

EXHIBITS FOR LICENSE RENEWAL FOR WA2XGY

1. Continuing Waiver Request (if required)

If it is deemed necessary in order to renew this authorization, ABC Radio Network, Inc., hereby seeks any waiver required to continue to operate an INMARSAT terminal within the boundaries of the United States in event such INMARSAT operation is excluded due to the AMSC satellite operation. ABC Radio owns and operates an INMARSAT B terminal and an INMARSAT A terminal with high speed data option. These terminals are used primarily during breaking news stories and only when no other means of transmission are available. These events have included hurricanes, earthquakes, and plane crashes. Nearly all of ABC's transmissions at these events are by means of high speed data at 56 kbps or 64 kbps. Using this transmission mode, ABC Radio is able to transmit an audio signal of much higher quality than otherwise possible and provide better coverage to the radio listening audience.

ABC personnel spoke to representatives of AMSC prior to last renewal in 1998 about migrating over to their service and were advised firmly that AMSC would not provide a high speed data service, thus making the AMSC service not acceptable as a replacement for INMARSAT services for the purposes of ABC Radio. ABC has had no further contact with AMSC as a result.

2. Radiation Hazard Studies

Since the two terminals owned by ABC Radio are quite different, separate radiation hazard studies have been provided for each of the two terminals. The exhibit labeled WA2XGY covers the INMARSAT B terminal and the exhibit labeled KM2XFF covers the INMARSAT A terminal, which was included under this authorization by the terms of the last renewal.

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Exhibit 1
Radiation Hazard Summary Table
 "B" INMARSAT Terminal

WA2XGY

<u>Region</u>	<u>Calculated Radiation Level</u> (mW/cm ²)	<u>Hazard Assessment</u>
Far Field, $R_f = 2.0$ m	4.13	Not considered a Potential Hazard for operating personnel. Potential Hazard for non operating personnel (site control required at each deployment to ensure that the area is not accessible to non operating personnel, warning signs will be posted)
Near Field, $R_n = 0.8$ m	15.9	Potential Hazard for operating personnel (site control required at each deployment to ensure that the area is not accessed by operating personnel unless power is off, warning signs will be posted) Potential Hazard for non operating personnel (site control required at each deployment to ensure that the area is not accessible to non operating personnel, warning signs will be posted)
Transition Region, R_t $R_n < R_t < R_f$	< 15.9	Potential Hazard for operating personnel (site control required at each deployment to ensure that the area is not accessed by operating personnel unless power is off, warning signs will be posted) Potential Hazard for non operating personnel (site control required at each deployment to ensure that the area is not accessible to non operating personnel, warning signs will be posted)
Between Main Reflector and Sub-Reflector	NA	NA
Reflector Surface	5.31	Potential Hazard for operating personnel (site control required at each deployment to ensure that the area is not accessed by operating personnel unless power is off, warning signs will be posted) Potential Hazard for non operating personnel (site control required at each deployment to ensure that the area is not accessible to non operating personnel, warning signs will be posted)
Between Antenna and Ground	< 5.31	Potential Hazard for operating personnel (site control required at each deployment to ensure that the area is not accessed by operating personnel unless power is off, warning signs will be posted) Potential Hazard for non operating personnel (site control required at each deployment to ensure that the area is not accessible to non operating personnel, warning signs will be posted)

CONCLUSION: Based on the above analysis it is concluded that harmful levels of radiation will not exist in regions occupied by the public or the earth station's operating personnel. The earth station is marked with the standard radiation hazard warnings warning personnel to avoid the area in front of the reflector when the transmitter is operational. At each deployment of this transportable earth station appropriate site control measures will be taken to ensure that the area in front of the antenna and around the antenna is not accessible to non operating personnel. The appropriate measures will always include the posting of warning signs along with other markings and temporary access control measures as required. Additionally, access to the earth station will be controlled by the operating personnel. To ensure compliance with the safety limits, the earth station transmitters will be turned off whenever maintenance and repair personnel are required to work in an area where the radiation level exceeds the level recommended by applicable guidelines.

Exhibit 1 WAZXGY
Radiation Hazard Summary Table
 "A" **INMARSAT Terminal** (FORMER KM2XFF)

<u>Region</u>	<u>Calculated Radiation Level (mW/cm²)</u>	<u>Hazard Assessment</u>
Far Field, $R_f = 7.4$ m	0.73	Not considered a Potential Hazard for operating personnel. Not considered a Potential Hazard for non operating personnel.
Near Field, $R_n = 3.1$ m	4.53	Not considered a Potential Hazard for operating personnel. Potential Hazard for non operating personnel (site control required at each deployment to ensure that the area is not accessible to non operating personnel, warning signs will be posted)
Transition Region, R_t $R_n < R_t < R_f$	< 4.53	Not considered a Potential Hazard for operating personnel. Potential Hazard for non operating personnel (site control required at each deployment to ensure that the area is not accessible to non operating personnel, warning signs will be posted)
Between Main Reflector and Sub- Reflector	NA	NA
Reflector Surface	1.41	Not considered a Potential Hazard for operating personnel. Potential Hazard for non operating personnel (site control required at each deployment to ensure that the area is not accessible to non operating personnel, warning signs will be posted)
Between Antenna and Ground	< 1.41	Not considered a Potential Hazard for operating personnel. Potential Hazard for non operating personnel (site control required at each deployment to ensure that the area is not accessible to non operating personnel, warning signs will be posted)

CONCLUSION: Based on the above analysis it is concluded that harmful levels of radiation will not exist in regions occupied by the public or the earth station's operating personnel. The earth station is marked with the standard radiation hazard warnings warning personnel to avoid the area in front of the reflector when the transmitter is operational. At each deployment of this transportable earth station appropriate site control measures will be taken to ensure that the area in front of the antenna and around the antenna is not accessible to non operating personnel. The appropriate measures will always include the posting of warning signs along with other markings and temporary access control measures as required. Additionally, access to the earth station will be controlled by the operating personnel.