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Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

JUL 11 2005

Federal Communications Commission
Office of Secretary

In the Matter of)	
)	
Globalstar LLC)	File No. SAT-MOD-20050301-00054
)	
Request for Authority to Implement an)	
Ancillary Terrestrial Component for the)	
Globalstar above 1 GHz, or Big LEO,)	
Mobile Satellite Service (MSS) System)	
(Call Sign ES211))	
)	
Globalstar USA, LLC)	File No. SAT-MOD-20050301-00261
)	
Application for Modification of Blanket)	
License Authorization for Mobile Earth)	
Station Terminals (Call Sign E970381))	

To: The Commission

**Response to Reply of Globalstar to the Informal Objection of the Society of
Broadcast Engineers, Inc.**

The Society of Broadcast Engineers, Incorporated (SBE), the national association of broadcast engineers and technical communications professionals, with more than 5,000 members world wide, hereby respectfully submits its Response to the May 26, 2005, *Reply of Globalstar LLC and Globalstar USA, LLC* ("Globalstar Reply"). This Globalstar Reply was to the May 16, 2005, SBE Informal Objection ("SBE Informal Objection") to the March 1, 2005, Globalstar applications for Mobile Satellite Service (MSS) Ancillary Terrestrial Component (ATC) stations, ES211 and E970381.

I. The Globalstar Reply Does Not Address the Concerns Raised by SBE

1. The Globalstar Reply fails to address the interference concerns documented in the SBE Informal Objection; rather, Globalstar asks the Commission to ignore the obvious mutual exclusivity of grandfathered Channel A10 (2,483.5–2,500 MHz) TV Broadcast Auxiliary Service (BAS) operations in at least seven of the top-ten U.S. cities in which Globalstar proposes to first deploy its system of Mobile Satellite Service (MSS) Ancillary Terrestrial Component (ATC) base stations.

**SBE Response to the Globalstar Reply to the SBE Informal Objection to the
Globalstar MSS ATC Applications (ES211 and E970381)**

2. The Globalstar Reply incorrectly claims that no party has opposed its MSS ATC applications on the merits. In fact, the SBE Informal Objection, and the May 16, 2005, Wireless Communications Association International, Inc. ("WCA") filing, precisely provided their respective oppositions based upon the merits of Globalstar's applications. The WCA comments pointed out potential problems between cellular-like BRS Channel 1 operations at 2,496–2,502 MHz with MSS ATC cellular operations at 2,487.5–2,493 MHz. However, whereas the MSS ATC-BRS1 conflict is an adjacent-channel problem, which is solvable if sufficiently stringent emission masks are employed by both MSS ATC and BRS1 transmitters, in concert with sufficiently selective MSS ATC and BRS1 receivers, the conflict between co-channel mobile TV Pickup BAS operations on Channel A10 has no solution. Rather, it is impossible for Channel A10 TV Pickup operations and MSS ATC operations to share the same spectrum in the same area at the same time.

3. The Globalstar MSS ATC applications failed to acknowledge the existence of co-channel grandfathered Channel A10 TV BAS operations, let alone propose a solution to that conflict. The Globalstar Reply claims that its MSS ATC operations, if authorized, would comply with all applicable Commission Rules in connection with ATC services, but that is an impossible promise. Since grandfathered Channel A10 TV BAS operations exist on a co-primary basis with MSS, and since those TV Pickup stations were licensed for service areas prior to the existence of MSS ATC base stations, then MSS ATC base stations are obligated to protect the earlier-in-time TV BAS operations. But, for mobile TV Pickup stations, that means protecting their entire authorized service area. The only practical¹ solution requires mutual exclusivity between co-channel MSS ATC base stations and TV Pickup operations within the same geographical area.

4. This required protection of TV Pickup operations is further complicated by the current inability of the Commission's Universal Licensing System (ULS) to allow TV Pickup licensees to document the location(s) and height(s) of their electronic news gathering (ENG) central receive sites, also known as ENG receive-only sites, in a manner that would be searchable around a specified set of geographic coordinates.²

¹ There are many impractical ways to accomplish such frequency sharing, though. For example, Globalstar could give remote control shut down authority to all grandfathered Channel A10 TV Pickup licensees in a build out area that overlaps any portion of the licensed operational area of the Channel A10 TV Pickup station. TV Pickup stations would then have the power to shut down the MSS ATC system in their operational area whenever the earlier-in-time TV BAS Channel A10 was needed. But, somehow, SBE doubts that Globalstar would find this to be an acceptable solution.

² It should be noted that SBE asked the Commission to make this change to the ULS in its ET Docket 01-75 comments, but that request was dismissed as being outside the scope of the rulemaking. Since the scope of the ET 01-75 rulemaking was a general updating and harmonizing of the Part 74 BAS rules, SBE was

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II. Summary

5. Globalstar would have the Commission ignore the obvious conflict between co-channel TV BAS Channel A10 stations at 2,483.5–2,500 MHz and MSS ATC base stations at 2,487.5–2,493 MHz. Co-channel MSS ATC operations must not, and cannot, be allowed, until grandfathered TV BAS operations on Channel A10 have first been cleared from 2,487.5–2,493 MHz. The November 19, 2004, SBE *ex parte* comments to IB Docket 02-364 proposed an elegant solution to the conflict, where the three 2.5 GHz TV BAS channels would be re-farmed to three 12 MHz wide digital channels, in a two-step process. In Step 1, TV BAS Channels A8 and A9 would be narrowed in place, and TV BAS Channel A10 would be shifted downwards by 2.25 MHz, thus eliminating the conflict with BRS Channel 1. In Step 2, TV BAS Channels A8, A9 and A10 would be re-packed, starting at 2,450 MHz, thus making the top end of the new TV BAS Channel A10d 2,486 MHz. This would then provide a 1.5 MHz guard band between the top end of TV BAS Channel A10d and the bottom of the MSS ATC band. The co-channel conflict would be solved, and TV BAS, MSS ATC, and BRS would be free to pursue their respective goals. SBE therefore implores the Commission not to create a spectrum incompatibility "train wreck." Instead, MSS ATC must wait a while longer on a side track, until the way can be made clear for its own right-of-way.

surprised by this course of action by the Commission. SBE has since been attempting to informally work with Commission staff to get this capability added to the ULS, but so far with little success.

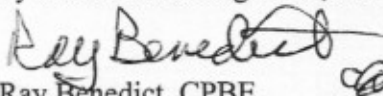
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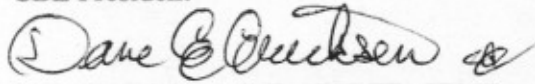
List of Figures

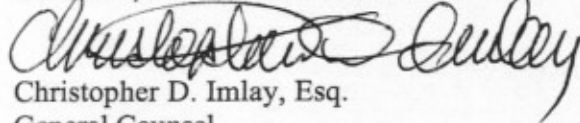
6. The following figures or exhibits have been prepared as a part of this SBE Response to the Globalstar Reply to the SBE Informal Objection to the Globalstar ES2115 and E970381 applications for MSS ATC:
1. SBE 2.5 GHz TV BAS band plan, from the November 19, 2005, SBE *ex parte* filing to IB Docket 02-364.

Respectfully submitted,

Society of Broadcast Engineers, Inc.


/s/ Ray Benedict, CPBE
SBE President


/s/ Dane E. Ericksen, P.E., CSRTE, CBNT
Chairman, SBE FCC Liaison Committee

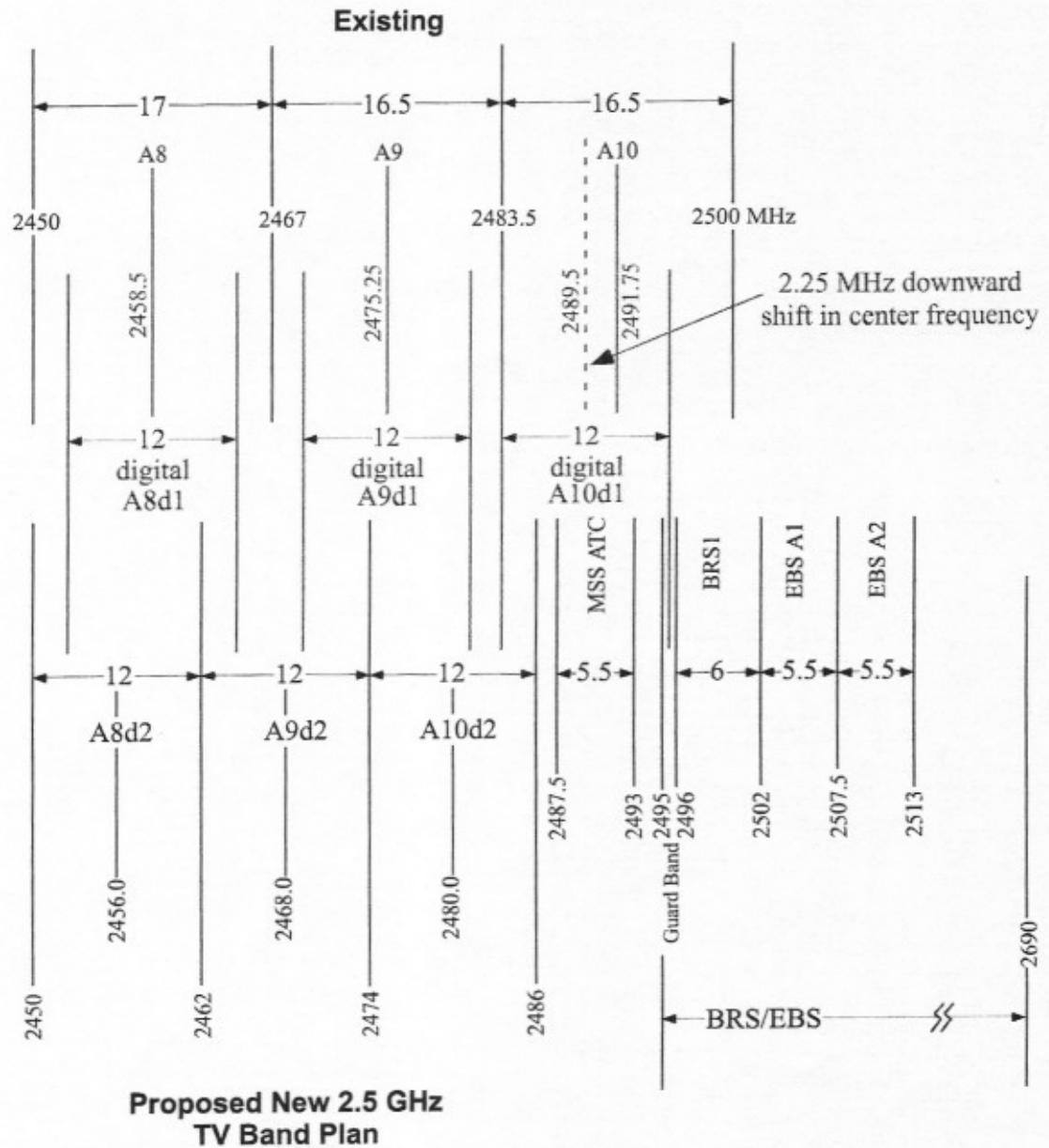

/s/ Christopher D. Imlay, Esq.
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July 11, 2005

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**SBE Response to the Globalstar Reply to the SBE Informal Objection
to the Globalstar MSS ATC Applications (ES211 and E970381)**

**Proposed SBE 2.5 GHz TV BAS Band Plan
(From the November 19, 2004, SBE IB 02-364 *ex parte* Filing)**



All frequencies and bandwidths are in MHz.



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SOCIETY OF BROADCAST ENGINEERS, INC.
Indianapolis, Indiana

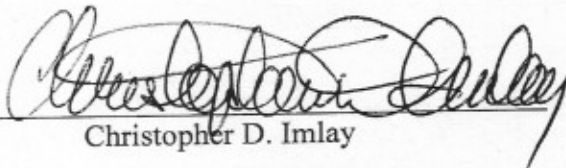
CERTIFICATE OF SERVICE

I, Christopher D. Imlay, do hereby certify that I caused to be mailed, via first class U.S. Mail, postage prepaid, a copy of the foregoing RESPONSE TO REPLY OF GLOBALSTAR TO THE INFORMAL OBJECTION OF THE SOCIETY OF BROADCAST ENGINEERS, INC., to the following, this 11th day of July, 2005.

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* Via Courier