

Acoma, LLC - East Microgrid

Ozone MERPs

Sample Calculations - NMED PSD Minor Ozone Compliance Demonstration

$$O_3 = \left(\frac{NO_x \text{ PTE (tpy)}}{340_{MERP_{NO_x}}} + \frac{VOC \text{ PTE (tpy)}}{4679_{MERP_{VOC}}} \right) \times 1.96 \frac{\mu g}{m^3}$$

Configuration 1

NOx PTE (tpy)	VOC PTE (tpy)	Ozone MERP
248.90	61.35	1.46

Configuration 2

NOx PTE (tpy)	VOC PTE (tpy)	Ozone MERP
248.27	56.58	1.45

Otero County MERPs

Precursor	MERP (tpy)
NOx MERP	413.5
VOC MERP	82121

* MERP values represent a hypothetical facility with 500 tpy of emissions and 10 m stack height.

** The hypothetical source in Otero County, NM was chosen due to proximity to the facility site.

Configuration 1

NOx PTE (tpy)	VOC PTE (tpy)	Ozone MERP
248.90	61.35	1.18

Configuration 2

NOx PTE (tpy)	VOC PTE (tpy)	Ozone MERP
248.27	56.58	1.18