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From: Nalda, Carlos M.
Sent: Friday, April 15, 2011 4:20 PM
To: Paul Blais
Cc: 'cnalda@ssd.com'
Subject: FW: KVH V3 License Document - Administrative Modifications
Importance: High

Paul:

Given the complexity, your staff did a fanatastic job in streamlining the KVH ESV license. There are a few minor adjustments to the license document that appear necessary to address a few issues. The actual changes are in **BOLD BLUE** with explanation in parentheses.

Thanks very much!

Best,
Carlos

Page 1

Class of station; Earths Stations on-board **Vessels** (consistency)

A) Site Location(s)

2) ESV NET2 (MOBILE 0.37METER)
VARIOUS, 1000 UNITS (consistency)

B) Particulars of Operation

9) 14000.0000 - 14500.0000..... Max. EIRP Denistity **-1.52**
(See p. 11 of Application Narrative and form - this should be negative)

D) Point of Communications

1) **ESV NET1 and ESV NET2** to GE-23....

2) **ESV NET1 and ESV NET2** to All.....

(both ESV types communicate with GE-23 and ALSAT)

E) Antenna Facilities

ESV NET2
Manufacturer **KVH INDUSTRIES, INC.**
Site Elevation **0.0** (consistency)

F) Remote Control

5/19/2011

ESV NET1 **6155 EL CAMINO REAL
CARLSBAD, SAN DIEGO, CA 92009
760-476-2583**

CALL SIGN **VARIOUS**

ESV NET2 **6155 EL CAMINO REAL
CARLSBAD, SAN DIEGO, CA 92009
760-476-2583**

CALL SIGN **VARIOUS**

(consistency, all operations controlled from Carlsbad through several different hubs - FCC should call control center at Carlsbad regardless of hub)

H) Special and General Conditions

Replace Special Condition 300 (duplicative of 355) with:

With respect to antenna size and pointing accuracy, licensee is authorized to operate in accordance with Article 4.4 of the ITU Radio Regulations. The operations authorized herein shall not cause harmful interference to, and shall not claim protection from harmful interference caused by, a station operating in accordance with the provisions of the ITU Constitution, the ITU Convention, and the ITU Radio Regulations. The operations authorized herein are otherwise consistent with ITU provisions.

(Article 4.4 provision)

Special Condition 358 :

KVH shall operate a maximum of 7 **ESV NET 1** antennas transmitting simultaneously in the same satellite receiving beam. **KVH shall operate a maximum of 13 ESV NET 2 antennas (36 MHz bandwidth) or 6 ESV NET 2 antennas (18 MHz bandwidth) transmitting simultaneously in the same satellite receiving beam.** All operating ESVs must be monitored, and operations adjusted if necessary, to ensure that no more interference in the geostationary plane is caused by the entire network of ESVs at any time (accumulating the interference caused by all correctly pointed and all mispointed ESV antennas) than would be caused by a single earth station transmitting in compliance with Sections 25.222(a)(1)(i)(A)-(C) of the Commission's rules, using N=1.

(See Application at 11-13. N=7 for V7 (ESV NET1); other values for N for V3 (ESV NET2)).

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