

BEFORE THE PUBLIC UTILITIES COMMISSION  
OF THE STATE OF HAWAII

In the Matter of the Application of )  
 )  
HAWAIIAN ELECTRIC COMPANY, INC. ) DOCKET NO. 2017-0352  
HAWAII ELECTRIC LIGHT COMPANY, INC. )  
AND MAUI ELECTRIC COMPANY, LIMITED )  
 )  
To Institute a Proceeding )  
Relating To Competitive )  
Procurement Of Dispatchable )  
and Renewable Generation. )  
\_\_\_\_\_ )

ORDER NO. 38865

GRANTING THE HAWAIIAN ELECTRIC COMPANIES' REQUEST  
FOR APPROVAL TO INCORPORATE ELEMENTS OF THE INSTITUTE OF  
ELECTRICAL AND ELECTRONICS ENGINEERS' STANDARD FOR  
INTERCONNECTION AND INTEROPERABILITY OF INVERTER-BASED RESOURCES  
INTERCONNECTING WITH ASSOCIATED TRANSMISSION ELECTRIC POWER  
SYSTEMS INTO THE STAGE 3 REQUESTS FOR PROPOSALS

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SYSTEMS INTO THE STAGE 3 REQUESTS FOR PROPOSALS

By this Order,<sup>1</sup> the Public Utilities Commission ("Commission"), grants the Hawaiian Electric Companies' request for approval to incorporate certain elements from the Institute of Electrical and Electronics Engineers' ("IEEE") Standards for Interconnection and Interoperability of Inverter-Based Resources Interconnecting with Associated Transmission Electric Power

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<sup>1</sup>The Parties to this docket are HAWAIIAN ELECTRIC COMPANY, INC., HAWAII ELECTRIC LIGHT COMPANY, INC., AND MAUI ELECTRIC COMPANY, LIMITED (collectively referred to as "Hawaiian Electric" or "the Companies") and the DIVISION OF CONSUMER ADVOCACY, an ex officio party, pursuant to Hawaii Revised Statutes § 269-51 and Hawaii Administrative Rules § 16-601-62(a).

Systems ("IEEE 2800-2022") in the Stage 3 Requests for Proposals ("RFPs") for Hawaii Island, Oahu, and Maui, which was filed on February 10, 2023.<sup>2</sup>

I.

RELEVANT PROCEDURAL BACKGROUND

The complete procedural history of this docket prior to the filing of Order No. 38479, which approved the Third Draft of the Stage 3 RFP for Hawaii Island, is set forth in that Order.<sup>3</sup> The procedural history relevant to the Stage 3 RFPs for Hawaii Island, Oahu, and Maui, with respect to the instant request, is set forth below.

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<sup>2</sup>Letter From: R. Matsushima To: Commission Re: Docket No. 2017-0352 - To Institute a Proceeding Relating to a Competitive Bidding Process to Acquire Dispatchable and Renewable Generation; Request to Incorporate IEEE 2800-2002 Into Stage 3 RFP for Oahu, Maui, and Hawaii Island," filed on February 10, 2023 ("IEEE Request").

<sup>3</sup>Order No. 38479, "Approving the Hawaiian Electric Companies' Final Stage 3 Request for Proposals for Hawaii Island with Modifications and Issuing Guidance on the Proposed Stage 3 Requests for Proposals for Oahu and Maui," filed on June 30, 2022 ("Order No. 38479").

On June 30, 2022, the Commission issued Order No. 38479, which approved the Third Draft Hawaii Island Stage 3 RFP,<sup>4</sup> with modifications, and also ordered the Companies to file an updated Near-term GNA for Oahu and Maui and incorporate non-island-specific modifications from Order No. 38479 into the Oahu and Maui Stage 3 RFPs, pursuant to further guidance.<sup>5</sup>

On July 11, 2022, Hawaiian Electric filed its Motion for Partial Reconsideration and/or Clarification of Order No. 38479.<sup>6</sup> On July 29, 2022, the Companies filed updated Oahu and Maui Near-term GNAs,<sup>7</sup> upon which a public comment was filed on October 12, 2022.<sup>8</sup>

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<sup>4</sup>"Hawaiian Electric Companies' Third Draft of Stage 3 Request for Proposals for Hawaii Island; Books 1 through 4; Filed May 31, 2022," filed on May 31, 2022.

<sup>5</sup>Order No. 38479 at 37.

<sup>6</sup>"Hawaiian Electric Companies' Motion for Partial Reconsideration and/or Clarification of Order No. 38479; Memorandum in Support of Motion; and Certificate of Service," filed on July 11, 2022.

<sup>7</sup>Letter From: M. Asano To: Commission Re: Docket No. 2017-0352 - To Institute a Proceeding Relating to a Competitive Bidding Process to Acquire Dispatchable and Renewable Generation; Docket No. 2018-0165 - Instituting a Proceeding to Investigate Integrated Grid Planning; "Updated Oahu and Maui Island Near Term Grid Needs Assessment," filed on July 29, 2022 ("Updated Oahu and Maui GNAs").

<sup>8</sup>Public Comment filed on October 12, 2022.

On August 5, 2022, the Companies held a Technical Conference on the Draft Oahu and Maui Stage 3 RFPs.<sup>9</sup>

On September 28, 2022, the Commission issued information requests ("IRs") regarding the Oahu and Maui Near-term GNAs.<sup>10</sup> Subsequently, on October 7, 2022, Hawaiian Electric filed a request to extend the deadline to respond to Commission IRs until November 16, 2022,<sup>11</sup> which the Commission approved.<sup>12</sup>

On October 17, 2022, the Commission issued Order No. 38653, which granted, in part, Hawaiian Electric's Motion for Partial Reconsideration and/or Clarification, as well

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<sup>9</sup>See Hawaiian Electric Stage 3 Oahu and Maui Technical Conference, held on August 5, 2022, which is available to view at: <https://www.youtube.com/watch?v=eqjeTyFcJQ>; and Stage 3 Oahu & Maui RFP Technical Conference, Meeting Slides, which is available on the Companies' website at: [https://www.hawaiianelectric.com/documents/clean\\_energy\\_hawaii/selling\\_power\\_to\\_the\\_utility/competitive\\_bidding/20220808\\_stage\\_3\\_oahu\\_and\\_maui\\_tech\\_stat\\_us\\_conf\\_slides.pdf](https://www.hawaiianelectric.com/documents/clean_energy_hawaii/selling_power_to_the_utility/competitive_bidding/20220808_stage_3_oahu_and_maui_tech_stat_us_conf_slides.pdf) ("Technical Conference Slides").

<sup>10</sup>Letter From: Commission To: M. Asano Re: Docket No. 2017-0352 - To Institute a Proceeding Relating to a Competitive Bidding Process to Acquire Dispatchable and Renewable Generation, filed on September 28, 2022.

<sup>11</sup>Letter From: K. Katsura To: Commission Re: Docket No. 2017-0352 - To Institute a Proceeding Relating to a Competitive Bidding Process to Acquire Dispatchable and Renewable Generation; "Hawaiian Electric Extension Request for Responses to PUC Information Requests," filed on October 7, 2022.

<sup>12</sup>Letter From: Commission To: K. Katsura Re: Docket No. 2017-0352 - To Institute a Proceeding Relating to a Competitive Bidding Process to Acquire Dispatchable and Renewable Generation, filed on October 18, 2022.

as ordered the Companies to solicit public comments on the Oahu and Maui Near-term GNAs.<sup>13</sup>

Also on October 17, 2022, the Companies filed a letter that provided updates for all of the Stage 3 RFPs and the IGP processes, including a request for approval from the Commission to issue the Oahu and Maui Stage 3 RFPs by November 30, 2022.<sup>14</sup>

On October 19, 2022, the Companies filed responses to a portion of the Commission's IRs, also indicating that responses to the remaining IRs would be filed by November 16, 2022.<sup>15</sup>

Pursuant to Order No. 38653, on October 20, 2022, the Companies filed a letter soliciting comments on the Oahu and Maui Near-term GNAs, indicating that they would file any such

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<sup>13</sup>Order No. 38653, "Addressing the Hawaiian Electric Companies' Motion for Partial Reconsideration and/or Clarification of Order No. 38479," filed on October 17, 2022 ("Order No. 38653").

<sup>14</sup>Letter From: R. Matsushima and M. Asano To: Commission Re: Docket No. 2017-0352 - To Institute a Proceeding Relating to a Competitive Bidding Process to Acquire Dispatchable and Renewable Generation; Docket No. 2018-0165 - Instituting a Proceeding to Investigate Integrated Grid Planning; "Updated Schedule for Stage 3 RFPs and IGP Process," filed on October 17, 2022 ("Updated Schedule for Stage 3 RFPs and IGP Process").

<sup>15</sup>Letter From: M. Asano To: Commission Re: Docket No. 2017-0352 - To Institute a Proceeding Relating to a Competitive Bidding Process to Acquire Dispatchable and Renewable Generation; "Responses to Commission's Information Requests," filed on October 19, 2022.

comments with the Commission in this docket within 30 days of that letter.<sup>16</sup>

On November 7, 2022, the Companies filed their Proposed Final Hawaii Island Stage 3 RFP.<sup>17</sup>

On November 16, 2022, the Companies filed their outstanding responses to the Commission's IRs on the Oahu and Maui Near-term GNAs.<sup>18</sup>

On November 17, 2022, the Commission issued a letter directing Hawaiian Electric to address outstanding areas for clarification in an addendum to their Final Hawaii Island Stage 3 RFP, which was automatically approved on that same day.<sup>19</sup>

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<sup>16</sup>Letter From: M. Asano To: Commission Re: Docket No. 2017-0352 - To Institute a Proceeding Relating to a Competitive Bidding Process to Acquire Dispatchable and Renewable Generation; Docket No. 2018-0165 - Instituting a Proceeding to Investigate Integrated Grid Planning; "Request for Public Comments on Updated Near-Term Grid Needs Assessment for Oahu and Maui, filed July 29, 2022," filed on October 20, 2022.

<sup>17</sup>"Hawaiian Electric Companies' Proposed Final Stage 3 Request for Proposals for Hawaii Island; Books 1 through 4; Filed on November 7, 2022," filed on November 7, 2022 ("Final Hawaii Island Stage 3 RFP").

<sup>18</sup>Letter From: M. Asano To: Commission Re: Docket No. 2017-0352 - To Institute a Proceeding Relating to a Competitive Bidding Process to Acquire Dispatchable and Renewable Generation; "Supplemental Responses to Commission's Information Requests," filed on November 16, 2022.

<sup>19</sup>Letter From: Commission To: R. Dayhuff-Matsushima Re: Docket No. 2017-0352, Competitive Bidding Process to Acquire Dispatchable and Renewable Generation, filed on November 17, 2022 ("Commission Letter on Final Hawaii Island Stage 3 RFP Approval"), wherein the Commission requested additional clarification and explanation, but

On November 21, 2022, the Commission received public comments on the Updated Oahu and Maui Near-term GNAs.<sup>20</sup>

On December 1, 2022, the Commission issued Order No. 38735, which approved the Companies' Oahu and Maui Stage 3 RFPs, with modifications, and ordered the Companies to file Final Stage 3 RFPs for Oahu and Maui, consistent with the Commission's direction set forth in Order No. 38735.<sup>21</sup>

On December 12, 2022, Hawaiian Electric filed its Motion, requesting that the Commission clarify and/or partially reconsider Section III.B.1.d, of Order No. 38735, "in order to align the Companies' requests for proposals for Oahu and Maui with the Commission's recent direction in Order No. 38653[,]" with regard to the Hawaii Island Stage 3 RFP.<sup>22</sup>

On December 22, 2022, the Commission issued Order No. 38376, which granted and provided further clarification therein to conform the Oahu and Maui Stage 3 RFPs to

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did not impede the automatic approval of the Final Hawaii Island Stage 3 RFP.

<sup>20</sup>See Public Comments filed on November 21, 2022.

<sup>21</sup>Order No. 38735, "Approving the Hawaiian Electric Companies' Final Stage 3 Requests for Proposals for Oahu and Maui, with Modifications," filed on December 1, 2022 ("Order No. 38735"), at 58.

<sup>22</sup>Motion at 1.



the Hawaii Island Stage 3 RFP.<sup>23</sup> Also on December 22, 2022, the Companies filed the Final Stage 3 Oahu and Maui RFPs and Model Contracts, pursuant to Order No. 38735.<sup>24</sup>

On January 6, 2023, the Companies issued a letter, which indicated that they were providing additional information and corrections to erroneous information previously made available to potential bidders with regard to the Hawaii Island Stage 3 RFP, including, among other things, "[p]roviding clarification with respect to the Interconnection Requirements Study identifying a recently published IEEE standard that may be incorporated into the Interconnection Requirements Study, to the extent relevant to Hawaii, to be performed on all projects selected to the final award group at the conclusion of the RFP."<sup>25</sup>

After review of the Final Oahu and Maui Stage 3 RFPs, the Commission issued a letter providing guidance and

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<sup>23</sup>Order No. 38376, "Granting the Hawaiian Electric Companies' Motion for Clarification and/or Partial Reconsideration of Order No. 38375," filed on December 22, 2022.

<sup>24</sup>"Hawaiian Electric Companies' Stage 3 Oahu and Maui RFPs and Model Contracts; Books 1 through 6," filed on December 22, 2022 ("Final Oahu and Maui Stage 3 RFPs").

<sup>25</sup>Letter From: R. Matsushima To: Commission Re: Docket No. 2017-0352 - To Institute a Proceeding Relating to a Competitive Bidding Process to Acquire Dispatchable and Renewable Generation; "Flowing Updates into Stage 3 RFP for Hawaii Island," filed on January 6, 2023, at 2.

seeking additional clarification and justification.<sup>26</sup> In response, on January 31, 2023, the Companies filed a letter indicating that, at the beginning of February, they would file "a request for approval to allow the addition of IEEE 2800-2022 into all Stage 3 RFPs."<sup>27</sup>

Noting that such request would include the Stage 3 RFP for Hawaii Island and require revisions to the Stage 3 Power Purchase Agreements ("PPAs") that the Companies anticipate to be completed by the end of February, which the Commission observed is after the deadline for proposals for the Stage 3 RFP for Hawaii Island,<sup>28</sup> on February 7, 2023, the Commission filed a letter requesting that, among other things, the Companies include certain information in their anticipated request for approval of IEEE 2800-2022 for the Stage 3 RFPs, as specified therein.<sup>29</sup>

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<sup>26</sup>Letter From: Commission To: R. Matsushima Re: Docket No. 2017-0352, Competitive Bidding Process to Acquire Dispatchable and Renewable Generation, filed on January 17, 2023.

<sup>27</sup>Letter From: R. Matsushima To: Commission Re: Docket No. 2017-0352 - To Institute a Proceeding Relating to a Competitive Bidding Process to Acquire Dispatchable and Renewable Generation; "Opening of Stage 3 RFP for Oahu and Maui," filed on January 31, 2023 ("HECO's January 31<sup>st</sup> Letter").

<sup>28</sup>HECO's January 31<sup>st</sup> Letter at 6.

<sup>29</sup>Letter From: Commission To: R. Matsushima Re: Docket No. 2017-0352, Competitive Bidding Process to Acquire Dispatchable and Renewable Generation, filed on February 7, 2023.

On February 10, 2023, the Companies' filed their IEEE Request, seeking approval of: (1) certain specific elements from IEEE 2800-2022 in the performances standard in the Renewable Dispatchable Generation and Energy Storage PPAs Project Specific Addendums ("PSAs") of all Stage 3 RFP PPAs; and (2) an extension of the deadline to receive bids for the Hawaii Island Stage 3 RFP.<sup>30</sup>

## II.

### DISCUSSION

Hawaiian Electric has requested approval to incorporate certain elements from the IEEE 2800-2022, which was released by the IEEE in 2022, into all Stage 3 RFPs.<sup>31</sup> In support thereof, the Companies highlight the importance of adopting minimum requirements identified in the standard and indicate that adoption now for the Stage 3 RFPs is "critically important to ensure the latest standards for performance are incorporated into projects that will contribute significant generation to the Companies' system grids for the next 20-30 years."<sup>32</sup>

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<sup>30</sup>IEEE Request at 1.

<sup>31</sup>See IEEE Request at 1.

<sup>32</sup>IEEE Request at 1.

Hawaiian Electric explains that the Companies' PSAs currently do not address several inverter-based resources ("IBR") plant performance related issues that IEEE-2800-2022 does, including inverter instantaneous overvoltage tripping, inverter instantaneous overcurrent tripping, and data monitoring.<sup>33</sup> The Companies further explain that they have conducted extensive review and consulted with multiple entities to discuss plans for incorporation of the standard into their interconnection and operational performance requirements, and emphasized the overall goal of adoption being "to facilitate increasing levels of IBR without degrading reliability and stability."<sup>34</sup>

Moreover Hawaiian Electric asserts the following:

Specifically, the Companies believe that incorporating specific IEEE 2800-2022 requirements into projects at this time is necessary to allow the Companies to leverage the full ability of the inverters for grid reliability and stability, which otherwise would require future mitigation measures and/or supplemental resources, to allow for stable and reliable operation and to avoid major disturbances such as those experienced in Texas. IEEE 2800-2022 is the first comprehensive interconnection standard for utility scale IBR. By incorporating IEEE 2800-2022 requirements, the Companies are closing gaps in its PSAs that have come to light in their reviews and in the industry disturbance reports. While the Companies' PSAs already contain many performance standards to ensure a safe and reliable operation of the grid, identifying technical and operational requirements

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<sup>33</sup>IEEE Request at 2.

<sup>34</sup>IEEE Request at 3.

for [Bulk Power System] connected IBR is a new and developing area in the industry. Without adopting such requirements, the Companies will remain at risk of major disturbances such as those that occurred in Texas and California.<sup>35</sup>

Hawaiian Electric states that it "acknowledges these requirements were raised at an inconvenient time - prior to finalization of the Stage 3 RFPs[.]"<sup>36</sup> However, they believe it is prudent and necessary to delay the Hawaii Island Stage 3 RFP process, because the grid needs for Hawaii Island are less urgent than for Maui and Oahu and the potential impact of the IEEE standard will benefit the system for decades to come.<sup>37</sup> As a result, the Companies request that the Hawaii Island Stage 3 RFP bid proposal deadline be extended from February 24, 2023, to April 20, 2023, to coincide with the deadlines for the Oahu and Maui Stage 3 RFPs.<sup>38</sup>

The Commission notes the extensive history of these proceedings in preparation for issuance of the Stage 3 RFPs, as delineated above, to highlight the significant time and effort

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<sup>35</sup>IEEE Request at 3-4.

<sup>36</sup>IEEE Request at 4.

<sup>37</sup>IEEE Request at 4.

<sup>38</sup>IEEE Request at 4. The Companies note that the "need-by" date in the Hawaii Island Stage 3 RFP, 2030, is far into the future and will not need to be similarly changed as a result of this extension, and that there is sufficient time before the deadlines for the Oahu and Maui Stage 3 RFPs so no extension is needed.

that has gone into their development, as well as the many opportunities the Companies have had to raise this issue prior to issuance of the RFPs. The Hawaii Island Stage 3 RFP was issued on November 21, 2022,<sup>39</sup> and the deadline for receiving bids is currently set for Friday, February 24, 2023.<sup>40</sup> The Oahu and Maui Stage 3 RFPs were issued on January 20, 2023, and the deadline for receiving bids is currently set for Thursday, April 20, 2023.<sup>41</sup> The IEEE 2800-2022 standard was published in April of 2022, and yet the Companies have waited until two weeks prior to the deadline for the submission of proposals in the Hawaii Island Stage 3 RFP to make this request, which the Commission finds disconcerting, at best. Furthermore, as the Companies have noted, they do not anticipate completing revisions to the PPAs until after the current deadline for the Hawaii Island Stage 3 RFP,<sup>42</sup> which will include information that the Commission will still need to review, and potential bidders will need to be made aware of, in preparation for submission of their bids.

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<sup>39</sup>See Letter From: R. Matsushima To: Commission Re: Docket No. 2017-0352 - To Institute a Proceeding Relating to a Competitive Bidding Process to Acquire Dispatchable and Renewable Generation; "Opening of Stage 3 RFP for Hawaii Island," filed on November 21, 2022.

<sup>40</sup>Final Hawaii Island Stage 3 RFP at Exhibit 2.

<sup>41</sup>Final Oahu and Maui Stage 3 RFPs at Exhibit 2.

<sup>42</sup>HECO's January 31<sup>st</sup> Letter at 2.

Notwithstanding the foregoing, especially the inopportune timing of this request, the Commission, in consultation with the Independent Observer ("IO") and Independent Engineer ("IE"), determines that approval of the request to incorporate certain elements of IEEE 2800-2022 in the Stage 3 RFPs is prudent and reasonable. The Commission finds that Hawaiian Electric has reasonably explained the value of incorporating elements of IEEE 2800-2022 into the PPAs/PSAs. Hawaiian Electric has identified specific, known reliability issues that the elements will address and has based its request on credible third-party reports and discussions for support. The Companies have also demonstrated that the positive impact of approval on ensuring the reliability and safety of the transmission system for the Companies and all system users overshadows the short-term impacts of delaying the RFP process. The Commission also finds that Appendix A provides a useful summary of the specific elements being adopted. However, although the Commission supports incorporation of the elements of IEEE 2800-2022 that have been specified by the Companies, the Commission also finds it necessary and appropriate to review and separately approve the final PPA revisions.

Therefore, the Companies shall file, by February 28, 2023, the final RFPs and/or PPA revisions, including redline markup versions, for each of the Stage 3 RFPs,

as well as summary tables that describe each revision to the RFP, PPA, and/or PSA, as appropriate, as well as cross references for each change to the relevant item(s) as referenced in Exhibit A of the IEEE Request, for review and approval by the Commission, in consultation with the IO and IE.

Additionally, as part of the February 28, 2023 filing, the Commission also seeks clarification from the Companies on whether the provisions of the RFP will allow potential bidders to make proposed edits to the PPAs/ESAs related to the IEEE 2800 standard.

Finally, in light of the foregoing approval, the Commission finds it necessary and appropriate to extend the deadline for the submission of proposals for the Hawaii Island Stage 3 RFP from the current deadline of February 24, 2023, to April 20, 2023, subject to further extension by the Commission, if necessary, after review of the final RFP and/or PPA revisions.

III.

ORDER

THE COMMISSION ORDERS that:

1. The Companies' request for approval to incorporate certain specific elements of IEEE 2800-2022 in the Stage 3 RFPs, as outlined in the IEEE Request, Exhibit A, is hereby granted, subject to the conditions described above.



2. The Companies shall file the final revisions to the Stage 3 RFPs that reflect the addition of IEEE 2800-2022 requirements, including any related final and redline versions of the PPAs and/or PSAs, as well as summary tables that describe each revision to the RFP, PPA, and/or PSA, as appropriate, as well as cross-references for each change to the relevant item(s) as referenced in Exhibit A of the IEEE Request.

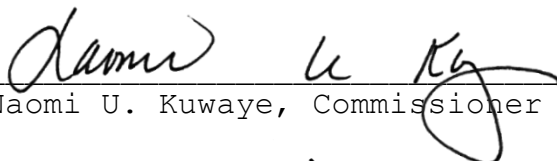
3. The Companies shall revise the deadline for submission of proposals for the Hawaii Island Stage 3 RFP to April 20, 2023, unless otherwise ordered by the Commission after review of the RFP/PPA revisions. The Companies shall include in their February 28, 2023 filing revisions to the Hawaii Island Stage 3 RFP schedule to reflect such extension, as well as all succeeding deadlines.

4. By February 28, 2023, the Companies shall also use any and all available means of communicating the revisions made relating to IEEE 2800-2022 and the Hawaii Island Stage 3 RFP bid proposal deadline, including but not limited to updating information on the Stage 3 RFP webpages and disseminating such information through direct emails to the Companies' RFP distribution list and through PowerAdvocate to all registered parties.

DONE at Honolulu, Hawaii FEBRUARY 17, 2023.


PUBLIC UTILITIES COMMISSION  
OF THE STATE OF HAWAII

By   
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Leodoloff R. Asuncion, Jr., Chair

By   
\_\_\_\_\_  
Naomi U. Kuwaye, Commissioner

By   
\_\_\_\_\_  
Colin A. Yost, Commissioner

APPROVED AS TO FORM:

  
\_\_\_\_\_  
Keira Y. Kamiya  
Commission Counsel

2017-0352.ljk

CERTIFICATE OF SERVICE

The foregoing Order was served on the date it was uploaded to the Public Utilities Commission's Document Management System and served through the Document Management System's electronic Distribution List.

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