

FIGURE 4.20 Narrow Band Noise Metrics

BANDWIDTH	LOUDNESS	NUMBER/DURATION	OTHER	TIME OF DAY	FINAL METRIC
Pure Tone	Loudness Comparison	(Absolute) (Relative)			Loudness Level (Phons) Loudness (Sones)
One Hz (Frequency Range Specified)					Power Spectral Density PSD - (g /Hz)
One Third Octave (Standard Center Frequencies)	Zwicker Loudness Comparison	(Absolute) (Relative)			Third Octave Band Spectrum Level (dB)
	Stephens Mark VII Comparison	(Absolute Loudness) (Relative Annoyance)			Loudness Level (GF Phons) Loudness (GF Sones)
	Kryter Comparison (Noisiness)	(Relative) (Absolute)			Perceived Level (dB)
	PndB	Time Integration of Energy at .5 Sec Intervals	Onset Correction for Non Impulsive Sounds	Nighttime Penalty	Perceived Magnitude (Sones)
					Perceived Noise Level (PNdB)
					Perceived Noisiness (Noys)
					Integrated Perceived Noise Level (PNdB)
					Effective Perceived Noise Level (EPNdB)
					Noise Exposure Forecast NEF (EPNdB + C1)
					Tone Corrected Effective Perceived Noise Level (EPNdB+)
		Number of Aircraft		Nighttime Penalty	Composite Noise Rating CNR (EPNdB - C2)
			Tone Correction for Pure Tone Components		Tone Corrected Effective Perceived Noise Level (EPNdB+)
		Energy Average of Peaks			Noise and Number Index
		Number of Aircraft		Nighttime Penalty	NNI - England Isosophic Index N France
	Articulation Weighting (Speech Interference)				Articulation Index AI