Approval of November 17, 2016 LRC Meeting Minutes:

Bohrer asked for a motion to approve the minutes of the November 17, 2016 LRC meeting. Randy Christmann so moved; seconded by Charlie Bullinger. Motion carried.

Grant Round LXXXII (82) Grant Application LRC-LXXXII (82)-A: “North Dakota Integrated Carbon Storage Complex Feasibility Study”- Submitted by University of North Dakota Energy & Environmental Research Center; Request for $1,500,00; Total project cost: $13,857,978, Principal investigator: Wes Peck; Project Duration: 24
Holmes said the primary objective of this project is to establish the geologic, economic, regulatory, and social feasibility of developing a commercial-scale (50+ million metric tons [Mt]) geologic CO2 storage site to promote North Dakota’s statewide vision for lignite use and carbon management and fulfill the goals of DOE’s CarbonSAFE Program.

Holmes said that the three technical peer reviewers for this proposal gave the proposal an average weighted score of 224.3 out of 250 points. The weighted score was 227 out of 250 points from reviewer 18-01, 214 out of 250 from reviewer 18-02, and 232 out of 250 from reviewer 18-03. Technical peer reviewers 18-01, 18-02 and 18-03 all recommended funding the project.

As the Technical Advisor to the NDIC and LRC, Holmes recommended Fund with the following contingencies: matching funds received, Technical Advisor participates in advisory group and Technical Advisor reviews project management plan with the project manager.

Holmes said that ALLETE Clean Energy, BNI Energy, Basin Electric, Minnkota Power and the EERC have conflicts of interest for proposal LRC-LXXXII-A.

Wes Peck with the EERC did a presentation in support of LRC-LXXXII-A.

Project Update and Consideration of modification
This request was for modifications to " Grant Application LRC-LXXX-C: ""Pathway to Low-Carbon Lignite Utilization – Phase 1B & 2A" Submitted by: Energy & Environmental Research Center (EERC); Presentation by Jason Laumb. Proposed modification – total costs: $9,955,600, a change of in-kind cost share from DOE syngas combustion to 8 Rivers Capital Texas demonstration, and accompanying changes to deliverables.

Holmes said the objective of this project is to support the increased power need by continued evaluation and development of a low-carbon pathway to lignite utilization for electric power generation. The technology to achieve this objective, termed the Allam Cycle, is a direct-fired, supercritical CO2 (sCO2) power cycle with the potential for significant efficiency advantages over conventional steam-based Rankine systems. In addition, the Allam Cycle also allows for inherent CO2 separation and pressurization to comply with carbon capture regulations.

As the Technical Advisor to the NDIC and LRC, Holmes recommended approval of the requested modifications but with the following contingency: Task technical team including Technical Advisor with identifying a future opportunity to attain syngas combustion demonstration to further advance the technology.

Holmes said that Minnesota Power, BNI Energy, Basin Electric, Dakota Gasification and the EERC have conflicts of interest.

Jason Laumb with the EERC did a presentation explaining the modifications of LRC-LXXX-C.

Next LRC Meeting & NDIC meeting to consider LRC’s recommendations, 2017 Grant Round deadlines:
Bohrer announced that the next LRC meeting is scheduled for May 18, 2017.

The application deadline date for submitting proposals to the NDIC for the next grant rounds is April 1, 2017.

Ballot Results:
Bohrer announced the results of the balloting of the LRC’s recommendations to the NDIC regarding the Grant Round LXXXII (82) proposal & modifications as follows:

- **Grant Application LRC-LXXXII (82)-A:** “North Dakota Integrated Carbon Storage Complex Feasibility Study”- Submitted by University of North Dakota Energy & Environmental Research Center; Request for $1,500,00; Total project cost: $13,857,978, Principal investigator: Wes Peck; Project Duration: 24

| Fund: | 18 votes |
| Do Not Fund: | 0 vote |
| Abstain: | 0 vote |
Consideration of modification
"Grant Application LRC-LXXX-C: "Pathway to Low-Carbon Lignite Utilization – Phase 1B & 2A" Submitted by: Energy & Environmental Research Center (EERC); Presentation by Jason Laumb, Duration

Fund: 18 votes  Do Not Fund: 0 vote  Abstain: 0 vote

Bohrer provided an update on legislation currently under consideration by the Legislature that will impact the Lignite Research Fund.

There being no further business, Bohrer requested a motion for adjournment of the LRC meeting at 3:34 p.m. Justin Dever so moved; seconded Al Rudeck. Motion carried.

Laney DeGraw, recording secretary