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January 18, 2001

VIA HAND DELIVERY

Magalie Roman Salas, Esq.
Secretary
Federal Communications Commission
445 Twelfth Street, S.W.
Washington, DC 20554

RECEIVED

JAN 18 2002

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Attn: International Bureau – Satellite and Radiocommunication Division

Re: Transmit/Receive Earth Station E890217
Request for Amendment and Extension of Special Temporary Authority
SES-STA-20011116-02183

Dear Ms. Salas:

On behalf of Cosmos Broadcasting Corporation (“Cosmos”), we hereby request an extension of the special temporary authority (“STA”) to operate transmit/receive earth station E890217 with modified facilities pending grant of the modification of license application (File No. SES-MOD-20011106-02082). The Commission granted the STA on December 6, 2001, for a period expiring February 6, 2002. As of the date hereof, however, the modification of license application remains pending before the Commission. Thus, out of an abundance of caution, we hereby request an extension of the STA for an additional period of sixty (60) days.

Additionally, we hereby amend the STA request to specify a lower total EIRP than reported in the original STA request. Although the original STA request inadvertently specified a total EIRP of 65.3 dBW, the total EIRP of the modified facilities, in fact, is 64.3 dBW. We hereby request the amendment of the STA to specify this lower EIRP.

This request is accompanied by an Anti-Drug Abuse Act certification. Please call me if you have any questions regarding this matter.

Respectfully submitted,


Jeffrey J. Gee

Enclosure

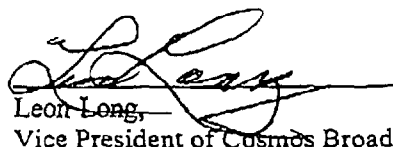
ANTI-DRUG ABUSE ACT CERTIFICATION

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. § 862, or, in the case of a non-individual 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 C.F.R. § 1.2002(b).

Yes

No

BY:



Leon Long,
Vice President of Cosmos Broadcasting Corporation

January 18, 2002
Date



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FAX TRANSMITTAL COVER SHEET

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TOTAL NUMBER OF PAGES 5, INCLUDING THIS COVER PAGE**

TO: Ms. Sylvia Lam

COMPANY: Federal Communications Commission

FROM: Jeffrey J. Gee

DIRECT DIAL: (202) 776-2357

DATE: February 6, 2002

RE: Earth Station E890217

MESSAGE: Please see attached.

** If you do not receive all of the pages, please call the Fax Center at (202) 776-2820 or Tammi Foxwell at extension 2699 as soon as possible.

Client/Matter Number: 04100.0040

Fax Number: (202) 418-7270

Verbal Confirmation Required? Yes No

Confirmation Telephone Number: (202) 418-0742

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February 6, 2002

VIA COURIER

Mr. William F. Caton
Acting Secretary
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554

Attention: International Bureau - Earth Stations
Stop Code 0800

Re: Cosmos Broadcasting Corporation Earth Station E890217
Supplement to Application for Modification of License
File No. SES-MOD-20011106-02082

Dear Mr. Caton:

Transmitted herewith, in triplicate, is a supplemental Radiation Hazard Study to be associated with the above-referenced modification application.

Please inform me if any questions should arise concerning this filing.

Respectfully submitted,


Jeffrey J. Gibb

Enclosure

cc(w/encl.):Ms. Sylvia T. Lam (FCC)

du Treil, Lundin & Rackley, Inc.

A Subsidiary of A.D. Ring, P.A.

TECHNICAL STATEMENT
RADIOFREQUENCY ELECTROMAGNETIC FIELD EXPOSURE
WLOX-TV BILOXI, MISSISSIPPI
DSNG SATELLITE TRUCK

This technical statement is prepared on behalf of television station WLOX-TV on Channel 13 at Biloxi, Mississippi. WLOX-TV wishes to employ a DSNG truck for mobile newsgathering operation. This truck is equipped with a top-mounted satellite antenna. The purpose of this technical statement is to address the radiofrequency electromagnetic field exposure caused by the use of this satellite equipment.

WLOX-TV proposes the use of a DSNG truck outfitted by Television Engineering Corporation (TEC). The satellite system located on the truck will operate in the Ku frequency band, 10.95-12.75 GHz receive and 14.0-14.5 GHz transmit. The maximum transmitter output power is 21 dBW (or 125 watts). The satellite antenna will be an Av1 1200. The antenna aperture has a circular cross section formed with a diameter of 47 inches (1.2 meters). The gain of the antenna is 43.5 dBi in transmit mode and 42.0 dBi in receive mode (midband). The minimum height above ground level is 9 feet-6 inches (113.75 inches) from the dish edge and 11 feet-7 inches (138.5 inches) from the center of the main beam. The minimum heights occur when the dish is deployed.

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Employing the formulas provided in OET Bulletin 65 and the above equipment parameters, the maximum near-field on-axis (main beam) power density was calculated.¹ Using a typical maximum aperture efficiency of 0.75, the maximum on-axis near-field power density is 332 watts per square meter or 33.2 milliwatts per square centimeter (mW/cm^2).

According to OET Bulletin 65, "For off-axis calculations in the near-field, if the point of interest is at least one antenna diameter removed from the center of the main beam, the power density would be at least a factor of 100 (20 dB) less than the value calculated for the equivalent distance in the main beam." Therefore, for an on-axis near-field power density of $33.2 \text{ mW}/\text{cm}^2$ (as calculated above), the maximum off-axis power density would not exceed $0.332 \text{ mW}/\text{cm}^2$. From the Commission's RF exposure guidelines, the maximum permissible exposure value in the Ku Satellite frequency band for an uncontrolled environment is $1.0 \text{ mW}/\text{cm}^2$. Therefore, the use of the WLOX-TV DSNB satellite truck will not produce radiofrequency exposure in excess of the Commission's guideline value to individuals located more than 47 inches (1.2 meters) from the center of the main (on-axis) beam.

As noted above, the minimum height of the deployed roof-top satellite dish main beam is 9 feet-6 inches (113.75 inches) above ground level. This distance is greater than the minimum 47-inch exposure distance calculated above. Therefore, the general population at

¹ OET Bulletin 65, Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields, Edition 97-01, August 1997.

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ground level will not be subject to excessive radiofrequency exposure. Furthermore, the on-axis beam of the satellite dish will not be directed toward individuals when deployed. The DSNG truck rooftop will also be off-limits when the satellite system is in operation. Two radiofrequency warning signs are posted at the rear of the roof platform, near the ladder. Two yellow strobe lights, mounted above the warning signs, are also illuminated during satellite operation.

Based on the above, the proposed satellite operation on the WLOX-TV DSNG truck will not cause radiofrequency exposure at ground level to the general public beyond the Commission's guideline limit. In addition to compliance with OET Bulletin 65 radiofrequency exposure standards, the facility will insure compliance with ANSI exposure standards to the general public by posting radiofrequency radiation hazard symbols, and placing warning cones outside the perimeter of the truck. During operation, the facility will be off-limits to the general public. When maintenance is being performed on the truck, the transmitter will be turned off.

Charles A. Cooper

February 6, 2002

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