Sound Propagation Model

Federal Signal Corporation utilized 'SoundPLAN', an internationally recognized noise modeling software, to estimate the Siren sound level. The SoundPLAN model is based on the International Standardization ISO 9613 and considers physical effects including geometrical divergence, atmospheric absorption, ground effect, reflection from surfaces, and screening by obstacles.

The environmental conditions applied in this noise model are based on the summertime daily averages for the area in interest include:

- **Temperature 80°F**
- **Humidity 53.50%**
- **Air Pressure 1013.30 mbar**

Siren data for this noise model includes:

SITE	SIREN	LATITUDE	LONGITUDE	HEIGHT (FT)
1 Existing	STH-10	37.066921°	-122.057032°	40'
2 New	Eclipse 8 / 2001-130	37.147620°	-122.019987°	40'
3 New	Eclipse 8 / 2001-130	37.103439°	-122.051628°	40'
4 Option	Eclipse 8 / 2001-130	37.098423°	-122.059118°	40'

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