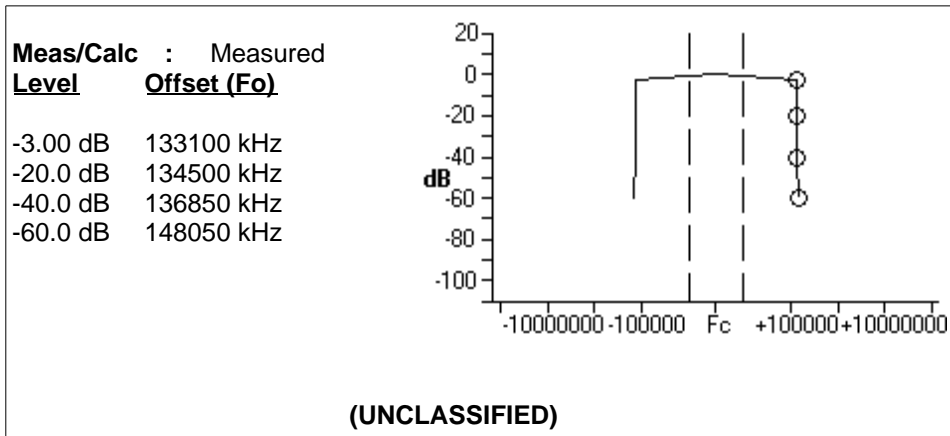
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FULL RECORD PRINT FOR AN/PPS-26A, Sense Through The Wall

**Em. Designator** : (U) 269MQ3N  
**Necessary BW** : (U) 269000 kHz  
**Modulation - 269MQ3N**  
**Occupied Bandwidth** : (U) 300000 kHz  
**Measured/Calculated** : (U) Measured  
**Radar/Communications** : (U) Radar  
**Radar Type** : (U) FM Pulse Radar  
**Pulse Repetition Rate** : (U) 100 pps  
**Pulse Rise Time** : (U) 0.0000100 ms  
  
**Pulse Fall Time** : (U) 0.0000100 ms  
**Pulse Width** : (U) 2.17 ms  
**Pulse Duty Cycle** : (U) 21.74 %  
**Pulse Comp. Ratio** : (U) 577366  
**Pulse Freq. Deviation** : (U) 256600 kHz  
**Radar Processing Gain** : (U) 15.0 dB  
**Radar Subpulses** : (U) 2  
**Spread Spectrum** : No

Figure 6 - Fundamental Curve (U)



**Remark(s)** (U)

(U) Corresponding Emission Designators: 269MQ3N, 322MQ3N, 401MQ3N

Mode Descriptions:

STW Radar consists of three modes. Each mode is based on the range the device is used. The difference between the modes is the chirp width.

Range	Chirp Width	Emission
20m	398.5 MHz	401MQ3N
30m	318.9 MHz	322MQ3N
40m	256.6 MHz	269MQ3N

## FULL RECORD PRINT FOR AN/PPS-26A, Sense Through The Wall

Cont.

(U) Remarks and Failures notes are presented in Attachments section under file Remarks and Failures.pdf.

Measured data is presented in the Attachments section under file Measured Data.pdf.

(U) This is a Raytheon Sense Through the Wall (STTW) Model RS2-05

(U) List of Failures:

Failures in Receiver Section:

401MQ3N

1. At least one IF Selectivity Curve is required for each receiver frequency's Emission - Sensitivity in a Stage 4 Certification. Right-click on this Emission - Sensitivity and choose Add IF Selectivity. Make sure the curve has at least the 3, 20, and 60 dB points. Also ensure Measured/Calculated is specified.

322MQ3N

2. At least one IF Selectivity Curve is required for each receiver frequency's Emission - Sensitivity in a Stage 4 Certification. Right-click on this Emission - Sensitivity and choose Add IF Selectivity. Make sure the curve has at least the 3, 20, and 60 dB points. Also ensure Measured/Calculated is specified.

269MQ3N

3. At least one IF Selectivity Curve is required for each receiver frequency's Emission - Sensitivity in a Stage 4 Certification. Right-click on this Emission - Sensitivity and choose Add IF Selectivity. Make sure the curve has at least the 3, 20, and 60 dB points. Also ensure Measured/Calculated is specified.

\*\*\*\*\*

Failure 1-3 occur because the receiver is heterodyne and does not have IF Selectivity.

\*\*\*\*\*

(U) These failures and their disposition have been reviewed and discussed with the NTIA/OSM and the EL-CID Help Desk who have advised to submit the .cid file "as is" along with these notes. For questions regarding these failures please contact: Ben Tadesse, NTIA/OSM, btadesse@ntia.doc.gov, +1-202-482-1693

## FULL RECORD PRINT FOR AN/PPS-26A, Sense Through The Wall

RECEIVER AN/PPS-26A

**Nomenclature** : (U) AN/PPS-26A  
**Manufacturer** : (U) RAYTHEON CO. OR RAYTHEON MANUFACTURING CO.  
**Model Name** : (U) STTW, RS2-05  
**RxType** : (U) Homodyne  
**NTIA Approval Status** : (U) Unapproved  
**Coordination ID** : J/F 12  
**Date of Import** : 1/18/2011 10:04:07 PM (GMT)  
**Date/Time Last Mod.** : 1/17/2011 7:26:21 PM (GMT)  
**Fcc Acc. Number** : (U) NA  
**Freq. Stability** : (U) 50ppm  
**Image Reject** : (U) 0.000 dB  
**Oscillator Tuned** : (U) Below  
**Tuning Method** : (U) Programmable Frequency Synthesizer  
**Max. Post Detection Freq.** (U) 0.1250000 MHz  
**Preselection Type** : (U) Filter

Frequencies

**Tuned Frequency:** (U) 2900.000 MHz - 3400.000 MHz

Sensitivities

**Em. Designator** : (U) 401MQ3N

Compliance Check Result

**Category:** NTIA Chapter 10 NTIA-CH10-8.8.12-2-F

**Severity:** FAILURE

*At least one IF Selectivity Curve is required for each receiver frequency's Emission - Sensitivity in a Stage 4 Certification. Right-click on this Emission - Sensitivity and choose Add IF Selectivity. Make sure the curve has at least the 3, 20, and 60 dB points. Also ensure Measured/Calculated is specified.*

**Necessary BW** : (U) 401000 kHz

**Perf. Crit.** : (U) SINAD - Signal-to-Noise and Distortion Ratio (dB)

**Perf. Value** : (U) 0

**Sensitivity** : (U) -120 dBm

**Noise Fig.** : (U) 10.0 dB

**Noise Temp.** : (U) 2610 K

**Spur. Reject** : (U) 0.000 dB

Sensitivities

**Em. Designator** : (U) 322MQ3N

Compliance Check Result

**Category:** NTIA Chapter 10 NTIA-CH10-8.8.12-2-F

**Severity:** FAILURE

*At least one IF Selectivity Curve is required for each receiver frequency's Emission - Sensitivity in a Stage 4 Certification. Right-click on this Emission - Sensitivity and choose Add IF Selectivity. Make sure the curve has at least the 3, 20, and 60 dB points. Also ensure Measured/Calculated is specified.*

**Necessary BW** : (U) 322000 kHz

**Perf. Crit.** : (U) SINAD - Signal-to-Noise and Distortion Ratio (dB)

**Perf. Value** : (U) 0

**Sensitivity** : (U) -120 dBm

**Noise Fig.** : (U) 10.0 dB

**Noise Temp.** : (U) 2610 K

**Spur. Reject** : (U) 0.000 dB

Sensitivities

**Em. Designator** : (U) 269MQ3N

FULL RECORD PRINT FOR AN/PPS-26A, Sense Through The Wall

**Compliance Check Result**

**Category: NTIA Chapter 10 NTIA-CH10-8.8.12-2-F**

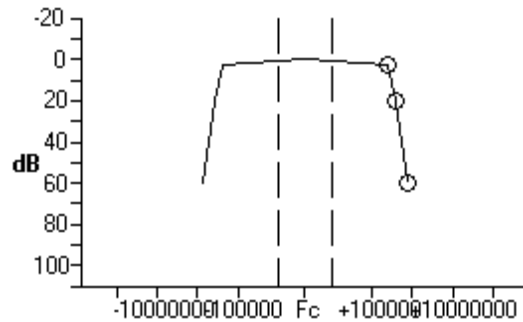
**Severity: FAILURE**

At least one IF Selectivity Curve is required for each receiver frequency's Emission - Sensitivity in a Stage 4 Certification. Right-click on this Emission - Sensitivity and choose Add IF Selectivity. Make sure the curve has at least the 3, 20, and 60 dB points. Also ensure Measured/Calculated is specified.

**Necessary BW** : (U) 269000 kHz  
**Perf. Crit.** : (U) SINAD - Signal-to-Noise and Distortion Ratio (dB)  
**Perf. Value** : (U) 0  
**Sensitivity** : (U) -120 dBm  
**Noise Fig.** : (U) 10.0 dB  
**Noise Temp.** : (U) 2610 K  
**Spur. Reject** : (U) 0.000 dB

Figure 7 - RF Selectivity Curve (U)

<b>Meas/Calc</b>	: Calculated
<b>Atten.</b>	<b>Offset (Fo)</b>
3.00 dB	250000 kHz
20.0 dB	400000 kHz
60.0 dB	785000 kHz



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**Remark(s)** (U)

(U) Homodyne receiver - oscillator is tuned at the RF input frequency (neither above nor below).

## FULL RECORD PRINT FOR AN/PPS-26A, Sense Through The Wall

ANTENNA AN/PPS-26A

**Nomenclature** : (U) AN/PPS-26A  
**Manufacturer** : (U) RAYTHEON CO. OR RAYTHEON MANUFACTURING CO.  
**Model Name** : (U) STTW, RS2-05  
**Antenna Type** : (U) Dipole Array  
**Antenna Category** : Phased Array  
**NTIA Approval Status** : (U) Unapproved  
**Coordination ID** : J/F 12  
**Date of Import** : 1/18/2011 10:04:07 PM (GMT)  
**Date/Time Last Mod.** : 12/6/2010 7:51:09 PM (GMT)  
**Lower Freq. Limit** : (U) 2900.000 MHz  
**Upper Freq. Limit** : (U) 3400.000 MHz  
**Polarization** : (U) Vertical  
**Main Beam Gain** : (U) 8.00 dBi  
**Horz. Beamwidth** : (U) 50.0 degrees  
**Vert. Beamwidth** : (U) 80.0 degrees  
**Degrees of Scan** : (U) 360 degrees  
**Vert. Scan Type** : (U) Manual

Remark(s) (U)

- (U) Scan Characteristics: The hand held device is scanned manually with variable rates. In typical applications, the user holds the device steady in one direction pointing towards a building or room at 0 degrees elevation (level over the ground) for a period of 6 to 30 seconds. As a hand held device it can be pointed by the user in any given direction.
- (U) 1st Major side lobe: -17dB
- (U) Vertical Scan:
1. Max Elev: +90 (typically 0)
  2. Min Elev: -90 (typically 0)
- (U) Sector Blanking: NO

## SUMMARY PRINT FOR AN/PPS-26A, Sense Through The Wall

**Selected Frequencies**

(U) 3150.000 MHz

**Application Title**

(U) AN/PPS-26A, Sense Through The Wall (STTW) Radar

**System Name** : (U) AN/PPS-26A, Sense Through The Wall**(Nomenclature)**

**Stage** : (U) 4 - Operational  
**Agency** : (U) AR - Department of the Army  
**NTIA Certified** : (U) No  
**Date Of Import** : 1/18/2011 10:04:07 PM (GMT)  
**Date/Time Last Mod.** : 1/18/2011 8:18:48 PM (GMT)  
**Overall Security** : Unclassified

**System Description**

(U) A low power, hand held radiolocation device for through wall detection and location of moving personnel for military and law enforcement use to gain increased situational awareness in urban combat situations.

**Geographic Areas for Stage 4**

(U) Afghanistan (U) Polygon

(U) Buena Park, (U) California (U) Single Point  
 Lat/Lon : (U) 33 51'28"N 118 0'15"W

(U) El Segundo, (U) California (U) Single Point  
 Lat/Lon : (U) 33 54'38"N 118 25'33"W

(U) Iraq (U) Polygon

(U) Forest, (U) Mississippi (U) Single Point  
 Lat/Lon : (U) 32 21'29"N 89 24'12"W

(U) USP (US &amp; POSS) (U) Polygon

**Predefined Trunking?** : (U) No**Certification of Spectrum Support Information****Attachments**

**File Name** : (U) Measured data.pdf  
**File Name** : (U) STTW EL-CID Remarks and Failures.pdf  
**Date of the Attachment:** 1/18/2011

**Recommending Official** : Stephen J. Butcher  
**Title** : Chairman Spectrum Planning Subcommittee  
**Certifying Official** : Edward M. Davison  
**Title** : Deputy Associate Administrator

**Stations****Station Name** : (U) AN/PPS-26A

**SUMMARY PRINT FOR AN/PPS-26A, Sense Through The Wall**

Transmitters

Nomenclature : (U) AN/PPS-26A

Receivers

Nomenclature : (U) AN/PPS-26A

Antennas

Nomenclature : (U) AN/PPS-26A

**Station Name** : (U) Target - Generic

Selected Modes

Link

Transmitting Station

(U) AN/PPS-26A

Receiving Station

(U) Target - Generic

**Radio Service** : Radiodetermination

**Station Classes** : MRP

Equipment Combination

**Transmitter** : (U) AN/PPS-26A

**Tx Antenna** : (U) AN/PPS-26A

**Receiver** : (U) AN/PPS-26A

**Rx Antenna** : (U) AN/PPS-26A

Selected Modes

Frequency

(U) 3150.000 MHz

(U) 3150.000 MHz

(U) 3150.000 MHz

Em. Des

(U) 401MQ3N

(U) 322MQ3N

(U) 269MQ3N

Power

(U) 0.251 W Peak

(U) 0.251 W Peak

(U) 0.251 W Peak

Notes

PRI

PRI

PRI

FORM NTIA-44 (3/91)	<b>U.S. DEPARTMENT OF COMMERCE NATIONAL TELECOMMUNICATIONS AND INFORMATION ADMINISTRATION</b>	Classification <b>UNCLASSIFIED</b>	Control Numbers
<b>CERTIFICATION OF SPECTRUM SUPPORT</b>			

Recipient Agency <b>(U) Army</b>	System <b>(U) AN/PPS-26A, Sense Through The Wall</b>	Stage of Review <b>(U) 4 - Operational</b>
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**Section 1: OPERATING CHARACTERISTICS FOR WHICH SUPPORT IS CERTIFIED**

Transmitter Nomenclature/ Transmitter Station	Frequency (MHz)	Emission Designator	Power	Station Classes (Stage 4)
<b>None</b>				

**Section 2: CERTIFICATION LOCATIONS**

<b>None</b>
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**Section 3: SOURCE DOCUMENTS**

<b>None</b>
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**Section 4: SPS RECOMMENDATIONS**

<b>None</b>
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Name/Title of Recommending Official <b>Stephen J. Butcher Chairman Spectrum Planning Subcommittee</b>	Signature	Date
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**Section 5: NTIA CERTIFICATION**

**(U) The Office of Spectrum Management certifies Stage 4 spectrum support for this system. This office concurs with the SPS recommendations in Section 4.**

Name/Title of Certifying Official <b>Edward M. Davison Deputy Associate Administrator</b>	Signature	Date
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Downgrading Instructions  Special Handling Instruction :E	<b>Page 1</b>
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Classification <b>UNCLASSIFIED</b>	Distribution IRAC SPS FAS
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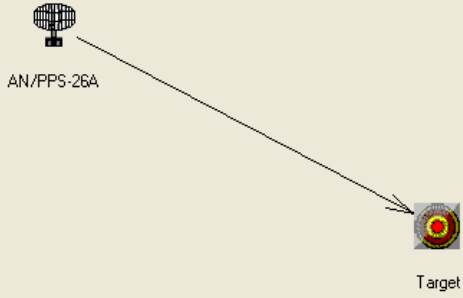
## Frequency List

Tx Station	Rx Station	Frequency (MHz)	Em. Des.	Radio Service	Str. Classes
(U) AN/PPS-26A	(U) Target	(U) 3150.000	(U) 269MQ3N	Radiodetermination	MRP
			(U) 322MQ3N		
			(U) 401MQ3N		

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**Line Diagram: AN/PPS-26A, Sense Through The Wall**



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