EXHIBIT A

INTELSAT NORTH AMERICA LLC SPECIAL TEMPORARY AUTHORITY REQUEST EARTH STATION KA258 IOT SERVICES FOR INTELSAT 16 SATELLITE

Analysis of Non-Ionizing Radiation for a 14.2-Meter Earth Station System

This report analyzes the non-ionizing radiation levels for a 14.2-meter earth station system. The analysis and calculations performed in this report comply with the methods described in the FCC Office of Engineering and Technology Bulletin, No. 65 first published in 1985 and revised in 1997 in Edition 97-01. The radiation safety limits used in the analysis are in conformance with the FCC R&O 96-326. Bulletin No. 65 and the FCC R&O specifies that there are two separate tiers of exposure limits that are dependant on the situation in which the exposure takes place and/or the status of the individuals who are subject to the exposure. The Maximum Permissible Exposure (MPE) limits for persons in a General Population/Uncontrolled environment are shown in Table 1. The General Population/Uncontrolled MPE is a function of transmit frequency and is for an exposure period of thirty minutes or less. The MPE limits for persons in an Occupational/Controlled environment are shown in Table 2. The Occupational MPE is a function of transmit frequency and is for an exposure period of six minutes or less. The purpose of the analysis described in this report is to determine the power flux density levels of the earth station in the far-field, near-field, transition region, between the subreflector or feed and main reflector surface, at the main reflector surface, and between the antenna edge and the ground and to compare these levels to the specified MPEs.

Table 1. Limits for General Population/Uncontrolled Exposure (MPE)

Frequency Range (MHz)	Power Density (mW/cm²)
30-300	0.2
300-1500	Frequency (MHz)*(0.8/1200)
1500-100,000	1.0

Table 2. Limits for Occupational/Controlled Exposure (MPE)

Frequency Range (MHz)	Power Density (mW/cm²)
30-300	1.0
300-1500	Frequency (MHz)*(4.0/1200)
1500-100,000	5.0

Table 3. Formulas and Parameters Used for Determining Power Flux Densities

Parameter	Symbol	Formula	Value	Units
Antenna Diameter	D	Input	14.2	m
Antenna Surface Area	A _{surface}	$\pi D^2/4$	158.37	m²
Subreflector Diameter	D_{sr}	Input	175.0	cm
Area of Subreflector	A _{sr}	$\pi D_{sr}^2/4$	24052.82	cm ²
Frequency	F	Input	14000	MHz
Wavelength	λ	300 / F	0.021429	m
Transmit Power	Р	Input	270.0	W
Antenna Gain (dBi)	G _{es}	Input	64.7	dBi
Antenna Gain (factor)	G	10 ^{Ġes/10}	2951209.2	n/a
Pi	π	Constant	3.1415927	n/a
Antenna Efficiency	η	$G\lambda^2/(\pi^2D^2)$	0.68	n/a

1. Far Field Distance Calculation

The distance to the beginning of the far field can be determined from the following equation:

$$R_{\rm ff} = 0.60 \, D^2 / \lambda$$
= 5645.9 m (1)

The maximum main beam power density in the far field can be determined from the following equation:

$$S_{ff} = G P / (4 \pi R_{ff}^2)$$
 (2)
= 1.989 W/m²
= 0.199 mW/cm²

2. Near Field Calculation

Power flux density is considered to be at a maximum value throughout the entire length of the defined Near Field region. The region is contained within a cylindrical volume having the same diameter as the antenna. Past the boundary of the Near Field region, the power density from the antenna decreases linearly with respect to increasing distance.

The distance to the end of the Near Field can be determined from the following equation:

$$R_{nf} = D^2 / (4 \lambda)$$
 (3)
= 2352.5 m

The maximum power density in the Near Field can be determined from the following equation:

$$S_{nf} = 16.0 \, \eta \, P / (\pi \, D^2)$$
 (4)
= 4.644 W/m²
= 0.464 mW/cm²

3. Transition Region Calculation

The Transition region is located between the Near and Far Field regions. The power density begins to decrease linearly with increasing distance in the Transition region. While the power density decreases inversely with distance in the Transition region, the power density decreases inversely with the square of the distance in the Far Field region. The maximum power density in the Transition region will not exceed that calculated for the Near Field region. The power density calculated in Section 1 is the highest power density the antenna can produce in any of the regions away from the antenna. The power density at a distance R_t can be determined from the following equation:

$$S_t = S_{nf} R_{nf} / R_t$$
 (5)
= 0.464 mW/cm²

4. Region between the Main Reflector and the Subreflector

Transmissions from the feed assembly are directed toward the subreflector surface, and are reflected back toward the main reflector. The most common feed assemblies are waveguide flanges, horns or subreflectors. The energy between the subreflector and the reflector surfaces can be calculated by determining the power density at the subreflector surface. This can be determined from the following equation:

$$S_{sr} = 4000 P / A_{sr}$$
 (6)
= 44 901 mW/cm²

5. Main Reflector Region

The power density in the main reflector is determined in the same manner as the power density at the subreflector. The area is now the area of the main reflector aperture and can be determined from the following equation:

$$S_{\text{surface}} = 4 \text{ P / A}_{\text{surface}}$$
 (7)
= 6.820 W/m²
= 0.682 mW/cm²

6. Region between the Main Reflector and the Ground

Assuming uniform illumination of the reflector surface, the power density between the antenna and the ground can be determined from the following equation:

$$S_g = P / A_{surface}$$
 (8)
= 1.705 W/m²
= 0.170 mW/cm²

7. Summary of Calculations

Table 4. Summary of Expected Radiation levels for Uncontrolled Environment

Region	Radiation Pow	d Maximum er Density Leve //cm²)	l Hazard Assessment
1. Far Field (R _{ff} = 5645.9 m)	S _{ff}	0.199	Satisfies FCC MPE
2. Near Field (R _{nf} = 2352.5 m)	S _{nf}	0.464	Satisfies FCC MPE
3. Transition Region (R _{nf} < R _t < R _{ff})	St	0.464	Satisfies FCC MPE
Between Main Reflector and Subreflector	S _{sr}	44.901	Potential Hazard
5. Main Reflector	S _{surface}	0.682	Satisfies FCC MPE
6. Between Main Reflector and Ground	S _g	0.170	Satisfies FCC MPE

Table 5. Summary of Expected Radiation levels for Controlled Environment

Region	Radiation Po	Maximum ower Density nW/cm²)	Hazard Assessment
1. Far Field (R _{ff} = 5645.9 m)	S _{ff}	0.199	Satisfies FCC MPE
2. Near Field (R _{nf} = 2352.5 m)	S _{nf}	0.464	Satisfies FCC MPE
3. Transition Region (R _{nf} < R _t < R _{ff})	S _t	0.464	Satisfies FCC MPE
Between Main Reflector and Subreflector	S _{sr}	44.901	Potential Hazard
5. Main Reflector	S _{surface}	0.682	Satisfies FCC MPE
6. Between Main Reflector and Ground	S _g	0.170	Satisfies FCC MPE

It is the applicant's responsibility to ensure that the public and operational personnel are not exposed to harmful levels of radiation.

8. Conclusions

Based on the above analysis it is concluded that harmful levels of radiation will not exist in regions normally occupied by the public or the earth station's operating personnel. The transmitter will be turned off during antenna maintenance so that the FCC MPE of 5.0 mW/cm2 will be complied with for those regions with close proximity to the reflector that exceed acceptable levels.

EXHIBIT B

INTELSAT NORTH AMERICA LLC SPECIAL TEMPORARY AUTHORITY REQUEST EARTH STATION KA258 IOT SERVICES FOR INTELSAT 16 SATELLITE

Exhibit B

Compliance with FCC Report & Order (96-377) in respect to the operations in the 13.75 - 14.0 GHz Band

1. Background

This exhibit is presented to demonstrate the extent to which the Intelsat North America LLC satellite earth station in Clarksburg, MD is in compliance with FCC Report & Order 96-377. The potential interference from the earth station to U.S. Navy shipboard radiolocation operations (RADAR) and the NASA space research activities in the 13.75 - 14.0 GHz Band is addressed in this exhibit. The parameters for the earth station are provided in Table 1 below.

Table 1. Earth Station Characteristics

• Coordinates (NAD83): 39° 13′ 06.6" N, 77° 16′ 15.3" W

• Satellite Location for Earth Station: Intelsat IS-16 at 48.0° W

• Frequency Band: 13.75-14.5 GHz for uplink

• Polarizations: Circular / Linear Switchable

• Emissions: 850KN0N

• Modulation: No Modulation

• Maximum Aggregate Uplink EIRP: 88.0 dBW for all Carriers

• Transmit Antenna Characteristics

Antenna Size: 14.2 meter in Diameter

Antenna Type/Model: TIW
Gain: 64.7 dBi

• RF power into Antenna Flange: 23.3 dBW

or 0.0 dBW/4 kHz (Maximum)

Minimum Elevation Angle:
 Clarksburg, Md.
 35.4° @ 138.4° Az (Intelsat IS-16)

• Side Lobe Antenna Gain: $32 - 25*log(\theta)$

Because the above uplink spectrum is shared with the Federal Government, coordination in this band requires resolution data pertaining to potential interference between the earth stations and both Navy Department and NASA systems. Potential interference from the earth station could

impact the Navy and/or NASA systems in two areas. These areas are noted in FCC Order 96-377 and consist of (1) Radiolocation and radio navigation, (2) Data Relay Satellites.

Summary of Coordination Issues:

- 1) Potential Impact to Government Radiolocation (Shipboard Radar)
- 2) Potential Impact to NASA Data Relay Satellite Systems (TDRSS)

2. Potential Impact to Government Radiolocation (Shipboard Radar)

Radiolocation operations (RADAR) may occur anywhere in the 13.4 - 14 GHz frequency band aboard ocean going United States Navy ships. The FCC's Order 96-377 allocates the top 250 MHz of this 600 MHz band to the Fixed Satellite Service (FSS) on a co-primary basis with the radiolocation operations and provides for an interference protection level of -167 dBW/m²/4 kHz.

The closest distance to the shoreline from the Clarksburg, MD earth station is approximately 88 km Southeast towards the Atlantic Ocean. The calculation of the power spectral density at this distance is provided below:

Clear Sky EIRP: 88.00 dBW
 Carrier Bandwidth: 850 kHz

3. PD at antenna input: 0.0 dBW/4 kHz

4. Transmit Antenna Gain: 64.7 dBi

5. Antenna Gain Horizon: FCC Reference Pattern

6. Antenna Elevation Angle: 35.4°

The proposed earth station will radiate interference toward the ocean according to its off-axis side-lobe performance. A conservative analysis, using FCC standard reference pattern, results in off-axis antenna gains of -6.6 dBi towards the Atlantic Ocean.

The signal density at the shoreline, through free space is:

PFD = Antenna Feed Power density (dBW/4 kHz) + Antenna Off-Axis Gain (dBi) - Spread Loss (dBw-m²).

= $0.0 \text{ dBw/4 kHz} + (-6.6 \text{ dBi}) - 10*\log[4\Pi*(88000\text{m})^2]$

= -116.5 dBW/m 2 /4 kHz + Additional Path Losses (~68.0 dB)

Our calculations show additional path loss of approximately 68.0 dB including absorption loss and earth diffraction loss for the actual path profiles from the proposed earth station to the nearest shoreline.

The calculated PFD including additional path losses to the closest shoreline location is -184.5 dBW/m²/4 kHz. This is 17.5 dB below the -167 dBW/m²/4 kHz interference criteria of FCC Order 96-377. Therefore, there should be no interference to the U.S. Navy RADAR from the

Clarksburg, MD earth station due to the distance and the terrain blocking between the site and the shore.

3. Potential Impact to NASA's Data Relay Satellite System (TDRSS)

The geographic location of the Intelsat North America LLC earth station in Clarksburg, MD is outside the 390 km radius coordination contour surrounding NASA's White Sands, NM ground station complex. Therefore, the TDRSS space-to-earth link will not be impacted by the earth station in Clarksburg, MD.

The TDRSS space-to-space link in the 13.772 to 13.778 GHz band is assumed to be protected if an earth station produces an EIRP less than 71 dBW/6 MHz in this band. The 14.2 meter earth station dish will have an EIRP greater than 71 dBW/6 MHz in this band. The total EIRP for all carriers is 88.0 dBW, and the equivalent EIRP per 6 MHz segment remains at 88.0 dBW/6 MHz. Therefore, there will be interference to the TDRSS space-to-space link.

In order to meet the 71 dBW/6 MHz interference criteria, the earth station would have to be limited to an RF power density 17.0 dB lower than the maximum of 0.0 dBW/4kHz or -17.0 dBW/4kHz for an EIRP of 71.0 dBW.

4. Coordination Issue Result Summary and Conclusions

The results of the analysis and calculations performed in this exhibit indicate that compatible operation between the Clarksburg, MD earth station and the U.S. Navy and NASA systems space-to-earth link are possible. These analyses have been based on the assumption of 850 kHz bandwidth carriers. Operations in NASA systems space-to-space link (13772.0 to 13778.0 MHz) will occur at a lower EIRP value of 71 dBW. In order to meet the 71 dBW/6 MHz interference criteria, the earth station will be limited to a maximum total EIRP of 71.0 dBW for this band. Hence, there will be no interference into TDRSS space-to-space links.

No interference to U.S. Navy RADAR operations from the Clarksburg, MD earth station will occur.

EXHIBIT C

INTELSAT NORTH AMERICA LLC SPECIAL TEMPORARY AUTHORITY REQUEST EARTH STATION KA258 IOT SERVICES FOR INTELSAT 16 SATELLITE

FCC 312			Fage 1: Location
Schedule B	FEDERAL	AL COMMUNICATIONS COMMISSION	
AP	APPLICATION FOR SATELI Tech		AUTHORIZATIONS
License of New Station Reg	Registration of new Domestic	Amendment to a Pending Application Modification of License/Registration Notification of Minor Modification	ense/Registration Notification of Minor Modification.
B1. Location of Earth Station Site. If temporary-fixed, mobile, or V For VSAT networks attach indiv Location, Points of Communicat	e. If temporary-fixed, mobile, For VSAT networks attach Location, Points of Commu	If temporary-fixed, mobile, or VSAT remote facility, specify area of operation and point of contact. If VSAT hub station, give its locating For VSAT networks attach individual Schedule B, Page 1 sheets for each hub station and each remote station. Individually provide the Location, Points of Communications, and Destination Points for each hub and remote station.	SAT remote facility, specify area of operation and point of contact. If VSAT hub station, give its location ridual Schedule B, Page 1 sheets for each hub station and each remote station. Individually provide the clons, and Destination Points for each hub and remote station.
B1a. Station Call Sign B1b. Site KA258	B1b. Site identifier (HUB, REMOTE1, etc.)	B1c. Telephone Number (240) 527 – 6295	B1j. Geographic Coordinates N/S, B1k. Lat/Lon. Deg Min Sec E/W Coordinates are:
B1d. Mailing Street Address of Station or Area of Operation		B1e. Name of Contact Person	700 700 000
22021 COMSAT Drive		Robert Phillips	Lat. 382 13 U0.0 N Lon. 77° 16' 15.3" W
B1f. City B	B1g. County Montgomery	BIh. State BIi. Zip Code MD 20871	BII. Site Elevation (AMSL) 145.4 meters
B2. Points of Communications:	List the names and orbit loothe names and locations of	List the names and orbit locations of all satellites with which this earth station will communicate. The entry "ALSAT" is sufficit the names and locations of all satellite facilities licensed by the U.S. All non-U.S. licensed satellites must be listed individually.	List the names and orbit locations of all satellites with which this earth station will communicate. The entry "ALSAT" is sufficient to identify the names and locations of all satellite facilities licensed by the U.S. All non-U.S. licensed satellites must be listed individually.
Satellite Name and Orbit Location		Satellite Name and Orbit Location	Satellite Name and Orbit Location
Intelsat-16 (48.0° West Longitude)	(e)		
B3. Destination points for commi point(s) (countries) where the servi	unications using non-U.S. lice ces will be provided by this ea	B3. Destination points for communications using non-U.S. licensed satellites. For each non-U.S. licensed satellite facility identified in section B2 a point(s) (countries) where the services will be provided by this earth station via each non-U.S. license satellite system. Use additional sheets as needed.	B3. Destination points for communications using non-U.S. licensed satellites. For each non-U.S. licensed satellite facility identified in section B2 above, specify the destination point(s) (countries) where the services will be provided by this earth station via each non-U.S. license satellite system. Use additional sheets as needed.
Satellite Name	List of Destination Points	Points	
			FCC 312 Schedule B - Page 1

CC 312, Schedule B - Page 1 February, 1998 Page 2: Antennas

APPLICATION FOR SATELLITE SPACE AND EARTH STATION AUTHORIZATIONS FCC Form 312 - Schedule B: (Technical and Operational Description) FEDERAL COMMUNICATIONS COMMISSION

B4 Earth Station Antenna Facilities: Use additional pages as needed.

_							
	(g) Antenna Gain Transmit and/or Receive — dBi atGHz)	64.7 dBi at 14.00 GHz 63.2 dBi at 11.45 GHz					
	(f) Antenna Size (meters)	14.2					
	(e) Model	14.2M					
	(d) Manufacturer	MIT					
	(c) Quantity	-			1	,	
	(b) Antenna ID**	CKT-02T					
Dr. Dar in Station 18mm	(a) Site ID*	Clarksburg				·	

	D. Antenna Leights and Maximum Lower		TITLE CONTRACT CONTRA	:F1: W(-)	. 31.07	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
		Maximum Ar	Maximum Antenna Height	(e) Building	(x) Maximum	(g) Total input	
b) Ante	(b) Antenna Structure	(c) Above	(d) Above	Height Above	Antenna Height	Power at	(h) Total EIRP
Reg	Registration No.	Ground Level	Mean Sea Level	Ground Level	Above Rooftop	antenna flange	for all carriers
		(meters)	(meters)	(meters)***	(meters)***	(Watts)	(dBW)
		15.0	160.4			270.0	89.0
					1	•	

Notes:

If this is an application for a VSAT network, identify the site (Item B1b, Schedule B, Page 1) where each antenna is located. Also include this Site-ID on Schedule B, Page 5. Identify each antenna in VSAT network or multi-antenna station with a unique identifier, such as HUB, REMOTE1, A1, A2, 10M, 12M, 7M, etc. Use this same antenna ID throughout tables B4, B5, B6, and B7 when referring to the same antenna. Attach sketch of site or exemption, See 47 CFR Part 17.

APPLICATION FOR SATELLITE SPACE AND EARTH STATION AUTHORIZATIONS FCC Form 312 - Schedule B: (Technical and Operational Description) FEDERAL COMMUNICATIONS COMMISSION

B6. Frequency	B6. Frequency Coordination Limits: Use additional pages as needed.	ditional pages as ne	eded.					
(a) Antenna ID*	(b) Frequency Limits (MHz)	(c) Range of Satellite Arc Eastern Limit**	(d) Range of Satellite Arc Western Limit**	(e) Antenna Elevation Angle Eastern Limit	(f) Antenna Elevation Angle Western Limit	(g) Earth Station Azimuth Angle Eastern Limit	(h) Earth Station Azimuth Angle Western Limit	(i) Maximum EIRP Density toward the Horizon (dBW/4kHz)
CKT-02T	11700.0 – 12200.0	48.0° W.L.	48.0° W.L.	35.4°	35.4°	138.4°	138.4°	
CKT-02T	13750.0 – 13772.0	48.0° W.L.	48.0° W.L.	35.4°	35.4°	138.4°	138.4°	-6.6
CKT-02T CKT-02T	13778.0 – 14000.0 14000.0 – 14500.0	48.0° W.L.	48.0° W.L.	35.4°	35.4°	138.4°	138.4°	-6.6 -6.6
CKT-02T	13772.0 – 13778.0	48.0° W.L.	48.0° W.L.	35.4°	. 35.4°	138.4°	138.4°	-23.6
								,
·								

Notes:

^{*} Provide the ANTENNA-ID from table B4 to identify the antenna to which each frequency band and orbital arc range is associated.

** If operating with geostationary satellites, give the orbital arc limits and the associated elevation and azimuth angles. If operating with non-geostationary satellites, give the notation "NON-GEO" for the satellite arc and give the minimum operational elevation angle and the maximum azimuth angle range.

Page 4: Particulars

APPLICATION FOR SATELLITE SPACE AND EARTH STATION AUTHORIZATIONS FEDERAL COMMUNICATIONS COMMISSION

FCC Form 312 - Schedule B: (Technical and Operational Description)

R7 Particulars of Oneration (Full narticulars are required for each r.f. carrier): Use additional pages as needed.

Antenna ID*	b/. rarticular	D). Faruculais of Operation (run particulais are required for each in carrie). Oscarumonal pages as necessity	Hais aic i	בל חזו בת זהו	מאווויייייייייייייייייייייייייייייייייי). Ose adminor	on en engad in	
13750.0 – 12200.0 R H,V,L,R 150KNON 88.0 64.7 13750.0 – 13772.0 T H,V,L,R 850KNON 88.0 64.7 13772.0 – 13778.0 T H,V,L,R 850KNON 88.0 64.7 13772.0 – 13778.0 T H,V,L,R 850KNON 71.0 47.7	(a) Antenna ID*	(b) Frequency Limits (MHz)	(c) T/R Mode **	(d) Antenna Polarization (H,V,L,R)	(e) Emission Designator	(f) Maximum EIRP per Carrier (dBW)	(g) Maximum EIRP Density per Carrier (dBW/4kHz)	(h) Description of Modulation and Services
13750.0 – 13772.0 T H,V,L,R 850KN0N 88.0 64.7 13778.0 – 14000.0 T H,V,L,R 850KN0N 88.0 64.7 14000.0 – 14500.0 T H,V,L,R 850KN0N 88.0 64.7 13772.0 – 13778.0 T H,V,L,R 850KN0N 71.0 47.7	T00 T/10	44700 0 40000 0	٥	0 7/1	4 EOKNION			TT8 Common Corrior
13750.0 – 13772.0 T H,V,L,R 850KNON 88.0 64.7 13778.0 – 14000.0 T H,V,L,R 850KNON 88.0 64.7 14000.0 – 14500.0 T H,V,L,R 850KNON 71.0 47.7 13772.0 – 13778.0 T H,V,L,R 850KNON 71.0 47.7	CK1-021	11/00.0 - 12200.0	2	П, V, L, Л	NONVIORI			
13778.0 – 14000.0 T H,VL,R 850KN0N 88.0 64.7 14000.0 – 14500.0 T H,VL,R 850KN0N 71.0 47.7 13772.0 – 13778.0 T H,V,L,R 850KN0N 71.0 47.7	CKT-02T	13750.0 – 13772.0	F	H,V,L,R	850KN0N	88.0	.64.7	TT&C and Command Carrier
14000.0 – 14500.0 T H,V,L,R 850KNON 88.0 64.7 13772.0 – 13778.0 T H,V,L,R 850KNON 71.0 47.7 13772.0 – 13778.0 T H,V,L,R 850KNON 71.0 47.7 H,V,L,R 850KNON 71.0 47.7 H,V,L,R 850KNON 71.0 47.7 H,V,L,R 850KNON 71.0 47.7	CKT-02T	13778.0 – 14000.0	T	H,V,L,R	850KN0N	88.0	64.7	TT&C and Command Carrier
13772.0 – 13778.0 T H,V,L,R 850KNON 71.0 47.7 H,V,L,R 850KNON 71.0 47.7 H,V,L,R 850KNON 71.0 47.7	CKT-02T	14000.0 - 14500.0	T	H,V,L,R	850KN0N	88.0	64.7	TT&C and Command Carrier
	CKT-02T	13772.0 - 13778.0	T	H,V,L,R	850KN0N	71.0	47.7	TT&C and Command Carrier
						,		
		and the second						
								The second secon
				,				
				,				

Notes: * Provide the ANTENNA-ID from table B4 to identify the antenna to which each frequency band and emission is associated. For VSAT networks, include frequencies and emissions for all HUB and REMOTE units.

** Indicate whether the earth station transmits or receives in each frequency band.

February, 1998 FCC 312, Schedule B - Page 4

Page 5: Questions

APPLICATION FOR SATELLITE SPACE AND EARTH STATION AUTHORIZATIONS FCC Form 312 - Schedule B: (Technical and Operational Description) FEDERAL COMMUNICATIONS COMMISSION

If VSAT Network, provide the SITE-ID (Item B1b) of the station that B8-B13 are in response to (HUB, REMOTE1, etc.):

B8. If cc m	B8. 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 measurements? If NO, provide as an exhibit, a technical analysis showing compliance with two-degree spacing policy.	ith geostationary satellites, do(es) the propose (b) as demonstrated by the manufacturer's quig compliance with two-degree spacing policy.		× YES	ON [
B9. If (F.	B9. 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 measurement?	FSS), or if they operate in the Fixed Satellite Servi comply with the antenna gain patterns specified in ication measurement?	Satellite Service s specified in	☐ YES	ON [N/A
B10. I	B10. Is the facility operated by remote control? If YES, provide the location and telephone r	and telephone number of the control point.	point.	☐ YES	NO 🖂	
	Remote Control Point Location:		-			
	B10a. Street Address					,
	B10b. City B10c. County		B10.d. State/Country	B10e. Zip Code		· ·
	B10f. Telephone Number	310g. Call Sign of Contr	B10g. Call Sign of Control Station (if appropriate)			
					•	
B11.1	B11. Is frequency coordination required? If YES, attach a frequency coordination report as an exhibit	an exhibit.		T XES	ON 🖂	
B12. I	B12. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as an exhibit.	ies)		TYES	ON 🛚	
B13.]	B13. FAA Notification - (See 47 CFT Part 17and 47 CFT 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?	eted FCC Form 89 aviation?]	☐ YES	NO ×	
_	FAILURE TO COMPLY WITH 47 CFT PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION	ULT IN THE RET	URN OF THIS APPLICAT	ION		

EXHIBIT D

INTELSAT NORTH AMERICA LLC SPECIAL TEMPORARY AUTHORITY REQUEST EARTH STATION KA258 IOT SERVICES FOR INTELSAT 16 SATELLITE

Exhibit D

FCC Form 312, Response to Question 36: Cancelled Authorizations

Intelsat North America LLC ("Intelsat") has never had an FCC license "revoked."

However, on June 26, 2000, the International Bureau "cancelled" two Ka-band satellite authorizations issued to PanAmSat Licensee Corp. ("PanAmSat"), a sister company of Intelsat, based on the Bureau's finding that PanAmSat had not satisfied applicable construction milestones. See PanAmSat Licensee Corp., Memorandum Opinion and Order, DA 00-1266, 15 FCC Rcd 18720 (IB 2000). In that same order, the Bureau denied related applications to modify the cancelled authorizations. PanAmSat filed an application for review of the Bureau's decision, which the Commission denied, and subsequently filed an appeal with the United States Court of Appeals for the District of Columbia Circuit, which was dismissed in January 2003 at PanAmSat's request. Notwithstanding the fact that the Bureau's action does not seem to be the kind of revocation action contemplated by question 36, Intelsat is herein making note of the decision in the interest of absolute candor and out of an abundance of caution. In any event, the Bureau's action with respect to PanAmSat does not reflect on either PanAmSat's or Intelsat's basic qualifications, which are well-established and a matter of public record.