

-
-
-

Original Filing

Public Utilities Commission of Nevada
Electronic Filing

Submitted: 7/1/2020 10:05:02 AM

Fee Submitted: \$200.00

Echeck Transaction ID :5936230649616131304261

Reference: 9cce5866-10a0-44a2-ac63-0bf80274ebc0

Reference:

Filed For: NPC SPPC

In accordance with NRS Chapter 719,
this filing has been electronically signed and filed
by: /s LoriPetersen

By electronically filing the document(s),
the filer attests to the authenticity of the electronic signature(s) contained therein.

This filing has been electronically filed and deemed to be signed by an authorized
agent or
representative of the signer(s) and
NPC SPPC

BEFORE THE PUBLIC UTILITIES COMMISSION OF NEVADA

Application of Nevada Power Company d/b/a NV Energy and Sierra Pacific Power Company d/b/a NV Energy for Approval of their 2020 Combined Annual Demand Side Management Update Report as it relates to the Action Plan of their 2019-2038 Triennial Integrated Resource Plan.

Docket No. 20-07 _____

VOLUME 1 OF 7

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

DESCRIPTION	PAGE NUMBER
Transmittal Letter	2
Table of Contents	4
Certificate of Service	8
Application	10
Draft Notice	16
TESTIMONY	
Adam Grant	19
Kimberly Lukasiak	37
Robert R. Oliver	50
Patricia Rodriguez	81
2020 Annual Demand Side Management Update Report	97

TRANSMITTAL LETTER



July 1, 2020

Ms. Trisha Osborne
Assistant Commission Secretary
PUBLIC UTILITIES COMMISSION OF NEVADA
1150 East William Street
Carson City, Nevada 89701-3109

RE: Application of Nevada Power Company d/b/a NV Energy and Sierra Pacific Power Company d/b/a NV Energy for approval of their 2020 Combined Annual Electric Demand Side Management Update Report as it relates to the Action Plan of their 2019-2038 Triennial Joint Integrated Resource Plan.

Dear Ms. Osborne:

Enclosed for filing please find the Application of Nevada Power Company d/b/a NV Energy and Sierra Pacific Power Company d/b/a NV Energy for approval of their 2020 Combined Annual Electric DSM Update Report for as it relates to the Action Plan of their 2019-2038 Joint Triennial Integrated Resource Plan.

The filing contains six volumes and is organized as follows:

- Volume 1 - Transmittal Letter, Table of Contents and Certificate of Service, Application, Draft Notice, Testimony and 2020 Annual Electric DSM Update Report
- Volume 2 - Technical Appendix (DSM-1 to DSM-8)
- Volume 3 - Technical Appendix (DSM-9 to DSM-15)
- Volume 4 - Technical Appendix (DSM-16 to DSM-19)
- Volume 5 - Technical Appendix (DSM-20 to DSM-21)
- Volume 6 - Technical Appendix (DSM-22 to DSM-24)
- Volume 7 - Technical Appendix (DSM-25 to DSM-26)

Should you have any questions regarding this filing, please contact me at (702) 402-5697 or dbrooks@nvenergy.com.

Respectfully submitted,

/s/ Douglas Brooks
Douglas Brooks
Senior Attorney

TABLE OF CONTENTS

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

TABLE OF CONTENTS

VOLUME 1 of 7		Page No.
Transmittal Letter		2
Table of Contents		4
Certificate of Service		8
Application		10
Draft Public Notice		16
TESTIMONY		
Adam Grant		19
Kimberly Lukasiak		37
Robert R. Oliver		50
Patricia Rodriguez		81
2020 Annual Demand Side Management Update Report		97
VOLUME 2 of 7		Page No.
TECHNICAL APPENDICES		Page No.
DSM-1	PortfolioPro Model Manual	2
DSM-2	2019 Combined Sierra Gas and Electric Energy Savings TRC Workpapers	43
DSM-3	DSM Collaborative Meetings Workpapers	48
DSM-4	M&V Process ADM Detailed M&V Process	133
DSM-5	Energy Education - NPC 2019 M&V Evaluation Report	148
DSM-6	Energy Education - SPPC 2019 M&V Evaluation Report	185
DSM-7	Energy Reports - NPC 2019 M&V Evaluation Report	227
DSM-8	Energy Reports - SPPC 2019 M&V Evaluation Report	280

VOLUME 3 of 7**TECHNICAL APPENDICES**

	Page No.
DSM-9 Residential Lighting - NPC 2019 M&V Evaluation Report	2
DSM-10 Residential Lighting - SPPC 2019 M&V Evaluation Report	47
DSM-11 Energy Assessments - NPC 2019 M&V Evaluation Report	92
DSM-12 Energy Assessments - SPPC 2019 M&V Evaluation Report	135
DSM-13 Direct Install - NPC 2019 M&V Evaluation Report	179
DSM-14 Direct Install - SPPC 2019 M&V Evaluation Report	231
DSM-15 Residential Air Conditioning - NPC 2019 M&V Evaluation Report	285

VOLUME 4 of 7**TECHNICAL APPENDICES**

	Page No.
DSM-16 Demand Response - Residential - NPC 2019 M&V Evaluation Report	2
DSM-17 Demand Response - Residential - SPPC 2019 M&V Evaluation Report	129
DSM-18 Schools - NPC 2019 M&V Evaluation Report	222
DSM-19 Schools - SPPC 2019 M&V Evaluation Report	273

VOLUME 5 of 7**TECHNICAL APPENDICES**

	Page No.
DSM-20 Commercial – Business Energy Services - NPC 2019 M&V Evaluation Report	2
DSM-21 Commercial - Business Energy Services - SPPC 2019 M&V Evaluation Report	161

VOLUME 6 of 7**TECHNICAL APPENDICES**

	Page No.
DSM-22 Demand Response - Commercial - NPC 2019 M&V Evaluation Report	2
DSM-23 Demand Response - Commercial - SPPC 2019 M&V Evaluation Report	86
DSM-24 Pool Pumps - NPC 2019 M&V Evaluation Report	159

VOLUME 7 of 7

TECHNICAL APPENDICES

Page No.

DSM-25	2019 Program Development 2019 Field Trial Reports	2
DSM-26	2019 Low Income Savings 2019 Low Income Savings - Percent	313

CERTIFICATE OF SERVICE

CERTIFICATE OF SERVICE

I hereby certify that I have served the foregoing **NEVADA POWER COMPANY D/B/A NV ENERGY'S AND SIERRA PACIFIC POWER COMPANY D/B/A NV ENERGY'S 2020 ANNUAL ELECTRIC DEMAND SIDE MANAGEMENT UPDATE REPORT** in Docket No. 20-07___ upon the persons listed below via electronic media:

Staff Counsel Division
Public Utilities Comm. of Nevada
9075 West Diablo Drive Suite 250
Las Vegas, NV 89148
pucn.sc@puc.nv.gov

Sam Crano
Staff Counsel Division
Public Utilities Comm. of Nevada
1150 E. William Street
Carson City, NV 89701-3109
scrano@puc.nv.gov

Michael Saunders
Attorney General's Office
Bureau of Consumer Protection
8945 W. Russell Road, Suite 204
Las Vegas, NV 89148
bcpserv@ag.nv.gov

Attorney General's Office
Bureau of Consumer Protection
100 N. Carson St.
Carson City, NV 89701
bcpserv@ag.nv.gov

DATED this 1st day of July, 2020.

/s/ Lori Petersen
Lori Petersen
Senior Legal Administrative Assistant
Nevada Power Company
Sierra Pacific Power Company

APPLICATION

BEFORE THE PUBLIC UTILITIES COMMISSION OF NEVADA

1
2 Application of Nevada Power Company d/b/a)
3 NV Energy and Sierra Pacific Power Company)
4 d/b/a NV Energy for Approval of their 2020) Docket No. 20-07 ____
5 Combined Annual Demand Side Management)
6 Update Report as it relates to the Action Plan)
7 Of their 2019-2038 Triennial Integrated)
8 Resource Plan. /

APPLICATION

9 Nevada Power Company d/b/a NV Energy (“Nevada Power”) and Sierra Pacific Power
10 Company d/b/a NV Energy (“Sierra” and, collectively with Nevada Power, “NV Energy” or the
11 “Companies”) respectfully file this Application for approval of their 2020 Combined Annual
12 Demand Side Management Update Report pursuant to Sections 704.934(8) and 703.535 of the
13 Nevada Administrative Code (“NAC”). The Application contains the complete analysis that
14 Nevada Power and Sierra used to determine which energy efficiency and conservation programs
15 they propose to continue and which programs it proposes to cancel in 2021.

I. Summary of Application

16
17 1. Through this Application, Nevada Power and Sierra Pacific seek Commission
18 acceptance of a demand side management (“DSM”) portfolio for 2021. The 2020 Combined
19 Annual DSM Update Report proposes an overall DSM budget for 2021 of \$50,000,000, with
20 \$37,470,000 for Nevada Power and \$12,530,000 for Sierra.

21 2. NV Energy expects that the proposed portfolio of DSM programs will produce
22 significant savings. The portfolio of energy efficiency programs is expected to produce
23 approximately 323,661,000 kilowatt hours (“kWh”) of energy savings annually and 268,010
24 kilowatts (“kW”) of demand savings in 2021. It is also expected to produce benefits that exceed
25 its costs; the Total Resource Cost (“TRC”) cost-benefit ratio for the combined Companies in
26 2021 is calculated to be 2.49, with 2.65 for Nevada Power and 2.00 for Sierra.

II. The Applicant

3. Nevada Power is a wholly-owned subsidiary of NV Energy, Inc., which is itself an indirect subsidiary of Berkshire Hathaway Energy. Nevada Power provides retail electric service to the public in Southern Nevada in portions of Clark and Nye Counties and is a “public utility” as that term is defined and used in NRS 704.741 to 704.751. Nevada Power’s principal place of business, mailing address, and telephone number are: 6226 West Sahara Avenue, P.O. Box 98910, Las Vegas, Nevada 89151, 702-402-5000.

4. Sierra is a wholly-owned subsidiary of NV Energy, Inc., which is itself an indirect subsidiary of Berkshire Hathaway Energy. Sierra provides retail electric service to the public in northern Nevada and is a “public utility” as that term is defined and used in NRS 704.741 to 704.751. Sierra’s principal place of business, mailing address, and telephone number are: 6100 Neil Road, P.O. Box 10100, Reno, Nevada 89520, 775-834-4011.

5. All correspondence related to this Application should be transmitted to Nevada Power’s counsel and to Nevada Power’s Manager, Regulatory Services, as set forth below:

Douglas Brooks Senior Attorney Nevada Power Company Sierra Pacific Power Company P.O. Box 98910 Las Vegas, NV 89151 Tel: 702-402-5697 Fax: 702-402-2069 dbrooks@nvenergy.com	Aaron Schaar Manager Regulatory Services Nevada Power Company Sierra Pacific Power Company 6100 Neil Road Reno, NV 89511 Tel: 775-834-5823 Fax: 775-834-4484 regulatory@nvenergy.com
--	---

III. The Application

6. The Application consists of the 2020 Combined Annual DSM Update Report, a Technical Appendix and the prepared direct testimony of four witnesses. The Application, the 2020 Combined Annual DSM Update Report, the Technical Appendices and the prepared direct

1 testimony contain all of the material facts that NV Energy is prepared to prove in its direct case,
2 and provide sufficient evidence to support the relief requested by it.

3 7. NV Energy's 2020 Combined DSM Update Report is organized in seven sections.
4 Section 1 presents the request for acceptance of this 2020 Combined Annual Demand Side
5 Management Report and the compliance items and directives for which the Companies are
6 requesting the Commission to find the Companies in compliance. Section 1 also includes a
7 roadmap to the Commission's regulations that apply to this 2020 Combined DSM Update Report
8 that indicates the parts of this filing that fulfill the requirements specified by each section of the
9 applicable regulations. Section 2 provides a summary of DSM activities for year 2019 and a
10 summary of DSM performance for past years. Section 3 provides the program year budgets and
11 targets for 2020. Section 4 presents the plan for the 2021 program year. Sections 5 through 7
12 provide the program data sheets for the programs proposed to be continued, grouped by segment,
13 Education and Development, Home Services, and Business Services. The program data sheets
14 contain descriptions and analyses of past program performance, the results of the financial
15 analysis of each program, and provide the scope and scale for each program for the 2021 program
16 year.

17 8. The Technical Appendix consists of the detailed measurement and verification
18 reports and other supporting data for each of the programs where applicable.

19
20 **IV. Measurement and Verification Reports**

21 9. NV Energy files and requests approval of measurement and verification reports
22 with its demand side management plan and updates for several reasons. NV Energy, the
23 Regulatory Operations Staff ("Staff"), other stakeholders, and the Commission use measured
24 and verified kilowatt-hour and demand savings to assess, on a retrospective basis, the
25 performance of DSM programs. On a prospective basis, NV Energy, Staff, other stakeholders
26 and the Commission use measured and verified savings to make budgetary decisions;
27 specifically, the information is used to decide whether the Companies should continue to field a
28

1 given program and, if so, how much the Companies should spend to field the program. This
2 approach, which provides for the vetting of the measurement and verification reports in a single
3 forum, is administratively efficient and consistent with the Commission's regulations.
4 Furthermore, energy savings approved by the Commission based upon the measurement and
5 verification studies are used to determine the amount of Portfolio Energy Credits that are derived
6 from energy savings derived from DSM programs during a certain year.¹ Accordingly, the
7 Companies request that the Commission approve the 2019 Measurement and Verification reports
8 contained in the Technical Appendix, as Items DSM-5 through DSM-24.

9
10 **V. Request to Consolidate**

11 10. Pursuant to NAC 703.740 and the Commission orders in Docket Nos. 19-07004
12 and 19-07005, Sierra requests that this Application be consolidated with the Application of
13 Sierra Pacific Power Company d/b/a NV Energy for approval of its 2020 Natural Gas
14 Conservation and Energy Efficiency Plan Report.

15
16 **VI. Requests for Relief**

17 Nevada Power and Sierra respectfully request that the Commission grant the request for
18 consolidation with the Application of Sierra Pacific Power Company d/b/a NV Energy for
19 approval of their 2020 Natural Gas Conservation and Energy Efficiency Plan Report and, within
20 180 days after the Application is accepted for filing, the Commission issue an order that:

21 A. Accepts the 2020 Combined Annual DSM Update Report pursuant to NAC
22 704.934(8), approves the proposed portfolio of DSM programs for implementation in 2021 and
23 grants the Application;

24 B. Finds that Nevada Power and Sierra have satisfied each of the directives listed in
25 Table – DSM-3 on page 10 of the 2020 Annual DSM Update Report;

26 _____
27 ¹ See, NRS 704.7821(2)(b); NAC 704.8875(1)(e).
28

1 C. Finds, pursuant to NAC 704.9522, that Nevada Power and Sierra have complied
2 with, and ensured that all energy efficiency and conservation contracts entered into by Nevada
3 Power and Sierra comply with the measurement and verification protocol approved by the
4 Commission;

5 D. Approves the 2019 Measurement and Verification reports contained in the
6 Technical Appendix;

7 E. Grants all other relief the Commission deems appropriate and necessary.

8 Submitted this 1st day of July, 2020.

9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

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

By: /s: Douglas Brooks
Douglas Brooks
Senior Attorney
P.O. Box 98910
6226 West Sahara Avenue
Las Vegas, Nevada 89151
702-402-5697 tel.
dbrooks@nvenergy.com

Roman Borisov
Senior Attorney
6100 Neil Rd.
Reno, NV 89511
775-834-3470
rborisov@nvenergy.com

DRAFT NOTICE

PUBLIC UTILITIES COMMISSION OF NEVADA
DRAFT NOTICE
(Applications, Tariff Filings, Complaints, and Petitions)

The Commission requires a draft notice be included with all applications, petitions and complaints. See Nevada Administrative Code 703.162. Please include one copy of this form with all the above filings.

- I. A title that generally describes the relief requested (NAC 703.160(5)(a)):

APPLICATION of NEVADA POWER COMPANY d/b/a NV ENERGY and SIERRA PACIFIC POWER COMPANY d/b/a NV ENERGY for approval of their 2020 Annual Electric Demand Side Management Update Report as it relates to the Action Plan of their 2019-2038 Triennial Integrated Resource Plan.

- II. The name of the applicant, complainant, petitioner or the name of the agent for the applicant, complainant or petitioner (NAC 703.160(5)(b)):

NEVADA POWER COMPANY d/b/a NV ENERGY (“NEVADA POWER”) AND SIERRA PACIFIC POWER COMPANY d/b/a NV ENERGY (“SIERRA”).

- III. A brief description of the purpose of the filing or proceeding, including, without limitation, a clear and concise introductory statement that summarizes the relief requested or the type of proceeding scheduled (NAC 703.160(5)(c)):

This is NEVADA POWER’S and SIERRA’S application for approval of their 2020 Combined Annual DSM Update Report as it relates to the Action Plan. The Action Plan was first approved by the Commission as part of NEVADA POWER’S and SIERRA’S 2019-2038 Integrated Resource Plan in Docket No. 18-06003.

The Action Plan specifies the details that NEVADA POWER and SIERRA intend to undertake to meet their energy supply requirements during the three years immediately following the year in which the resource plan is filed, including demand side management measures. The Combined Annual DSM Update Report provides the complete analysis NEVADA POWER and SIERRA used in determining for the upcoming year which conservation and DSM programs are to be continued and which programs are to be cancelled.

As supported by the Annual DSM Update Report, NEVADA POWER is proposing to implement thirteen DSM programs for 2021 and SIERRA is proposing to implement eleven DSM programs for 2021.

- IV. A statement indicating whether a consumer session is required to be held pursuant to Nevada Revised Statutes (“NRS”) 704.069 (NAC 703.162(2)):

A consumer session is not required pursuant to NRS 704.069.

- V. If the draft notice pertains to a tariff filing, please include the tariff number AND the section number(s) or schedule number(s) being revised.

This draft notice does not pertain to a tariff filing.

ADAM GRANT

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

BEFORE THE PUBLIC UTILITIES COMMISSION OF NEVADA

Nevada Power Company d/b/a NV Energy and
Sierra Pacific Power Company d/b/a NV Energy
2020 Combined Demand Side Management Annual Update Report
Docket No. 20-07 _____

PREPARED DIRECT TESTIMONY OF

Adam Grant

I. INTRODUCTION AND PURPOSE OF TESTIMONY

1. Q. PLEASE STATE YOUR NAME, OCCUPATION, BUSINESS ADDRESS AND PARTY FOR WHOM YOU ARE FILING TESTIMONY.

A. My name is Adam Grant. I am the Manager, Demand Side Management, Program Delivery, for Nevada Power Company d/b/a NV Energy (“Nevada Power” or the “Company”) and Sierra Pacific Power Company d/b/a NV Energy (“Sierra” and, together with Nevada Power, the “Companies”). My business address is 6226 West Sahara Avenue in Las Vegas, Nevada. I am filing testimony on behalf of the Companies.

2. Q. PLEASE DESCRIBE YOUR BACKGROUND AND EXPERIENCE IN THE UTILITY INDUSTRY.

A. My professional experience includes 12 years in the utility industry. I have held a variety of positions with the Companies since I joined Nevada Power as a Communications Specialist in 2007. The details of my background and experience are provided in **Exhibit Grant-Direct-1**.

1 **3. Q. PLEASE DESCRIBE YOUR RESPONSIBILITIES AS MANAGER,**
2 **DEMAND SIDE MANAGEMENT, AND PROGRAM DELIVERY.**

3 A. As Manager, Demand Side Management, Program Delivery, my
4 responsibilities include managing the overall delivery of the Companies'
5 residential and commercial demand side management ("DSM") programs
6 as well as the energy education and energy assessment programs and DSM
7 customer engagement.

8
9 **4. Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE PUBLIC**
10 **UTILITIES COMMISSION OF NEVADA ("COMMISSION")?**

11 A. Yes, I have testified in proceedings before the Commission in Docket Nos.
12 16-07005, 17-03001, 17-03002, 19-03001, 19-03002, 20-02026 and
13 20-02027.

14
15 **5. Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

16 A. My testimony supports Nevada Power's and Sierra's recommendation that
17 the Commission accept their Combined 2020 Annual DSM Update Report
18 ("DSM Update Report"). The DSM Update Report provides the results of
19 the 2019 program year, a status update on the 2020 program year and
20 documents the analysis used by the Companies to determine for the 2021
21 program year which energy efficiency and conservation projects they
22 propose to continue or cancel.

23
24 **6. Q. ARE YOU SPONSORING ANY EXHIBITS?**

25 A. Yes. I am sponsoring the following exhibit:

26 **Exhibit Grant-Direct-1** Statement of Qualifications

1 7. Q. PLEASE PROVIDE AN OVERVIEW OF YOUR TESTIMONY.

2 A. In Section II of my testimony, I summarize the 2019 DSM program year
3 results. In Section III, I summarize Nevada Power's and Sierra's proposal
4 to continue DSM programs in the 2021 program year with a portfolio level
5 budget below what was approved by the Commission in the Companies'
6 Annual Report filing in Docket No. 19-07004, and discuss enhancements
7 the Companies have made in this filing to the portfolio of programs.
8

9 **II: SUMMARY OF PROGRAM YEAR 2019 RESULTS**

10 8. Q. PLEASE SUMMARIZE THE PERFORMANCE OF NEVADA
11 POWER'S NV ENERGY'S DSM PORTFOLIO FOR 2019?

12 A. The portfolio of DSM programs delivered in 2019 achieved a Total
13 Resource Cost ("TRC") ratio of 2.36 and will provide more than \$135
14 million dollars of net benefits to customers over the lives of the measures
15 installed. Overall, the portfolio achieved 327,215,222 kilowatt hours
16 ("kWh") or 95 percent of the targeted energy savings and 225,488 kilowatt
17 ("kW") or 98 percent of the targeted demand savings. Program expenditures
18 totaling \$44,557,941 were less than budgeted at 69 percent of the approved
19 budget \$64,600,000.

20
21 At Nevada Power, the portfolio achieved 232,653,028 kWh or 87 percent
22 of the targeted energy savings and 195,396 kW or 101 percent of the
23 targeted demand savings. Program expenditures totaling \$33,197,211 were
24 less than budgeted at 67 percent of the approved budget \$49,800,000.
25
26
27

1 At Sierra, the total verified energy savings for the 2019 programs were
2 94,562,194 kWh or 120 percent of the targeted energy savings. The demand
3 savings totaled 30,092 kW or 81 percent of the targeted kW savings.
4 Program expenditures totaling \$11,360,730 were less than budgeted at 77
5 percent of the approved budget of \$14,800,000.

6
7 Tables DSM-5A, DSM-5B and DSM-5C (2019 Financial Results) and
8 Tables DSM-6A, DSM-6B and DSM-6C (2019 Demand and Energy
9 Savings Results) found in Section 2 of the DSM Narrative in this filing
10 provide the performance for the portfolio in aggregate and for each
11 program. A more detailed description and analysis of the performance of
12 each program in 2019 is included in the program data sheet for each
13 program provided in Sections 5 through 7 and in the M&V Reports for each
14 program provided in Technical Appendices DSM-5 through DSM-24.

15
16 **III: THE ANALYSIS AND RECOMMENDATION FOR THE 2021 PROGRAM**
17 **YEAR**

18 **9. Q. PLEASE SUMMARIZE AND DESCRIBE THE DSM PLAN FOR**
19 **THE 2021 PROGRAM YEAR?**

20 A. The Companies propose to continue its current portfolio of DSM programs
21 with some modifications. The Companies recommend the Commission
22 accept its recommended budget of \$50,000,000 for 2021 to continue its
23 DSM programs (\$37,470,000 at Nevada Power and \$12,530,000 at Sierra).
24 The estimated annual energy savings in kWh for the 2021 program year are
25 323,661,000 kWh (238,140,000 kWh at Nevada Power and 85,521,000
26 kWh at Sierra), which equates to 1.10 percent of weather normalized
27

1 projected retail sales. The estimated annual demand savings in kW in 2021
2 are 264,102 kW statewide (228,489 kW at Nevada Power and 35,613 kW
3 at Sierra). The portfolio TRC is projected to be 2.49.

4
5 **10. Q. DID NEVADA POWER AND SIERRA MAKE ANY**
6 **FUNDAMENTAL CHANGES TO THEIR IMPLEMENTATION**
7 **STRATEGIES TO DELIVER THE PORTFOLIO OF PROGRAMS**
8 **PROPOSED IN THE FILING?**

9 A. No, they did not. The Companies are continuing their implementation
10 strategies, which integrate energy efficiency and demand response
11 programs by customer segment. The programs have been bundled into the
12 following offerings: 1) Education and Development; 2) Home Services; and
13 3) Business Services. Budgets, savings, and cost-effectiveness have been
14 presented at the program level to provide the same level of transparency as
15 prior year filings.

16
17 **11. Q. ARE NEVADA POWER OR SIERRA DISCONTINUING OR**
18 **SIGNIFICANTLY REDESIGNING ANY PROGRAMS THAT ARE**
19 **PROPOSED TO CONTINUE IN THE 2021 PROGRAM YEAR?**

20 A. The Companies are not discontinuing any programs that were approved by
21 the Commission in Docket No. 19-07004. The Companies are, however,
22 discontinuing the business component of the Energy Reports Program due
23 to lack of savings confirmed via measurement and verification.

24
25 **12. Q. WHAT PROGRAMS ARE INCLUDED IN THE 2021 PROGRAM**
26 **YEAR PORTFOLIO?**

1 A. The following programs are included for the 2021 DSM Program Year:

2 1. Education and Development

3 a. Energy Education

4 b. Energy Reports

5 c. Energy Assessments

6 d. Program Development

7 2. Home Services

8 a. Residential Lighting

9 b. Pool Pumps (Nevada Power only)

10 c. Residential Air Conditioning (Nevada Power only)

11 d. Direct Install

12 e. Residential Demand Response (Manage and Build)

13 f. Low Income

14 3. Business Services

15 a. Schools

16 b. Commercial (including non-profit agency grants)

17 c. Commercial Demand Response (Manage and Build)

18

19 **13. Q. PLEASE DESCRIBE THE PROGRAMS WITHIN EDUCATION**
20 **AND DEVELOPMENT.**

21 A. Education and Development focuses on achieving increased awareness, and
22 participation through energy education, of the Companies' DSM products
23 and services. The Education and Development category is composed of four
24 programs: Energy Education, Energy Reports, Energy Assessments, and
25 Program Development.

26

27

28 GRANT-DIRECT

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

The **Energy Education program** delivers energy use education. As noted by the Commission, energy use education is a vital part of promoting awareness of energy efficiency opportunities.¹ Energy Education is an important part of the DSM portfolio because it provides a gateway for awareness that will lead customers to participate in DSM programs or undertake energy efficiency measures independent of the available DSM programs.

The **Energy Reports program** as proposed delivers reports to residential customers in each of NV Energy’s territories to inform and motivate them to take actions to save energy by using electricity more efficiently and to drive participation in other DSM programs. Based upon two primary objectives, the Program focuses on achieving two results. First, it seeks to motivate customers to change or modify their behavior in context with similar households. Second, it seeks to provide customers with personalized information, energy-saving products and services, and practical ways to save energy and money.

The **Energy Assessments program** provides energy assessment services to a large number customers, enabling them to save energy and reduce energy bills. This Program supplements and supports the Energy Education program, and also works as a gateway to participation in other DSM programs. The program is comprised of two components: an online assessment and an in-home assessment conducted by a certified energy

¹ Dockets Nos. 15-06065, 15-07004, and 15-08011 (Nevada Power’s 2015 Integrated Resource Plan and Sierra’s Annual DSM Update Report), February 12, 2016, Modified Final Order at 21.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

consultant. The overall goal of this program is to educate customers about prudent energy use choices and assist them in taking action to reduce energy consumption and lower energy bills.

The **Program Development program** explores DSM strategies by conducting small-scale tests of emerging products or services that may enhance its current portfolio of programs or identify an opportunity for a new cost-effective DSM program.

Details of each program are provided in the program data sheets.

14. Q. PLEASE DESCRIBE THE PROGRAMS WITHIN HOME SERVICES.

A. A variety of residential services are available to approximately 1.2 million residential electric customers. Residential customers traditionally reside in single-family or multi-family homes. To address this varied set of customers, the Companies will offer a bundled set of products and services targeted to reach the vast majority of the residential market and provide customers with multiple opportunities to participate. These products and services will be implemented in an integrated fashion, which will allow a large numbers of customers to participate and benefit from the one or more of the products and services offered.

The portfolio of home services focuses on providing customers with simple ways to participate and encourages them to make long-term commitments to reduce their energy usage. The proposed portfolio of home services is

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

comprised of Residential Lighting, Pool Pumps, Direct Install, Residential High-Efficiency Air Conditioning, Residential Demand Response, and Low-Income programs.

The **Residential Lighting program** provides incentives to encourage customers to purchase and install energy-efficient lighting products through an upstream model that partners with manufacturers and retailers. The Program provides discounted pricing on high-quality light-emitting diodes lamps (“LEDs”) at participating retail locations. Program measures consist of ENERGY STAR®-qualified general service, reflectors, and specialty LEDs. LED lamps are available in various wattage equivalents and will be sold by participating retailers within the Companies’ service territories. The Companies provide incentives to participating manufactures of LEDs, which are discounted at point of purchase allowing customers see immediate price reductions.

The **Pool Pump program** provides incentives for upgrading inefficient single-speed pumps to more energy efficient variable-speed pumps. Swimming pool filtration pumps are typically the second largest user of energy in homes with residential swimming pools in the hot and dry southwest desert climate. The majority of existing pool pumps are conventional, single-speed units.

Replacing an inefficient single-speed pump with a variable-speed pump can decrease energy use up to 80 percent. This can be achieved by operating pool pumps at optimal speeds with additional savings achieved by properly

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

sizing the pool pump for the application. Variable-speed pool pumps are designed to reduce heat and friction losses within the motor for additional energy savings and longer equipment life.

The Program targets residential customers in Nevada Power’s service territory only, via retail, builder, and pool sales channels. The Program provides incentives to these industry partners for offering instant, point-of-purchase discounts (incentives) on variable-speed pumps.

The **Residential High-Efficiency Air Conditioning program** uses a mid-stream approach that is expected to encourage homeowners to purchase premium efficiency air conditioners and heat pumps. Options are available to customers both as an early replacement to more efficient equipment option or to a high-efficiency upgrade option upon equipment failure. A reduction in the required air conditioning tonnage may also off-set the incremental cost associated with the higher-efficiency unit.

The program promotes and drives high-efficiency air conditioning into the Nevada market, assisting in transforming the retrofit and replacement market through education and promotion of high-efficiency air conditioning.

The program promotes high-efficiency air conditioning installed by builders at the time of construction in both single- and multi-family housing along with a low-income component that provides air conditioning tune-ups,

