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APPLICATION FOR EARTH STATION AUTHORIZATIONS

FCC Use Only

FCC 312 MAIN FORM FOR OFFICIAL USE ONLY

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:

Domestic Ku-band VSAT Network

Name: NEXTEL COMMUNICATIONS Phone Number: 703-433-4000

OF THE MID-ATLANTIC INC

DBA Fax Number: 703–433–4035

Name:

Street: 2001 EDMUND HALLEY **E-Mail:**

DRIVE

City: RESTON State: VA

Country: USA Zipcode: 20191 -

Attention:

9–16. Name of Contact Representative (If other than applicant)

Name: Robin Cohen Phone Number: 703–433–4000

Company: Nextel Communications of the **Fax Number:** 703–433–4035

Mid-Atlantic, Inc.

Street: 2001 Edmund Halley Drive E–Mail: robin.cohen@nextel.com

City: Reston State: VA

Country: USA Zipcode: 20191–

Contact Manager, Regulatory Relationship: Other

Title:

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.

a.

a1. Earth Station

(N/A) a2. Space Station

b.

b1. Application for License of New Station

b2. Application for Registration of New Domestic Receive-Only Station

(N/A) b3. Amendment to a Pending Application

(N/A) b4. Modification of License or Registration

(N/A) b5. Assignment of License or Registration

(N/A) b6. Transfer of Control of License or Registration

(N/A) b7. Notification of Minor Modification

(N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite

(N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States

b10. Other (Please specify)

o b11. Application for Earth Station to Access a Non–U.S.satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States.

17c. Is a fee submitted with this applied. If Yes, complete and attach FCC For	eation? m 159. If No, indicate reason for fee exemption	on (see 47 C FR Section 1 1114)
Governmental Entity Noncom		in (500 17 C.I. R.Dection 1.1117).
Other(please explain):		
17d.		
Fee Classification BGV – Fixed Satellit	e VSAT System	
18. If this filing is in reference to an existing station, enter: (a) Call sign of station:	19. If this filing is an amendment to a pending (a) Date pending application was filed:	ng application enter: (b) File number of pending application:
Not Applicable	Not Applicable	Not Applicable
TYPE OF SERVICE		
20. NATURE OF SERVICE: This filing i	s for an authorization to provide or use the follow	wing type(s) of service(s): Select all that apply:
a. Fixed Satellite b. Mobile Satellite c. Radiodetermination Satellite d. Earth Exploration Satellite		
e. Direct to Home Fixed Satellite f. Digital Audio Radio Service		
g. Other (please specify)		

21. STATUS: Choose the button next to the applicable status. Choose	22. If earth station applicant, check all that apply.
only one.	■ Using U.S. licensed satellites
Common Carrier Non–Common Carrier	Using Non–U.S. licensed satellites
facilities:	ervice, see instructions regarding Sec. 214 filings. Choose one. Are these
Connected to a Public Switched Network Not connected	to a Public Switched Network N/A
24. FREQUENCY BAND(S): Place an "X" in the box(es) next to all a	pplicable frequency band(s).
a. C–Band (4/6 GHz) b. Ku–Band (12/14 GHz)	
c.Other (Please specify upper and lower frequencies in MHz.)	
Frequency Lower: Frequency Upper:	
TYPE OF STATION	
25. CLASS OF STATION: Choose the button next to the class of station	that applies. Choose only one.
a. Fixed Earth Station	
 b. Temporary–Fixed Earth Station 	
o c. 12/14 GHz VSAT Network	
d. Mobile Earth Station	
(N/A) e. Geostationary Space Station	
(N/A) f. Non–Geostationary Space Station	
g. Other (please specify)	
26. TYPE OF EARTH STATION FACILITY: Choose only one.	
Transmit/Receive Transmit-Only Receive-Only N/A	

PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.) Not Applicable ENVIRONMENTAL POLICY 28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. §§ 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments. ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30–34. 29. Is the applicant a foreign government or the representative of any foreign government? Yes No N/A 30. Is the applicant an alien or the representative of an alien?	TORT ODE OF WOODI TOATION	
28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. §§ 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments. ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30–34. 29. Is the applicant a foreign government or the representative of any foreign government? Yes No NA		
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		nutical en route or
30. Is the applicant an alien or the representative of an alien? Yes No N/A	29. Is the applicant a foreign government or the representative of any foreign government?	• Yes • No • N/A
	30. Is the applicant an alien or the representative of an alien?	O Yes O No O N/A

31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes	● No) O N/A
32. Is the applicant a corporation of which more than one–fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	O Yes	⊗ No	o o N/A
33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one–fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	O Yes	⊚ No	o o N/A
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.			
BASIC QUALIFICATIONS			
35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	٥	Yes	No

36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	⊚ No
37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attemptiing unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	O Yes	⊚ No
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	O Yes	⊚ No

40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a 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. Also list the names and addresses of the officers and directors of the Filer.		
41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti–Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.	Yes	O No
42a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.	○ Yes	⊚ No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, w coordinated or is in the process of coordinating the space station?	hat administr	ation has

43. Description. (Summarize the nature of the application and the services to be provided). (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

Nextel Communications of the Mid-Atlantic, Inc. desires to license a domestic Ku-band VSAT network consisting of a fixed hub site and transportable remote earth stations, which would be deployed to operate on a short-term basis in remote areas where disasters have destroyed or impaired traditional forms of wireless telecommunications, at major

Exhibit B

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. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in 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 all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.
44. Applicant is a (an): (Choose the button next to applicable response.)
O Individual
Unincorporated Association
Partnership
Corporation
Governmental Entity
Other (please specify)

45. Name of Person Signing Robert H. McNamara		46. Title of Perso Senior Counsel -		
47. Please supply any need attachmed Attachment 1:				
(U.S. Code, T	Fitle 18, Section 1001), AND/O	R REVOCATION OF	BLE BY FINE AND / OR IMPRIANY STATION AUTHORIZAT	ION

SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 – Schedule B:(Technical and Operational Description) FOR OFFICIAL USE ONLY

Location of Earth Station Site

E1: Site Identifier: Hub E5. Call Sign:

E2: Contact Name Robin Cohen E6. Phone 703–433–4000

Number:

E3. Street: 1768 Old Meadow E7. City: McLean

Road

E8. County: Fairfax

E4. State VA E9. Zip Code 22102

E10. Area of Operation: McLean, Virginia Area

E11. Latitude: 38 °55 '7.0 "N

E12. Longitude: 77 °12 '49.0 "W

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 N/A

E14. Site Elevation (AMSL): 106.68 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	⊗ Ye	es	O No	(O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O Ye	es	O No	(o N∕A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Y	Yes	•	N	10
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	Τ				
18 18 frequency coordination required? If TES, attach a frequency coordination report as	O Y	Yes	€	N	lo
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0 Y	Yes	€	N	
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.		Yes	•) N	
POINTS OF COMMUNICATION					
Satellite Name: PERMITTED LIST If you selected OTHER, please enter the following:					

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
POINTS OF COMMUNICATION (Destination Points)	
E25. Site Identifier:	
E26. Common Name:	E27. Country:
ΔΝΤΕΝΝΔ	!

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
Hub	Hub	1	Prodelin Corporation	1244	2.4	47.6 dBi at 11.950
						49.2 dBi at 14.250

Id	Diameter	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)		Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
Hub	0.0/0.0	3.2	109.9	0.0	40.0	0.0	65.2

FREQUENCY

E28. Antenna Id	E43/44.	E45. T/R Mode	E46. Antenna	E47. Emission	E48. Maximum	E49. Maximum
	Frequency Bands		Polarization(H,V,	Designator	EIRP per Carrier	ERIP Density per
	(MHz)		L , R)		(dBW)	Carrier
						(dBW/4kHz)

Hub	11700.0 12200.0	R	Linear and Circular	1M34G7W	0.0	0.0
E50. Modulation	on and Services (If the complete d	lescription does not appear in	this box, please	go to the end of t	he form to view it in its
Digital N	7oice, Fax, ar	nd Data	Linear and Circular	1M34G7W	60.4	35.2
E50 Modulatio	on and Services (If the complete d	lescription does not appear in	this box please	go to the end of t	he form to view it in its
entirety.)	on and services (escription does not appear in	tins box, pieuse		
Digital N	oice, Fax, ar,	nd Data				

FREQUENCY COORDINATION

E28. Antenna Id	l	Frequency Limits(MHz)	Range of Satellite Arc E/W Limit	Station Azimuth Angle	Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Hub	Geostationary	11700.0 12200.0	60.0/ 143.0	153.8	41.5	254.2	10.0	0.0

	Geostationary	14000.0 14500.0	60.0/ 143.0	153.8		41.5	254.2	10.0	-2.54
REMOTE CO	NTROL POIN	T LOCATION	l	1		1	·		
E61. Call Si	gn				E65	. Phone Nu	mber		
	ise enter the calls	-	-	ot the					
Eo2. Succi	Address								
E63. City			E67. Count	У			E64/68. State/Country	7	E66. Zip Code

SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 – Schedule B:(Technical and Operational Description) FOR OFFICIAL USE ONLY

Location of Earth Station Site

E1: Site Identifier: Remote E5. Call Sign:

E2: Contact Name Robin Cohen E6. Phone 703–433–4000

Number:

E3. Street: Various Locations E7. City:

Throughout

the United States E8. County:

E4. State E9. Zip Code

E10. Area of Operation: Continental United States

E11. Latitude: 0 °0 '0.0 "

E12. Longitude: 0 °0 '0.0 "

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 N/A

E14. Site Elevation (AMSL): 0.0 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	⊗ Ye	es	O No	(O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O Ye	es	O No	(o N∕A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Y	Yes	•	N	10
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	Τ				
18 18 frequency coordination required? If TES, attach a frequency coordination report as	O Y	Yes	€	N	lo
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0 Y	Yes	€	N	
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.		Yes	•) N	
POINTS OF COMMUNICATION					
Satellite Name: PERMITTED LIST If you selected OTHER, please enter the following:					

E21. Common N	Vame:				E22. ITU	Name:					
E23. Orbit Locat	tion:				E24. Country:						
POINTS OF	COMMUNICAT	ION (Destination	on Points)	!						
E25. Site Identif	ier:										
E26. Common N	lame:				E27. Cou	ntry:					
ANTENNA					<u> </u>						
Site ID E28. Antenna Id E29. Q		Id E29. Quar	ntity	E30. Manufacturer				. Antenna <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)		
Remote	Remote1	5	5		nologies	ologies 1.8M SNG		1.8		45.3 dBi at 11.950	
										46.7 dBi at 14.250	
E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. A Level< (meter		E37. Bui Height A Ground Level <bl (meters)</bl 	bove	E38. Total Input Powe antenna flange (Watts)		E39. Maximum Antenna Hei Above Rooftop <br< th=""><th>E40. Total EIRP for al carriers (dBW)</th></br<>	E40. Total EIRP for al carriers (dBW)	
Remote1	0.0/0.0	5.0	0.0		0.0		40.0		0.0	62.7	

FREQUENCY

E28. Antenna Id	E43/44.	E45. T/R Mode	E46. Antenna	E47. Emission	E48. Maximum	E49. Maximum
	Frequency Bands		Polarization(H,V,	Designator	EIRP per Carrier	ERIP Density per
	(MHz)		L , R)		(dBW)	Carrier
						(dBW/4kHz)

Remote1	11700.0 12200.0	R	Linear and Circular	1M34G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
Digital Vo	ice, Fax, and	Data				
Remote1	14000.0 14500.0	Т	Linear and Circular	1M34G7W	57.9	32.7
E50. Modulation entirety.)	and Services (If the	ne complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
Digital Vo	ice, Fax, and	Data				

FREQUENCY COORDINATION

		Frequency Limits(MHz)	Range of Satellite Arc E/W Limit	Station Azimuth Angle		Station Azimuth Angle		E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Remote1	Geostationary	11700.0 12200.0	60.0/ 143.0	0.0	5.0	0.0	5.0	0.0

	Geostationary	14000.0 14500.0	60.0/ 143.0	0.0	5.0	0.0	5.0	-0.35
REMOTE CO	NTROL POIN	T LOCATION	I	•	•	•		<u> </u>
E61. Call Si	gn				E65. Phone N	Number		
	se enter the calls ich this applicati Address			ot the				
E63. City			E67. Coun	ty		E64/68 State/Cour	I .	E66. Zip Code

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting 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 required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD–PERM, Paperwork Reduction Project (3060–0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to jboley@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060–0678.

THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104–13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.

43. Description. (Summarize the nature of the application and the services to be provided).

Nextel Communications of the Mid-Atlantic, Inc. desires to license a domestic Ku-band VSAT network consisting of a fixed hub site and transportable remote earth stations, which would be deployed to operate on a short-term basis in remote areas where disasters have destroyed or impaired traditional forms of wireless telecommunications, at major events/attractions, and at special events requiring enhanced security. The mobile remote units will operate as full cell sites that can support individual users or group dispatch users in a given area and connect them to the system-wide national wireless telecommunications network. The hub and remote sites will provide digital voice, fax and data services.