Microwave Path Data Sheet

Comsearch
19700 Janelia Farm Boulevard, Ashburn, VA, 20147
(703)726-5869 www.comsearch.com

PCN Date: 12/29/2016
Job Number: 160629COMSTH01

Administrative Information	**FAKA UNIONPS FL**	**MERRITT PS FL**
City/County	/COLLIER	/COLLIER
Status / License Basis	Engineering Proposal / PRIMARY OPERATION	Engineering Proposal / PRIMARY OPERATION
Call Sign		
Licensee Code	S08966	S08966
Licensee Name	South Florida Water Management Dist	South Florida Water Management Dist
Radio Service / Station Class	MG -- Microwave Industrial/Business Pool	FXO -- Fixed

Site Information		
Latitude (NAD 83)	26 ° 7' 2.9" N	26 ° 8' 21.5" N
Longitude (NAD 83)	81 ° 31' 10.1" W	81 ° 29' 29.5" W
Ground Elevation (m/ft-AMSL)	4.50 / 14.8	2.74 / 9.0
Antenna Structure Registration #	1299442	
Path Azimuth (°)	49.116	229.129
Path Length (km / miles)	3.696 / 2.297	

Transmit Antenna	73429A	73429A
Manufacturer	Commscope	Commscope
Model	HP4-107B	HP4-107B
Gain(dBi) / Beamwidth(°) / Tilt(°)	40.4 / 1.60 / -0.16	40.4 / 1.60 / 0.13
Centerline (m / ft - AGL)	33.53 / 110.0	25.91 / 85.0

Receive Antenna	Same As Transmit
Manufacturer	
Model	
Gain (dBi) / Beamwidth (°)	
Centerline (m / ft - AGL)	

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

Radio Information	TEPH24	TEPH24
Manufacturer	Aviat Networks, Inc.	Aviat Networks, Inc.
Model	I600V3H11-10M 128Q 50MB	I600V3H11-10M 128Q 50MB
Model Description	ECLIPSE IRU-600 RAC 60-6X MAX TP V3	ECLIPSE IRU-600 RAC 60-6X MAX TP V3
Emission Designator / Modulation	10M0D7W 128 QAM	10M0D7W 128 QAM
Loading	1 CH DIG 50000.000	1 CH DIG 50000.000
Stability (%)	0.001	0.001
	Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm)	27.5	27.5
Received Level (dBm)	-27.4	-27.4
EIRP (dBm)	61.9	63.0
Fixed Loss: Tx / Common (dB)	0.0 / 6.0	0.0 / 4.9
Free Space Loss (dB)	124.8	

Transmit Frequencies (MHz)	11605.0000V(3)	11115.0000V(3)

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City/County	/COLLIER	/COLLIER
Status / License Basis	Engineering Proposal / PRIMARY OPERATION	Engineering Proposal / PRIMARY OPERATION
Call Sign		
Licensee Code	S08966	S08966
Licensee Name	South Florida Water Management Dist	South Florida Water Management Dist
Radio Service / Station Class	MG -- Microwave Industrial/Business Pool	FXO -- Fixed

Site Information		
Latitude (NAD 83)	26 ° 7' 2.9" N	26 ° 7' 12.0" N
Longitude (NAD 83)	81 ° 31' 10.1" W	81 ° 33' 14.0" W
Ground Elevation (m/ft-AMSL)	4.50 / 14.8	2.74 / 9.0
Antenna Structure Registration #	1299442	
Path Azimuth (°)	274.659	94.644
Path Length (km / miles)	3.454 / 2.146	

Transmit Antenna	73429A	73429A
Manufacturer	Commscope	Commscope
Model	HP4-107B	HP4-107B
Gain(dBi) / Beamwidth(°) / Tilt(°)	40.4 / 1.60 / -0.17	40.4 / 1.60 / 0.14
Centerline (m / ft - AGL)	33.53 / 110.0	25.91 / 85.0

Receive Antenna	Same As Transmit
Manufacturer	
Model	
Gain (dBi) / Beamwidth (°)	
Centerline (m / ft - AGL)	

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

Radio Information	TEPH24	TEPH24
Manufacturer	Aviat Networks, Inc.	Aviat Networks, Inc.
Model	I600V3H11-10M 128Q 50MB	I600V3H11-10M 128Q 50MB
Model Description	ECLIPSE IRU-600 RAC 60-6X MAX TP V3	ECLIPSE IRU-600 RAC 60-6X MAX TP V3
Emission Designator / Modulation	10M0D7W 128 QAM	10M0D7W 128 QAM
Loading	1 CH DIG 50000.000	1 CH DIG 50000.000
Stability (%)	0.001	0.001

	Nominal	Coordinated	Maximum	Nominal	Coordinated	Maximum
Power (dBm)		27.5			27.5	
Received Level (dBm)		-27.9			-27.9	
EIRP (dBm)		61.9			61.9	

Fixed Loss: Tx / Common (dB)	0.0 / 6.0	0.0 / 6.0
Free Space Loss (dB)	124.2	

Transmit Frequencies (MHz)	10855.0000V(3)	11345.0000V(3)

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Administrative Information	**MERRITT PS FL**	**MILLER PS FL**
City/County	/COLLIER	/COLLIER
Status / License Basis	Engineering Proposal / PRIMARY OPERATION	Engineering Proposal / PRIMARY OPERATION
Call Sign		
Licensee Code	S08966	S08966
Licensee Name	South Florida Water Management Dist	South Florida Water Management Dist
Radio Service / Station Class	MG -- Microwave Industrial/Business Pool	FXO -- Fixed
Site Information		
Latitude (NAD 83)	26 ° 8' 21.5" N	26 ° 7' 12.0" N
Longitude (NAD 83)	81 ° 29' 29.5" W	81 ° 33' 14.0" W
Ground Elevation (m/ft-AMSL)	2.74 / 9.0	2.74 / 9.0
Antenna Structure Registration #		
Path Azimuth (°)	251.084	71.057
Path Length (km / miles)	6.593 / 4.097	
Transmit Antenna	73429A	73429A
Manufacturer	Commscope	Commscope
Model	HP4-107B	HP4-107B
Gain(dBi) / Beamwidth(°) / Tilt(°)	40.4 / 1.60 / 0.00	40.4 / 1.60 / -0.05
Centerline (m / ft - AGL)	27.43 / 90.0	30.48 / 100.0
Receive Antenna	Same As Transmit	
Manufacturer		
Model		
Gain (dBi) / Beamwidth (°)		
Centerline (m / ft - AGL)		
Diversity Receive Antenna		
Manufacturer		
Model		
Gain (dBi) / Beamwidth (°)		
Centerline (m / ft - AGL)		
Radio Information	TEPH24	TEPH24
Manufacturer	Aviat Networks, Inc.	Aviat Networks, Inc.
Model	I600V3H11-10M 128Q 50MB	I600V3H11-10M 128Q 50MB
Model Description	ECLIPSE IRU-600 RAC 60-6X MAX TP V3	ECLIPSE IRU-600 RAC 60-6X MAX TP V3
Emission Designator / Modulation	10M0D7W 128 QAM	10M0D7W 128 QAM
Loading	1 CH DIG 50000.000	1 CH DIG 50000.000
Stability (%)	0.001	0.001
	Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm)	27.5	27.5
Received Level (dBm)	-33.2	-33.2
EIRP (dBm)	62.8	61.3
Fixed Loss: Tx / Common (dB)	0.0 / 5.1	0.0 / 6.6
Free Space Loss (dB)	129.8	
Transmit Frequencies (MHz)	10895.0000V(7)	11385.0000V(7)