TAC/COM 2005 Emission Designators

Analog Transmission

Emission Designator – Transmission Characteristics

Per FCC rule Chapter 47 Subpart C Part 2.201

Section (c) (3) - F

Section (d) (4) - 3

Section (e) (6) - E

Emission Designator – Necessary Bandwidth

Relevant FCC rules: Chapter 47 Subpart C Part 2.202 section (c) (1)

Section (g) Table III-A 3:

$$Bn = 2 (M+DK)$$

Section (e)

Bn - the necessary bandwidth

M - the maximum modulating frequency in Hertz

D - the peak deviation in Hertz

K - the specified constant for FM sound broadcasting, in this case K = 1

For the TAC/COM 2005 Narrow Band Mode -

M = 3000

D = 2000

Therefore Bn = 2(3000 + (2000*1)) = 10KHz

The Emissions Designator for the TAC/COM 2005 Narrow Band Analog mode is 10K0F3E

For the TAC/COM 2005 Wide Band Mode -

M = 3000

D = 4000

Therefore Bn = 2(3000 + (4000*1)) = 14KHz

The Emissions Designator for the TAC/COM 2005 Wide Band Analog mode is 14K0F3E