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8 August 2008

Federal Communications Commission
Office of Engineering and Technology Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046-1609

In regard to questions posed for Equipment Certification Application:

FCC ID: HFLNV8300FLO
Form 731 Confirmation Number: EA530393
Correspondence Reference Number: 35903 (dated 29 July 2008)

Each question is listed below in bold italics with the response following.

“1) Cover letter says 470-860 MHz, however form-731 has 686-806 MHz - please revise all relevant parts of filing for consistency where appropriate (see also KDB 634817).”

The cover letter (actually the Form 721 Filing Overview for NV8300) listed the absolute operating frequency range of the transmitter equipment, exclusive of the fixed-tuned channel filter, and not the frequency range requested for this Certification filing. That has been changed and the revised document submitted as part of this response.

It should be noted that references to the broader frequency range of 470-mHz to 860-mHz remain in the General Specifications exhibit and in the included manuals as it remains appropriate as referenced in those documents.

“2) Form-731 has part 27 for 686-698 MHz, however 2.106 does not show part 27 for this band - per KDB 634817, please revise all relevant parts of filing where appropriate.”

There appears to be no method to revise Form 731 after it is submitted. If there is a method please advise as to how to make changes. Otherwise if you could please revise Form 731 to show the requested frequency range for Certification for operation under Part 27 of the Rules to be from 698-mHz to 746-MHz we would be grateful.

“3) Form-731 has part 27 for 763-775 MHz, however 2.106 does not show part 27 for this band - per KDB 634817, please revise all relevant parts of filing where appropriate.”

Corrective action for items 1 and 2 above will resolve this discrepancy.

“4) Form-731 has part 27 for 793-805 MHz, however 2.106 does not show part 27 for this band - per KDB 634817, please revise all relevant parts of filing where appropriate.”

Corrective action for items 1 and 2 above will resolve this discrepancy.

“5) FYI form-731 has six different line-entry power levels (300-1800 W), which are achieved by populating from one to six 300 W amplifier "modules" (per test rept "page 8 / 23", nominal 275 W, max 320 W; see also block diagram "page 10 / 33" therein).”

Form 731 was filled out using the information from the preliminary NV8306V System Manual. While the power levels shown on the Form are quite acceptable as they set maximum power limits well within the capabilities of each size transmitter, it would be more accurate to change them as follows:

Transmitter Model	Output Power (as listed on Form 731)	Output Power (as listed on Siemens lab report)	Transmitter Model	Output Power (as listed on Form 731)	Output Power (as listed on Siemens lab report)
NV8301E/V	300-watts	320-watts	NV8304E/V	1,200-watts	1,280-watts
NV8302E/V	600-watts	640-watts	NV8305E/V	1,500-watts	1,600-watts
NV8303E/V	900-watts	960-watts	NV8306E/V	1,800-watts	no change

Again, please provide instructions for editing Form 731 after submittal. If such editing is not possible then we would very much appreciate it if you could make those changes to the form.

“6) Please ensure filing is in accordance with KDB 754507, i.e., testing done with maximum number of amps installed etc - i.e., ensure six amps installed for testing in this filing, or please revise all relevant parts of filing where appropriate.”

The transmitter that was tested included the maximum compliment of six amplifiers and was adjusted for maximum power output as per the NV8306E/V System Manual. The testing laboratory’s revised measurement report B0AK0001 has been edited to reflect that fact. A copy of that revised document has been submitted as part of this response. Please refer to *Section 4.3 Operating Conditions*, on page 13 of that document.

“7) Please ensure test report includes measured maximum conducted output power, per 2.1033(c)(6),(7),(9) and 27.50(b)(11), as appropriate.”

The testing laboratory’s revised measurement report B0AK0001 now indicates that it references power measurements in accordance to 47CFR2.1033(c) in *Section 1 Summary, Table 1.1.2 Transmitter Output Power* on page 4. Average power measurement and the method used to arrive at same is presented in more detail in *Section 6.2.3 Average Output Power* of the measurement report starting on page 28.



“8) If part 73 or part 74 are not applicable, please use equipment class TNB not TBC.”

Parts 73 and 74 of the Rules are not appropriate for this application so Form 731 should be revised to show the correct class of equipment.

It should be noted that power measurements have been listed for the transmitter under test both before and after the channel filter. This is because there are several different channel filters available to use with the transmitter as described in the Application. While the overall response curves of each filter type are very similar to one another the insertion loss can vary from model to model, and even from unit to unit of the same model type. For that reason the power setting for an individual transmitter should always be determined before the filter to insure that it is not operated beyond its capability in any given individual transmitter/filter combination.

One last item to note is that while reviewing the Application it was discovered that the wrong Myat filter data was submitted for one of the alternate filter types. While the Myat filter for which the data was submitted is acceptable for operation, a smaller, lower power filter unit was desired to be included. The data for the smaller filter is being included with this reply to become part of the Certification. If it is not possible to do so at this time please advise us of same.

Thank you very much for your consideration in this matter. If you have further questions please do not hesitate to contact me.

Respectfully submitted,

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Enclosures / Attachments

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