

**Plain Language Summary for New Source Review (NSR) Initial
Application for Air New Source Review Permit Number 170759 and Amendment
Application for Air New Source Review Permit Number 48653**

The following summary is provided for this pending air permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

Union Carbide Corporation (UCC) (CN601688781) has submitted applications for the amendment to New Source Review permit 48653 and for initial permit number 170759. The initial 170759 permit is for the Alkoxylation Plant (RN102181526) which will produce/manufacture Polyethylene Glycol (PEG) 8000 at UCC Seadrift Operations, Seadrift, Calhoun County. The amended 48653 permit is for the Ethylene Oxide/Ethylene Glycol Plant (RN102181526) which manufactures ethylene oxide and ethylene glycol at UCC Seadrift Operations, Seadrift, Calhoun County.

Together, these permit applications will authorize the construction of a new alkoxylation plant and changes to the Ethylene Oxide/Ethylene Glycol Plant. The Alkoxylation Plant will be a grassroots facility that produces PEG 8000 as a final product. The changes to the Ethylene Oxide/Ethylene Glycol Plant includes the installation of a new analyzer vent as well as additional vent streams being flared from the new Alkoxylation Plant. UCC has listed in the applications the pollutants and amounts that will be emitted for each facility. Below is the total amount for each pollutant that is proposed to be emitted each year for both facilities.

Pollutant	Proposed Emissions* (tons per year)
VOC	35.45
PM	1.19
PM ₁₀	0.36
PM _{2.5}	<0.01
NO _x	2.81
CO	16.82
SO ₂	0.12
HCl	0.02

*Includes currently authorized emissions from NSR 48653 and reflects the total potential to emit for both facilities.

The new and modified facilities will be controlled by a flare.