

FREQUENCY COORDINATION AND INTERFERENCE
ANALYSIS REPORT

LMDS Connectivity Test Bed
Scottsdale, AZ

PREPARED FOR

MOTOROLA, INC.
SATELLITE COMMUNICATIONS GROUP
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PREPARED BY
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TABLE OF CONTENTS

1. CONCLUSIONS
2. SUMMARY OF RESULTS
3. CERTIFICATION

1. Conclusions

An interference study considering all existing, proposed and prior coordinated facilities within a 125 mile range of the proposed LMDS Connectivity test area in Scottsdale, Az has been completed. A thorough search of Comsearch's and the FCC's microwave, earth station, and other services databases indicates that no potential for interference into or from other systems exists. A summary of the results of our analysis is included in Section 2.

2. Summary of Results

Motorola, Inc. will be performing experimental LMDS connectivity tests in the Scottsdale, AZ area. The tests involving terrestrial hub and subscriber terminals will operate in the 27.662 GHz through 29.492 GHz. Comsearch performed an interference analysis using their commercial databases and found no terrestrial facilities within the state of Arizona in operation within 500 MHz of the proposed test frequencies. The only facility within a 125 mile contour in operation is Motorola's Iridium gateway earth station facility in Tempe, AZ, which transmits between 29.1-29.5 GHz. Motorola will ensure that the operation of this facility will not cause unwanted interference into their test system. Additional searches involving all of the FCC's WTB databases were performed. No facilities within the 500 MHz (27-30 GHz) exist within a 125 mile radius of Scottsdale, AZ. Comsearch feels that Motorola, Inc. can operate within their test frequencies of 27.662 GHz through 29.492 GHz with no potential for interference from or into their system. The following are the parameters used in the query of the FCC databases:

Test Area Latitude: 33-30-30 N

Test Area Longitude: 111-50-00 W

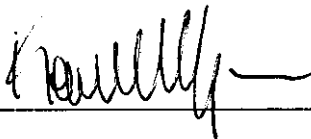
Search Radius: 125 miles

Radio Services: All

Databases: Coast and Ground Database
WTB Land Mobile Database
WTB Paging
Cellular Database
Microwave Database
Earth Station Database
Land Mobile Pending Database
Microwave Pending Database
Coast and Ground Pending DB

3. Certification

I hereby certify that I am the technically qualified person responsible for the preparation of this frequency coordination report, that I am familiar with parts 5, 25, and 101 of the FCC rules and regulations, that I have either prepared or reviewed the coordination data report contained herein, and that it is complete and correct to the best of knowledge and belief

By: 

Kenneth G. Ryan

Director, Satellite Engineering Services

COMSEARCH

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Dated: 11/16/98