



Nemko

11696 Sorrento Valley Rd.

San Diego CA, 92121

USA

11-20-08

The client provided justifications for Part 15 repeaters requirements as outlined under KDB 662614 dated 04/02/2007:

1. The repeater must only transmit signals that are uniquely identified as originating from the transmitter, or set of transmitters, with which the repeater is authorized to operate.

**Client justification:** *The EUT must be registered into a network before it will transmit any signals. A proprietary, key-locked protocol and addressing system are used to ensure that no devices other than approved devices are interoperable.*

2. A Part 15 repeater must comply with all requirements under the rule part applied for, regardless of the input signal. Tests must show compliance with maximum input levels, for each transmitter with which the repeater is authorized to operate.

**Client justification:** *Identical circuitry guarantees equivalent performance to the transmitter. Testing verifies repeater complies with all requirements.*

3. A Part 15 repeater Frequency Hopping Spread Spectrum (FHSS) System operating under Section 15.247 must also meet the receiver requirements in Section 15.247(a)(1). A FHSS repeater must have input bandwidths that match the FHSS transmit bandwidth, and must hop in synch with the FHSS transmitter.

**Client justification:** *Identical circuitry ensures identical performance with transmitter and receiver. System protocol ensures all devices on the network hop in sync at all times.*

4. The Grant of Authorization for a Part 15 repeater must list the FCC IDs for all the transmitters with which it is authorized to operate. Additional transmitters can be added through a Class II permissive change, provided that test data is submitted for each new transmitter. A Grant will then be re-issued approving the additional transmitter FCC IDs.

AVA AK VUE CAMERA: WD9VC2MP

AVA AK VUE GATEWAY: WD9VG100T

A stand alone Part 15 amplifier or device that does not uniquely identify the specific signals from transmitters with which it is authorized to operate can only be authorized as a complete transmission system per Section 15.204. Such a device can only be operated in the configuration in which it was authorized, and an equipment authorization for the device will not be issued with a unique FCC ID.

**Client justification:** *The submitted repeater works only with the registered network, using a specific proprietary protocol and addressing system.*

A handwritten signature in black ink, reading 'Douglas F. Shepherd'.

Name: Douglas Shepherd

Position: Sr Electrical Engineer

Company: Avaak Inc.