

Federal Communications Commission

Docket No. 10702-08 Exhibit No. 12

Presented by _____

Disposition

Identified

Received

Rejected

Reporter Hazard

Date 10/22/08

10702-08-12-1

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FCC 401

FEDERAL COMMUNICATIONS COMMISSION Washington, D.C. 20554

Approved by OMB

RECEIVED

APPLICATION FOR NEW OR MODIFIED COMMON CARRIER RADIO STATION AUTHORIZATION UNDER PART 22

APR 15 1992

SCHEDULE A

1. Does this application refer to an existing station? [] Yes [X] No If "YES" give Call Sign: N/A
2. Is this an amendment to pending application? [X] No If "YES" give File No.: N/A

3. Name of Applicant, Indicate the name, mailing address and telephone number.
Legal Name of Applicant: ALEE CELLULAR COMMUNICATIONS
Assumed Name Used for Doing Business: None
Mailing Address: 106 CRANFORD AVENUE CRANFORD, NJ 07016
Area Code & Telephone Number: 201 276-0745 Ext:

4. Contact Representative, If other than applicant.
Name (Last Name First):
Firm or Company Name:
Mailing Address:
Area Code & Telephone Number: Ext:

5. Indicate the number of separate sites requested in this application. 1
6. Type of Service: B. Two Way.
7. Nature of Service: B. Domestic Public Cellular Radio Telecommunications Service.
Attach as Exhibit: 3 a showing of financial qualifications as required by Section 22.917 of FCC Rules and Regulations.
Carrier Type: A. Radio Common Carrier.

Table MOB-1A: Control Points. (A) Initial, Additional or Deleted Location: TO BE DETERMINED. (B) FCC Use Only Control Pt. No.: I

Table MOB-1B: Location of Relocated Control Points: (address, city & state).
Current Location: N/A
Proposed Location: N/A

10. Applicant is: Individual Partnership Unincorporated Corporation

11. If applicant is a corporation identify the state or country laws under which it is organized.

Place an "X" in the appropriate column | Yes | No

12. Does the applicant certify that it complies with Section 301(b) of the Communications Act of 1934, as amended, and Section 22.4 of the Commission's Rules regarding alien ownership and control?
 If "No" attach as Exhibit N/A a statement describing applicant's ownership or control by aliens.

X

13. Is applicant directly or indirectly controlled by any other corporation?
 If "Yes" attach as Exhibit N/A names and addresses of all such controlling corporations, including organization having ultimate control.

X

14. Has applicant or any party to this application had any FCC station license or permit revoked or had any application for permit, license or renewal denied by this Commission?
 If "Yes" attach as Exhibit N/A a showing giving call sign of license or permit revoked and related circumstances.

X

15. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sales of radio apparatus, exclusive traffic arrangement, or any other means or unfair methods of competition?
 If "Yes" attach as Exhibit N/A a statement relating the facts.

X

16. Has the applicant, or any party to this application, or any person directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court?
 If "Yes" attach as Exhibit N/A a statement relating the facts.

X

17. Is applicant, or any person directly or indirectly controlling the applicant, presently a party in any pending matter referred to in Items 15 and 16?
 If "Yes" attach as Exhibit N/A a statement relating the facts.

X

18. Is applicant directly or indirectly, through stock ownership, contract, or otherwise currently interested in the ownership or control of any other licensed radio stations or pending applications for radio stations under Part 22, within 40 miles of the station applied for here?
 (See Section 22.13(a) of FCC Rules and Regulations)
 If "Yes" attach as Exhibit N/A show for each Call Sign (if known), File Number (if pending), service, base station location (city, state), frequency and name of licensee.

X

19. Has applicant been denied state certification for the facilities proposed in this application?
 If "Yes" attach as Exhibit N/A a statement describing the state authorities action and any pending appeals, or whether the state appeal process has been exhausted and attach copies of any relevant decisions.

X

Place an "X" in the appropriate column | Yes | No

Is this an application for one or more additional channels for which a loading study is required per Sections 22.16 and 22.516 of FCC Rules? X
 If "Yes" attach as Exhibit N/A the required loading study. In the same Exhibit, show data on held orders or from a statistical survey or any other materials which demonstrate that the public interest would be served by this application.

21. Is this application for more than one channel on a new system? X
 If "Yes" attach as Exhibit N/A data on held orders or from a statistical survey or any other materials which demonstrate that the public interest would be served by this application.

22. List below the Exhibits that are attached to this application.

Exhibit Number	Section and or Item Number of Rule or Form	Exhibit Number	Section and or Item Number of Rule or Form
SEE APPLICATION CONTENTS IMMEDIATELY FOLLOWING THIS SCHEDULE A			

CERTIFICATION

The applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. All statements made in the attached exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that the statements made in this application are true, complete and correct to the best of his (her) knowledge and belief, and are made in good faith.

WILLFUL FALSE STATEMENTS MADE ON THIS APPLICATION ARE PUNISHABLE BY FINE AND IMPRISONMENT (U.S. Code, Title 18 Section 1001) AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, Section 2(a)(1))

23. Date: 1/15/85 24. Typed Name of Person Signing

ROBERT BERNSTEIN

25. Signature

Robert Bernstein

26. Title

GENERAL PARTNER

INDEX TO APPLICATION EXHIBITS

Rule or Item No.	Title	Exhibit No.
	FCC Form 401, Schedule A	--
Rule 22.13(a)(1); 22.923(a)(9) Form 401, Item 18	System Ownership and Management; Subsidiaries and Affiliates	1
Rule 22.13(a)(2), 22.902(b)	Qualifications to Hold an Authorization	2
Rule 22.923(a)(7); 22.917(c)	Costs of Construction and Operation Financial Qualifications	3
Rule 22.923(a)(1) 22.903(a)	CGSA Coverage Calculations; Small Map; 1:250,000 Map	4
Rule 22.923(a)(10)	CGSA Definition	5
Rule 22.923(a)(3)	Public Interest Statement	6
Rule 22.923(a)(2), 22.903(c)	Reliable Service Contours and Calculations	7
Rule 22.923(a)(3)	Compliance with Cellular Design Concepts	8
Rule 22.923(a)(4)	Grade of Service and Cell- Splitting Criteria	9
Rule 22.923(a)(5)	Frequency Plan and Channels	10
Rule 22.923(a)(6)	Service Proposals for Local Subscribers and Roamers	11
Rule 1.1307	Environmental Statement	12
FCC Form 401 Schedule B	Site Engineering and Related Data. Polar antenna diagram in the horizontal plane if directional.	13

EXHIBIT 1
Rule 22.13(a)(1),
22.923(a)(9)

SYSTEM OWNERSHIP AND MANAGEMENT; SUBSIDIARIES AND AFFILIATES

The applicant is a domestic partnership comprised of United States citizens who does not have a prohibited ownership interest in any other cellular application, permit, or license for this RSA. The name and address of the applicant are:

VINCENT DICOSTANZO 415 MONROE AVENUE NEW MILFORD, NJ 07646	4.000%
JAY MCINERNEY 246 WEST 11TH STREET NEW YORK, NY 10014	4.000%
SHAFI M. SHARIFAN 77 YANTECAW AVENUE BLOOMFIELD, NJ 07003	4.000%
DENNIS R. SPENCE 59 JAMES STREET BLOOMFIELD, NJ 07003	6.000%
JOEL T. BUNIS 524 MORRIS AVENUE, APT. 2E ELIZABETH, NJ 07208	4.000%
NANCY KELNER 38 GEORGIA STREET CRANFORD, NJ 07016	4.000%
EDWARD ROGERS 20019 LAKE ROAD ROCKY RIVER, OH 44116	9.540%
) NORTHEAST CELLULAR ASSOCIATES 39 NORTH BROAD STREET WEST HAZELTON, PA 18201	10.150%
MARIE-NADINE MULVANEY 51 SOUTH BRIDGE STREET SOMERVILLE, NJ 08876	4.000%
BECKY JO CLARK 114 EAST BROOKWOOD DRIVE CLEMSON, SC 29631	14.770%
EUGENE GRUMER SOUTHWYCK VILLAGE, MADDAKET #7 SOUTH PLAINS, NJ 07076	1.540%
GEORGE G. MALANGA 33 LINES AVENUE HOPATCONG, NJ 07843	8.000%

EXHIBIT 1
Rule 22.13(a)(1),
22.923(a)(9)
Cont'd

KANDACE J. DOLPHIN
3897 SYLVAN DRIVE
YORK, PA 17402

4.000%

ROBERT BERSTEIN
106 CRANFORD AVENUE
CRANFORD, NJ 07016

22.000%

Except as otherwise shown herein, applicant has no subsidiaries or affiliates engaged in the Public Mobile Radio Service. Applicant has no debt or security holders for which disclosure is required under Section 22.13(a)(1) of the Commission's Rules.

Applicant does not directly or indirectly hold an interest of less than 5% in any publicly held company which Applicant knows or reasonably believes will be filing an application for this RSA. If it is subsequently determined that a publicly traded company in which applicant owns a less than 5% interest did in fact file an application for this RSA without applicant's knowledge, a waiver of Rule 22.923(a)(9) is respectfully requested.

All members of this partnership owning 10.15% in this application
are U.S. Citizens unless otherwise stated:

(A) NORTHEAST CELLULAR ASSOCIATES

<u>Name & Address</u>	<u>% of Ownership</u>
Terry H. Jones 39 North Broad St. W. Hazleton, PA 18201	20.00%
Andrew A. Amoroso 4 Slack Tide Hilton Head, SC 29928	20.00%
Warren Hart 9 Twain Circle Conyngham, PA 18219	20.00%
Jerome Palko R.D. #1 Box 62A Atherly, PA 18255	20.00%
John Yarosz R.D. #3 12 Atherholf Dr. Wyoming, PA 18644	20.00%

EXHIBIT 2
Rule 22.13(a)(2),
22.902(b)

QUALIFICATIONS TO HOLD AN AUTHORIZATION

Applicant is legally, technically, and financially qualified to hold a cellular authorization. Its ownership complies with Section 22.921. Its financial qualifications satisfy the requirements of Section 22.917. Moreover, applicant meets all citizenship and cellular eligibility criteria. Its technical design of the system is based upon a market study which predicts and allocates consumer demand, thus ensuring that the system will meet the public's needs.

Except as set forth below, applicant and/or its principals have never had any FCC station license or permit revoked or denied, have never been adjudged guilty of unlawfully monopolizing or of attempting unlawfully to monopolize radio communications by any means, have never been convicted of a felony, and are not a party on any pending proceeding with respect to any such matter.

If awarded its requested license, applicant intends to construct and operate the system in accordance with its application, any subsequent Commission authorizations, and applicable regulations and policies. Applicant is not a common carrier also engaged directly or indirectly in the business of affording public landline message telephone service.

EXHIBIT 3
Rule 22.923(a)(7)
22.917(c)

COST OF CONSTRUCTION AND OPERATION;
FINANCIAL QUALIFICATIONS

Applicant has estimated its reasonable and prudent expenses to be incurred in constructing its proposed facilities and operating them for a period of one year without subscriber revenue. The full particulars of those expenses are shown in Table 1, attached to this exhibit.

To demonstrate financial resources in excess of those expenses, Applicant has obtained a firm financial commitment totalling \$1,500,000 from Columbia Security and Transfer, a recognized financial institution with total assets in excess of \$200 million dollars ("Lender"). This firm financial commitment is individualized to Applicant, contingent upon the award of a cellular authorization, and restricted to this and other RSA cellular markets. A copy of the firm financial commitment executed by both Applicant and Lender is attached hereto.

Applicant is an existing depositor of Lender, and requested this financial commitment in accordance with Lender's usual practices. In making this commitment Lender determined that Applicant was creditworthy and examined the financial viability of the RSA cellular system proposed in this application. Lender's willingness to enter into this commitment is based solely on its relationship with Applicant, and the commitment is not guaranteed in any way by any other entity other than Applicant.

If in the event that Applicant applies this firm financial commitment to another RSA, as necessary it will amend this application to include a supplemental firm financial commitment within 30 days of being selected as a lottery winner.

COLUMBIA**SECURITY AND TRANSFER INC.**

(416) 871-6632
(416) 871-6639
(416) 871-5285

41 JARVIS STREET • FORT ERIE, ONTARIO, CANADA • L2A 5M5
June 29, 1988
Ref. L/C LBA 1055

Alee Cellular Communications
106 Cranford Avenue,
Cranford, N.J. 07016

In consideration of a non-refundable commitment fee of \$5,000. U.S. tendered herewith, the mutual promises made herein, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Columbia Security and Transfer Inc. hereby agrees to provide ALEE CELLULAR COMMUNICATIONS (Customer) with a firm financial commitment for a maximum amount of \$1,500,000. U.S. This commitment is specifically restricted for your use in connection with the construction and the first year of operation of cellular systems to be licensed by the Federal Communications Commission (FCC) only in one or more Rural Service Areas (RSAs).

Columbia Security and Transfer Inc. has reviewed and evaluated Customer's financial condition in accordance with its usual practices and has determined that Customer is creditworth for the amount specified. Columbia Security and Transfer Inc. also has examined the financial viability of Customer's RSA proposals which are the subject of this commitment. This commitment is contingent upon Customer receiving an FCC construction permit for one or more RSAs and the execution by Customer of a financing agreement acceptable to Columbia Security and Transfer Inc. not inconsistent with this letter. Columbia Security and Transfer Inc. acknowledges that this commitment is not in any way guaranteed by any entity other than Customer and that its willingness to enter into this commitment is based solely on its relationship with Customer.

Columbia Security and Transfer Inc. will extend this loan at the following terms:

Amount: Not to exceed U.S. \$1,500,000.00
Interest Rate: Chase Manhattan Prime Rate plus 3%
Term: Seven years with interest only during the first three years. For the remaining four years of the loan, interest and principal reduction, based on a seven year amortization schedule, will be payable. At the end of the seven years a balloon payment equal to remaining unpaid balance will be due and payable.

Customer agrees to provide a continuing security interest with a first priority in all of the tangible and intangible assets owned by Customer wherever located, whether now owned or hereafter acquired and in all proceeds and products thereof. Columbia Security and Transfer Inc. acknowledges and recognizes that the grant by Customer of a security interest in these assets in subject to restrictions imposed by the FCC on Customer's ability to assign the interest in or to transfer control of an FCC license or any other authorizations without

prior FCC approval. In the event of default, Columbia Security and Transfer Inc. agrees to give a minimum of 10 days notification to the Customer and the FCC before any such equipment is repossessed under provisions as agreed to in any financing agreement. No such assignment, transfer or repossession will be accomplished in such a manner to violate the Communications Act of 1934, as amended, 47 U.S.C. S151 et seq., or applicable FCC regulations.

Columbia Security and Transfer Inc. certifies to the FCC that it has sufficient funds available to complete this financing. The funds to be provided to this customer under this Agreement have not been committed to any other cellular applicant.

This commitment expires as to each RSA upon the FCC's dismissal of Customer's application for such RSA by final order or the Customer's failure to file an initial application within the filing period established by the FCC for such RSA.

COLUMBIA SECURITY AND TRANSFER INC.

By: *Louis B. Miranda*

Title: President

Agreed to and accepted by Customer
this 29 day of JUNE, 1988

By: *Walter A. Bernstein*

PRUDENT ESTIMATED COST OF CONSTRUCTION
& FIRST FULL YEAR OF OPERATION

CELL ONE

MTSO SWITCH	\$180,000	
Transmitters, Receivers		
Controller, Combiners, Etc.	150,000	
Antennas & Transmission Line	13,000	
Power Supply & Batteries	25,000	
Building & Tower	65,000	
Miscellaneous	20,000	
Installation	30,000	
	<u>\$483,000</u>	\$483,000
Total Cost of Construction		\$483,000

ESTIMATED FIRST FULL YEAR OF OPERATION

Personnel-Payroll	75,000	
Customer Care	12,000	
Rents	20,000	
Marketing	75,000	
Office Supplies & Services	25,000	
Utilities	12,000	
Miscellaneous	35,000	
Interest	80,000	
Total	<u>\$334,000</u>	\$334,000
Estimated Cost of Construction & Operation Total		\$817,000
		=====

CGSA MAPS AND COVERAGE CALCULATIONS

Applicant is proposing one or more Cellular Geographic Service Areas (CGSAs) that cover major traffic arteries and major population centers within the Rural Service Area (RSA) to provide reliable cellular service with a grade of service responsive to public needs.

The map attached is a 1:250,000 topographical map prepared in accordance with applicable Commission Rules showing the RSA, each proposed CGSA, cell site locations, and the 39 dBu contour of each cell. The combined 39 dBu contours of all base stations will cover at least 75% of each identified CGSA.

Finally, wherever the line designating applicant's CGSA boundary and/or 39 dBu contour abuts either the 39 dBu contour, a CGSA boundary, or the RSA boundary (or any of them), the identified lines are conterminous with the adjacent line or lines. Applicant's proposed CGSA or 39 dBu contours never extend beyond the RSA.

Applicant will file with the Commission an application of modification of license to expand the CGSA if public demand develops for service in other areas in the RSA.

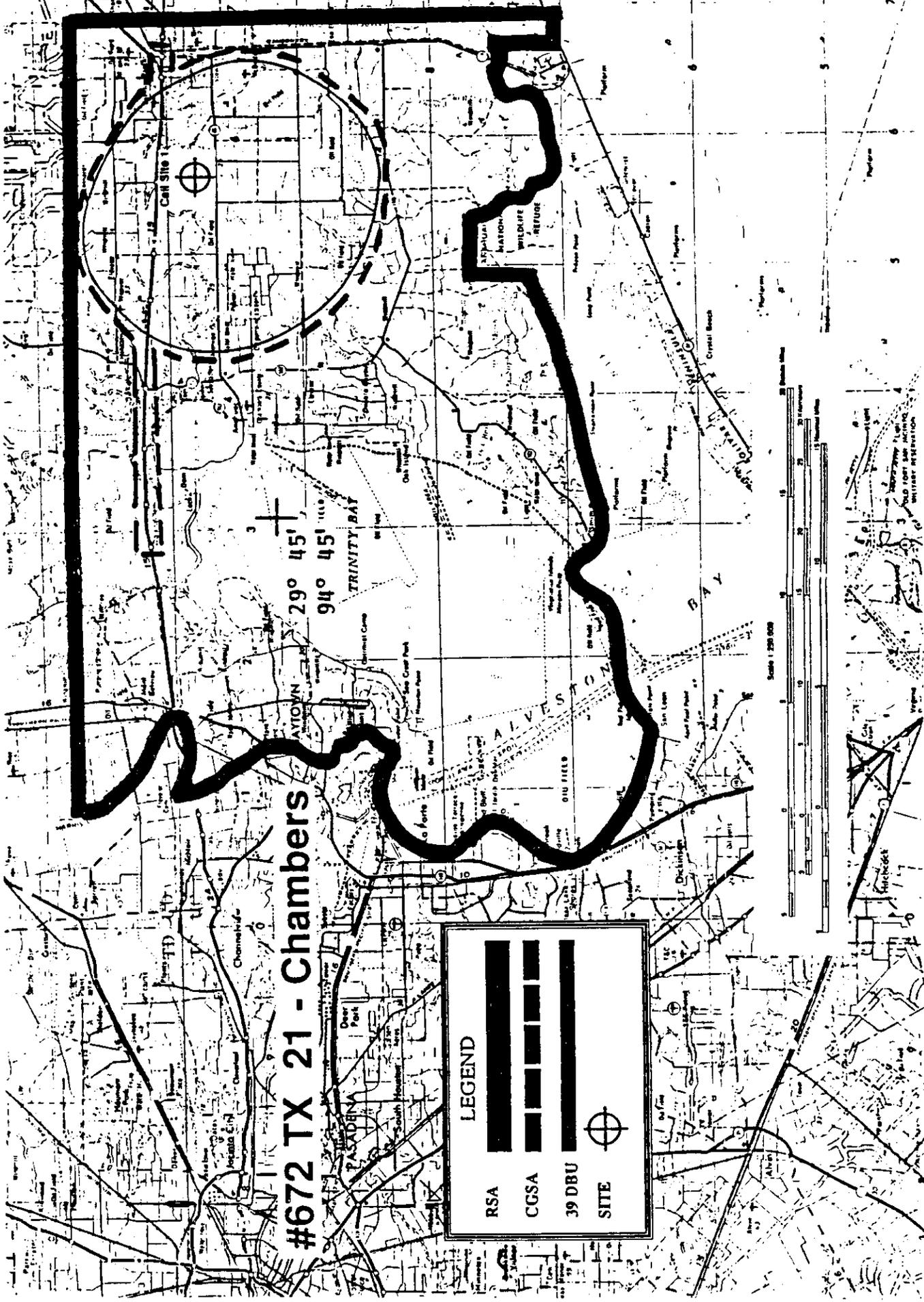
#672 TX 21 - Chambers

AYTOWN 29° 45'
94° 45'

TRINITY BAY

LEGEND

- RSA 
- CGSA 
- 39 DBU 
- SITE 



CGSA DEFINITION

Applicant is applying for RSA number 672. Applicant's proposed CGSA includes the following counties in the state of TEXAS:

TEXAS 21-CHAMBERS

CHAMBERS

PUBLIC INTEREST STATEMENT

The Commission has found that a compelling public need for cellular service exists nationwide. As part of applicant's system design process, a survey of the general business population was conducted. Applicant's survey confirmed the existence of substantial public need in this RSA.

Applicant's system has been designed in accordance with the Commission's Public Notice of May 17, 1984 and June 6, 1984 (Report Nos. CL-69 and CL-75, respectively) to meet the demand for service in this market. The results of applicant's survey were combined with market-specific demographic information concerning business population, hospitals, commercial activity and offices, the general population and highway traffic data to design a system which will be responsive to local public need.

In planning its cellular system for the RSA, applicant developed demand forecasting models which rely on variables specific to the RSA, and which therefore produce a market-specific demand estimate. Modelling is a forecasting technique which has been shown to be reliable in a wide variety of business applications. Demand models are an efficient means to estimate demand in a specific area because the modelling process relies on previously collected data. Further, models can be readily updated and refined as new data becomes available.

Service will be provided to the public 24 hours a day on a cost effective, first-come, first-serve basis. Applicant will make special efforts to provide service to the handicapped. Except for the carrier-customer relationship, there will be no relationship, affiliation or connection between applicant and its prospective subscribers. Accordingly, the public interest would be served by granting this application.

Compliance With Section 22.914

As required by Section 22.914 of the Commission's Rules, applicant will accept subscriptions to mobile service from the public in chronological order of the filing of the request for service, except under emergency conditions. Applicant will inform prospective subscribers of the area in which reliable service can be expected. In the unlikely event that Applicant places a request for service on a waiting list due to lack of system capacity, applicant will report that fact to the Commission and indicate how and when it will increase system capacity. Such capacity expansions will be pursued on an expedited basis.

RELIABLE SERVICE CONTOURS AND CALCULATIONS

Applicant determined all cellular reliable service areas (39 dBu contours) are in accordance with the definition and procedures of Sections 22.903(c) and 22.923(a)(3) of the Commission's Rules and FCC Report R-6406 (Carey Report) using 450 MHz (50,50) curves, which area is equal to 90% reliable service at the 39 dBu contours.

These 39 dBu contours are based on average terrain conditions and antenna height and power. Coverage will be less in congested (rough) terrain areas and greater in the flat (open) areas. No rough terrain corrections are made in the determination of 39 dBu contours in this application.

Height power limits comply with Section 22.905 of the Rules in this application.

Average terrain data is determined using Department of Commerce, Telecommunication Service, using National Geophysical and Solar Terrestrial Data in accordance with procedures specified in Section 22.115 of the Commission's Rules. Site ground elevation is derived from 7.5 minute topographical maps.

Co-Channel Environment

Applicant will coordinate and cooperate with adjoining systems within a 75 mile radius of the RSA, using FCC Report R-6406 as a basis for determining interference. Applicant will make efficient use of frequencies to keep interference to a minimum and to comply with the Commission's interference standards. Applicant will notify the Commission of any frequency additions or changes to assure continued accuracy of records.

COMPLIANCE WITH CELLULAR DESIGN CONCEPTS

Applicant is proposing a state-of-the-art cellular system which complies fully with the Commission's cellular design concepts.

Handoff

All cell sites proposed or anticipated for this system will overlap coverage of their 39 dBu reliable service contours to adjoining sites to permit continuous two-way communication coverage over the proposed service area where economically feasible. The equipment being proposed has the full capability of handoff between cell sites.

Frequency Reuse

The proposed system utilizes, in principle, a regular grid type placement of the cell sites as described in Bell System Technical Journal.

Several factors tend to cause deviation from the cellular grid concept such as terrain conditions, high use areas, airports, population centers, lakes, rivers, etc. The system is designed to give maximum service area at lowest possible cost in order to make the service more affordable to the subscriber and more reliable. Every effort will be used in expansion of the system for maximum frequency reuse and efficiency. The same frequencies will be assigned at regular intervals in the grid system and at minimum separation distances to insure the maximum reuse of the frequencies without harmful electrical interference. Applicant's frequency plan conforms to the cellular grid plan.

Interconnection

All cell sites in the proposed system will be interconnected to an electronic mobile exchange at the control point. Applicant plans on using microwave or landline facilities (whichever is most cost effective) to connect cell sites to control facilities. Applicant's switch network exchange has stored program control switching and may be connected using T1 carrier. Access telephone numbers and trunks, both inbound and outbound, will be obtained from landline telephone offices in sufficient quantities to meet the subscribers demand and to prevent degradation of the system's grade of service.

Switching System

Applicant is proposing to use a digital switch which complies with all Commission standards. The proposed switching system will perform all of the functions of control signaling, handoff, custom service features, and interconnection to the public switched network which are necessary for true cellular design. This switch has maximum capability for growth as part of applicant's overall plan for initial system operation and coordinated expansion.

Redundant Facilities

Cellular radio equipment offers a large degree of protection from failure due to multiple transceivers at the cell sites. Applicant will provide the level of redundant facilities recommended by the manufacturer for maximum reliability of all equipment. Applicant will have backup equipment to provide power to key cell sites and the switching center. Applicant will have a supply of spare parts and transceivers on hand to make needed repairs in the shortest possible time.

Nationwide Compatibility

The proposed system will meet the Commission's specifications for all aspects of system compatibility, including operating frequencies, signaling and modulation methods.

Service Options

Applicant will provide the following state-of-the-art telephone services to its subscribers:

1. Call forwarding & delayed call forwarding;
2. Three-Way calling;
3. Call waiting;
4. Least cost call routing;
5. No answer transfer; and
6. Voice retrieval message service.

Proposed Equipment

Applicant proposes using Commission-approved RF equipment and a main digital switch to provide service within the CGSA. Equipment will meet or exceed all Commission requirements.

Minimum RF Transmit Power

Applicant's design concept has been based on employing the minimum RF power for a given propagation path consistent with high circuit quality. All subscriber equipment will be equipped for power reduction on command. Base station characteristics will also be controlled with respect to coverage.

Narrowband RF Operation

All RF equipment meets the requirements of Part 22 of the Commission's Rules governing the use of this spectrum for signaling, voice, or data communications.

Trunking Of RF Channels

Channel utilization efficiency will be maximized in the proposed system through trunking of channels within the cells and within the system. All channels will be assigned for communication by the system on a demand basis from the group available to each subscriber. Applicant will maintain sufficient subscriber capacity to provide a minimum 0.05 grade of service.

Orderly Evolution To Small Cells

Applicant's designed technique for cell layout was based on a cellular "grid" which showed optimum location of cells for most efficient frequency reuse. Sites were located as nearly as possible on this grid to fit the ultimate reuse pattern.

Nationwide Compatibility

A basic objective in cellular system development has been the capability of coordinated nationwide service of subscribers with fully-automatic operation to the maximum extent possible. This requires adherence to a compatibility standard by all equipment suppliers. Applicant's proposed equipment meets all requirements of the compatibility standard define by the EIA. This compliance insures that applicant's system and equipment will meet the nationwide service objective.

GRADE OF SERVICE AND CELL SPLITTING CRITERIA

The design proposed by the applicant specifies to meet the projected traffic demand in the busy hour through the end of the first full year of operation. The application will monitor the system to see if additional RF facilities are needed. The proposed system will utilize the following grade of service criteria:

Grade of Service:	.05 blocking
Blocking Formula:	Poisson
Busy Hour Loading:	.028 Erlangs/subscriber
Rebuild Trend Line Grade of Service:	.08 blocking

Applicant will use criteria for determining system congestion which are consistent with good industrial practice. Aggregate system capacity will be expanded immediately as outlined in Exhibit 10 if the actual grade of service falls below .05 grade of service 21 days in any 30 day period. This criteria may be modified if experience shows that cellular mobile telephone requirements differ significantly from conventional wireline systems.

Applicant will continuously monitor the coverage of its system which may require fill-in transmitter cell sites to provide reliable service as required for excellent cellular operations.

The initial system proposed in this application is designed to provide a large area of service at the lowest possible cost and to keep the system as simple as possible which would mean less problems. The initial system will provide .05 grade of service at the end of the first year of operation to meet subscriber demand. Applicant will begin to monitor traffic growth when the system is placed in service and will add and/or relocate facilities or channels as the demand requires.

If the projected grade of service reaches .08 grade of service, the system will be upgraded to .05 grade of service by one or more of the following expansion concepts in this order: Add frequencies from growth channels, borrow frequencies from other, low demand cell sites, convert omnidirectional cells to sectored or directional operation, split a number of cells on the reuse grid for greater frequency reuse, or a combination of all of the above that may be appropriate.

FREQUENCY PLAN AND CHANNELS

Applicant has developed its frequency plan for the first year of system operation based on its analysis of projected demand within the subject market in general, and within the various geographic submarkets of its system.

The determination of the frequency plan to be used in this system is also based upon consideration of the following factors:

- . Receiver adjacent channel selectivity;
- . Minimum frequency separation required for transmitter combining;
- . Signaling channel usage and availability requirements;
- . Cell pattern configuration which can be implemented in an omnidirectional cell configuration and still be usable when sector transmissions and/or cell splitting is required;
- . Balanced frequency assignment grouping plan for sector transmission.

The assignment of specific channels has been undertaken so that system expansion from the initial configuration to cell sectoring and cell splitting will occur with maximum spectrum efficiency, while minimizing the disruption in service to subscribers. In the assignment of specific frequencies applicant has also considered:

- . Avoiding the assignment of adjacent frequency groups to adjacent cell sites;
- . Evolution from the omnidirectional frequency plan into a sector transmit frequency plan with appropriate frequency reuse pattern and sector antennas;
- . An adequate separation for co-channel frequency assignments.

Frequency assignments for each cell pursuant to applicant's frequency plan are provided in Tables 1 and 2 included within this exhibit. Both voice and signaling channels for each cell are presented in the attached tables.

TABLE 1
FREQUENCY PLAN

Cell 1

BLOCK A(MHz)
Signal (1)879.99
Voice(8)
879.36,878.73
878.10,877.47
876.84,876.21
875.58,874.95

TABLE 2
FREQUENCY ASSIGNMENTS
BAND A

OMNI CELLS

SITE	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	B
SET NO.	A1	B1	C1	D1	A2	B2	C2	D2	A3	B3	C3	D3	A4	B4	C4	D4	A5	B5	C5	D5	B6
SIG CH	333	332	331	330	329	328	327	326	325	324	323	322	321	320	319	318	317	316	315	314	313
VOICE	312	311	310	309	308	307	306	305	304	303	302	301	300	299	298	297	296	295	294	293	292
CHANS	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271
	270	269	268	267	266	265	264	263	262	261	260	259	258	257	256	255	254	253	252	251	250
	249	248	247	246	245	244	243	242	241	240	239	238	237	236	235	234	233	232	231	230	229
	228	227	226	225	224	223	222	221	220	219	218	217	216	215	214	213	212	211	210	209	208
	207	206	205	204	203	202	201	200	199	198	197	196	195	194	193	192	191	190	189	188	187
	186	185	184	183	182	181	180	179	178	177	176	175	174	173	172	171	170	169	168	167	166
	165	164	163	162	161	160	159	158	157	156	155	154	153	152	151	150	149	148	147	146	145
	144	143	142	141	140	139	138	137	136	135	134	133	132	131	130	129	128	127	126	125	124
	123	122	121	120	119	118	117	116	115	114	113	112	111	110	109	108	107	106	105	104	103
	102	101	100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82
	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61
	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40
	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19
	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	0	0

Tx Freq. = (Channel Number x .030 MHz) + 870 MHz

Rx Freq. = (Channel Number x .030 MHz) + 825 MHz

SERVICE PROPOSALS
FOR LOCAL SUBSCRIBERS AND ROAMERS

Applicant will provide cellular mobile telephone service to roamers that are subscribers in good standing in other systems and to its own subscribers. Service will be provided on a continuous full-time basis.

The primary service will be a fully automated direct dial message telephone service for both mobile and portable units to and from each other on the system and to and from the public telephone switched network. Subscribers will be able to make and receive calls from other cellular systems or other interconnected mobile systems. Applicant's system will provide custom service features. Several custom features are included in applicant's basic service; others are offered on an optional basis. Resale and shared use of applicant's service will be permitted.

Service will be provided to bona fide roamers on an automated and manual registration basis. With automatic roamer service, a roamer's mobile unit may register itself for service on applicant's cellular system through an electronic handshake with applicant's switching system. Subscriber information may be verified through a centralized verification bureau, if available, or via the roamer's home base system for billing purposes.

Applicant will actively seek agreements with other cellular carriers, both wireline and non-wireline, to provide automatic service to roamers. Applicant will actively support and participate in efforts to establish a nationwide and regional clearing house for such service.

Applicant will establish a customer service department and local offices or agents at convenient locations to handle customer needs, inquiries, service requests and complaints. Applicant will provide local telephone numbers and office addresses which will be printed on letterheads, advertising material and service order forms.

Applicant will act promptly and courteously to handle all customers' needs and complaints. Reports will be issued regularly to the system general manager and to the applicant to insure that customer inquiries and complaints customer matters are handled properly and given top priority.

ENVIRONMENTAL STATEMENT

The applicant has determined that grant of this application individually and cumulatively will have no significant effect on the quality of the human environment and is categorically excluded from environmental processing. Thus, Section 1.1307 of the Commission's Rules does not require the filing of environmental assessments with, or further Commission environmental processing of, this application.

34. Has the applicant obtained reasonable assurance that it can use the proposed site?

[X] Yes [] No

35. Antenna Structure Statement

A. Status of Structure

- New Structure
- Existing (Not Increased)
- Existing (Increased)

B. Overall Heights of Antenna Structure (Feet)

Above Ground		Above Mean
Level	Site Elevation	Sea Level
<u>98</u>	+ <u>27</u>	= <u>125</u>

C. Will proposed transmitting antenna be supported by the antenna structure of any other radio station?

Yes No
 If "Yes" give Call Sign
N/A

D. Distance from transmitting antenna to nearest runway of nearest aircraft landing area (Miles)

11 Miles.

E. Is the antenna mounted on an existing structure or building which currently bears lighting and markings prescribed by FCC Rules Part 17?

Yes No If "Yes" give FCC Antenna Tower No. or FAA Aeronautical Study No. (if known): N/A

F. Has FAA been notified?

Yes No

1. Date Filed : 2. Name Under Which Filed

 : N/A

If "Yes" answer items (F) 1 thru 3

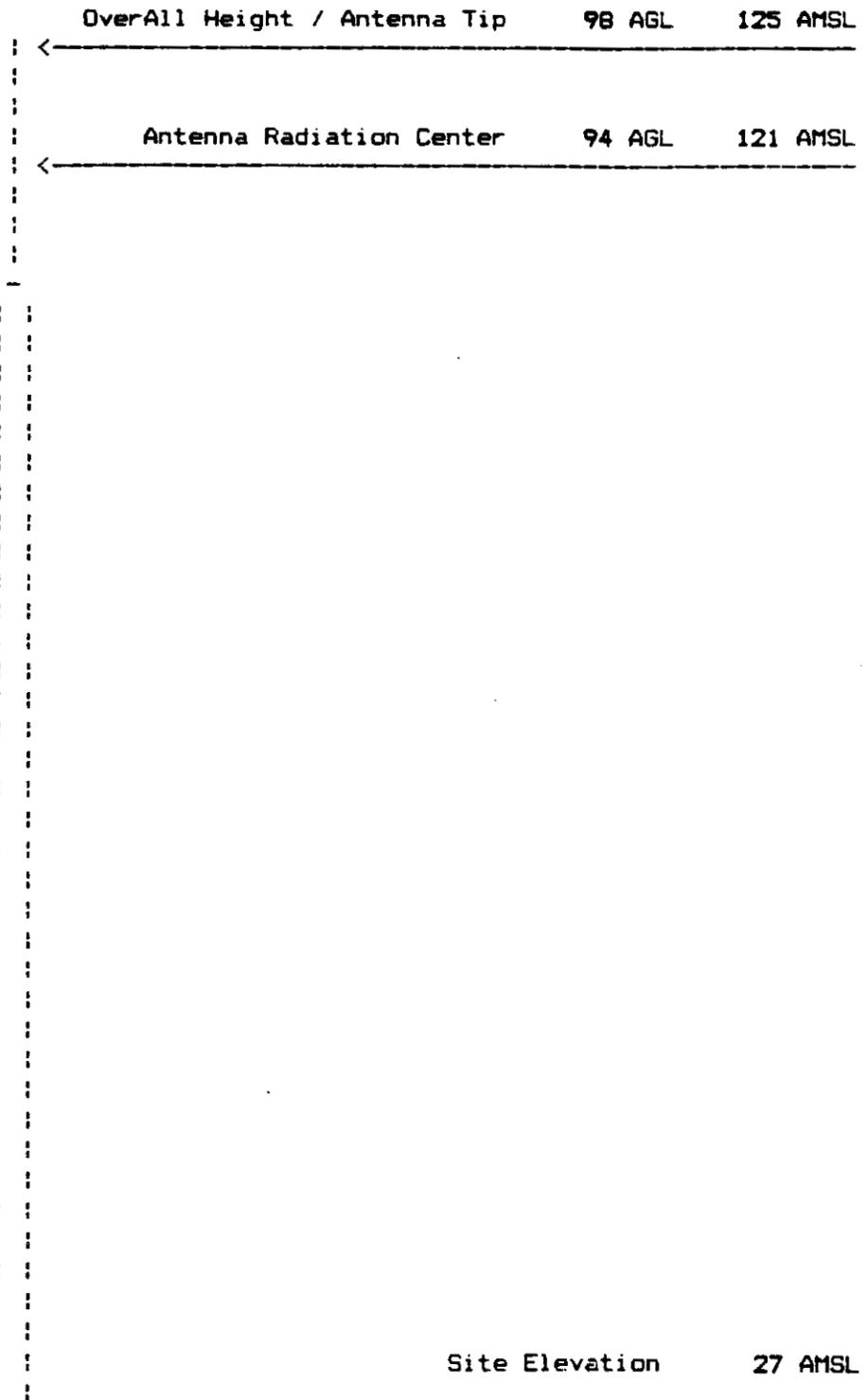
3. Regional Office Where Filed (city, state)

N/A

G. Aeronautical Hazards

NONE

5. Vertical Profile Sketch of Antenna Structure



Note: Not Drawn To Scale - All Dimensions Shown In Feet
For Simplicity Only The Transmitting Antenna Is Shown

37. Table MOB-3 Height and Power Engineering Data

There is 1 Table MOB-3's with this Schedule B.

This is Table MOB-3 number 1 of Schedule B number 1.

Supplementary engineering information may be included in Exhibit N/A

Frequencies which have identical (C) and (D) values	(A) Radial Bearing (Degrees From N.)	(B) Average Elevation Along Radial Above Mean Sea Level (Feet)	(C) Antenna Radiation Center Above Average Elevation of Radial (Feet)	(D) Effective Radiated Power (Watts)	(E) Distance to Reliable Service Area (Miles)
1. CELLULAR BAND A	0	20	101	4.50	4.7
2. SEE EXHIBIT 10	45	20	101	2.50	4.2
3.	90	13	108	4.50	4.8
4.	135	5	116	31.60	7.1
5.	180	2	119	89.00	8.7
6.	225	8	113	100.00	8.7
7.	270	19	102	89.00	8.2
8.	315	20	101	31.60	6.8
*					
*					
*					
F. Average Terrain Elevation (Feet)			G. Antenna Radiation Center Height Above Average Terrain (Feet)		
13			108		

* Show radials and associated data in direction of each co-channel station as prescribed by Rule Section 22.115(a). If more space is needed attach Exhibit N/A

H. If the values in Table MOB-3, column (B) above have been computer generated, identify the file (Data Base) used to obtain the values.

NGDC 30 SEC. DATA BASE

I. Is antenna omnidirectional and mounted at the top of the antenna structure?

If "No" attach as Exhibit C-1 a directional antenna pattern Yes No showing power distribution of signal radiated in the horizontal plane, as well as any engineering drawings required by Section 22.15(j)(4) of FCC Rules and Regulations.

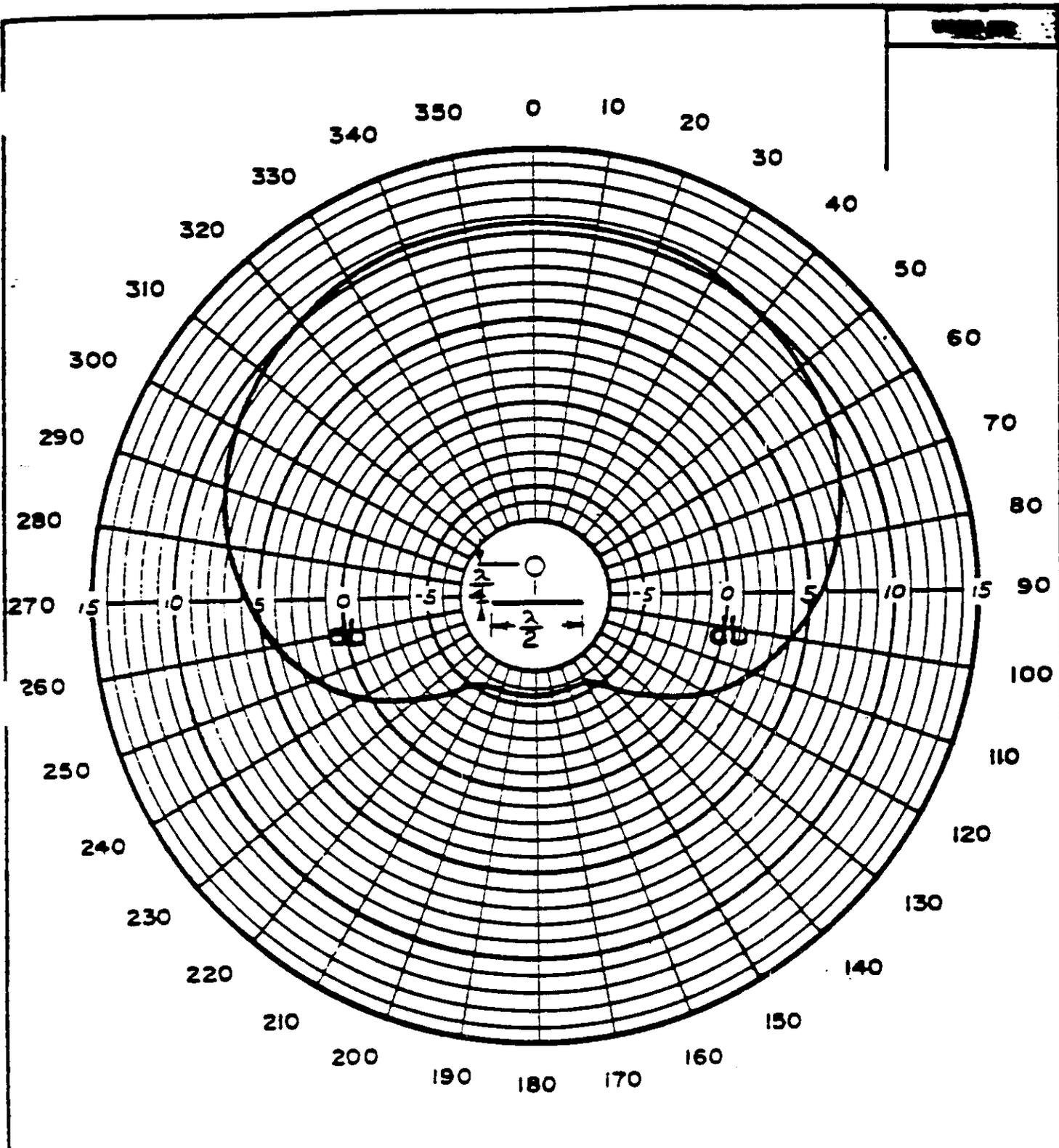
J. Are there any co-channel facilities within the mileage standards specified in Section 22.15(b)(1) of FCC Rules and Regulations?

Yes No

If "Yes" attach as Exhibit N/A interference studies required by Section 22.15(b)(2)

38. Table MOB-4 Location of fixed antennas regularly receiving signals of the station

(A) Location (city, country & state)	(B) Latitude	(C) Longitude	(D) Call Sign	(E) Frequency
<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>



FIELD ASSEMBLY SEE C-32150

Exhibit C-1

TITLE - ORIZONTAL PATTERN
CFA CAT. NO. 1136 ANTENNA

DRAWING NO.

S-32852

DRAWN BY SBF 1-11-76 APPROVED BY [Signature] 1-11-78



Marlboro New Jersey

FCC
401

Approved by OMB

SCHEDULE B

There is 1 Schedule B with this application.
This is Schedule B number 1.

27. Antenna Location Record.

A. Street Address, City & State	B. North Latitude	FCC Use Only
ONE MILE N. OF HWY 65 OF FARM RD. 1410.	29 48 18	Location No.
WINNIE (CHAMBERS) TX	C. West Longitude	
	94 28 42	

28. Application Type.

A. RADIO STATION AUTHORIZATION

29. Does the applicant request waiver of any requirements of FCC Rules? Yes No
If "Yes" attach as Exhibit N/A specifying Rule(s) for which waiver is requested and demonstrating good cause for each waiver.

30. Are there any other pending applications known to the applicant with which this application is believed to be mutually exclusive? Yes No
If "Yes" provide the following:

File Number	Call Sign	Frequency (MHz)

31. Nature of Request.

J. NEW STATION

Attach as Exhibit N/A a showing of specific details of changes.

32. Would grant of this application be an environmental "Major Action" per Rule Section 1.1305? Yes No
If "Yes" attach as Exhibit N/A as the required statement per Rule Section 1.1311

FCC Use Only
Antenna No.

Table MOB-2 Antennas, Radiation and Points of Communication.

There is 1 Table MOB-2's with this Schedule B.
This is MOB-2 number 1 of Schedule B number 1.

A. Antenna Status <input type="checkbox"/> Existing <input checked="" type="checkbox"/> Proposed	B. Make of Antenna CELLWAVE	C. Type No. of Antenna PD1136
D. Dir. of Max. Gain 225 DEGREES AZIMUTH.	E. Max. Antenna Gain 10.5 Decibels	F. Max. Effective Radiated Power 100 Watts
	G. Height of Antenna Tip Above Ground Level 98 Feet	
H. Beam Width 130 Degrees	I. Polarization <input checked="" type="checkbox"/> Vertical <input type="checkbox"/> Horizontal <input type="checkbox"/> Circular <input type="checkbox"/> Elliptical	

J. Transmitters

FCC Use Only Transmitter Number	Line No.	(1) Frequency (MHz)	(2) Class of Station	(3) Emission Designators	(4) Transmitter Output Power (Watts)
	1	BLOCK A	BS	40K0F3E/40K0F1D	29.6
	2				
	3				
	4				
	5				
	6				
	7				
	8				

Transmitters, continued

Line No.	(5) Points of Communication	(6) Azimuth of Radio Path (Degrees)	(7) Length of Radio Path (Miles)
1	TO AUTHORIZED MOBILES & PORTABLES	N/A	N/A
2			
3			
4			
5			
6			
7			
8			