

COMSEARCH

19700 Janelia Farm Boulevard, Ashburn, VA, 20147
(703)726-5673 www.comsearch.com

PCN Date: 05/14/2003
Job Number: 030514COMSTI01

New Path
RCN Number: 03051417

Administrative Information	QUIRAUK MD	WASH 911 MD
Status / License Basis	PROPOSED / PRIMARY OPERATION	PROPOSED / PRIMARY OPERATION
Call Sign		WASH911
Licensee Code	S10262	S10262
Licensee Name	MARYLAND, STATE OF MIEMSS COMMUNICATIONS	MARYLAND, STATE OF MIEMSS COMMUNICATIONS
Radio Service / Station Class	MW - Microwave Public Safety Pool	FXO - Fixed

Site Information	QUIRAUK MD	WASH 911 MD
Latitude (NAD 83)	39 ° 41' 47.0" N	39 ° 38' 36.0" N
Longitude (NAD 83)	77 ° 30' 45.5" W	77 ° 43' 27.0" W
Ground Elevation (m/ft-AMSL)	652.94 / 2142.2	165.51 / 543.0
Antenna Structure Registration #	1235887	
Path Azimuth (°)	252.087	71.952
Path Length (km / miles)	19.082 / 11.857	

Transmit Antenna	QUIRAUK MD	WASH 911 MD
Manufacturer	ANDREW CORPORATION	ANDREW CORPORATION
Model	PAR8-65B LF	PAR8-65B LF
Gain (dBi) / Beamwidth (°) / Tilt (°)	41.3 / 1.30 / -1.54	41.3 / 1.30 / 1.41
Centerline (m / ft - AGL)	30.48 / 100.0	27.43 / 90.0

Receive Antenna	QUIRAUK MD	WASH 911 MD
Manufacturer		
Model		
Gain (dBi) / Beamwidth (°)		
Centerline (m / ft - AGL)		

Diversity Receive Antenna	QUIRAUK MD	WASH 911 MD
Manufacturer		
Model		
Gain (dBi) / Beamwidth (°)		
Centerline (m / ft - AGL)		

Radio Information	QUIRAUK MD	WASH 911 MD
Manufacturer	MICROWAVE NETWORKS	MICROWAVE NETWORKS
Model	LBW-CM6HC-28DS1/1DS3	LBW-CM6HC-28DS1/1DS3
Model Description		
Emission Designator / Modulation	10M0D7W 64 QAM	10M0D7W 64 QAM
Loading	672 CH DIG 49116.0	672 CH DIG 49116.0
Stability (%)	0.001	0.001
Power (dBm)	Nominal 29.0	Nominal 29.0
Received Level (dBm)	-31.0	-31.0
EIRP (dBm)	66.3	66.3
Fixed Loss: Tx / Common (dB)	0.0 / 4.0	0.0 / 4.0
Free Space Loss (dB)		134.6

Transmit Frequencies (MHz)	QUIRAUK MD	WASH 911 MD
	6765.0000V(3)	6605.0000V(3)

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04/11/2001

MICROWAVE PATH DATA

<u>STATION NAME</u>	GAMBRILLS MD	LAMBS KNOLL MD
<u>PATH STATUS</u>	PROPOSED	
CALL SIGN	WPND848	
OWNER CODE	MARYST	MARYST
LATITUDE (D-M-S) (NAD83)	39 29 40.4	39 26 52.9
LONGITUDE (D-M-S) (NAD83)	77 29 54.0 ✓	77 37 34.2
GROUND ELEV (Ft/m-AMSL)	1730.1/527.30	1758.0/535.80
PATH AZIMUTH (Deg)	244.886	64.805
PATH DISTANCE (Miles)		
	7.551	
	(Km) 12.153	
<u>ANTENNA</u>		
<u>PRIMARY</u> TX	ANDREW CORPORATION	ANDREW CORPORATION
	PAR6-65A RF	PAR6-65A RF
ANT CODE	51290A	51290A
GAIN(dBi)/BEAMWIDTH(Deg)	38.8/1.80	38.8/1.80
C/L (Ft/m-AGL)	100.1/30.50 ✓	100.1/30.50 ✓
<u>PRIMARY</u> RX		
	SAME AS TRANSMITTER	
ANT CODE		
GAIN(dBi)/BEAMWIDTH(Deg)		
C/L (Ft/m-AGL)		
<u>DIVERSITY</u> RX		
ANT CODE		
GAIN(dBi)/BEAMWIDTH(Deg)		
C/L (Ft/m-AGL)		
<u>EQUIPMENT</u>		
<u>TRANSMITTER MANUFACTURER</u>	TADIRAN MICROWAVE NE	TADIRAN MICROWAVE NE
<u>TRANSMITTER MODEL</u>	LBW-CM6HC-28DS1	LBW-CM6HC-28DS1
<u>COMSEARCH INTERNAL ID</u>	TEM854	TEM854
<u>EMISSION</u>	10M0D7W	10M0D7W
<u>LOADING</u>	672 CH DIG	672 CH DIG
<u>STABILITY (%)</u>	0.001000	0.001000
<u>POWER (dBm/Watts)</u>	29.0/0.794	29.0/0.794
<u>RECEIVED LEVEL (dBm)</u>	-30.1	-30.1
<u>EIRP (dBm/Watts)</u>	64.8/3020.0	64.8/3020.0
<u>FIXED LOSSES (dB)</u>	3.0	3.0
<u>FREE SPACE LOSS (dB)</u>		130.7
<u>TRANSMIT FREQUENCIES (MHZ)</u>	6585.00000V	6745.00000V

MARYST = MARYLAND STATE OF

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NEW PATH

CURRENT PCN DATE: 06/14/2002

CURRENT JOB/RCN NUMBER: 020614TI02/02061416

MICROWAVE PATH DATA

STATION NAME LAMBS KNOLL MD HAGERSTOWN MD
PATH STATUS PROPOSED

CALL SIGN
OWNER CODE S10262 S10262
LATITUDE (D-M-S) (NAD83) 39 26 53.7 39 36 16.2
LONGITUDE (D-M-S) (NAD83) 77 37 35.6 77 44 12.0
GROUND ELEV (Ft/m-AMSL) 1771.1/539.80 555.5/169.30
PATH AZIMUTH (Deg) 331.411 151.341
PATH DISTANCE (Miles) 12.280
(Km) 19.763

ANTENNA
PRIMARY TX ANDREW CORPORATION ANDREW CORPORATION
PAR8-65A RF PAR8-65A RF
ANT CODE A64321 A64321
GAIN(dBi)/BEAMWIDTH(Deg) 41.3/1.30 41.3/1.30
C/L (Ft/m-AGL) 90.2/27.50 80.1/24.40
PRIMARY RX

SAME AS TRANSMITTER

ANT CODE
GAIN(dBi)/BEAMWIDTH(Deg)
C/L (Ft/m-AGL)
DIVERSITY RX

ANT CODE
GAIN(dBi)/BEAMWIDTH(Deg)
C/L (Ft/m-AGL)

EQUIPMENT
TRANSMITTER MANUFACTURER MICROWAVE NETWORKS MICROWAVE NETWORKS
TRANSMITTER MODEL LBW-CM6HC-28DS1/1DS3 LBW-CM6HC-28DS1/1DS3
COMSEARCH INTERNAL ID TEM663 TEM663
EMISSION 10MOD7W 10MOD7W
LOADING 672 CH DIG 672 CH DIG
STABILITY (%) 0.001000 0.001000
POWER (dBm/Watts) 29.0/0.794 29.0/0.794

RECEIVED LEVEL (dBm) -28.3 -28.3

EIRP (dBm/Watts) 67.8/ 6025.6 67.8/ 6025.6
FIXED LOSS:TX|COMMON(dB) 0.0| 2.5 0.0| 2.5
FREE SPACE LOSS (dB) 134.9

TRANSMIT 6795.00000H 6635.00000H
FREQUENCIES
(MHZ)

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NEW PATH

CURRENT PCN DATE: 06/14/2002

CURRENT JOB/RCN NUMBER: 020614TI02/02061416

MICROWAVE PATH DATA

<u>STATION NAME</u>	HAGERSTOWN MD	FAIRVIEW MD
<u>PATH STATUS</u>	PROPOSED	

CALL SIGN		WNTI985
OWNER CODE	S10262	S10262
LATITUDE (D-M-S) (NAD83)	39 36 16.2	39 39 24.3
LONGITUDE (D-M-S) (NAD83)	77 44 12.0	77 58 8.9
GROUND ELEV (Ft/m-AMSL)	555.5/169.30	1675.9/510.80
PATH AZIMUTH (Deg)	286.281	106.133
PATH DISTANCE (Miles)		12.915
(Km)		20.785

ANTENNA

<u>PRIMARY TX</u>	ANDREW CORPORATION	ANDREW CORPORATION
	UHX8-65E RF	UHX8-65E RF
ANT CODE	A64640	A64640
GAIN(dBi)/BEAMWIDTH(Deg)	42.0/1.30	42.0/1.30
C/L (Ft/m-AGL)	100.1/30.50	75.1/22.90
<u>PRIMARY RX</u>		

SAME AS TRANSMITTER

ANT CODE
GAIN(dBi)/BEAMWIDTH(Deg)
C/L (Ft/m-AGL)
DIVERSITY RX

ANT CODE
GAIN(dBi)/BEAMWIDTH(Deg)
C/L (Ft/m-AGL)

EQUIPMENT

TRANSMITTER MANUFACTURER	MICROWAVE NETWORKS	MICROWAVE NETWORKS
TRANSMITTER MODEL	LBW-CM6HC-28DS1/1DS3	LBW-CM6HC-28DS1/1DS3
COMSEARCH INTERNAL ID	TEM663	TEM663
EMISSION	10MOD7W	10MOD7W
LOADING	672 CH DIG	672 CH DIG
STABILITY (%)	0.001000	0.001000
POWER (dBm/Watts)	29.0/0.794	29.0/0.794

RECEIVED LEVEL (dBm)	-27.4	-27.4
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EIRP (dBm/Watts)	68.5/ 7079.5	68.5/ 7079.5
FIXED LOSS:TX COMMON(dB)	0.0 2.5	0.0 2.5
FREE SPACE LOSS (dB)	135.4	

TRANSMIT 6615.00000H	6775.00000H
FREQUENCIES (MHZ)	

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NEW PATH

CURRENT PCN DATE: 06/14/2002

CURRENT JOB/RCN NUMBER: 020614TI02/02061415

MICROWAVE PATH DATA
HAGERSTOWN MD
PROPOSED

WASHCO911 MD

STATION NAMEPATH STATUS

CALL SIGN

OWNER CODE

LATITUDE (D-M-S) (NAD83)

LONGITUDE (D-M-S) (NAD83)

GROUND ELEV (Ft/m-AMSL)

PATH AZIMUTH (Deg)

PATH DISTANCE (Miles)

(Km)

S10262

39 36 16.2

77 44 12.0

555.5/169.30

13.975

2.761

4.443

S10262

39 38 36.0

77 43 27.0

543.0/165.50

193.983

ANTENNAPRIMARY TX

ANDREW CORPORATION

HP4-107A

A12107

40.4/1.60

125.0/38.10

ANDREW CORPORATION

HP4-107A

A12107

40.4/1.60

90.2/27.50

SAME AS TRANSMITTER

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

PRIMARY RX

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

DIVERSITY RX

ANT CODE

GAIN(dBi)/BEAMWIDTH(Deg)

C/L (Ft/m-AGL)

EQUIPMENT

TRANSMITTER MANUFACTURER

TRANSMITTER MODEL

COMSEARCH INTERNAL ID

EMISSION

LOADING

STABILITY (%)

POWER (dBm/Watts)

MICROWAVE NETWORKS

LBW-CM11HC-1DS3

TEM480

10MOD7W

672 CH DIG

0.001000

28.0/0.631

MICROWAVE NETWORKS

LBW-CM11HC-1DS3

TEM480

10MOD7W

672 CH DIG

0.001000

28.0/0.631

RECEIVED LEVEL (dBm)

-29.6

-29.6

EIRP (dBm/Watts)

62.4/ 1737.8

62.4/ 1737.8

FIXED LOSS:TX|COMMON(dB)

0.0| 6.0

0.0| 6.0

FREE SPACE LOSS (dB)

126.4

TRANSMIT 11455.00000V

10965.00000V

FREQUENCIES

(MHZ)

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