

19700 Janelia Farm Boulevard

Ashburn, VA 20147

(703) 726-5500

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COMSEARCH®

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October 11, 2001

*** CLIENT COPY ***

*** PLEASE MAIL ***

*** TO CUSTOMER ***, VA 00000

RE: ZHONE TECHNOLOGIES, INC
Job Number: 011011WP02

SITE A - SITE B, CA

Temporary 23 GHz Digital Microwave System in Oakland, CA

Operation Dates: October 22, 2001 through April 11, 2002

*** Expedited Response Requested By October 22, 2001 ***

Dear Frequency Coordinator:

Comsearch has completed an interference analysis for the system described in the attached documentation. Our analysis indicates that the proposed system meets industry accepted interference criteria with your system. If your system is licensed on a secondary basis, you are required by FCC Rule Part 2.105(c)(3)(i) to ensure non-interference into this proposed system.

In accordance with FCC Rule Part 101.103(d), we are providing you with the technical parameters of the proposed system for your review. Please include the job number referenced above in your response. DUE TO THE URGENT NATURE OF THIS COORDINATION, WE WILL ASSUME THAT YOU DO NOT OBJECT TO THIS PROPOSAL IF A RESPONSE IS NOT RECEIVED BY October 22, 2001.

Operation of this path will commence under an experimental authorization upon completion of coordination and will end prior to April 11, 2002.

If you have any questions or require additional information, please contact me at (703)726-5681.

Sincerely,

COMSEARCH

/s/ William W. Perkins
Principal Engineer
Microwave and Satellite Services

Enclosure(s)

COMSEARCH
19700 Janelia Farm Blvd.
Ashburn, VA 20147
(703) 726-5500

NEW PATH

CURRENT PCN DATE: 10/11/2001

CURRENT JOB/RCN NUMBER: 011011WP02/01101137

MICROWAVE PATH DATA

STATION NAME	SITE A	CA	SITE B	CA
PATH STATUS	TEMPORARY			
CALL SIGN				
OWNER CODE	ZHOTEC		ZHOTEC	
LATITUDE (D-M-S) (NAD83)	37 45 0.2		37 45 1.9	
LONGITUDE (D-M-S) (NAD83)	122 12 23.4		122 12 24.5	
GROUND ELEV (Ft/m-AMSL)	6.0/1.83		6.0/1.83	
PATH AZIMUTH (Deg)	332.806		152.806	
PATH DISTANCE (Miles)		0.037		
(Km)		0.059		

ANTENNA

PRIMARY	TX				
		GABRIEL ELECTRONIC		GABRIEL ELECTRONIC	
		GF2-220		GF2-220	
ANT CODE		85664G		85664G	
GAIN(dBi)/BEAMWIDTH(Deg)		40.0/1.70		40.0/1.70	
C/L (Ft/m-AGL)		43.0/13.11		43.0/13.11	
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	ZHONE TECHNOLOGIES, I	ZHONE TECHNOLOGIES, I
TRANSMITTER MODEL	SKYZHONE 8E	SKYZHONE 8E
COMSEARCH INTERNAL ID	TEMA65	TEMA65
EMISSION	28M0D7W	28M0D7W
LOADING	2016CH DIG	2016CH DIG
STABILITY (%)	0.001000	0.001000
POWER (dBm/Watts)	15.0/0.032	15.0/0.032
FIXED LOSS: TX/COM (dB)	20.0/1.0	20.0/1.0
EIRP (dBm/Watts)	34.0/2.5	34.0/2.5
FREE SPACE LOSS (dB)		94.8
RECEIVED LEVEL (dBm)	-21.8	-21.8
TRANSMIT	21290.50000V	21507.50000V
FREQUENCIES	21682.50000V	22522.50000V 22739.50000V
(MHZ)		22914.50000V

ZHOTEC = ZHONE TECHNOLOGIES, INC