

**Acoma, LLC - West 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
243.54	104.83	1.45

**Configuration 2**

NOx PTE (tpy)	VOC PTE (tpy)	Ozone MERP
249.97	119.77	1.49

**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
243.54	104.83	1.16

**Configuration 2**

NOx PTE (tpy)	VOC PTE (tpy)	Ozone MERP
249.97	119.77	1.19