KLCC 89.7

May 16th, 2013

Federal Communications Commission
Media Bureau, Audio Division
445-12th Street, SW
Washington, DC 20024

Re: Lane Community College, licensee of Non-Commercial KLBR, Bend, OR. Request for Special Temporary Authority, Reduced power operation

Dear Audio Division:

As mentioned in the previous reduced power operation letter dated May 6th, 2013, the KLBR transmitter has been operating at 38% power since April 28th 2013. Seven RF amplifier modules out of ten are either not functioning or operating at half power. To expedite repairs and save funds, the repair will be attempted ourselves. The manufacturer (Broadcast Electronics) can repair the modules if necessary but at considerable cost and a three to four week lead time. The manufacturer recommends that a maximum of three modules can be removed from the transmitter at one time.

Since the last letter to the Audio Division:

* Four transistors have been ordered and received (each module utilizes two)
* A suitable 48 volt high current power supply was borrowed
* Dummy load located
* DB13w3 style connectors have been located to interface to the modules for testing. One connector remains to be located or fabricated.
* The manufacturer has been contacted to explain possible reasons for this catastrophic failure. Their answer: age (8 years), ran without proper cooling fans for 3 years when converted to IBOC operation by the manufacturer

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themselves in a field call, and a possible incorrect setting in the exciter which could lead to a momentary high RF level output upon power restart that can destroy the gates of the mosfet transistors.

* Currently, two modules are at the studio ready for repair once a suitable power connector is found or fabricated.
* If our own repair is successful, more transistors will be ordered to repair the other 5 modules. Any that cannot be repaired by us will be sent to Broadcast Electronics.
* One power supply module out of five was also damaged and has been shipped back to the manufacturer (Pioneer Magnetics) for repair. It was sent May 10th and will take about 6 weeks for repair.

The transmitter site is located 3.5 hours from the studio which also adds to the difficulty, as a full day is required to swap out modules. Because of the sheer number of modules that need repair, and manufacturer repair lead time, and our own setup and repair time, we request a Special Temporary Authority to continue operation below 90% power output for at least 90 days to complete repairs. Note that as modules are repaired and replaced, power output can increase incrementally.

Respectfully submitted,

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