

# **NJIAL200 EXHIBIT 13 “Operational Description” for “Emissions Designators”**

**This exhibit is submitted to comply with the submission requirements of the FCC 47 CFR section 2.201:**

“The following system of designating emission, modulation and transmission characteristics shall be employed.....”

**Submission examination in detail on FCC 47CFR section 2.201:**

**Whereas the “Emissions Designations” as shown below conforms to the cellular telephone emissions designations, and is also shown to be correct by reference to section 2.201, the requirement is evidenced.**

# **FCC Emissions Designators for AssetLink 200 (NJIAL200)**

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**The designators applied for in the FCC application for  
AssetLink 200 (NJIAL200)) are:**

<b>40K0F1D</b>
<b>40K0F8W</b>

Per instruction (g) of 47CFR2.201, the necessary bandwidth is to be included before these designators for the full designation.

Per instructions (a) through (f) of 47CFR2.201 the first, second and third symbols are included. The two types cellular communications channels are used, they are denoted Control Channel and Communications Channel and each is examined in detail on pages 2 and 3.

## Control Channel:

Necessary bandwidth is +/-20 KHz, which has the symbol: 40K0

Symbol Number	Symbol Requirement	Choice	Designator
First	type of modulation of the carrier	Frequency Modulation	F
Second	nature of signals modulating the carrier	A single channel containing quantized or digital information without the use of a modulating sub-carrier, excluding time-division multiplex	1
Third	Type of information to be transmitted	Data transmission, telemetry, telecommand	D

**Designator for Control Channel: 40K0F1D**

## Communications Channel:

The Communications Channel uses Handoff Commands Communications which are telecommand at +/-20 KHz bandwidth and also Analogue Communications with FM modulation within 15 KHz bandwidth.

## Handoff Command Communications:

Necessary bandwidth is +/-20 KHz, which has the symbol: 40K0

Symbol Number	Symbol Requirement	Choice	Designator
First	type of modulation of the carrier	Frequency Modulation	F
Second	nature of signals modulating the carrier	A single channel containing quantized or digital information without the use of a modulating sub-carrier	1
Third	Type of information to be transmitted	Data transmission, telemetry, telecommand	D

## Analogue Communications:

Bandwidth necessary is 15 KHz, the wider bandwidth needed of the Handoff Commands overrides this for the symbol: 40K0

The signals being sent in this mode are the SAT (Supervisory Audio Tone) and Voice/Modem/DTMF. The SAT is an analogue signaling tone at either 5970, 6000 or 6030 Hz using a +/- 2 KHz Peak Frequency Modulation. The Voice/Modem/DTMF modulations are analog signals band limited from 300 Hz to 3 KHz and with a maximum deviation of less than +/-12 KHz Peak Frequency Modulation.

Symbol Number	Symbol Requirement	Choice	Designator
First	type of modulation of the carrier	Frequency Modulation	F
Second	nature of signals modulating the carrier	Two or more channels containing analogue information	8
Third	Type of information to be transmitted	Telephony (E) and Telemetry (D) for a combination (W)	W

**Handoff Commands Communications modulation designator is F1D plus the Analogue Communications modulation designator is F8W to give the following:**

**F:** as both modes are frequency modulation

**8:** which is a combination of nature of signals for both modes, **1** and **8** are then a "Composite system with one or more channels containing quantized or digital information, together with one or more channels containing analogue information."

**W:** this is a combination of the D and W designators.

## Designator for Communications Channel: 40K0F8W