

Attachment 2—List of Manufacturers of Residential Gas, Oil, and Heat Pump Storage-Type Water Heaters With a Rated Storage Volume Greater Than or Equal to Two Gallons

Company:

- A. O. Smith Corporation

- Rheem Sales Company, Inc.
- Bock Water Heaters, Inc.
- GIANT Factories, Inc.
- Bradford White Corp.
- HTP Comfort Solutions LLC
- Rinnai America Corporation
- Vesta DS, Inc.
- Vaughn Thermal Corporation

- GD Midea Heating & Ventilating Equipment Co., Ltd.

Attachment 3—Alternative Recovery Efficiency Equation

How the current calculation is written:

$$\eta_r = \left(\frac{M_1 * C_{p1} * (\bar{T}_{del,1} - \bar{T}_{in,1})}{Q_r} + \frac{V_{st} * \rho_2 * C_{p2} (\bar{T}_{max,1} - \bar{T}_0)}{Q_r} \right)$$

Where this calculation falls short is when our first cut-out occurs into or through subsequent draws. The definition of $\bar{T}_{del,1}$ and $\bar{T}_{in,1}$ are currently defined as the “average water

temperature measured during the Draws from the start of the 24 hour simulated-use test to the end of the first recovery period, °F, (°C).”

Our Proposal

We would like to propose the calculation below to avoid inflating the energy delivered that the averaging causes

$$\eta_r = \sum_{i=1}^{N_r} \frac{m_i * C_{pi} * (\bar{T}_{del,i} - \bar{T}_{in,i})}{Q_r} + \frac{V_{st} \rho_2 C_{p2} (\bar{T}_{max,1} - \bar{T}_0)}{Q_r}$$

N_r = number of draws that the first recovery period occurred during.

First Recovery Period: Is defined by when the main burner of a storage water heater is lit and raising the temperature

of the stored water until cut-out; in the case the cut-out * occurs during a subsequent draw, the first recovery period is to include the time until the draw of water from the tank stops.

m_i = Mass of draw i.
 C_{pi} = Average Specific heat of draw i.
 Q_r = Energy consumption of water heater from the beginning of the test to the end of the first recovery period

For example, if $N_r = 2$

$$\eta_r = \left(\frac{mass_1 * C_{p1} * (\bar{T}_{del,1} - \bar{T}_{in,1})}{Q_r} + \frac{mass_2 * C_{p2} * (\bar{T}_{del,2} - \bar{T}_{in,2})}{Q_r} + \frac{V_{st} * \rho_2 * C_{p2} (\bar{T}_{max,1} - \bar{T}_0)}{Q_r} \right)$$

*If after the first cut-out occurs during a subsequent draw, a subsequent cut-in occurs prior to the draw completion, the first recovery period is to include the time until the subsequent cut-out occurs, prior to another draw.

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DEPARTMENT OF ENERGY

Federal Energy Regulatory Commission

Combined Notice of Filings #1

Take notice that the Commission received the following electric corporate filings:

Docket Numbers: EC20-2-000.

Applicants: Bucksport Generation LLC.

Description: Application for Authorization Under Section 203 of the Federal Power Act, et al. of Bucksport Generation LLC.

Filed Date: 10/1/19.

Accession Number: 20191001-5288.

Comments Due: 5 p.m. ET 10/22/19.

Take notice that the Commission received the following electric rate filings:

Docket Numbers: ER19-2583-000.

Applicants: Green River Wind Farm Phase 1, LLC.

Description: Amendment to August 13, 2019 Green River Wind Farm Phase 1, LLC. tariff filing.

Filed Date: 10/2/19.

Accession Number: 20191002-5077.

Comments Due: 5 p.m. ET 10/9/19.

Docket Numbers: ER20-16-000.

Applicants: Midcontinent

Independent System Operator, Inc.

Description: § 205(d) Rate Filing: 2019-10-01 Attachment P Clean-up to be effective 12/1/2019.

Filed Date: 10/1/19.

Accession Number: 20191001-5278.

Comments Due: 5 p.m. ET 10/22/19.

Docket Numbers: ER20-17-000.

Applicants: Tenaska Pennsylvania Partners, LLC.

Description: § 205(d) Rate Filing: Reactive Power Rate Schedule to be effective 11/1/2019.

Filed Date: 10/1/19.

Accession Number: 20191001-5286.

Comments Due: 5 p.m. ET 10/22/19.

Docket Numbers: ER20-18-000.

Applicants: Midcontinent

Independent System Operator, Inc.

Description: § 205(d) Rate Filing: 2019-10-02 Termination of SA 3220 Flying Cow Wind-OTP E&P (BSSB) (J493 J510) to be effective 10/3/2019.

Filed Date: 10/2/19.

Accession Number: 20191002-5008.

Comments Due: 5 p.m. ET 10/23/19.

Docket Numbers: ER20-19-000.

Applicants: PJM Interconnection, L.L.C.

Description: Tariff Cancellation: Notice of Cancellation of Service Agreement No. 3602, Queue No. Y1-057 to be effective 7/29/2019.

Filed Date: 10/2/19.

Accession Number: 20191002-5051.

Comments Due: 5 p.m. ET 10/23/19.

Docket Numbers: ER20-20-000.

Applicants: DTE Atlantic, LLC.

Description: Baseline eTariff Filing:

DTE Atlantic LLC. MBR Tariff

Application to be effective 10/3/2019.

Filed Date: 10/2/19.

Accession Number: 20191002-5074.

Comments Due: 5 p.m. ET 10/23/19.

Docket Numbers: ER20–21–000.
Applicants: Southwest Power Pool, Inc.

Description: Notice of Cancellation of Generator Interconnection Agreement of Southwest Power Pool, Inc.

Filed Date: 10/2/19.

Accession Number: 20191002–5076.

Comments Due: 5 p.m. ET 10/23/19.

Docket Numbers: ER20–22–000.

Applicants: Harbor Cogeneration Company, LLC.

Description: § 205(d) Rate Filing: Normal filing 2019 to be effective 10/3/2019.

Filed Date: 10/2/19.

Accession Number: 20191002–5111.

Comments Due: 5 p.m. ET 10/23/19.

Docket Numbers: ER20–23–000.

Applicants: DTE Atlantic, LLC.

Description: Baseline eTariff Filing: DTE Atlantic LLC. MBR Tariff Application to be effective 10/3/2019.

Filed Date: 10/2/19.

Accession Number: 20191002–5118.

Comments Due: 5 p.m. ET 10/23/19.

Docket Numbers: ER20–24–000.

Applicants: Midcontinent Independent System Operator, Inc., Otter Tail Power Company.

Description: § 205(d) Rate Filing: 2019–10–02 SA 3358 OTP–OTP FSA (G359R) Hankinson-Ellendale & Big Stone-Blair to be effective 12/2/2019.

Filed Date: 10/2/19.

Accession Number: 20191002–5133.

Comments Due: 5 p.m. ET 10/23/19.

Docket Numbers: ER20–25–000.

Applicants: Midcontinent Independent System Operator, Inc., Otter Tail Power Company.

Description: § 205(d) Rate Filing: 2019–10–02 SA 3357 OTP–Dakota Range III FSA (J488) Hankinson-Ellendale to be effective 12/2/2019.

Filed Date: 10/2/19.

Accession Number: 20191002–5153.

Comments Due: 5 p.m. ET 10/23/19.

Docket Numbers: ER20–26–000.

Applicants: Northern States Power Company, a Minnesota corporation, Northern States Power Company, a Wisconsin corporation.

Description: § 205(d) Rate Filing: 20191002 IA ROE Update to be effective 1/1/2020.

Filed Date: 10/2/19.

Accession Number: 20191002–5175.

Comments Due: 5 p.m. ET 10/23/19.

The filings are accessible in the Commission's eLibrary system by clicking on the links or querying the docket number.

Any person desiring to intervene or protest in any of the above proceedings must file in accordance with Rules 211 and 214 of the Commission's

Regulations (18 CFR 385.211 and 385.214) on or before 5:00 p.m. Eastern time on the specified comment date.

Protests may be considered, but intervention is necessary to become a party to the proceeding.

eFiling is encouraged. More detailed information relating to filing requirements, interventions, protests, service, and qualifying facilities filings can be found at: <http://www.ferc.gov/docs-filing/efiling/filing-req.pdf>. For other information, call (866) 208–3676 (toll free). For TTY, call (202) 502–8659.

Dated: October 2, 2019.

Kimberly D. Bose,

Secretary.

[FR Doc. 2019–21974 Filed 10–7–19; 8:45 am]

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DEPARTMENT OF ENERGY

Federal Energy Regulatory Commission

[Docket No. AD19–15–000]

Notice Inviting Post-Technical Conference Comments: Managing Transmission Line Ratings

On September 10 and September 11, 2019, Federal Energy Regulatory Commission (Commission) staff convened a technical conference to discuss what transmission line ratings and related practices might constitute best practices, and what, if any, Commission action in these areas might be appropriate.

All interested persons are invited to file initial and reply post-technical workshop comments on any or all of the questions listed in the attachment to this Notice. Commenters may also respond to the questions outlined in the September 4, 2019 supplemental notice of technical conference.¹ Commenters need not answer all of the questions. Commenters should organize responses consistent with the structure of the attached questions. Commenters are also invited to reference material previously filed in this docket, including technical workshop transcripts, but are encouraged to avoid repetition or replication of previous material. Initial comments must be submitted on or before 30 days from the date of this notice. Reply comments must be submitted on or before 15 days after the deadline to submit initial comments.

For more information about this Notice, please contact:

¹ Available at <https://www.ferc.gov/CalendarFiles/20190904173327-AD19-15-000supplTC.pdf>.

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Dated: October 2, 2019.

Kimberly D. Bose,

Secretary.

Post-Technical Conference Questions for Comment

Commenters may respond to the questions outlined in the September 4, 2019 supplemental notice of technical conference.² In addition, based on discussions during the Managing Transmission Line Ratings technical conference, Staff developed the following questions to better understand whether Commission action might be appropriate. To guide discussion, ambient-adjusted ratings (AAR) are defined as ratings that are adjusted daily, hourly, or more frequently and account for ambient air temperatures. Dynamic line ratings (DLRs) are defined as line ratings that are adjusted hourly or more frequently and account for local weather conditions (e.g., ambient temperature, wind, precipitation, solar irradiation) and/or account for conductor parameters (conductor temperature, tension, sag, clearance), typically as measured by local sensors.

1. Discussion of a Possible Requirement for Transmission Owners To Implement AARs

a. Should transmission owners be required to implement AARs? If so, to which lines would the requirement apply? What criteria (e.g., congestion, facility age) and process would be used to determine to which lines the requirement would apply? What would be the benefits or drawbacks to such a requirement?

b. If AARs are required, should they be required for modeling in both the day-ahead and real-time markets?

c. What type of forecasting (e.g., how frequently, how granularly, and of what variables) is needed to incorporate AARs and DLRs into both real-time and day-ahead markets? If forecasts submitted in day-ahead markets differ from the real-time rating, how should

² Available at <https://www.ferc.gov/CalendarFiles/20190904173327-AD19-15-000supplTC.pdf>.