

UNITED STATES OF AMERICA
 FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

(page 1)

CALL SIGN: E960250
 FILE NO.: 1018-DSE-P/L-96

NAME: BLR COMMUNICATIONS, INC.

CONSTRUCTION PERMIT AND LICENSE

DATE OF GRANT: JULY 5, 1996

COMMON CARRIER

EXPIRATION DATE: JULY 5, 2006

NATURE OF SERVICE: DOMESTIC FIXED SATELLITE SERVICE

NATURE OF SERVICE: INTERNATIONAL FIXED SATELLITE SERVICE

CLASS OF STATION: TEMPORARY FIXED EARTH STATION

LATITUDE LONGITUDE

LOCATION OF STATION:

STATION ADDRESS:
 VARIOUS (County),

SUBJECT TO THE PROVISIONS OF THE COMMUNICATIONS ACT OF 1934, THE COMMUNICATIONS SATELLITE ACT OF 1962, SUBSEQUENT ACTS AND TREATIES, AND ALL PRESENT AND FUTURE REGULATIONS MADE BY THIS COMMISSION, AND FURTHER SUBJECT TO THE CONDITIONS AND REQUIREMENTS SET FORTH IN THIS PERMIT AND LICENSE, THE GRANTEE IS AUTHORIZED TO CONSTRUCT, USE AND OPERATE THE RADIO FACILITIES DESCRIBED BELOW FOR RADIO COMMUNICATIONS FOR THE TERM BEGINNING JULY 5, 1996 (3 A.M. EASTERN STANDARD TIME) AND ENDING JULY 5, 2006 (3 A.M. EASTERN STANDARD TIME). THE REQUIRED DATE OF COMPLETION OF CONSTRUCTION IS JULY 5, 1997. GRANTEE MUST FILE WITH THE COMMISSION A CERTIFICATION UPON COMPLETION OF CONSTRUCTION.

1. PARTICULARS OF OPERATIONS

FREQUENCIES (MHz) AND POLARIZATION	EMISSION	EIRP (dBW)	EIRP DENSITY		ASSOCIATED ANTENNA(S)	SPECIAL PROVISIONS (REFER TO FCC FORM 488-A)
			(dBW/4kHz)			
1.14000.000-14500.000 H,V	36M0F3F	70.10	43.11		VIDEO	1900 5630
2.14000.000-14500.000 H,V	3M00G7D	69.40	40.65		DIGITAL	1900 5630
3.10950.000-11200.000 H,V	36M0F3F	- - -	- - -		VIDEO	1010 5630
4.10950.000-11200.000 H,V	3M00G7D	- - -	- - -		DIGITAL	1010 5630
5.11450.000-12000.000 H,V	36M0F3F	- - -	- - -		VIDEO	1010 5630
6.11450.000-12000.000 H,V	3M00G7D	- - -	- - -		DIGITAL	1010 5630

2. FREQUENCY COORDINATION LIMITS

Frequency Limits (MHz)	Satellite Arc (Deg. Long.)		Elevation (Degrees)		Azimuth (Degrees)		Max. EIRP Density to Horizon (dBW/4kHz)	Associated Antenna(s)
	East	West	East	West	East	West		
	Limit	Limit	Lim.	Lim.	Limit	Limit		
1.14000.000-14500.000	W-	W	-	.0	-	.0	-3.0	
2.10950.000-11200.000	W-	W	-		-			
3.11450.000-12000.000	W-	W	-		-			

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

(page 2)

CALL SIGN: E960250
FILE NO.: 1018-DSE-P/L-96

RECEIVING SYSTEM NOISE TEMP: (NOT APPLICABLE TO TRANSMIT-ONLY OPERATIONS)

RECEIVING SYSTEM NOISE TEMPERATURE (Continued):

120 KELVIN AT 10.0 DEGREES ELEVATION AND 11,950 MHz

3. POINTS OF COMMUNICATIONS -- THE FOLLOWING SPACE STATIONS LOCATED IN THE GEO-STATIONARY SATELLITE ORBIT CONSISTENT WITH SECTIONS 1 AND 2 OF THIS LICENSE:
- a. ALL AUTHORIZED U.S. DOMESTIC (ALSAT) satellite(s)
 - b. INTELSAT ATLANTIC OCEAN REGION (AOR) satellite(s) of the INTELSAT system
 - c. PACIFIC OCEAN REGION (INTELSAT POR) satellite(s) of the INTELSAT system
 - d. PANAMSAT ATLANTIC OCEAN REGION satellite(s)
 - e. ORION F1 (ORION F1 @ 37.5 W.) satellite(s) of the ORION system
 - f. PANAMSAT PACIFIC OCEAN REGION satellite(s) of the PANAMSAT system

4. TRANSMITTING EQUIPMENT

UNITS MANUFACTURER	MODEL NUMBER	OUTPUT POWER-WATTS
1. 2 MCL	10999	280.0

5. ANTENNA FACILITIES

SITE/ELEVATION:

METERS AMSL

The antenna sidelobe pattern(s) meet(s) the requirements of Section 25.209 of FCC Rules and Regulations as amended for 2 degree spacing.

UNITS (Meters)	DIAMETER	FEED MANUFACTURER	MODEL NUMBER	MAX. ANT. HT. (Meters)
1. 1	2.40	PRIM ANDREW	ESA24VSMKUI	AMSL
				3.9 AGL

MAXIMUM GAIN(S): 50.1 dBi at 14 GHz
Total input power at antenna flange = 100.0 Watts
Aggregate output EIRP for all carriers = 70.10 dBW maximum

6. REMOTE CONTROL POINT: NONE

7. ANTENNA STRUCTURE MARKING AND LIGHTING REQUIREMENTS: NONE

ATTACHED FCC FORMS 488-A AND 488-B (STANDARD PROVISIONS) ARE INCORPORATED INTO THIS AUTHORIZATION. SPECIAL PROVISION REFERENCE NUMBERS ARE LISTED IN SECTION 1 ABOVE; GENERAL PROVISION REFERENCE NUMBERS ARE AS FOLLOWS:

(1): 2010 (2): 2079 (3): 2454 (4): 2810 (5): 2916
(6): 2938 (7): 5012 (8): 5013 (9): 5017 (10): 5018
(11): 5028 (12): 5202 (13): 5203 (14): 5215 (15): 5223
(16): 5225 (17): 2605

SPECIAL AND GENERAL PROVISIONS
FOR RADIO STATION AUTHORIZATION

The radio station authorization granted on FCC Form 488 for File No. 1018-DSE-P/L -96, CALL SIGN: E960250 is subject to additional terms and conditions specified by code numbers on that form. The text of these special and general provisions is given below:

- 1010 - Receive frequency band. Emission designator indicates the maximum bandwidth of transmission received at this station. Maximum E.I.R.P. and maximum E.I.R.P. density are not applicable to receive operations.
- 1900 - Authority is granted to transmit any number of r.f. carriers with the specified parameters on any discrete frequencies within this band in accordance with the other terms and conditions of this authorization, subject to any additional limitations that may be required to avoid unacceptable levels of inter-satellite interference.
- 2010 - This authorization is issued pursuant to the Commission's Second Report and Order adopted June 16, 1972 (35 FCC 2d 844) and Memorandum, Opinion and Order adopted December 21, 1972 (38 FCC 2d 665) in Docket No. 16495 and is subject to the policies adopted in that proceeding.
- 2079 - (a) Operation of this station is limited to locations within the territory of the United States.
(b) All operations shall be in accordance with the applicable provisions of Sections 21.707 & 21.708 of the Rules.
(c) Unless separate authorization is granted by the Commission for International communications, operations herein are limited to communication with earth stations within the United States via U.S. domestic satellites.
- 2454 - All satellite uplink transmissions carrying broadband video information shall comply with the Automatic Transmitter Identification System (ATIS) requirements of Section 25.308 of the Rules, as modified by FCC Report No. DS-1066, released on April 3, 1991.
- 2605 - Licensee is authorized to provide services between the United States and Foreign countries listed in its underlying application via the authorized non-U.S. satellites.
- 2810 - The grantee shall maintain on file with the Commission a current list or plan of the precise frequencies in actual use at this station, specifying for each such frequency: the r.f. center frequency, polarization, emission designator, EIRP (dBW), EIRP density (dBW/4 kHz), and receiving earth station(s). This list or plan may be submitted either on a station-by-station basis or on a system-wide basis, and shall be updated within seven days of any changes in frequency usage at this station. Temporary usage of

- frequencies for periods of less than seven days need not be notified to the Commission if accurate station records are maintained of the times and particulars of such temporary frequency usage.
- 2916 - The transmitter(s) must be turned off during antenna maintenance so that the FCC-specified safety guidelines for human exposure to radiofrequency radiation are complied with in the region between the feed and the reflector. Appropriate measures must also be taken to restrict access to other regions in which the earth station's power flux density levels exceed the specified guidelines.
- 2938 - Upon completion of construction, each licensee must file with the Commission a certification including the following information: name of the licensee, file number of the application, call sign of the antenna, date of the license and certification that the facility as authorized has been completed, that each antenna facility has been tested and is within 2 dB of the pattern specified in Section 25.209 and that the station is operational including the date of commencement of service and will remain operational during the license period unless the license is submitted for cancellation.
- 5012 - The authority granted here is limited to the operation of the facilities described above and does not include any authority to install and operate channelizing equipment or any other authority under Section 214 of the Communications Act of 1934, as amended, to establish channels of communication.
- 5013 - In the event of the failure of a satellite with which operations are authorized in Section 3 of this license, operations are authorized in conjunction with any INTELSAT satellite in the affected Ocean Region that provides the services authorized herein in order to maintain the continuity of commercial service; provided that the licensee(s) immediately notify the Commission of the nature of this emergency and its expected duration; and provided that the operational limits of elevation angle and azimuth range specified in Section 2 of this license are not exceeded. In the event that such emergency operations require emissions not specified in Section 1 of this license, such emissions may be utilized provided that the EIRPs of such emissions do not exceed the limits set forth in this license.
- 5017 - Operation of this station is governed by the terms, conditions and limitations in Part 25 of the Commission's Rules and Regulations and the following additional conditions:
1. This license shall not vest in the Licensee(s) any right to operate the station or any right in the use of the

- frequencies designated in the license beyond its term or in any other manner than authorized in the license; 2. Neither the license nor the right granted under it shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended, or the Commission's Rules and Regulations issued under it; and 3. This station is subject to the right of use or control conferred by Section 706 of the Communications Act of 1934, as amended.
- 5018 - This license shall be forfeited automatically if this station is not ready for operation within the time specified unless, prior to the expiration date of this license, the Commission receives an Application for Additional Time to Construct a Radio Station (FCC Form 701) filed by the Licensee(s) showing good cause why the Licensee(s) could not complete construction on time.
- 5028 - All operations via ORION satellite system are restricted to the provision of capacity through the sale or lease of transponder capacity for communications not interconnected with the public-switched message networks (except for emergency restoration service) and shall be in accordance with the technical parameters summarized and conditions described in Attachments No. 1 and 2 to BG-80-33 and Attachments No. 1 and 2 to Addendum No. 1 to BG-80-33, "Technical Consultation Concerning the ORION Satellite System" (May 1989). This authorization is subject to all terms and conditions imposed on the ORION satellite system by the Commission. This authorization is not to be construed as including any uplink or downlink authority in other countries, and all communications via ORION satellite system shall be between the U.S. and those countries authorized in the above-referenced application which ORION satellite system is authorized by the Commission to serve.
- 5202 - Use of this facility to provide service on a common carrier basis will require appropriate authorization under Section 214 of the Communication Act of 1934, as amended.
- 5203 - All communications shall be in accordance with the satellites and services which have completed consultations under Article XIV(d) of the INTELSAT Agreement and which the Commission has approved.
- 5215 - All operations shall be on a common carrier basis.
- 5223 - All operations via the PANAMSAT satellite system are restricted to the provision of capacity through the sale or lease of transponder capacity for communications not interconnected to the public switched network. This authorization is subject to all terms and conditions imposed on the PANAMSAT satellite system by the Commission. This

authorization is not to be construed as including any uplink or downlink authority in other countries, and all communications via the PANAMSAT satellite system shall be between the United States and those countries authorized in the above-referenced application which the PANAMSAT satellite system is authorized by the Commission to serve.

- 5225 - This action constitutes the final step with respect to the provision of the services only insofar as the U.S. regulatory process is concerned. However, this authority shall not be construed as authorizing the distribution of programming where the appropriate copyright clearances have not been obtained or where the U.S. Government has determined that appropriate copyright protection does not otherwise exist.

- 5630 - International services shall be consistent with this emission designator, the underlying title III application(s) and the acquisition of any necessary Section 214 authority.

COMMUNICATIONS SATELLITE EARTH STATION STANDARD PROVISIONS

THIS AUTHORIZATION IS SUBJECT TO THE FOLLOWING CONDITIONS:

This authorization is issued on the grantee's representation that the statements contained in the application are true and that the undertakings described will be carried out in good faith.

This authorization shall not be construed in any manner as a finding by the Commission on the question of marking or lighting of the antenna system should future conditions require. The grantee expressly agrees to install such marking or lighting as the Commission may require under the provisions of Section 303(q) of the Communications Act. 47 U.S.C. § 303 (q).

Neither this authorization nor the right granted by this authorization shall be assigned or otherwise transferred to any person, firm, company or corporation without the written consent of the Commission. This authorization is subject to the right of use or control by the government of the United States conferred by Section 706 of the Communications Act. 47 U.S.C. § 706. Operation of this station is governed by Part 25 of the Commission's Rules. 47 C.F.R. Part 25.

This authorization shall not vest in the licensee any right to operate this station nor any right in the use of the designated frequencies beyond the term of this license, nor in any other manner than authorized herein.

This authorization is issued on the grantee's representation that the station is in compliance with environmental requirements set forth in Section 1.1307 of the Commission's Rules. 47 C.F.R. § 1.1307.

This authorization is issued on the grantee's representation that the station is in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules. 47 C.F.R. § 17.4.

The following condition applies when this authorization permits construction of or modifies the construction permit of a radio station:

This authorization shall be automatically forfeited if the station is not ready for operation by the required date of completion of construction unless an application for modification of construction permit for additional time to complete construction is filed by that date, together with a showing that failure to complete construction by the required date was due to factors not under control of the grantee.

Received
APR 17 1996
ICIS USE P/L-96
E960250

FCC 493 - APPLICATION FOR EARTH STATION AUTHORIZATION OR FOR MODIFICATION OF STATION LICENSE
READ INSTRUCTIONS BEFORE COMPLETING APPLICATION

Satellite and
Radio Communications Division
International Bureau
ORIGINAL

SECTION I (FEE PORTION)

PART I

APPLICANT NAME (Last, first, middle initial)

BLR Communications, Inc.

MAILING ADDRESS (Line 1) (Maximum 85 characters - refer to Instructions for Completing Section I, no. 2)

8624 Frederick Road

MAILING ADDRESS (Line 2) (if required) (Maximum 85 characters)

Satellite and
Radio Communications Division
International Bureau

CITY

Ellicott City

STATE OR COUNTRY (if foreign address)

Maryland

ZIP CODE

21043

CALL SIGN

OTHER FCC IDENTIFIER

Enter in Column (A) the correct Fee Type Code for the service you are applying for. Fee Type Codes may be found in the Common Carrier Services Fee Filing Guide. Enter in Column (B) the Fee Multiple, if applicable. Enter in Column (C) the result obtained from multiplying the value of the Fee Type Code in Column (A) by the number entered in Column (B), if any.

(A)	(B)	(C)	FOR FCC USE ONLY
FEE TYPE CODE	FEE MULTIPLE (if required)	FEE DUE FOR FEE TYPE CODE IN COLUMN (A)	
(1) B A X	/	\$1,755.00	

PART II - To be used only when you are requesting concurrent actions which result in a requirement to list more than one Fee Type Code.

(A)	(B)	(C)	FOR FCC USE ONLY
FEE TYPE CODE	FEE MULTIPLE (if required)	FEE DUE FOR FEE TYPE CODE IN COLUMN (A)	
(2)		\$	
(3)		\$	
(4)		\$	
(5)		\$	

ADD ALL AMOUNTS SHOWN IN COLUMN C, LINES (1) THROUGH (5), AND ENTER THE TOTAL HERE. THIS AMOUNT SHOULD EQUAL YOUR ENCLOSED REMITTANCE.

TOTAL AMOUNT REMITTED WITH THIS APPLICATION OR FILING	FOR FCC USE ONLY
\$	1,755.00

12. Frequency Coordination Limits

(a) Frequency Limits	(b) Range of Satellite Arc		(c) Antenna Elevation Angle		(d) Earth Station Azimuth		(e) Maximum EIRP Density Toward the Horizon (dBW/4kHz)
	(i) Eastern Limit	(ii) Western Limit	(i) Eastern Limit	(ii) Western Limit	(i) Eastern Limit	(ii) Western Limit	
14 to 14.5GHz	Varies	Varies	Varies	Varies	Varies	Varies	-3.02

13. Transmitting Equipment

(a) No. of HPA's	(b) Manufacturer	(c) Model No.	(d) Maximum Power Output (watts)
2	MCL	10999	280 Watts

14. Antenna Facilities (Corresponding line number in items 14 and 15 applies to same antenna)

Line No.	(a) Quantity	(b) TT&C*	(c) Manufacturer	(d) Model	(e) Size (meters)	(f) Type of Feed	(g) Gain Transmit and/or Receive (____dBi at ____ GHz)
1	1		Andrew	ESA24VSMKUI	2.4	Prime	50.1dBi @ 14.25GHz
2							
3							
4							

15. Antenna Heights (Measurements to be given in English and metric units)

Line No.	(h) Maximum Antenna Height		(i) Building Height**		(j) Maximum Antenna Height**	
	Above Ground Level	Above Mean Sea Level	Above Ground Level	Above Ground Level	Above Rooftop	Above Rooftop
1	12 feet 3.9 meters	N/A feet meters	N/A feet meters	N/A feet meters	N/A feet meters	N/A feet meters
2	feet meters	feet meters	feet meters	feet meters	feet meters	feet meters
3	feet meters	feet meters	feet meters	feet meters	feet meters	feet meters
4	feet meters	feet meters	feet meters	feet meters	feet meters	feet meters

16. Particulars of Operation (Full particulars are required for each r.f. carrier)

(a) Frequency Bands (MHz)	(b) Antenna Polarization (H,V,L,R)	(c) Emission Designator	(d) Maximum EIRP (dBW)	(e) Maximum EIRP Density (dBW/4kHz)	(f) Description of Modulation
14000-14500	H,V	36M0F3F	74.07 70.1	47.08 43.11	Video
14000-14500	H,V	3M00G7D	69.4	40.65	Digital
10950-11200	H,V	36M0F3F	-	--	Video
10950-11200	H,V	3M00G7D	-	-	Digital
11450-12000	H,V	36M0F3F	-	-	Video
11450-12000	H,V	3M00G7D	-	-	Digital

17. Receiving System Noise Temperature: (in kelvin with applicable antenna elevation angle and frequency)

120 Deg/K @ 10 Deg E1 and 11950MHz

*Check only for antennas used for satellite Telemetry, Tracking and Control (TT&C).

**Attach sketch of site or exemption. See 47 CFR Part 17.

Place an "X" in the appropriate column. YES NO

27. Rule Waivers and Exceptions Is this application inconsistent with any of the Commission's Rules? If "YES", attach a copy of requests for waivers or exceptions with supporting documents.		X
28. Eligibility (a) Is the applicant a foreign government or a representative thereof?		X
(b) Does the applicant meet the requirements of Section 310(b)(1), (2) and (3) of the Communications Act (47 USC 310(b)(1), (2) and (3))?	X	
(c) Does the applicant meet the requirements of Section 310(b)(4) of the Communications Act (47 USC 310(b)(4))? If "NO", attach an exhibit explaining why grant is in the public interest.	X	
29. Will the station be used to provide common carrier services?	X	
30. Will the station be used for developmental purposes? If "YES", attach an exhibit detailing the developmental plan.		X
31. If transmitting antenna, will individual applicant, partner (in case of partnership) or full-time manager (in case of corporation) actively participate in the day-to-day management and operation of proposed facility? If "NO", submit an exhibit providing an explanation, and including a demonstration of how control over the facility will be retained.	X	
32. For transmitting antennas that provide domestic or international service, attach FCC 430 form, or if a complete and accurate FCC 430 form is already on file with the FCC give date filed: _____ Is FCC 430 form attached?	X	
33. Exhibits. Identify the exhibits that are attached to this application.		

Exhibit No.	
1	Radiation Hazard Analysis
2	Specification of Foreign Destination Points
3	
4	
5	

34. **Certification of Person Responsible for Preparing Engineering Information in this Application.**
I hereby certify that I am the technically qualified person responsible for preparation of the engineering information contained in this application, that I am familiar with Part 25 of the Commission's Rules, that I have either prepared or reviewed the engineering information submitted in this application, and that it is complete and accurate to the best of my knowledge.

Date 3/12/96	Typed Name of Person Signing Gordon L. Robertson	Signature 
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35. Certification of Applicant. By checking yes, the applicant certifies that, in the case of an individual applicant, he or she is not subject to a denial of federal benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 853a, or, in the case of a nonindividual applicant (e.g., corporation, partnership or other unincorporated association), no party to the application is subject to a denial of federal benefits pursuant to that section. For the definition of a "party" for these purposes, see 47 CFR 1.2002.

YES NO

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 a construction permit, if necessary, 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 the signer's knowledge and belief, and are made in good faith.

Date 3-14-96	Typed Name of Person Signing Robert D. Lehson	Signature 
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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 AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), and/or FORFEITURE (U.S. Code, Title 47, Section 503).

Notice to Individuals Required by the Privacy Act of 1974 and the Paperwork Reduction Act of 1980
The solicitation of personal information requested in this form is authorized by the Communications Act of 1934, as amended. The Commission will use the information provided in this form to determine whether grant of this application is in the public interest. In reaching that determination, or for law enforcement purposes, it may become necessary to refer personal information contained in this form to another government agency. In addition, all information provided in this form will be available for public inspection. If information requested on the form is not provided, processing of the application may be delayed or the application may be returned without action pursuant to the Commission rules. Your response is required to obtain the requested authority. Public reporting burden for this collection of information is estimated to average 24 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Federal Communications Commission, Records Management Division, Room 234, Washington, D.C. 20554, and to Office of Management and Budget, Paperwork Reduction Project (3060-0480), Washington, D.C. 20503.

EXHIBIT 1

***** RADIATION HAZARD ANALYSIS *****

DATE: 03/12/96

CLIENT: BLR Comm, Inc.

SITE: Varies

This report analyzes the non-ionizing radiation levels for the above earth station. The purpose of this report is to determine the power flux densities in the Far Field, Near Field, Transition Region, between the Subreflector and the Main Reflector surface (if applicable), at the Main Reflector surface, and between the Antenna edge and the ground.

The supporting calculations that are submitted as a part of this exhibit show that the proposed earth station is environmentally safe, not only based on the criteria published by OSHA, but also in light of recent recommendations for stricter control of RF radiation as published in the ANSI Radio Frequency Guide (C95.1-1982) and within the meaning of Part 1.1307(b) of the Commission's Rules.

Earth Station Parameters:

Antenna Diameter(D):	2.4	Meters
Antenna Surface Area (Sa):	4.52	SqMeters
Subreflector Diameter(Ds):	0.0	cm
Subreflector Area(As):	0.00	Sqcm
Transmit Freq:	14250.0	MHz
WaveLenght(lambda):	0.021	Meters
Transmit Power @ Flange(P):	100.00	Watts
Antenna Gain(dBi):	50.1	dBi
Antenna Gain Isotropic(Ges):	102329.3	
Antenna Efficiency(n):	55.0	%

1. Far Field Calculations:

The distance to the Far Field region can be found by using the following equation:

$$\frac{0.6(D^{**2})}{\text{lambda}}$$

Dist. to Far Field Region(Rf): 164.3 Meters

|::

4. Region Between Main Reflector and Subreflector

Transmissions from the Feed Horn are directed toward the Subreflector surface. They are then reflected back toward the Main Reflector. The Energy between the Subreflector and Main Reflector surfaces can be calculated by determining the power density at the Subreflector surface. This can be accomplished by using the following equation:

Power Density @ Subreflector(Ws):		$\frac{2(P)}{A_s}$

		As
	N/A	mW/Sqcm

5. Main Reflector Region

The power density in the Main Reflector region is determined in the same manner as above, but the area is now the area of the Main Reflector aperture(Wm):

		$\frac{2(P)}{S_a}$

		Sa
Power Density @ Main Reflector(Wm):	44.21	W/SqMeter
	4.42	mW/Sqcm

6. Region Between Main Reflector and Ground

Based on an assumption of uniform illumination of the reflector surface, the power density between the antenna and ground can be determined using the following equation:

		$\frac{P}{S_a}$

		Sa
Power density between Reflector and Ground(Wg):	22.10	W/SqMeter
	2.21	mW/Sqcm

TABLE 1

Summary of Expected Radiation Levels

Region	Distance (Meters)	Calculated Maximum Radiation Level (mW/Sqcm)	Hazard Assessment
1. Far Field:	164.30	3.02	SATISFIES ANSI
2. Extent of Near Field:	68.46	4.86	SATISFIES ANSI
3. Transition Region:		4.86	SATISFIES ANSI
4. Between Main Reflector and Subreflector:		N/A	SATISFIES ANSI
5. Main Reflector Surface:		4.42	SATISFIES ANSI
6. Between Antenna and Ground:		2.21	SATISFIES ANSI

7. Conclusions

Based on the above analysis, it is concluded that harmful radiation hazards are not in the region normally occupied by the Earth Station personnel or the general public. In every case that technical personnel are required to work on the antenna, the RF transmitters will be turned off.

8. CERTIFICATION

I hereby certify that I am the technically qualified person responsible for the preparation of the engineering information contained in this Exhibit; that I am familiar with Parts 21 and 25 fo the Commission's Rules; that I have either prepared or reviewed the engineering information submitted in this Exhibit; and, that it is complete and accurate to the best of my knowledge.

By: 

Gordon L. Robertson

Dated this day: 3/12/96

EXHIBIT 2

ATTACHMENT A

Countries To Be Served Via Intelsat (Other Than IBS, DataNet and ITS)*

Up to one hundred 64 Kbps voice-grade circuits both interconnected and non-interconnected between the United States and each of the countries listed:

Afghanistan	Gabon	New Zealand
Algeria	Ghana	Nicaragua
Angola	Greece	Niger
Argentina	Guatemala	Nigeria
Armenia	Guinea	Norway
Australia	Haiti	Oman
Austria	Honduras	Pakistan
Azerbaijan	Hungary	Panama
Bahamas	Iceland	Papua New Guinea
Bahrain	India	Paraguay
Bangladesh	Indonesia	Peru
Barbados	Iran, Islamic	Philippines
Belgium	Republic of	Poland
Benin	Iraq	Portugal
Bhutan	Ireland	Qatar
Bolivia	Israel	Romania
Bosnia-Herzegovina	Italy	Rwanda
Botswana	Jamaica	Saudi Arabia
Brazil	Japan	Senegal
Brunei Darussalam	Jordan	Serbia & Montenegro
Burkina Faso	Kazakhstan	Singapore
Cameroon	Kenya	Somalia
Cape Verde	Korea, Republic Of	Slovenia
Central African	Kuwait	South Africa
Republic	Kyrgyzstan	Spain
Chad	Lebanon	Sri Lanka
Chile	Libya	Sudan
China, People's	Liechtenstein	Swaziland
Republic of	Luxembourg	Sweden
Columbia	Macedonia, FYRO	Switzerland
Congo	Madagascar	Syria
Costa Rica	Malawi	Tanzania
Cote d'Ivoire	Malaysia	Thailand
Croatia	Mali	Togo
Cyprus	Malta	Trinidad
Czech Republic	Mauritania	Tunisia
Denmark	Mauritius	Turkey
Dominican Republic	Mexico	Uganda
Ecuador	Micronesia	United Arab
Egypt	Monaco	Emirates
El Salvador	Morocco	United Kingdom
Ethiopia	Mozambique	Uruguay
Fiji	Namibia	Vatican City State
Finland	Nepal	Venezuela
France	Netherlands	Vietnam

ATTACHMENT A (Continued)

Countries To Be Serviced Via Intelsat

Yemen
Zaire
Zambia
Zimbabwe

*Blanket authority is being requested for IBS, DataNet and ITS service to all Intelsat countries

ATTACHMENT B

Countries To Be Served Via PAS-1

Up to ten 64 Kbps non-interconnected voice-grade circuits between the United States and each of the countries listed below:

Ku-band Countries

Anguilla	Italy
Austria	Luxembourg
Azerbaijan	Monaco
Bahamas	Montserrat
Belgium	Netherlands
Bermuda	Portugal
Bosnia-Herzegovina	Romania
British Virgin Is.	Serbia & Montenegro
Cayman Islands	Slovenia
Croatia	Spain
Czech Republic	Sweden
Denmark	Switzerland
France	Turks & Caicos Is.
Germany	United Kingdom
Greece	Macedonia, FYRO
Ireland	

C-band Countries

Anguilla	Guatemala
Argentina	Haiti
Aruba	Honduras
Bahamas	Jamaica
Barbados	Mexico
Bermuda	Montserrat
Bolivia	Netherlands Antilles
Brazil	Panama
British Virgin Is.	Paraguay
Cayman Islands	Peru
Chile	Trinidad and Tobago
Colombia	Turks & Caicos Is.
Costa Rica	Uruguay
Dominican Rep.	Venezuela
Ecuador	

ATTACHMENT B (Continued)

Countries To Be Served Via PAS-1

Up to six 64 Kbps interconnected voice-grade circuits between the United States and each of the countries listed below:

Ku-band Countries

Azerbaijan
Bahamas
Bosnia-Herzegovina
Czech Republic
Portugal
Romania
Serbia & Montenegro
United Kingdom
Macedonia, FYRO

C-band Countries

Bahamas
Costa Rica
Dominican Republic
Netherlands Antilles
Panama
Peru

Countries To Be Served Via PAS-2

Up to ten 64 Kbps non-interconnected voice-grade circuits between the United States and the following countries:

United Kingdom

Up to six 64 Kbps interconnected voice-grade circuits between the United States and the following countries:

United Kingdom

Countries To Be Served Via PAS-4

Up to ten 64 Kbps non-interconnected voice-grade circuits between the United States and each of the countries listed below:

Australia
Hong Kong
New Zealand

Up to six 64 Kbps interconnected voice-grade circuits between the United States and the following countries:

Australia
Hong Kong
New Zealand

ATTACHMENT C

Countries To Be Served Via The Orion F1 Satellite

Up to six 64 Kbps interconnected voice-grade circuits between the United States and each of the countries listed below:

Bosnia-Herzegovina
Germany
Ireland
The Netherlands
Poland
Sweden

Up to ten 64 Kbps non-interconnected voice-grade circuits between the United States and each of the countries listed below:

Austria
Belgium
Bosnia-Herzegovina
Denmark
France
Germany
Ireland
Italy
Luxembourg

Norway
Poland
Serbia & Montenegro
Sweden
The Netherlands
United Kingdom
Macedonia, FYRO

LICENSEE QUALIFICATION REPORT

(FCC FORM 430)

LICENSEE QUALIFICATION REPORT

See reverse side for information regarding public burden statement.

INSTRUCTIONS

- A. The "Filer" of this report is defined to include: (1) An applicant, where this report is submitted in connection with applications for common carrier and satellite radio authority as required for such applications; or (2) A licensee or permittee, where this report is required by the Commission's Rules to be submitted on an annual basis.
- B. Submit an original and one copy (sign original only) to the Federal Communications Commission, Washington, DC 20554. If more than one radio service is listed in Item 6, submit an additional copy for each such additional service. If this report is being submitted in connection with an application for radio authority, attach it to that application.
- C. Do not submit a fee with this report.

<p>1. Business Name and Address (Number, Street, State and ZIP Code) of Filer's Principal Office:</p> <p>BLR Communications, Inc. 8624 Frederick Road Ellicott City, Maryland 21043</p>	<p>2. (Area Code) Telephone Number: (410) 750-1400</p> <p>3. If this report supercedes a previously filed report, specify its date: N/A</p>
<p>4. Filer is (check one): <input type="checkbox"/> Individual <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Other (Specify):</p>	<p>5. Under the laws of what State (or other jurisdiction) is the Filer organized?</p>

6. List the common carrier and satellite radio services in which Filer has applied or is a current licensee or permittee:

BLR Communications, Inc. will very shortly be filing a Section 214 Application and an Application for Earth Station Authorization (FCC Form 493).

<p>7(a) Has the Filer 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? <i>If "YES", attach as Exhibit I a statement giving call sign and file number of license or permit revoked and relating circumstances.</i></p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>(b) Has any court finally adjudged the Filer, or any person directly or indirectly controlling the Filer, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement, or other means of unfair methods of competition? <i>If "YES", attach as Exhibit II a statement relating the facts.</i></p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>(c) Has the Filer, or any party to this application, or any person directly or indirectly controlling the Filer ever been convicted of a felony by any state or Federal Court? <i>If "YES", attach as Exhibit III a statement relating the facts.</i></p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>(d) Is the Filer, or any person directly or indirectly controlling the Filer, presently a party in any matter referred to Items 7(b) and 7(c)? <i>If "YES", attach as Exhibit IV a statement relating the facts.</i></p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>

8. Is the Filer, directly or indirectly, through stock ownership, contract or otherwise, currently interested in the ownership or control of any other radio stations licensed by this Commission? *If "YES", submit as Exhibit V the name of each such licensee and the licensee's relation to the Filer.*

Yes No

<p>If Filer is an individual (sole proprietorship) or partnership, answer the following and Item 11: N/A</p>	
<p>9(a) Full Legal Name and Residential Address (Number, Street, State and ZIP Code) of Individual or Partners:</p>	<p>(b) Is individual or each member of a partnership a citizen of the United States? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>(c) Is individual or any member of a partnership a representative of an alien or of a foreign government? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>

If Filer is a corporation, answer the following and item 11:

10(a) Attach as Exhibit VI the names, addresses, and citizenship of those stockholders owning of record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries.

See Exhibit VI

(b) List below, or attach as Exhibit VII the names and addresses of the officers and directors of the Filer.

See Exhibit VII

(c) Is the Filer directly or indirectly controlled by any other corporation?

Yes No

If "YES", attach as Exhibit VIII a statement (including organizational diagrams where appropriate) which fully and completely identifies the nature and extent of control. Include the following: (1) the address and primary business of the controlling corporation and any intermediate subsidiaries; (2) the names, addresses, and citizenship of those stockholders holding 10 percent or more of the controlling corporation's voting stock; (3) the approximate percentage of total voting stock held by each such stockholder; and (4) the names and addresses to the president and directors of the controlling corporation.

(d) Is any officer or director of the Filer an alien?

Yes No

(e) Is more than one-fifth of the capital stock of the Filer owned of record or voted by aliens or their representatives, or by a foreign government or representative(s) thereof, or by a corporation organized under the laws of a foreign country?

Yes No


(f) Is the Filer directly or indirectly controlled: (1) by any other corporation of which any officer or more than one-fourth of the directors are aliens, or (2) by any foreign corporation or corporation of which more than one-fourth of the capital stock is owned or voted by aliens or their representatives, or by a foreign government or representatives thereof.

Yes No

(g) If any answer to questions (d), (e) or (f) is "YES", attach as Exhibit IX a statement identifying the aliens or foreign entities, their nationality, their relationship to the Filer, and the percentage of stock they own or vote.
N/A

11. CERTIFICATION

This report constitutes a material part of any application which cross-references it, and all statements made in the attached exhibits are a material part thereof. The ownership information contained in this report does not constitute an application for, or Commission approval of, any transfer of control or assignment of radio facilities. The undersigned, individually and for the Filer, hereby certifies that the statements made herein are true, complete and correct to the best of Filer's 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 312(a)(1)).	Date	Filer (Must correspond with that shown in item 1)	Typed or Printed Name
	3/16/96	BLR Communications, Inc.	Robert D. Lehson
	Signature		Title
			Vice-President

NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT OF 1974 AND THE PAPERWORK REDUCTION ACT OF 1980

The solicitation of personal information requested in this form is to determine if you are qualified to become or remain a licensee in a common carrier or satellite radio service pursuant to the Communications Act of 1934, as amended. No authorization can be granted unless all information requested is provided. Your response is required to obtain the requested authorization or retain an authorization.

Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Federal Communications Commission, Office of Managing Director, Washington, DC 20554, and to Office of Management and Budget, Paperwork Reduction Project (3060-0105), Washington, DC 20503.

BLR Communications, Inc.
Form 430 Licensee Qualification Report

Exhibit VI

EXHIBIT VI

EXHIBIT VI

Stockholders owning of record 10 percent or more of the Filer's voting stock:

<u>Name and Address</u>	<u>% Held</u>	<u>Citizenship</u>
Robert Coates 2301 Leaman Lane Germantown, Maryland	50%	U.S.
Robert D. Lehson 8231 Main Street Ellicott City, Maryland	50%	U.S.

BLR Communications, Inc.
Form 430 Licensee Qualification Report

Exhibit VII

EXHIBIT VII

EXHIBIT VII

Robert Coates
President, Treasurer, Director
2301 Leaman Lane
Germantown, Maryland

Robert D. Lehson
Vice-President, Secretary, Director
8231 Main Street
Ellicott City, Maryland 21043

ORIGINAL

ALLEN & HAROLD

A PROFESSIONAL LIMITED LIABILITY COMPANY
INCLUDING A PROFESSIONAL CORPORATION

ROBERT G. ALLEN, P.C.
DOUGLAS W. HAROLD, JR.
ELDRED D. INGRAHAM*

W. BRUCE WEINROD**
OF COUNSEL

*ADMITTED IN PENNSYLVANIA ONLY
PRACTICE RESTRICTED TO MATTERS
BEFORE FCC, WASHINGTON, D.C.

**ADMITTED IN DC ONLY

10610-A CRESTWOOD DRIVE
POST OFFICE BOX 2126
MANASSAS, VIRGINIA 22110

(703) 361-2278
FAX (703) 361-0594

SUITE 200
2000 L STREET, N.W.
WASHINGTON, D.C. 20036

5413 MAIN STREET
STEPHENS CITY, VIRGINIA 22655

April 11, 1996

Received

APR 19 1996

Satellite and
Radio Communications Division
National Bureau

Mr. William F. Caton
Acting Secretary
Federal Communications Commission
Common Carrier Dom. Earth Stations
P.O. Box 358160
Pittsburgh, Pennsylvania 15251-5160

BY HAND

Re: BLR Communications, Inc.
Application for Domestic and International
Title III Authority
Temporary Fixed Earth Station (Transportable)
A&H #13118

Dear Mr. Caton:

Transmitted herewith, in triplicate, on behalf of BLR Communications, Inc. ("BLR"), is an Application for Earth Station Authorization (FCC Form 493) requesting Domestic and International Title III Authority to construct and operate a Temporary Fixed Earth Station. Also please find submitted a check in the amount of \$1,755.00 in payment of the requisite filing fee (Filing Code: BAX).

Attached, for ease of reference, is a copy of the Licensee Qualification Report (FCC Form 430) recently submitted by BLR in connection with its pending Application for Section 214 Authority, filed April 4, 1996.

Should there be any questions, please contact the undersigned.

Very truly yours,


Robert G. Allen

RGA:edi
Attachments