

**From:** Monica Roos ES-STO  
**Sent:** Monday, October 18, 2004 10:07 AM  
**To:** Roland Gubisch ES-Box  
**Cc:** Danielle Fontaine ES-Box  
**Subject:** SV: Avitec FCC ID: PRQCSFT1922

Dear Roland,

I hope everything is fine with you.

Today the client provided me with the requested items stated below for the application with FCC ID: PRQCSTF1922

1. DC power to the final stages: 60 W (for each amplifier "LIMPA" (two channels)).
2. Corrections has been made to Form 731 according to your instructions. Please see attached the revised Form 731.
3. The use of the term "Extender" is accepted by the Avitec.

You wrote following in an e-mail sent 6 October 2004:

"Thank you. We also need to specify in the Grant if the power measured in the test report is the same per channel for either one or two channel systems; or if the total power is derated for 2-channel systems."

Answer: The measured power stated in the test report is the same per channel.

I hope our comments will satisfy you, if not please let me know what is missing or incorrect.

Please send me a copy of the Grant when it has been issued.

Have a nice day!

*Vänliga hälsningar / Best regards*  
*Monica Roos*

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**Från:** Roland Gubisch ES-Box  
**Skickat:** den 5 oktober 2004 17:46  
**Till:** Monica Roos ES-STO  
**Kopia:** Danielle Fontaine ES-Box  
**Ämne:** Avitec FCC ID: PRQCSFT1922

Dear Monica,

Review of this application is complete, and certification can proceed pending these administrative items:

1) Information on DC power into final RF stages, per CFR47 2.1033(c)(8), cannot be found. Please indicate where it is located, or provide.

2) The Form 731 lists several items which should be amended to agree with the test report:

- The listed frequency range should be from the center of the lowest operating channel to the center of the highest operating channel, rather than at the block edges. Therefore,

the operating frequency bands should be 1850.2-1909.8 and 1930.2-1989.8. This also agrees with the test report.

- the FCC emission designator convention for US EDGE is 300KG7W, and for US GSM is 300KGXW. The necessary bandwidth of 300 kHz agrees with the test report.
- Power output depends on the frequency block, and can exceed the 20W listed in the Form 731. A draft Grant is attached, showing the proposed listing of frequency and power outputs for both US EDGE (300KG7W) and GSM (300KGXW) emission types.

3) The FCC classifies this two-way equipment as an "extender" rather than a "repeater" (see definitions below). Therefore, the "note" in the Grant has been amended to use the term "Extender." If this is not an acceptable change, the term "extender" will be added elsewhere in the Grant.

Thank you,

Roland

<Fil: Draft Grant Notes.doc >>

### **FCC DEFINITIONS**

AMP Placed between a transmitter and antenna.

BOOSTER Two antennas, receive, amplifies and transmit on the same frequency in one direction.

REPEATER Two antennas, receive, amplifies and transmit on a different frequency in one direction (Does not demodulate signal to baseband, treat these as tx's)

EXTENDER Two way repeater or booster. Mostly boosters (same frequency).