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File No. ET-2018-0132

Mers, Nicole

**From:** Jim Lowery <Lowery@smithlewis.com>  
**Sent:** Thursday, July 12, 2018 4:42 PM  
**To:** Tatro, Wendy K; Mers, Nicole; marc.poston@ded.mo.gov; Henry Robertson; Andrew Linhares; Hack Rob (Rob.Hack@kcpl.com); 'roger.steiner@kcpl.com'; dmvuylsteke@bryancave.com; Mike Pendergast (mcp2015law@icloud.com); 'dcarter@brydonlaw.com'; hampton.williams@ded.mo.gov; Williams, Nathan; Berlin, Bob; zuckerlaw21@gmail.com; comley@ncrpc.com; Tim Opitz; Shemwell, Lera  
**Cc:** Byrne, Thomas M; Wills, Steven M; Harding, Michael W; Laurent, Dan G; Justis, Patrick E  
**Subject:** RE: ET-2018-0132 Ameren Missouri's Charge Ahead  
**Attachments:** Charge Ahead Stakeholder Tech Conf 2 July 13 2018.pdf

Attached is a slide deck we will go over during the Technical Conference tomorrow. Please print and bring a copy if you want a printed copy. See you then.

**From:** Jim Lowery  
**Sent:** Thursday, July 12, 2018 11:08 AM  
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**Cc:** Byrne, Thomas M <TByrne@ameren.com>; Wills, Steven M <SWills@ameren.com>; Harding, Michael W <MHarding@ameren.com>; Laurent, Dan G <DLaurent@ameren.com>; Justis, Patrick E <PJustis2@ameren.com>  
**Subject:** RE: ET-2018-0132 Ameren Missouri's Charge Ahead

In the last technical conference there was discussion of the business electrification analyses and workpapers. Attached are the relevant workpapers and some relevant information about them as outlined below. We can address questions about these at tomorrow's Technical Conference. Note that the 2<sup>nd</sup> workpaper is Confidential so please treat it accordingly.

**ICF workpaper notes:**

**Revenue inputs to the benefit/cost analysis:**

In ICF's workpaper titled "Ameren BE OA Support File\_7-11-18 Updated.xlsx", the incremental retail revenues associated with measures in the proposed program that were used in the calculation of the benefit/cost metrics for the program are shown on the tab "B3. Load Shapes" in the blue shaded cells (D37:L48). While those values are hard coded in the spreadsheet, they can be derived using the Ameren Missouri spreadsheet (which is the tool that was used by ICF to generate these revenues) "Ameren MO Electric Rate Estimator.xls". To validate the hard coded numbers in the blue shaded cells, open the Ameren rate estimator spreadsheet to the "Input" tab. Ensure that the fields for "Service Voltage" and "Metered Voltage" show "120 to 480" (or change them to this value using the drop-down box). Select for the "Current Rate" and "Rate to Calculate" a value from the drop-down box of "LGS". Next paste the value from the ICF spreadsheet labeled as "max on-Peak kW" (row 54 of the Load Shapes tab) from the column with the technology you wish to test into each monthly cell in row 11 of the "Input" tab in the Ameren Missouri rate estimator spreadsheet (cells B11:M11). Then paste the value from the ICF spreadsheet labeled as "Avg Monthly kWh" (row 56 of the Load Shapes tab) from the same column into each monthly cell in row 15 of the "Input" tab in the Ameren Missouri rate estimator spreadsheet (cells B15:M15). (Note: you may also copy in the off-peak demand value, but it will not end up influencing the calculated bill for any of the technologies). The "LGS\_Output" tab in the Ameren Missouri rate estimator

spreadsheet will reflect in Cells B41:M41 the values that ICF used in its analysis for the retail revenues for that technology. For example if the values used in the input tab were associated with conventional forklifts (Column E from the "Load Shapes" tab of ICF's spreadsheet), then the output of Ameren's spreadsheet in the "LGS\_Output" tab should match the values shown in the shaded blue cells of Column E in ICF's spreadsheet. Following this procedure on a column by column, the user should be able to validate the values shown across the shaded light blue section of the "Load Shapes" tab that were used for their analysis. (Note that only columns D:L are associated with technologies proposed for inclusion in Ameren Missouri's Charge Ahead Business Solutions program.)

#### **Update to ICF results:**

While compiling these workpapers, ICF identified a manual copy/paste error in the translation of results from Ameren Missouri's rate estimator spreadsheet into the benefit/cost analysis. The workpapers provided today reflect a correction to that error. As a result, the RIM benefit/cost ratio reflected in ICF's report and Mr. Pickles testimony was understated. The new program RIM based on the revision is 1.82.

#### **Use of ICF's spreadsheet to review measure specific results vs. program results:**

##### **To View Individual Technology Impacts and Calculations:**

1. Open Tab B1. Scenarios and Controls
2. Select the technology you would like to evaluate from the dropdown list in C9
3. Select the incentive level "Single Unit" from the dropdown list in C10
4. C21:28 will summarize the selected technology's individual BCR and Net Benefit values for the RIM, Participant, and mTRC tests
5. Open Tab B5. RIM Test to view the detailed calculations for the selected technology in Rows 3 – 33
6. Open Tab B6. Participant Test to view the detailed calculations for the selected technology in Rows 3 – 32
7. Open Tab B7. mTRC Test to view the detailed calculations for the selected technology in Rows 3 – 34

##### **To View Program Level Impacts and Calculations:**

1. Open Tab B1. Scenarios and Controls
2. Select the incentive level you would like to review (no, low, medium, or high) from the dropdown list in C10
3. Select the technologies you would like to "include" or "exclude" from the calculations by toggling the dropdown list under each technology in row 32
4. C35:57 will summarize the selected program's BCR and Net Benefit values for the RIM and mTRC tests, 5 year program expenditures, load growth impacts, and emission reductions
5. Row 59:80 will provide additional details for the selected program (incentive values, units per year, load and emission impacts by technology, program costs)
6. Open Tab B5. RIM Test to view the detailed calculations for the selected technology in Rows 35 - 88
7. Open Tab B7. mTRC Test to view the detailed calculations for the selected technology in Rows 36 - 90

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**From:** Tatro, Wendy K [<mailto:WTatro@ameren.com>]

**Sent:** Wednesday, July 11, 2018 5:06 PM

**To:** Mers, Nicole <[Nicole.Mers@psc.mo.gov](mailto:Nicole.Mers@psc.mo.gov)>; [marc.poston@ded.mo.gov](mailto:marc.poston@ded.mo.gov); Henry Robertson <[hrobertson@greatriverslaw.org](mailto:hrobertson@greatriverslaw.org)>; Andrew Linhares <[andrew@renewmo.org](mailto:andrew@renewmo.org)>; Hack Rob ([Rob.Hack@kcpl.com](mailto:Rob.Hack@kcpl.com)) <[rob.hack@kcpl.com](mailto:rob.hack@kcpl.com)>; 'roger.steiner@kcpl.com' <[roger.steiner@kcpl.com](mailto:roger.steiner@kcpl.com)>; [dmvuylsteke@bryancave.com](mailto:dmvuylsteke@bryancave.com); Mike Pendergast ([mcp2015law@icloud.com](mailto:mcp2015law@icloud.com)) <[mcp2015law@icloud.com](mailto:mcp2015law@icloud.com)>; 'dcarter@brydonlaw.com' <[dcarter@brydonlaw.com](mailto:dcarter@brydonlaw.com)>; [hampton.williams@ded.mo.gov](mailto:hampton.williams@ded.mo.gov); Williams, Nathan <[nathan.williams@ded.mo.gov](mailto:nathan.williams@ded.mo.gov)>; Berlin, Bob <[bob.berlin@psc.mo.gov](mailto:bob.berlin@psc.mo.gov)>; [zuckerlaw21@gmail.com](mailto:zuckerlaw21@gmail.com); [comleym@ncrpc.com](mailto:comleym@ncrpc.com)

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**Subject:** RE: ET-2018-0132 Ameren Missouri's Charge Ahead

Conference number for Friday's technical conference at 1 pm.

(800) 258-2477

(314) 554-4025

It will tell you to press star if you are the leader. Do not press star. The leader code is different, so if you do press star, you will not be able to get into the meeting. ☺

Conference ID: 2730672

**Wendy Tatro** :: Director and Assistant General Counsel :: T 314.554.3484 :: F 314.554.4014  
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**From:** Tatro, Wendy K

**Sent:** Tuesday, July 03, 2018 2:05 PM

**To:** Mers, Nicole <Nicole.Mers@psc.mo.gov>; marc.poston@ded.mo.gov; Henry Robertson <hrobertson@greatriverslaw.org>; Andrew Linhares <andrew@renewmo.org>; Hack Rob (Rob.Hack@kcpl.com) <rob.hack@kcpl.com>; 'roger.steiner@kcpl.com' <roger.steiner@kcpl.com>; dmvuylsteke@bryancave.com; Mike Pendergast (mcp2015law@icloud.com) <mcp2015law@icloud.com>; 'dcarter@brydonlaw.com' <dcarter@brydonlaw.com>; hampton.williams@ded.mo.gov; Williams, Nathan <nathan.williams@ded.mo.gov>; Berlin, Bob <bob.berlin@psc.mo.gov>; zuckerlaw21@gmail.com; comlevm@ncrpc.com

**Cc:** Byrne, Thomas M <TByrne@ameren.com>; Wills, Steven M <SWills@ameren.com>; Harding, Michael W <MHarding@ameren.com>; Laurent, Dan G <DLaurent@ameren.com>; Justis, Patrick E <PJustis2@ameren.com>; 'Jim Lowery' <lowery@smithlewis.com>

**Subject:** ET-2018-0132 Ameren Missouri's Charge Ahead

Our next technical conference for the Charge Ahead case is scheduled for July 13<sup>th</sup>. Ameren Missouri has a technical conference in another case that morning, so we propose meeting at 1:00 pm. We plan to discuss the proposed line extension tariff and to follow up on issues from the first technical conference – if you have a specific issue that you would like addressed, let me know as soon as possible.

Nicole – could you reserve us a room?

Enjoy your 4<sup>th</sup>!

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## Mers, Nicole

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**From:** Tatro, Wendy K <WTatro@ameren.com>  
**Sent:** Tuesday, August 07, 2018 11:19 AM  
**To:** Jim Lowery; Mers, Nicole; marc.poston@ded.mo.gov; Henry Robertson; Andrew Linhares; Hack Rob (Rob.Hack@kcpl.com); 'roger.steiner@kcpl.com'; dmvuylsteke@bryancave.com; Mike Pendergast (mcp2015law@icloud.com); 'dcarter@brydonlaw.com'; hampton.williams@ded.mo.gov; Williams, Nathan; Berlin, Bob; zuckerlaw21@gmail.com; comley@mncrpc.com; Tim Opitz; Shemwell, Lera  
**Cc:** Byrne, Thomas M; Wills, Steven M; Harding, Michael W; Laurent, Dan G; Justis, Patrick E; Johnson, Paula  
**Subject:** ET-2018-0132 Ameren Missouri's Charge Ahead

Although the Procedural Schedule shows our next Technical Conference is scheduled for the 13<sup>th</sup>, I believe the group decided to move it to this Friday, the 10<sup>th</sup>. Starting at 1 pm.

It is Ameren Missouri's intention to discuss and try to resolve the line extension tariff at this meeting but does not plan to get into the rest of the filing. We believe there are too many issues still at play on the EV chargers and efficient electrification portions of our case and we want to respect everyone's time on a Friday afternoon. We would like to revisit these issues after the parties file rebuttal at the end of the month.

Nicole is reserving a room for this meeting. Let me know if a call in number is needed, but I am presuming fewer parties will participate, given the limited scope of the discussion and so it is less likely to be needed.

THANKS

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