

Karen Lane

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Aberdeen, SD 57401  
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South Dakota Public Utilities Commission  
Commissioner Kristie Feigen  
Commissioner Chris Nelson  
Commissioner Gary Hanson  
500 East Capitol Ave  
Pierre, SD 57501

Re: Docket #HP22-002 (Navigator Heartland Greenway)

Although I am not a landowner the proposed CO2 pipeline is planned to run through, I am a resident of one of the larger cities in South Dakota that the pipeline is coming very close to. Having earned a Masters Degree from Northern State University with undergraduate majors in Mathematics and Chemistry, gives me a little insight into the science behind this suggested project. Since CO2 is a gas at normal temperatures and pressures, a great deal of energy (probably from fossil fuels) is going to be needed to place it under the required pressure to turn it to a liquid. This will generate a great deal of heat so even more energy will have to be expended to cool the product in order to transport it. Wouldn't it make more sense to allow the ethanol plants themselves to capture the CO2 and be paid to turn the CO2 into green methanol that our diesel engines can use as fuel? This would provide jobs for more South Dakotans and keep the money in state at our local ethanol plants.

I am also somewhat concerned that very little or nothing has been done regarding environmental impact studies and risk assessment to allow permitting to occur at this time. How do we know that once we pump the CO2 underground it will stay there? It didn't in Colorado. How do we know that pipes designed to carry petroleum will stand up to carrying liquid under extreme pressures? And what will happen if they fail? How will pipes only 4 feet underground react to our freeze/thaw cycle here in South Dakota or will they remain hot enough to prevent the ground from ever freezing?

I am urging that you NOT grant these private companies permits until PHMSA federal regulations for CO2 pipelines have been written and vital assessments have been done to answer crucial questions that remain unanswered.

Sincerely,



Karen Lane  
Private Citizen of South Dakota