

BEFORE THE PUBLIC UTILITIES COMMISSION OF NEVADA

Application of Nevada Power Company d/b/a NV)	
Energy filed under Advice Letter No. 479 to revise)	
Tariff No. 1-B to modify Generating Facility)	Docket No. 17-06014
Interconnections Rule No. 15.)	
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Application of Sierra Pacific Power Company d/b/a NV)	
Energy filed under Advice Letter No. 596-E to revise)	
Electric Tariff No. 1 to modify Generating Facility)	Docket No. 17-06015
Interconnections Rule No. 15.)	
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At a general session of the Public Utilities Commission of Nevada, held at its offices on April 11, 2018.

PRESENT: Chairman Joseph C. Reynolds
Commissioner Ann C. Pongracz
Assistant Commission Secretary Trisha Osborne

ORDER

The Public Utilities Commission of Nevada (“Commission”) makes the following findings of fact and conclusions of law:

I. INTRODUCTION

Nevada Power Company d/b/a NV Energy (“Nevada Power”) filed an Application under Advice Letter No. 479 to revise Tariff No. 1-B to modify Generating Facility Interconnections Rule No. 15. The matter was designated as Docket No. 17-06014. Sierra Pacific Power Company d/b/a NV Energy (“Sierra” collectively with Nevada Power, “NV Energy”) filed an Application under Advice Letter No. 596-E to revise Electric Tariff No. 1 to modify Generating Facility Interconnections Rule No. 15. The matter was designated as Docket No. 17-06015. Docket Nos. 17-06014 and 17-06015 were consolidated for hearing purposes.

Rule No. 15, entitled “Generating Facility Interconnections” describes the interconnection, operating, and metering requirements for all types of generating facilities with a net capacity of 20 megawatts (“MW”) or less that customer or producer seeks to interconnect to and operate in parallel with NV Energy’s electric distribution systems. Rule No. 15 includes the rights and obligations of the producer seeking interconnection and of NV Energy, the application and interconnection process, generating facility design and operating requirements, facility

ownership, metering, monitoring, and telemetry requirements, the review process for interconnections, and testing and certification criteria.

NV Energy's Applications seek to revise Rule No. 15 for both Nevada Power and Sierra to accommodate energy storage devices.

II. SUMMARY

The Commission accepts the Stipulation, attached hereto as Attachment 1, and grants the Applications as recommended in the Stipulation.

III. PROCEDURAL HISTORY

- On June 9, 2017, NV Energy filed the Applications.
- NV Energy filed the Applications pursuant to the Nevada Revised Statutes ("NRS") and the Nevada Administrative Code ("NAC"), Chapters 703 and 704, including but not limited to NRS 704.100 and NAC 703.390.
- The Regulatory Operations Staff ("Staff") of the Commission participates as a matter of right, pursuant to NRS 703.301.
- On June 13, 2017, the Commission issued Notices of Application to Revise Tariff in each matter.
- On June 29, 2017, the Attorney General's Bureau of Consumer Protection ("BCP") filed Notices of Intent to Intervene pursuant to Chapter 228 of the NRS in each matter.
- On June 29, 2017, Nevadans for Clean Affordable Reliable Energy ("NCARE") filed Petitions for Leave to Intervene ("PLTIs") in each matter.
- On July 5, 2017, the Interstate Renewable Energy Council ("IREC") and Tesla, Inc. ("Tesla") filed PLTIs in each matter.
- On July 6, 2017, the Commission issued Notices of Prehearing Conference in each matter.
- On July 20, 2017, the Hearing Officer held prehearing conferences in Docket Nos. 17-06014 and 17-06015. NV Energy, IREC, NCARE, Tesla, BCP, and Staff made appearances at each prehearing conference. The participants discussed the PLTIs, consolidation of the matters, and a procedural schedule. The Hearing Officer continued the prehearing conference to August 22, 2017.
- On July 24, 2017, the Hearing Officer issued orders granting the PLTIs of IREC, NCARE, and Tesla in Docket Nos. 17-06014 and 17-06015.

- On July 24, 2017, the Hearing Officer issued a procedural order adopting a procedural schedule and consolidating Docket Nos. 17-06014 and 17-06015.
- On July 24, 2017, the Commission issued a Notice of Hearing.
- On August 14, 2017, the Hearing Officer issued Procedural Order No. 2 cancelling the continued prehearing conference and setting a prehearing conference for August 24, 2017.
- On August 14, 2017, the Commission issued a Notice of Prehearing Conference.
- On August 24, 2017, the Hearing Officer held a prehearing conference. NV Energy, IREC, NCARE, Tesla, BCP, and Staff (collectively, the “Parties”) made appearances. The participants discussed the status of the Dockets.
- On August 31, 2017, NV Energy filed a letter in the Dockets requesting that the procedural schedule be suspended for sixty days to allow the Parties to exchange information and performed a technical review.
- On September 5, 2017, the Hearing Officer issued Procedural Order No. 3 vacating the procedural schedule and setting a prehearing conference for September 28, 2017.
- On September 5, 2017, the Commission issued a Notice of Prehearing Conference.
- On September 28, 2017, the Hearing Officer held a prehearing conference. The Parties made appearances and discussed a procedural schedule.
- On November 1, 2017, the Hearing Officer issued Procedural Order No. 4 adopting a procedural schedule.
- On November 1, 2017, the Commission issued a Notice of Hearing.
- On January 12, 2018, NV Energy filed prepared direct testimony.
- On February 7, 2018, the Hearing Officer issued Procedural Order No. 5 vacating the procedural schedule adopted in Procedural Order No. 4 and adopting a new procedural schedule as agreed upon by the Parties and communicated to the Hearing Officer via electronic mail.
- On February 7, 2018, the Commission issued a Notice of Hearing.
- On February 23, 2018, IREC, Tesla, and Staff filed prepared direct testimony.
- On March 12, 2018, NV Energy filed prepared rebuttal testimony.
- On March 21, 2018, the Parties filed a Stipulation.

- On March 21, 2018, the Hearing Officer held a hearing. The Parties made appearances and discussed the Stipulation. At the conclusion of the hearing, the Hearing Officer granted an oral motion to accept Exhibit Nos. 1-14 into the record pursuant to NAC 703.730.

IV. STIPULATION

Parties' Position

1. The Parties recommend that the Commission approve the Applications consistent with the terms of the Stipulation. Of note, the Parties have agreed to several key terms. The Parties agree that a utility-owned revenue grade interval meter will be installed on every energy storage device subsequent to the issuance of the Order in this proceeding (referred to as “Phase 1”). The cost of energy storage device meter sockets will be borne by the customer. NV Energy customers who have submitted an application with no substantive defects to interconnect energy storage devices prior to the issuance of the Order in this proceeding will not be affected by the metering requirement. The metering requirement will be revisited in a filing to be made by NV Energy no later than October 1, 2019 (referred to as “Phase 2”). The Parties agree that visible disconnects will be installed on energy storage devices, NV Energy will collect necessary storage charging and discharging data and will share this data with Phase II participants, subject to confidentiality protections, in order to develop and analyze options in the Phase II proceeding. NV Energy will work collaboratively with stakeholders to develop a framework to use third-party inverter data as an alternative to utility metering. (Ex. 14 at 4-5.)

2. In the new Phase II dockets, NV Energy will report on the results of Phase I deployment of energy storage device interval meters and the quality and utilization of the data collected. NV Energy will also discuss the ability to use third-party inverter data, or other data sources, as an alternative to utility metering. The Commission will be asked to make a determination regarding any potential changes to the metering/data collection regime, including

whether the metering/data collection requirements should be modified or eliminated. (Ex. 14 at 5-6.)

3. Subject to the provisions of the Stipulation, the Parties recommend approval of the revisions to Rule No 15 for Nevada Power and Sierra as reflected in Exhibits A and B to the Stipulation. (Ex. 14 at 6.)

Commission Discussion and Findings

4. The Commission finds that the Stipulation complies with the requirements of NAC 703.845, in that it settles only issues relating to the instant proceeding and does not seek relief the Commission is not otherwise empowered to grant. The Stipulation is a consensus resolution of the issues pursuant to the Parties' negotiations and is a reasonable recommendation and resolution of the issues in this proceeding. Therefore, the Commission finds that it is in the public interest to accept the Stipulation.

5. All arguments of the Parties raised in these proceedings not expressly addressed herein have been considered and either rejected or found to be non-essential for further discussion in this Order. Any agreements and recommendations contained in the Stipulation, but not expressly addressed herein, are either agreements by the Parties regarding matters non-essential to the disposition of this Docket or are recommendations for specific findings that do not require delineation given the Commission's acceptance of the Stipulation and corresponding approval of the Applications.

THEREFORE, it is ORDERED that:

1. The Stipulation filed by Nevada Power Company d/b/a NV Energy; Sierra Pacific Power Company d/b/a NV Energy; the Interstate Renewable Energy Council; Nevadans for Clean Affordable Reliable Energy; Tesla, Inc.; the Attorney General's Bureau of Consumer

Protection and the Regulatory Operations Staff, attached hereto as Attachment 1, is ACCEPTED.

2. The Application of Nevada Power Company d/b/a NV Energy is GRANTED as recommended in the Stipulation.

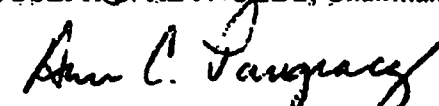
3. The Application of Sierra Pacific Power Company d/b/a NV Energy is GRANTED as recommended in the Stipulation.

4. The Commission's acceptance of the Stipulation does not constitute precedent regarding any legal or factual issue.


By the Commission,



JOSEPH C. REYNOLDS, Chairman



ANN C. PONGRACZ, Commissioner

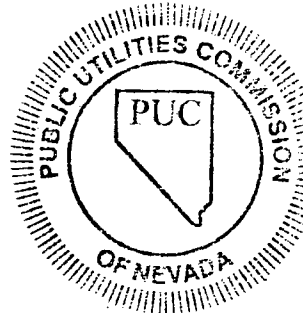
Attest: 

TRISHA OSBORNE,
Assistant Commission Secretary

Dated: Carson City, Nevada

4-13-18

(SEAL)



ATTACHMENT 1

Contact Filer Regarding Image Clarity

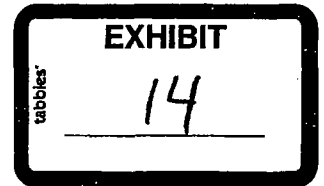
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Interconnections Rule No. 15)

Docket No. 17-06014

Application of Sierra Pacific Power Company d/b/a)
NV Energy filed under Advice Letter No. 596-E to)
revise Tariff No. 1 to modify Generating Facility)
Interconnections Rule No. 15)

Docket No. 17-06015



STIPULATION

Nevada Power Company d/b/a/ NV Energy (“Nevada Power”) and Sierra Pacific Power Company d/b/a NV Energy (“Sierra”), (collectively “NV Energy” or the “Companies”) enter into this Stipulation with the Regulatory Operations Staff of the Public Utilities Commission of Nevada (“Staff”); the Office of the Attorney General, Bureau of Consumer Protection (“BCP”); the Interstate Renewable Energy Council, Inc. (“IREC”); Nevadans for Clean Affordable Reliable Energy (“NCARE”); and Tesla, Inc. (“Tesla”) (together, the “Parties”).

RECITALS

- A. WHEREAS, on June 9, 2017, Nevada Power filed with the Public Utilities Commission of Nevada (“Commission”) an Application under Advice Letter No. 479, designated as Docket No. 17-06014, to revise Tariff No. 1-B to modify Generating Facility Interconnections Rule No. 15.
- B. WHEREAS, on June 9, 2017, Sierra filed with the Commission an Application under Advice Letter No. 596-E, designated as Docket No. 17-06015, to revise Electric Tariff No. 1 to modify Generating Facility Interconnections Rule No. 15. The two proposed (Rule No. 15) Tariffs are referred to herein collectively as the “Proposed Rule.”

- C. WHEREAS, Staff and BCP participate in these proceedings as a matter of right. On July 24, 2017, the Hearing Officer issued Orders granting the Petitions for Leave to Intervene of IREC, NCARE, and Tesla.
- D. WHEREAS, on July 24, 2017, the Hearing Officer issued a Procedural Order consolidating Docket Nos. 17-06014 and 17-06015 for hearing purposes and adopting a procedural schedule. The Parties requested, and the Hearing Officer granted, extensions of the procedural schedule to permit the Parties to continue to discuss a potential stipulation.
- E. WHEREAS, on January 12, 2018, NV Energy filed direct testimony in these proceedings which modified, in part, the Proposed Rule from the version the Companies had filed on June 9, 2017.
- F. WHEREAS, on February 23, 2018, Staff, Tesla and IREC filed direct testimony that proposed changes to the Proposed Rule.
- G. WHEREAS, on March 12, 2018, NV Energy filed rebuttal testimony that proposed further changes to the Proposed Rule.
- H. WHEREAS, the Parties have negotiated a mutually agreed-upon settlement in this matter. The Parties agree that the resolution of issues as set forth in this Stipulation is fair, just and reasonable and that the Stipulation is in the public interest. In addition, the Parties represent that the Stipulation settles only issues relating to Docket Nos. 17-06014 and 17-06015, and does not seek relief the Commission is not empowered to grant.

NOW THEREFORE, based upon the mutual agreement reflected in this Stipulation, the Parties agree as follows:

BACKGROUND AND DISCUSSION

Rule No. 15 is entitled "Generating Facility Interconnections," and describes the interconnection, operating, and metering requirements for all types of generating facilities with a net capacity of 20 MW or less that a customer or producer is seeking to interconnect to and operate in parallel with the Companies' electric distribution systems. No. 15 Rule includes the rights and obligations of the producer seeking interconnection and of the Companies, the application and interconnection process, generating facility design and operating requirements, facility ownership, metering, monitoring, and telemetry requirements, the review process for interconnections, and testing and certification criteria.

The Companies have proposed revisions to Rule No. 15 that require the installation of a revenue quality interval meter on energy storage devices for which a Rule 15 application is submitted after issuance of the Commission's order in these dockets. With information regarding the meters and/or telemetry used on energy storage devices and the net metering system, the Companies have stated they can develop data analysis programs to provide confirmation that only energy generated from the customer's net metering system receives credit under the Net Energy Metering ("NEM") program. The Companies have stated that they will also use data from these meters to assist in refining time-of-use rate schedules, perform distribution planning, design future energy storage compensation programs, and resolve customer billing disputes.

Other parties in these dockets have questioned the stated need for energy storage device meters and the duration of that need, recommending that other means of verifying the performance of energy storage devices could be implemented. Other parties have also questioned whether the data collected by NV Energy's proposed meters is necessary to

support the activities NV Energy has identified as requiring this data. To resolve this issue, the Parties have agreed to implement the provisions set forth below, which also address the remaining unresolved questions pertaining to Rule No. 15.

STIPULATED SETTLEMENT TERMS

Phase I (starting immediately):

1. The parties agree that during Phase I, a utility-owned, revenue grade interval meter will be installed on every energy storage device subsequent to the issuance of a final order in this proceeding. NV Energy customers who have submitted an application with no substantive defects, pursuant to Section D.1.a and D.1.b of the Proposed Rule, to interconnect energy storage devices prior to the issuance of a final order in these consolidated dockets will not be affected by this requirement. This requirement will be revisited in a filing to be made by the Companies no later than October 1, 2019 (see Phase II below). Pursuant to NV Energy's Rule No. 15 filing, the Companies will pay for and own the energy storage device meter. The cost of the energy storage device meter sockets will be borne by the customer.
2. The parties agree to the requirement that visible disconnects will be installed on energy storage devices.
3. NV Energy modifies screen G of the Proposed Rule to raise the threshold below which inverter based technologies automatically pass this screen to a Gross Nameplate Rating of less than 25 kVA (consistent with the rebuttal testimony of NV Energy witness Mr. Sinobio, Q&A 29).
4. NV Energy modifies screen H of the Proposed Rule to allow single phase inverter based generating facilities to automatically pass this screen (consistent with the rebuttal testimony of NV Energy witness Mr. Sinobio, Q&A 30).
5. NV Energy modifies section E.1.e of the Proposed Rule to additionally state: "If the aggregate Net Nameplate Ratings of the Generating Facilities exceeds the aforementioned 20 kVA and 6 kVA limits, or the transformer nameplate rating, the Utility shall consider the operating characteristics and/or controls of the Generator(s) when determining if the Producer's single-phase Generator violates these limits."
6. Installers deploying energy storage devices may choose to program the devices as non-exporting or NEM-only charging (the "Operating State Designation"). The installer will provide the Operating State Designation to the Companies together with a customer and storage provider attestation of the Operating State Designation. Any new Operating State Designation could be implemented as required. Any subsequent change in the Operating State Designation of an energy storage device requires submittal of an updated customer and storage provider attestation to, and written approval by, the Companies before the storage provider implements the change. Written approval by the Companies will not be unreasonably denied or delayed.

7. NV Energy will collect the necessary storage charging and discharging data and will share these data with Phase II participants, subject to confidentiality protections, including but not limited to the removal of personally identifiable customer information. The Phase II participants may also provide their inverter data to NV Energy. Phase II participants will use the data solely for the purpose of developing and analyzing options in the Phase II proceeding.
8. NV Energy will work collaboratively with stakeholders to develop a framework comparable to NV Energy's meter data exchange process and proposal to use third-party inverter data as an alternative to utility metering ("Option B" in NV Energy's rebuttal testimony). Within 6 months of Commission approval of this agreement, NV Energy and storage installers will establish protocols for collection, transmission, and utilization of third-party inverter data as an alternative to utility metering. The results of this protocol, including cost, will be reported to the Commission along with the Phase II filing, no later than October 1, 2019, or such earlier time as the Parties agree.
9. The Proposed Rule is implemented with the language proposed by NV Energy in its June 9, 2017 Advice Letter filings, as modified by NV Energy's January 12, 2018 direct testimony, and as modified herein by Sections 3, 4, 5 and 6, with a notation that meters are only necessary as long as the Commission requires them.
10. The testimony filed by the parties to these consolidated dockets will be marked as exhibits and become part of the record.
11. These consolidated dockets will be closed.

Phase II (at the expiration of Phase I):

12. In the new docket(s) established pursuant to Section 1 above, the Companies will report on the results of the Phase I deployment of energy storage device interval meters, including the quality and utilization of the data collected. The Companies and the parties to the new docket(s) will also address the following issues:
 - a. Whether there was any material deviation from the performance of participating energy storage devices by the energy storage device systems that were elected to be placed under operating state restrictions pursuant to Section 7 and the implications of any deviations on NEM accounting.
 - b. The ability of NV Energy to use third-party inverter data (or other data sources such as historical loads from previously-existing meters) from the energy storage devices as an alternative to utility metering as proposed as 'Option B' in NV Energy's rebuttal testimony filed on March 12, 2018, and informed by the recommendations in Section 8 above. The evaluation of the use of third-party inverter data will include, but may not be limited to, the following issues:
 - (1) The willingness and ability of the possessors of third-party inverter data to share that data with NV Energy; and

- (2) The relative costs of obtaining storage charging and discharging data through (a) the use of NV Energy interval meters; and (b) the use of third-party inverters; and
 - (3) The technical requirements that third-party inverter data would need to meet and the extent to which third-party inverter data meets those requirements.
 - c. The extent to which the system-specific data being collected by the meters is necessary to meet NV Energy's stated requirements, given the ability to leverage the experience with storage and data collected from the meters deployed to date.
 - d. Whether responsibility for the costs of the meters and associated meter socket should be modified.
13. The Commission will be asked to make a determination regarding any potential changes to the metering/data collection regime, including whether the metering/data collection requirements should be modified or eliminated.

REVISED RULE NO. 15

The Parties approve the revisions to Rule No. 15 for Nevada Power and for Sierra as set forth in Exhibits A and B, attached hereto (red-line and final versions), subject to the procedures set forth above.

GENERAL TERMS AND CONDITIONS

This Stipulation represents a compromise of the Parties. Neither this Stipulation, nor its terms, nor the Commission's acceptance of the recommendations contained in this Stipulation shall have any precedential effect in future proceedings.

This Stipulation represents a compromise of the issues raised in the consolidated dockets and this Stipulation is in the public interest. The Parties recommend that the Commission accept the Stipulation and all of its terms and conditions.

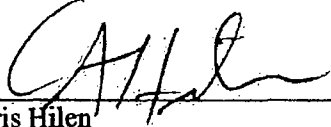
This Stipulation is made upon the express understanding that it constitutes a negotiated settlement. The provisions of this Stipulation are not severable. In the event the Commission does not adopt in total the recommendations contained in the provisions of this Stipulation, then this Stipulation shall be deemed to be withdrawn, without prejudice to any claims or contentions that

may have been made or are made in the consolidated dockets; no part of this Stipulation shall be admissible in evidence or in any way described or discussed in any proceeding; and no signatory shall be bound by any of the agreements or provisions contained herein.

This Stipulation may be executed in one or more counterparts, all of which together shall constitute the original executed document. This Stipulation may be executed by signatures provided by electronic facsimile transmission, which facsimile signatures shall be as binding and effective as original signatures.

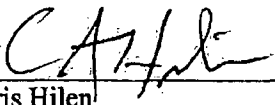
Respectfully submitted this 20th day of March, 2018.

**NEVADA POWER COMPANY
D/B/A NV ENERGY**

By 
Chris Hilien

March 20, 2018

**SIERRA PACIFIC POWER COMPANY
D/B/A NV ENERGY**

By 
Chris Hilien

March 20, 2018

**PUBLIC UTILITIES COMMISSION OF
NEVADA, REGULATORY OPERATIONS STAFF**

By _____
Shelly Cassity, Assistant Staff Counsel

March _____, 2018

Respectfully submitted this ___ day of March, 2018.

**NEVADA POWER COMPANY
D/B/A NV ENERGY**

By _____
Chris Hilten

March ____, 2018

**SIERRA PACIFIC POWER COMPANY
D/B/A NV ENERGY**

By _____
Chris Hilten

March ____, 2018

**PUBLIC UTILITIES COMMISSION OF
NEVADA, REGULATORY OPERATIONS STAFF**

By  _____
Shelly Cassity, Assistant Staff Counsel

March 20, 2018

**OFFICE OF THE ATTORNEY GENERAL'S
BUREAU OF CONSUMER PROTECTION**

By Michael Saunders
Michael Saunders, Senior Deputy Attorney General

March 20, 2018

TESLA, INC.

By _____
Curt Ledford

March _____, 2018

NEVADANS FOR CLEAN AFFORDABLE RELIABLE ENERGY

By _____
Robert Johnston

March _____, 2018

INTERSTATE RENEWABLE ENERGY COUNCIL, INC.

By _____
Joseph Petta

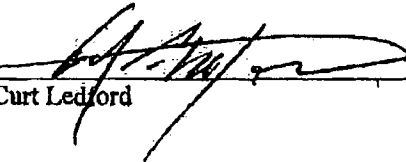
March _____, 2018

**OFFICE OF THE ATTORNEY GENERAL'S
BUREAU OF CONSUMER PROTECTION**

By _____
Michael Saunders, Senior Deputy Attorney General

March _____, 2018

TESLA, INC.

By 
Curt Ledford

March 20, 2018

NEVADANS FOR CLEAN AFFORDABLE RELIABLE ENERGY

By _____
Robert Johnston

March _____, 2018

INTERSTATE RENEWABLE ENERGY COUNCIL, INC.

By _____
Joseph Petta

March _____, 2018

**OFFICE OF THE ATTORNEY GENERAL'S
BUREAU OF CONSUMER PROTECTION**

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Michael Saunders, Senior Deputy Attorney General

March _____, 2018

TESLA, INC.

By _____
Curt Ledford

March _____, 2018

NEVADANS FOR CLEAN AFFORDABLE RELIABLE ENERGY

By Robert A. Johnston
Robert Johnston

March 20, 2018

INTERSTATE RENEWABLE ENERGY COUNCIL, INC.

By _____
Joseph Petta

March _____, 2018

**OFFICE OF THE ATTORNEY GENERAL'S
BUREAU OF CONSUMER PROTECTION**

By _____
Michael Saunders, Senior Deputy Attorney General

March _____, 2018

TESLA, INC.

By _____
Curt Ledford


March _____, 2018

NEVADANS FOR CLEAN AFFORDABLE RELIABLE ENERGY

By _____
Robert Johnston

March _____, 2018

INTERSTATE RENEWABLE ENERGY COUNCIL, INC.

By 
Joseph Petta

March 20, 2018

Exhibit A

Rule No. 15 Revisions – Redline Document

NEVADA POWER COMPANY
P.O. Box 98910
Las Vegas, NV 89151
Tariff No. 1-B
cancels
Tariff No. 1-A (withdrawn)

Cancelling 2nd Revised PUCN Sheet No. 92
1st Revised PUCN Sheet No. 92

RULE NO. 15

GENERATING FACILITY INTERCONNECTIONS

A. GENERAL

1. This Rule describes the interconnection, operating and Metering requirements for Generating Facilities intended to be connected to the Utility's electric distribution system over which the Commission has jurisdiction. This rule applies only to Generating Facilities with a net capacity of 20,000 kilowatts or less unless otherwise required in federal or state law. Subject to the provisions of this Rule, the Utility will allow the interconnection of Generating Facilities with its electrical system.
2. This Rule applies only to Generating Facilities interconnected with the Utility's facilities that will operate in parallel with the Utility's Distribution System. Generating Facilities interconnected prior to the effective date of this Rule shall be governed by the requirements of the Rule in effect at the time the Generating Facilities were installed and their existing interconnection agreements.
3. Capitalized terms used in this Rule, and not defined in the Utility's other tariffs, will have the meaning ascribed to such terms in Section B of this Rule. The definitions set forth in this Rule will apply to this Rule, related tariff riders for standby service and may not apply to the Utility's other Rules.
4. Generating Facilities that are intended for isolated operation and not Parallel Operation with the Utility's distribution system are not addressed in this Rule. Such Generating Facilities shall be addressed in the Utility's Rule 19.

(N, D)

B. DEFINITIONS

The definitions set forth in this Section B are applicable only to this Rule, its corresponding agreements and rate schedules that apply to standby service.

Active Anti-Islanding Scheme: A control scheme installed with the Generating Facility that senses and prevents the formation of an Unintended Island.

Applicant: An Applicant applying for interconnection, under the provisions of Utility's Rule 15.

Application: Documentation submitted to the Utility by the potential Applicant that contains sufficient information necessary to begin the application process.

(N, D)

(N)

(N)

(Continued)

<p>Issued: 01-09-04 Effective: 12-17-03 Advice No.: 293-R(1)</p>	<p>Issued By: Mary O. Simmons Vice President</p>	
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NEVADA POWER COMPANY
 P.O. Box 98910
 Las Vegas, NV 89151
 Tariff No. 1-B
 cancels
 Tariff No. 1-A (withdrawn)

2nd Revised PUCN Sheet No. 93
 1st Revised PUCN Sheet No. 93

RULE NO. 15

GENERATING FACILITY INTERCONNECTIONS

B. DEFINITIONS, (Continued)

Certification; Certified; Certificate: The documented results of a successful Certification Testing.

Certification Test: A test adopted by the Utility that verifies conformance of certain equipment with Commission-approved performance standards in order to be classified as Certified Equipment. Certification Tests are normally performed by an NRTL such as the Underwriter's Laboratory.

Certified Equipment: Equipment used in a Generating Facility that has passed the Certification Test.

Commissioning Test: A test performed during the commissioning of all or part of a Generating Facility system to achieve one or more of the following:

- Verify specific aspects of its performance;
- Calibrate its instrumentation;
- Establish instrument or Protective Function set-points.

Dedicated Transformer; Dedicated Distribution Transformer: A transformer that provides Electricity Service to a single Customer. The Customer may or may not have a Generating Facility.

Distribution System: All electrical wires, equipment, and other facilities owned or provided by the Utility by which the Utility provides Distribution Service, including High Voltage Distribution Service as defined in Rule 9, to its Customers.

Emergency: An actual or imminent condition or situation, which jeopardizes the Utility's Distribution System Integrity.

Energy Storage Device: A device that captures energy produced at one time, stores that energy for a period of time, and delivers that energy as electricity for use at a future time. For purposes of this Rule only, an Energy Storage Device can be considered a Generator. While an Energy Storage Device may be paired with a Net Metering System, it does not qualify to be considered as a Net Metering System, either as a stand-alone installation or when paired with a Net Metering System.

Field Testing: Testing performed in the field to determine whether equipment meets the Utility's requirements for safe and reliable Interconnection.

Generating Facility: All Generating Units that are included in a Generating Facility Interconnection Agreement.

Generator or Generating Unit: A device that converts converting-mechanical, chemical or solar energy into electrical energy, including all of its protective and control functions and structural appurtenances. An Energy Storage Device can be considered a Generator. One or more Generators comprise a Generating Facility.

(Continued)

Issued: 01-09-04
 Effective: 12-17-03
 Advice No.: 293-R(1)

Issued By:
 Mary O. Simmons
 Vice President

(N)

(N)

Commented [HC1]:
 2018-01-09: Statement that an ESD can be considered a Generator under Rule 15 has been moved from definition of Generator or Generating Unit to here. Language added clarifying that an ESD is not a NEM System.

NEVADA POWER COMPANY
P.O. Box 98910
Las Vegas, NV 89151
Tariff No. 1-B
cancels
Tariff No. 1-A (withdrawn)

Cancelling 1st Revised PUCN Sheet No. 93A
Original PUCN Sheet No. 93A

RULE NO. 15

GENERATING FACILITY INTERCONNECTIONS

(N)

B. DEFINITIONS. (Continued)

Gross Nameplate Rating: The gross generating capacity of a Generating Unit or the total of the gross generating capacity of the Generating Units comprising a Generating Facility as designated by the manufacturer(s) of the Generating Facility(s).

Host Load: Electrical power that is consumed by the Customer at the property on which the Generating Facility is located.

Inadvertent Export: The unplanned, uncompensated transfer of electrical energy from a Generator or Generating Facility to the Utility's Distribution System across the Point of Common Coupling.

Initial Review: The review by the Utility, following receipt of an Application, to determine the following: If an Generating Facility Application qualifies for Simplified Interconnection, or If an Generating Facility Application can be made to qualify for Interconnection with supplemental review determining any potential additional requirements, or If an Interconnection Study is required, the cost estimate and schedule for performing the Interconnection Study

In-rush Current: The current drawn by the Generating Facility during startup.

Interconnection and Operating Agreement: An agreement between the Utility and the Producer that gives each the certain rights and obligations to effect, operate, modify, or end Interconnection.

Interconnection; (Interconnected): The physical connection of a Generating Facility in accordance with the requirements of these rules so that Parallel Operation with the Utility system can occur (has occurred).

Interconnection Facilities: The electrical wires, switches and related equipment that interconnect a Generating Facility to the Utility's Distribution System.

Interconnection Study: A study to establish the requirements for Interconnection of a Producer.

Island; Islanding: A condition on the Utility's Distribution System in which one or more Generating Facilities deliver power to Customers using a portion of the Utility's Distribution System that is electrically isolated from the remainder of the Utility's Distribution System.

Line Section: That portion of the Utility's Distribution System connected to a Customer bounded by automatic sectionalizing devices or the end of the line. **(Continued)**

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Las Vegas, NV 89151
Tariff No. 1-B
cancels
Tariff No. 1-A (withdrawn)

Cancelling 2nd Revised PUCN Sheet No. 93B
1st Revised PUCN Sheet No. 93B

RULE NO. 15

GENERATING FACILITY INTERCONNECTIONS

B. DEFINITIONS, (Continued)

Metering Equipment: All equipment, hardware, software including meter cabinets, conduit, etc. that is necessary for Metering.

Metering: The measurement of electrical power flow in kW and/or kWh, and, if necessary, kVAR at a point, and its display to the Utility, as required by this Rule.

Momentary Parallel Operation: The interconnection of a Generating Facility to the Distribution System for one ~~fifteen~~ 15 seconds (9060 cycles) or less.

Nationally Recognized Testing Laboratory (NRTL): A laboratory accredited to perform the Certification Testing requirements under this Rule.

Net Energy Metering: Metering for the receipt and delivery of electricity between the Producer and the Utility pursuant to Nevada Revised Statutes 704.769 and Schedule NMR-A, NMR-B, ~~and NMR-G, and NMR-405~~. Over a given time frame, (typically a one month) the difference between these values yields either net consumption or surplus. The meter registers are ratcheted to prevent reverse registration. If available, a single meter may be allowed to spin backward to yield the same effect as a directional two-meter (or register) arrangement.

Commented [HC2]:
2018-01-09: Added NMR-405.

Net Generation Metering: The Metering of the net electrical energy output in kW and kWh from a given Generating Facility. This may also be the measurement of the difference between the total electrical energy produced by a Generating Unit and the electrical energy consumed by the auxiliary equipment necessary to operate the Generating Unit. For a Generating Unit with no Host Load, Metering that is located at the point of Common Coupling. For a Generating Unit with Host Load, Metering that is located at the Generating Unit bus after the point of auxiliary load(s) and prior to serving Host Load.

Net Metering Systems: Those systems operating in parallel with the Utility as set forth in NRS 704.766 to 704.775 and Schedule NMR-A, ~~and NMR-B, and NMR-G, and NMR-405~~. A Net Metering System is defined in NRS 704.771. Addition of an Energy Storage Device must not result in a violation of any limitations placed on Net Metering Systems in NRS 704.771.

Commented [HC3]:
2018-01-09: Added NMR-405.

Net Nameplate Rating: The gross generating capacity of a Generating Unit or the total of the gross generating capacity of the Generating Units comprising a Generating Facility as designated by the manufacturer(s) of the Generating Unit(s) minus the consumption of electrical power of the Generating Unit(s). Where the gross generating capacity of a Generating Unit or Units is limited (e.g., through the use of a control system, power relay(s), or other similar device settings or adjustments), the Net Nameplate Rating shall be the maximum specified by the Applicant in the Application. The Net Nameplate Rating will subsequently be contained in the net metering agreement or Interconnection and Operating Agreement.

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RULE NO. 15

GENERATING FACILITY INTERCONNECTIONS

B. DEFINITIONS, (Continued)

Network Service: More than one electrical feeder providing Distribution Service at a Point of Common Coupling.

Non-Exporting: Designed to prevent or limit the transfer of electrical energy from a Generating Unit or the Generating Facility to the Utility by any of the five options in Section 1.4.b. Non-Exporting includes scenarios where Inadvertent Export could occur.

Non-Islanding: Designed to detect and disconnect from a stable Unintended Island with matched load and generation. Reliance solely on under/over voltage and frequency trip is not considered sufficient to qualify as Non-Islanding.

Parallel Operation: The simultaneous operation of a Generating Facility with power delivered or received by the Utility while interconnected. For the purpose of this Rule, Parallel Operation includes only those Generating Facilities that are so interconnected with the Utility's Distribution System for more than 9060 cycles (~~one fifteen~~ seconds).

Periodic Test: A test performed on part or all of a Generating Facility at pre-determined time or operational intervals to achieve one or more of the following: 1) Verify specific aspects of its performance, 2) Calibrate instrumentation, 3) Verify and re-establish instrument or Protective Function set-points.

Point of Common Coupling Metering: Metering located at the Point of Common Coupling. This is the same Metering as Net Generation Metering for Generating Facilities with no Host Load.

Point of Common Coupling (PCC): The transfer point for electricity between the electrical conductors of the Utility and the electrical conductors of the Producer.

Point of Interconnection: The electrical transfer point between a Generating Facility and the electrical distribution system. This may or may not be coincident with the Point of Common Coupling.

Producer: The entity that executes an Interconnection and Operating Agreement with the Utility. The Producer may or may not own and operate the Generating Facility, but is responsible for the rights and obligations related to the Interconnection and Operating Agreement.

Production Test: A test performed on each device coming off the production line to verify certain aspects of its performance.

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RULE NO. 15

GENERATING FACILITY INTERCONNECTIONS

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B. **DEFINITIONS**, (Continued)

Protective Function(s): The equipment, hardware and/or software in a Generating Facility (whether discrete or integrated with other functions) whose purpose is to protect against Unsafe Operating Conditions.

Prudent Electrical Practices: Those practices, methods, and equipment, as changed from time to time, that are commonly used in prudent electrical engineering and operations to design and operate electric equipment lawfully and with safety, dependability, efficiency, and economy.

Scheduled Operation Date: The date specified in the Generating Facility Interconnection Agreement when the Generating Facility is, by the Producer's estimate, expected to begin Initial Operation.

Secondary Network: A network supplied by several primary feeders suitably interlaced through the area in order to achieve acceptable loading of the transformers under emergency conditions and to provide a system of extremely high service reliability. Secondary networks usually operate at 600 V or lower.

Simplified Interconnection: Interconnection conforming to the minimum requirements under this Rule, as determined by Section I.

Single Line Diagram; Single Line Drawing: A schematic drawing, showing the major electric switchgear, Protective Function devices, wires, Generators, transformers and other devices, providing sufficient detail to communicate to a qualified engineer the essential design and safety of the system being considered.

Short Circuit Contribution Ratio (SCCR): The ratio of the Generating Facility's short circuit contribution to the Utility's short circuit contribution for a three-phase fault at the high voltage side of the distribution transformer connecting the Generating Facility to the Utility's system.

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RULE NO. 15

GENERATING FACILITY INTERCONNECTIONS

B. DEFINITIONS, (Continued)

Special Facilities: Special Facilities are (a) facilities requested by the Producer which are in addition to or in substitution for standard facilities which the Utility would normally provide for delivery of service at one point, through one meter, at one voltage class under its tariff schedules, or (b) a pro rata portion of the facilities requested by an applicant, allocated for the sole use of such applicant, which would not normally be allocated for such sole use. Unless otherwise provided by the Utility's filed tariff schedules, Special Facilities will be installed, owned and maintained or allocated by Utility as an accommodation to the Producer only if acceptable for operation by the Utility and the reliability of service to the Utility's other customers is not impaired.

Stability: The return to normalcy of the Utility's Distribution System, following a disturbance. Stabilization is usually measured as a time period during which voltage and frequency are within acceptable ranges.

Starting Voltage Drop: The percentage voltage drop at a specified point resulting from In-rush Current. The SVD can also be expressed in volts on a particular base voltage, (e.g. 6 volts on a 120-volt base, yielding a 5% drop).

Supplemental Review: A process wherein Utility further reviews an Application that fails one or more of the Initial Review Process screens. The Supplemental Review may result in one of the following: (a) approval of Interconnection; (b) approval of Interconnection with additional requirements; or (c) cost and schedule for an Interconnection Study.

System Integrity: The condition under which a Distribution System is deemed safe and can reliably perform its intended functions in accordance with the safety and reliability rules of the Utility.

Telemetry: The electrical or electronic transmittal of Metering data on a real-time basis to the Utility.

Transfer Trip: A Protective Function that trips a Generating Facility remotely by means of an automated communications link controlled by Utility.

Type Test: A test performed on a sample of a particular model of a device to verify specific aspects of its design, construction and performance.

Unintended Island: The creation of an island, usually following a loss of a portion of the Utility's Distribution System, without the approval of the Utility.

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