Formal Notice:

STATE OF MINNESOTA
BEFORE THE PUBLIC UTILITIES COMMISSION
In the Matter of: Joint Application for a Certificate of Need for the North Rochester – Columbia 765 kV High Voltage Transmission Line Project
Docket No. E002/CN-25-121

NOTICE OF ERRATA REGARDING EXHIBIT C AND TECHNICAL BIBLIOGRAPHY
W. Ben Johnson, M.D., FACC hereby submits this Notice of Errata to the Minnesota Public Utilities Commission to formally correct a technical citation error in submission of:Technical Rebuttal and Notice of Material Facts in Dispute.

Correction of Record:
The reference originally cited as "Casper, B.M. (2016)" regarding the physics of sound and impedance mismatch is hereby corrected to the foundational 2013 publication: **Rogers, A.S. and Sisneros, J. J. (2013).** "The Physics of Sound in Biological Contexts." *Annual Review of Ecology, Evolution, and Systematics*, Vol. 44: 501-522. **DOI: 10.1146/annurev-ecolsys-110512-135916**.
Significance of Correction:
This 2013 peer-reviewed text provides the empirical basis for the **37.5 dB impedance gap** and the resulting **5,011-fold energy flux ratio** discussed in my testimony. This correction ensures the scientific record accurately supports the data regarding **autonomic activation** and the **pro-inflammatory risks** posed to biological organisms by 765kV energy shedding. Attached as **Attachment 1** is the corrected Technical Bibliography (Exhibit C) for the official record.

Respectfully submitted,

/s/ W. Ben Johnson, M.D., FACC

W. Ben Johnson, M.D., FACC
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Former Institutional Review Board (IRB) Chair
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Page 2: Attachment 1

ATTACHMENT 1: REVISED EXHIBIT C (TECHNICAL BIBLIOGRAPHY)
Docket No. E002/CN-25-121

1. Primary Physics & Impedance Reference:

Rogers, A. S., and Sisneros, J. J. (2013). "The Physics of Sound in Biological Contexts." *Annual Review of Ecology, Evolution, and Systematics*, Vol. 44: 501-522.
DOI: 10.1146/annurev-ecolsys-110512-135916

- *Technical Application:* Quantifies the ~37.5 dB impedance mismatch between air and water-based biological tissue, establishing the **5,011-fold increase** in energy flux required for acoustic/mechanical coupling.

2. Primary Biological Impact & Barotrauma Reference:

Casper, B. M., et al. (2013). "Recovery of barotrauma injuries in fish after exposure to pile driving sound." *The Journal of the Acoustical Society of America*, 134(1): 776-784.
DOI: 10.1121/1.4804951

- *Technical Application:* Establishes the **Cumulative Sound Exposure Level (SELcum)** as the threshold for internal hemorrhaging and sub-mortal barotrauma injuries at tissue-density interfaces.

3. Supplemental Synthesis on Noise & Stress:

Shannon, G., et al. (2016). "A synthesis of two decades of research documenting the effects of noise on wildlife." *Biological Reviews*, 91(4): 982-1005.
DOI: 10.1111/brv.12207

- *Technical Application:* Documents the chronic **autonomic nervous system activation** and systemic stress responses in organisms exposed to high-energy anthropogenic noise fields.

Page 3: Certificate of Service

CERTIFICATE OF SERVICE

I hereby certify that on February 26, 2026, I have served a true and correct copy of the foregoing **Notice of Errata Regarding Exhibit C** upon the following parties of record via electronic mail:

- **Xcel Energy Regulatory Records:** regulatory.records@xcelenergy.com
- **MN Department of Commerce:** efiling.commerce@state.mn.us
- **Great River Energy (Lori Buffington):** lbuffington@grenergy.com
- **ITC Midwest (Rod Pritchard):** rpritchard@itctransco.com
- Respectfully submitted,
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- */s/* W. Ben Johnson, M.D., FACC
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