BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF SOUTH DAKOTA

IN THE MATTER OF THE APPLICATION BY SCS CARBON TRANSPORT LLC FOR A PERMIT TO CONSTRUCT A CARBON DIOXIDE TRANSMISSION PIPELINE

DOCKET NO. HP22-001

Direct Testimony of Alissa Ingham
On Behalf of the Staff of the South Dakota Public Utilities Commission
June 23, 2023

EXHIBIT
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- Q: Please state your name and business address.
- 3 A: Alissa N. Ingham; 1180 Eugenia Place, Suite 204, Carpinteria, California 93013.
- 5 Q: Describe your educational background.

7 A: I received a Bachelor of Science degree in 2012 from California Polytechnic State
8 University, San Luis Obispo with a major in Environmental Management and
9 Protection (concentration in Environmental Policy and Management).

Q: By whom are you now employed?

A: I have been employed by Environmental Resources Management, Inc. since 2012. I currently hold the title of Partner, Scientist, and serve in an advisory and technical oversight role.

Q: What work experience have you had that is relevant to your involvement on this project?

A: I have over a decade of experience providing clients in the pipeline and transmission line industries with environmental review services. My career experience also includes obtaining necessary authorizations and securing regulatory approvals from Federal, State, and Local-level authorities for construction and operation of linear projects within the United States. In my current role I lead the preparation of impact assessments for projects undergoing review under National Environmental Policy Act or applicable state programs. In my experience leading the preparation of land use impact assessments I have worked on projects across the United States including two natural gas gathering systems and a natural gas transmission line project in the Dakotas.

Q: What is the purpose of your testimony?

A: I reviewed the permit Application for the Midwest Carbon Express Project dated February 7, 2022 and supplemental information dated October 13, 2022 (Application) Submitted Under SDCL Chapter 49-41B for completeness and adequacy against requirements set out in South Dakota Administrative Rule 20:10:22:18 to determine whether a sufficient level of detail was provided to characterize land use and routing associated with the Summit Carbon Solutions Pipeline.

Q: Please summarize what you reviewed?

A: I assessed the information provided in Section 5.5 (Land Use and Local Land Controls) of the Midwest Carbon Express Project, as well as Appendix 6C (Land Use Map Book), comparing it to the requirements set forth in South Dakota Administrative Rule 20:10:22:18. I also assessed the information provided in

Section 4.0 (Proposed Route and Alternative Routes) of the Midwest Carbon Express Project, as well as Appendix 4 (Route Alternatives) and Appendix 5 (Alternative Avoidance Analysis Table), comparing to the requirements set forth in South Dakota Administrative Rule 20:10:22:12. I also assessed the information provided by comparing it to information typically provided in comparable industry-standard applications for projects undergoing state and federal review. Additionally, I reviewed SCS Carbon Transport LLC's (the Applicant) responses to South Dakota Public Utilities Commission (SDPUC) staff's data requests where the Applicant provided additional information on certain land-use and routing related topics.

Q: Did you review section 4.0 of the Applicant's Application?

A: Yes. I reviewed Section 4.0 – Project Route and Alternative Routes of the Midwest Carbon Express Project's application.

Q: Please summarize what information was included in that section.

 A: Section 4.0 discusses the siting of the Midwest Carbon Express Project, development of the preliminary route, route analysis, route variations, and proposed route selection how the proposed route was chosen, alternatives considered, and a description of how the proposed route minimizes the length of the CO2 pipeline and impacts on the natural and built environment.

Q: In your experience, what types of information and analysis goes into determining a route for a linear facility? Please explain.

A: In my experience, digital tools and information have been used to allow routing for linear facilities to occur such that it allows for a high quality, environmentally conscious, and constructable route to be selected often before field work or landowner negotiations have begun. It minimizes risks and maximizes efficiency by selecting a route that is the shortest distance between the beginning and end point while also considering digitally available information (e.g., existing infrastructure, floodplains, or recreational areas). Once a general route is selected, it is optimized through consideration of various environmental factors (e.g., hydrology, listed species, community impact), constructability, availability of property and landowner considerations, and safety. Through processes such as negotiations with landowners, public meetings, consultations with federal, state, and local agencies, routes are often adjusted to shorten the permitting and environmental review process and landowner negotiations by minimizing impacts as much as possible.

Q: In your opinion, do you find that the Applicant conducted a robust route analysis and optimization? Please explain.

 92 A: Based on a review of the application and responses to the SDPUC's Data 93 Requests, the Applicant appears to have conducted a route analysis and 94 optimization in line with industry standards and South Dakota Administrative Rule.

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Q: Is there any information missing from the route analysis completed by the Applicant?

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A: No, route analysis conducted by the Midwest Carbon Express Project appears to be complete.

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Q: Did you review Section 5.5 of the Application on Land Use and Local Land Controls?

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A: Yes. I reviewed Section 5.5 – Land Use and Local Land Controls of the Midwest Carbon Express Project's application.

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Q: In your opinion, did the Applicant properly identify the land use types to be crossed by the pipeline?

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A: South Dakota Administrative Rule 20:10:22:18 requires applicants to provide an analysis of the compatibility of the proposed facility with present land use of the surrounding area, a general analysis of the effects of the proposed facility with present land use of the surrounding area, as well as a map set identifying existing land use according to a classification system provided in South Dakota Administrative Rule 20:10:22:18(1). The Applicant identified land use types using land use cover classifications from the National Land Cover Dataset (NLCD) supplemented with desktop and field survey of wetlands and waterbodies. It is my opinion that using the NLCD land use cover classifications as a basis for a discussion on compatibility with present land uses and a general analysis of the effects of the proposed facility with present land use of the surrounding area is appropriate if supplemented with those categories in the SD Land Use Classifications not included in the NLCD categories, such as noise sensitive land uses. The Applicant provides an appropriate discussion on compatibility of the proposed facility with present land use in Section 5.5.3 (Compatibility with Existing Land Use), and in Section 6.5.3 (Noise Impacts) of the application. The Applicant provided a map set identifying existing land uses, but not using the classification system required by South Dakota Administrative Rule 20:10:22:18(1). In a written response to SDPUC's third data request, the applicant provided a translation key between NLCD land cover classifications and the land use classification system required by South Dakota Administrative Rule 20:10:22:18(1) but did not identify all land use types required by that rule (for example, noise sensitive land uses are discussed in the application but not on the mapset or in the supplemental translation key provided). To properly identify the land use types to be crossed by the CO2 pipeline, the Applicant should update the maps in Appendix 6C to show the land use types listed in South Dakota Administrative Rule 20:10:22:18(1) or supplement the translation key to identify all land use types required by that rule.

Q: Are there any noise sensitive land uses crossed by the project?

A: The Application does not identify any noise sensitive land uses in the land use section (Section 5.5) and defines noise sensitive lands as being rural residences and farmsteads, and other occupied buildings. Instead, the Application only references impacts from noise in Section 6.5.3, which indicates that there will be short-term impacts related to noise during construction and operation of the Project. However, noise sensitive areas are not shown on the maps included as Appendix 6C. The Applicant should identify all noise sensitive areas as defined in Section 5.5.1 (Existing Land Use) as being rural residences and farmsteads, and other occupied buildings on the maps included as Appendix 6C.

Q: Are sound levels from project construction or operation a concern to those noise sensitive land uses?

A: In the Applicant's Responses to the SDPUC's Third Data Request (3-31 and 3-32), sound levels associated with construction and operation are provided. In the Applicant's Responses to the SDPUC's Fourth Data Request (4-17), the total number of residences within one mile of a horizontal directional drill site are provided. The noise levels provided in these data requests responses are not of concern; however, it is unclear through a review of the currently provided information if sound levels from construction is of concern as not all noise sensitive areas are identified.

Q: Did the Applicant properly quantify the potential impacts on noise sensitive land uses?

A: The Applicant properly quantifies impacts on residences within one mile of horizontal directional drill activities (Applicant's Responses to Staff's Fourth Data Request 4-17) and noise within 50 feet of typical construction equipment and construction activities (Applicant's Responses to Staff's Third Data Request 3-32). However, since the Application defines noise sensitive lands as being rural residences and farmsteads, and other occupied buildings, the Applicant should identify the locations of and quantify impacts on all noise sensitive land uses as needed.

Q: Did the Applicant identify any mitigation measures for noise sensitive land uses? If yes, please summarize what mitigation measures will be implemented.

The Applicant's Environmental Construction Plan (Appendix 3) includes mitigation measures for construction equipment near noise sensitive areas and commits to minimizing noise in the immediate vicinity of herds of livestock or poultry operations. In the Applicant's Responses to Staff's Third Data Request (3-32), the Applicant indicates that if construction activity extends into nighttime hours (10 PM)

to 7 AM), construction equipment will be properly muffled and maintained, temporary sound barriers may be erected, and landowners will be notified and consulted with to determine other measures that would mitigate impacts for that landowner. The Applicant also commits to installing shelters for equipment at pump stations to minimize noise generated at pump stations during operations. The mitigation measures outlined in this response are reasonable mitigation measure in line with industry standards.

Q: Do you have any recommendations for further mitigation measures to protect noise sensitive land uses?

A: The noise mitigation measures outlined in the Application are reasonable and in line with industry standards. Noise levels associated with pump station operation should be minimized such that noise levels do not exceed a day-night average (Ldn) sound level of 55 dbA, with a nighttime penalty of 10 decibels at the nearest noise sensitive land use to the pump station on the date the permit is issued.

201 Q: Does this conclude your testimony?

203 A: Yes.

Alissa Ingham

Partner

Ms. Alissa Ingham has a decade of experience in the energy industry including capital project development, risk advisory, and merger and acquisitions support focused on the upstream and midstream oil and gas sector. She is responsible for oversight of multi-disciplinary teams, supervising the preparation of NEPA documents, and acquisition of federal, state, and local permits. As an advisor in environmental and regulatory matters, Alissa helps clients prepare executable and successful permitting strategies. Her broad experience with federal and state permitting requirements for energy infrastructure projects makes Alissa well-suited to ensuring successful projects.



Experience: Ten years' experience in oil & gas sector

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Education/Relevant Training

 Environmental Management and Protection, Policy and Management, California Polytechnic State University, San Luis Obispo, 2012

Languages

English, native speaker

Fields of Competence

- Federal, State and Local Permitting
- Federal Energy Regulatory Commission (FERC) Licensing
- National Environmental Policy Act (NEPA) Reviews
- U.S. Army Corps of Engineers (USACE) permitting and compliance
- Linear infrastructure planning and development
- Environmental impact assessment
- Capital Project Delivery
- Construction Compliance

Key Industry Sectors

- Oil & gas
- Power



Key Projects

Nuclear Power Plant Decommissioning Project – 2022-2023

Strategic Planning Advisor responsible for NEPA permitting strategy for the decommissioning of a nuclear power plant in California. Responsible for a USACE individual permit application for impacts on waters of the United States and applicant prepared Environmental Assessment, as well as development of an applicant prepared Biological Assessment for impacts on federally-listed species.

LNG Export Facility and Natural Gas Pipeline – 2021-2023

Strategic Planning Advisor responsible for federal, state, and local permitting required for the development of a 20 MTPA LNG export facility, marine loading berths, and 85-mile pipeline in Texas and Louisiana. Responsible for schedule development, risk management, and lead for agency consultations. The project involves complex permitting with the USACE and formal consultations with USFWS and NMFS.

Natural Gas Pipeline Project – 2022-2023

Partner in Charge for a FERC-regulated natural gas pipeline and associated facilities in South Dakota. Responsible for permitting strategy, FERC license application and associated environmental report, and responsible for the overall

LNG Export Project – 2018-2023

Partner in Charge with overall responsibility for ensuring permit compliance during the construction phase, implementation planning, FERC variance requests, permit modifications, and field surveys.

Helium Extraction Project – 2019-2023

Project Manager in charge of developing a FERC Section 3 application for jurisdictional components of a helium extraction project. Provided permitting, regulatory strategy, and risk management advice. Responsible for the development of a FERC

Environmental Report, permitting, and supporting documents.

ESG Due Diligence Assessment – Freeport LNG

Engaged by a potential investor to assess ESG risks and opportunities associated with Freeport LNG's assets in Brazoria County, TX. Authored an ESG Due Diligence Assessment used to prepare for the sale of the investor's interest in Freeport LNG's assets.

CBRE / UPS

Point of Contact for the CBRE-UPS project to support environmental needs at UPS sites across the western United States.

Freeport LNG, GHG Gap Assessment and Life Cycle Carbon Footprint Project

Project manager responsible for a GHG gap assessment and preparation of a gate-to-gate GHG emissions estimate for LNG production.

Natural Gas Pipeline Project

Project involves approximately 518 miles of 30-inch and 24-inch diameter pipe to transport natural gas liquids from El Reno, Oklahoma to Mont Belvieu, Texas. Functioned as a permitting lead for the portion of the project located in Texas and assisting client with route optimization and permitting strategy to minimize regulatory exposure.

Freeport LNG, Operational Compliance

Developed a tracking and reporting system to manage obligations during operation of Freeport LNG's FERC-regulated Liquefaction Project. Deputy Project Manager responsible for compiling a database of compliance requirements and permits, and developing an Environmental Regulatory Plan.

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