

To: Steve Behm
From: Martin Perrine mperrine@fcc.gov
FCC Equipment Authorization Branch

Re: FCC ID: NEOCCE-480N4

Applicant: Aerial Facilities Limited
Correspondence Reference Number: 8124
731 Confirmation Number: TC987964
Date of Original Email: 05/02/2003

Subject: Request for additional information

1) Per April Telecon with TCB CKC the FCC understands that units are interconnected by fiber optic cables. As such this device should be treated as TNBs. Please revise Form 731 and submit full TNB test data accordingly.

Also, please revise exhibits to remove non related entries such as additional units in the block diagrams and schematics.

Please see uploaded block diagram. All schematic diagrams provided pertain to this device.

2) Please update the Form 731 to include the "part of a system" selection/check box. An associated grant comment should be provided referring to the related components.

ok

3) When connected together with other units the systems seems made up of 5 devices yet only 3 have grants. UHF 1, UHF 2, and 800 MHZ BPA have grants.

However, UNIT 1 and UNIT 2 do not appear to have grants. UNIT 1 and UNIT 2 are needed in all operating configurations mentioned in the user manual and should have associated grants.

Unit 1 and Unit 2 are used underground at the remote location. The downlink is into a confined space and not tested. The uplink signals injected at UHF 1 and UHF 2 are the maximum levels received from units 1 and 2. The UHF 1 and UHF 2 have ALC in the channel modules to keep the output power constant over a 30dB increase in input level.

4) Grants say outdoor use only but the user manual also mentions indoor use.

Please clarify and update accordingly.

This equipment is used in outdoor trackside cabinet locations and is sealed to Nema 4 category. It can be mounted externally or within a protected environment. The off-air equipments will always be connected to external antenna systems to gather signals from the donor radio sites.

5) Details should be given of how power will be limited to the levels measured since the device appears to have the capability of much higher powers.

All uplink paths are fitted with channel modules to ensure only the wanted frequencies are amplified from the tunnel locations. Each channel module has it's own ALC, which has been set to ensure the wanted power is available at the antenna port. The ALC function ensures that the output power cannot exceed that requested by the customer or tested by Nemkona. The size of the amplifiers fitted ensures a good margin of spare overhead between the IMs generated and the FCC limits

of -13dBm. Note: products of this type have been tested to meet ETSI requirements of -36dBm.

6) Additional RT correspondence may be required based on review of the response to the above.

Agreed.

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of the original e-mail date may result in application dismissal pursuant to Section 2.917(c).