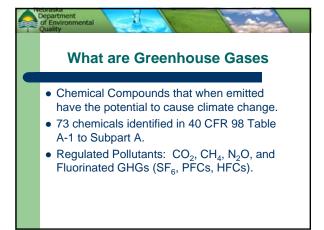
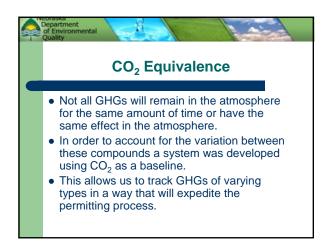
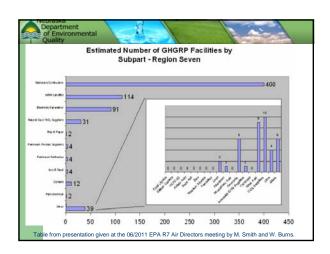
Creenhouse Gas Permitting Daniel LeMaistre Environmental Engineer NDEQ: Air Quality Division August, 2011

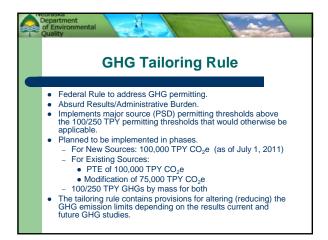




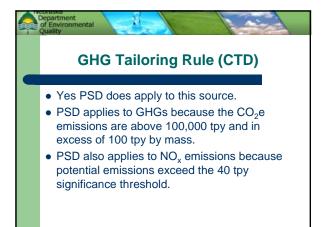


Example Equivalency Numbers		
Pollutant	Atmospheric Lifetime Years	Global Warming Potential (GWP) Unitless
CH₄	12±3	21
N ₂ O	120	310
HFC-23	264	11,700
HFC-32	5.6	650
CF,	50,000	6,500
C ₂ F ₆	10,000	9,200
SF ₂	3,200	23,900









• The same facility (now considered an existing source) proposes to construct a modification. - CO₂e will increase by 50,000 tpy - SO₂ emissions will increase by 50 tpy • Will this facility be subject to PSD for the proposed modification?

Nebraska Department of Environmental Quality

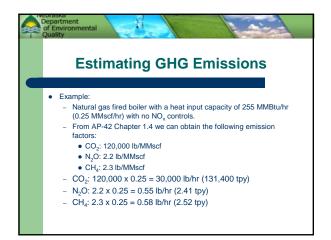
GHG Tailoring Rule (CTD)

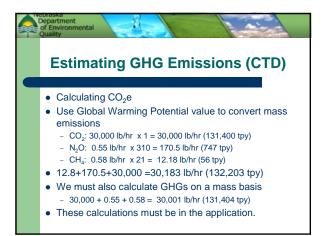
- No, this facility will not be subject to PSD.
- Potential GHG emissions will not exceed 75,000 tpy (as CO₂e) therefore GHGs are not a regulated pollutant as part of this modification.
- SO₂ emissions will be below the 100 tpy major source threshold (15 tpy + 50 tpy = 65 tpy) therefore this source will not trigger PSD because of SO₂ increases

Department of Environmental Quality

Applicability in Nebraska

- Incorporated the GHG Tailoring rule into our state regulations (Title 129). Has been approved by the EPA (SIP Approval).
- EPA has not implemented a minor source program for GHGs. Nebraska has not chosen to implement a minor source program either.
- Emissions Inventory program will Change. At this time no fees will be collected but all sources will be required to report GHG emissions.







Biogenic Deferral (CTD) Any non-biogenic emissions will still need to be accounted for when determining applicability. Biogenic emissions will still need to be reported to the NDEQ.

Permit Requirements • Have not yet implemented any major source GHG permits in Nebraska. • National trends point to efficiency requirements instead of control devices at this time. - Minimizing parasitic load - Switching a portion of the fuel combusted to biomass.





Tribal Minor NSR Rule • EPA Promligated a minor source rule for regulated air pollutants on Tribal lands (FIP) • Some Tribal areas have expressed an interest in taking over the minor source program (TIP). • First attempt by the EPA to regulate air

emission sources not subject to major source

regulation.



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