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BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

IN THE MATTER OF IDAHO POWER) COMPANY'S APPLICATION FOR) AUTHORITY TO INCREASE ITS RATES) FOR ELECTRIC SERVICE TO RECOVER COSTS ASSOCIATED WITH THE NORTH VALMY POWER PLANT.

) CASE NO. IPC-E-19-08

IDAHO POWER COMPANY

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DIRECT TESTIMONY

OF

TOM HARVEY

Q. Please state your name, business address, and
 present position with Idaho Power Company ("Idaho Power" or
 "Company").

A. My name is Tom Harvey and my business address
is 1221 West Idaho Street, Boise, Idaho 83702. I am
employed by Idaho Power as the General Manager of Power
Supply, Planning and Operations in the Power Supply
Department.

9 Q. Please describe your educational background. 10 A. I have a Bachelor of Business Administration 11 in business management from Boise State University. I also 12 attended the University of Idaho's Utility Executive Course 13 in 2011.

14 Q. Please describe your work experience with15 Idaho Power.

16 Α. I was hired by Idaho Power in July 1980 to work in the Plant Accounting Department. From 1985 through 17 18 2009, I was the Fuels Management Coordinator and then was 19 promoted to the Joint Projects Manager. In April 2015, I 20 was promoted to Resource Planning and Operations Director. 21 In January 2018, I was promoted to my current position, 22 General Manager of Power Supply, Planning and Operations in 23 the Power Supply Department. My current responsibilities include supervision over Idaho Power's jointly owned coal 24 25

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assets, integrated resource planning, load serving
 operations, and merchant activities.

3 Q. What is the purpose of your testimony in this 4 case?

5 Α. The purpose of my testimony is to discuss the 6 results of successful negotiations between Idaho Power and 7 Sierra Pacific Power Company d/b/a NV Energy ("NV Energy") by describing the provisions of the North Valmy Project 8 Framework Agreement between NV Energy and Idaho Power dated 9 10 as of February 22, 2019 ("Agreement"). I will discuss how those provisions clarify the respective rights and 11 12 obligations of Idaho Power and NV Energy ("Party" or collectively, the "Parties") with respect to the continued 13 operation, retirement, and decommissioning of the Valmy 14 plant or the units thereof, resulting in benefits for Idaho 15 Power's customers. I will also present an evaluation of 16 the economics of a Unit 2 closure supporting a December 31, 17 2025, end-of-life date. Finally, I will discuss the 18 19 prudence of investments made at the Valmy plant that have 20 added to the associated plant balances since the Company's last request to update Valmy plant balances became 21 effective on June 1, 2017, and to inform the Idaho Public 22 Utilities Commission ("Commission") of necessary future 23 24 investments at the plant to ensure Unit 1 and Unit 2

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HARVEY, DI 2 Idaho Power Company continue to be available for reliable load service through
 the end of 2019 and 2025, respectively.

3 Ο. Please describe the Valmy plant. Valmy is a coal-fired power plant that 4 Α. 5 consists of two units and is located near Winnemucca, Nevada. Unit 1 went into service in 1981 and Unit 2 6 7 followed in 1985. Idaho Power owns 50 percent, or 284 8 megawatts¹ ("MW") (generator nameplate rating), of Valmy. 9 NV Energy is the co-owner of the plant with the remaining 10 50 percent ownership and operates the Valmy facility. The 11 Parties work jointly to make decisions regarding Valmy. 12 The plant is connected via a single 345 kilovolt 13 transmission line to the Idaho Power control area at the 14 Midpoint substation. Idaho Power owns the northbound capacity and NV Energy owns the southbound capacity of this 15 16 line.

17 Coal for Valmy is shipped via railroad from various 18 mines in Utah, Wyoming, and Colorado. The power plant uses 19 a variety of emissions control technologies, including 20 state-of-the-art fabric filters that remove more than 99 21 percent of particulate emissions. Additionally, a dry 22 sorbent injection system has been installed on Unit 1 to 23 reduce acid gas emissions and flue-gas scrubber

 $^{^{\}rm 1}$ For planning purposes, Idaho Power uses the net dependable capability of 262 MW.

1 technology is utilized on Unit 2 for the reduction of 2 sulfur dioxide emissions.

3 Ο. Please describe the current agreements under which NV Energy and Idaho Power own and operate Valmy. 4 5 Α. Currently, the ownership and operation of Valmy is dictated by three agreements: the Agreement for 6 7 the Ownership of the North Valmy Power Plant Project 8 ("Ownership Agreement"), the Agreement for the Operation of 9 the North Valmy Power Plant Project ("Operation 10 Agreement"), both of which are dated December 12, 1978, and 11 the North Valmy Station Operating Procedures Criteria, 12 dated as of February 11, 1993, between Idaho Power Company and Sierra Pacific Power Company, as amended by Amendment 13 14 No. 1 to the Operating Procedure Criteria for Valmy Coal 15 Diversion Procedures and Usage, dated as of January 1, 2012 16 (collectively, the "Existing North Valmy Agreements"). The 17 Ownership Agreement sets forth Idaho Power's ownership 18 rights and interests in the Valmy plant while the Operation 19 Agreement assigns NV Energy as the operator of the Valmy 20 plant while also setting forth operating decision 21 procedures, operating expense payments, and the annual 22 budgeting process, among other terms and conditions. The 23 Existing North Valmy Agreements have provided the Parties 24 the basis for owning and operating the Valmy plant for over 25 40 years.

1	I. THE AGREEMENT
2	Q. Do the Existing North Valmy Agreements offer
3	NV Energy or Idaho Power the ability to end participation
4	in a Valmy unit?
5	A. No. While the Ownership Agreement provides
6	for cessation of operations under a variety of scenarios,
7	none contemplate a scenario in which one party chooses to
8	exit one or both units during the time the other party
9	wishes to continue operations.
10	Q. Please provide an overview of the provisions
11	of the Agreement.
12	A. As described in the testimony of Company
13	witness Matthew T. Larkin, the Agreement, included as
14	Exhibit No. 2 to my testimony, clarifies the respective
15	rights and obligations of the Parties with respect to the
16	continued operation, retirement, and decommissioning of the
17	Valmy plant or the units thereof. The Agreement sets forth
18	provisions that:
19	• Allow for the termination of participation
20	in a unit and the retirement of a unit;
21	• Include the election to retire or continue
22	to operate and the associated decommissioning study,
23	decommissioning fee, and final exit;
24	 Set forth decommissioning governance;
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• Detail decommissioning activities during 1 2 the interim period; 3 • Provide for a decommissioning plan; 4 • Establish a decommissioning budget, 5 dispute, and payment processes; and 6 • Contain representation and warranties of 7 the Parties, describe defaults, and incorporate other 8 miscellaneous terms. 9 It also provides for a contractual mechanism by which Idaho 10 Power may meet its obligations pursuant to Order No. 33771 11 in Case No. IPC-E-16-24 in which Idaho Power agreed² to use 12 prudent and commercially reasonable efforts to reach an 13 agreement with NV Energy to amend the Existing North Valmy Agreements to provide for the cessation of Idaho Power's 14 15 coal-fired operations, or participation thereof, at Valmy. 16 Α. Termination of Participation in a Unit; Retirement of a 17 Unit. 18 19 0. What are the termination of participation and 20 retirement of a unit provisions set forth in the Agreement?

² In the Matter of the Application of Idaho Power Company for Authority to Increase Its Rates for Electric Service to Recover Costs Associated with the North Valmy Plant, Case No. IPC-E-16-24, Settlement Stipulation and Motion to Approve Settlement Stipulation signed by Idaho Power, commission Staff, the Idaho Irrigation Pumpers Association, Inc., Micron Technology, Inc., the U.S. Department of Energy and Federal Executive Agencies, the Idaho Conservation League, Sierra Club, and the Industrial Customers of Idaho Power (filed May 3, 2017) ("Settlement Stipulation"). The Settlement Stipulation was approved by Commission Order No. 33771 (May 31, 2017).

Article III gives each Party the right to 1 Α. 2 elect to terminate participation in a unit, an option not 3 available in the Existing North Valmy Agreements. If a Party desires to exit a unit, that party (the "Exiting 4 5 Participant") must provide the remaining participant 6 written notice no less than 15 months prior to the proposed 7 exit date. The exit notice shall indicate whether or not 8 the Exiting Participant intends to retain ownership of its 9 ownership interests and liabilities with respect to the unit and confirm that the Exiting Participant foregoes its 10 11 right to all output and productive uses of the unit upon 12 exit of the unit. Upon receipt of the exit notice, the 13 remaining participant has the right to elect to retire such 14 unit at any point from and after the proposed exit date and 15 must provide notice to the Exiting Participant of such election on or before 90 days prior to the proposed 16 retirement date. 17

Q. Has the Company provided NV Energy an exit notice for Unit 1 pursuant to the terms of the Agreement? A. Yes. Article III acknowledges that Idaho Power's prior notice to NV Energy of its desire to exit Unit 1 on December 31, 2019, contained in the Term Sheet dated December 27, 2017, constitutes a valid exit notice.

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Q. What happens to Idaho Power's share of the
 output from a unit upon Idaho Power's cessation of
 participation in operation of that unit?

Pursuant to Section 3.1.4, if NV Energy does 4 Α. 5 not elect to retire a unit when the Company exits participation of that unit, Idaho Power's ownership 6 7 percentage share of the output of the unit will no longer 8 be available to either Party. Should inadvertent use of an 9 Exiting Participant's output occur at a unit, an 10 inadvertent output operations fee will be assessed. 11 Exhibit C, Unit Operation Limitations and Controls, of the 12 Agreement describes the means and methods to limit the net 13 capacity of a unit after a party has exited participation 14 in the operation of that unit.

15 Would Idaho Power be responsible for any costs Ο. associated with the operation of Valmy upon exiting a unit? 16 17 Α. Yes. As Mr. Larkin mentioned in his 18 testimony, the Agreement sets forth payment obligations 19 associated with a Party's exit from participation in 20 operation of a Valmy unit, which obligations are described 21 in Exhibit A of the Agreement. Under the Agreement, the 22 Company would be responsible for the applicable exit fees 23 and its portion of shared costs until the earlier of the 24 retirement date of the unit or December 31, 2025. In 25 addition, Idaho Power remains responsible for its share of

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the applicable decommissioning costs, or those liabilities, costs, and expenses arising from activities that occurred prior to exit of the unit. The Company would not, however, be responsible for the following costs arising after exit from the unit: operating expenses, fuel-related costs, costs of capital additions, or any new fixed or variable costs, associated with such unit.

8 Q. Company witness Mr. Larkin discussed the exit 9 fee and shared costs. Please describe these costs detailed 10 in Exhibit A of the Agreement.

11 Α. The exit fee and shared costs, or collectively 12 "Project Costs," are an Exiting Participant's contractual 13 payment obligations for the Valmy plant and both categories 14 of costs represent ongoing Valmy-related costs that the 15 Exiting Participant would have been responsible for under 16 the Existing North Valmy Agreements. The exit fee is a 17 fixed dollar amount that was calculated based upon (1) 18 negotiated expected labor costs for maintenance on the 19 exited unit, (2) non-labor fixed operations and maintenance 20 ("O&M") costs for the exited unit, and (3) government-21 mandated fixed O&M costs for the exited unit.

22 Shared costs are those known, ongoing plant-related 23 payment obligations that exist regardless of a decision to 24 exit from a unit. Shared costs include the actual common 25 facility fixed O&M costs, non-exited unit fixed O&M costs,

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and fuel handling fixed O&M expenses in accordance with the
 Existing North Valmy Agreements. An Exiting Participant is
 responsible for 50 percent of the shared costs.

4 Q. Will either of the Project Costs change over 5 time?

6 The exit fee will not change over time, except Α. 7 in the event a unit is retired on or prior to December 31, 8 2025, at which time the exit fee may cease, or in the event 9 that the exit date for the exited unit occurs after January 10 1 of the exit year, when the exit fee is proportionately 11 Because the shared costs are based on actual reduced. 12 expenses, they change each month.

Q. What is the amount of the annual exit fee that Idaho Power will be responsible for assuming the Company exits from participation in Unit 1 operations at December 31, 2019?

A. The below Table 1, included as Table A-1 in Exhibit A of the Agreement, summarizes the exit fee and shared costs Idaho Power would be responsible for under the current assumption that the Company ceases participation in operations of Unit 1 on December 31, 2019, but remains a participant in Unit 2 operations until December 31, 2025.

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Q. If NV Energy ceases operations of Unit 1 on December 31, 2021, would the exit fees listed in Table 1 cease?

4	A. Yes. If NV Energy continued to operate Unit 1
5	through December 31, 2021, as current publicly available
6	sources ³ suggest, Idaho Power's exit fee obligations would
7	cease on that date. Shared cost obligations however would
8	continue as long as Unit 2 was in operation, or until
9	December 31, 2025, whichever is earlier.
10	Q. When are the exit fees and shared costs paid?
11	A. The first exit fee is payable on or prior to
12	the exit date for a unit, and annually on or before
13	December 1 of each year thereafter. Shared costs are paid
14	monthly in accordance with the Existing North Valmy
15	Agreements.
16	Q. Are there any other costs Idaho Power would be
17	responsible for with respect to the Valmy plant that are
18	not a component of the exit fees or shared costs?
19	A. Yes. In accordance with the Existing North
20	Valmy Agreements, Idaho Power is obligated to pay its
21	ownership percentage share of capital projects required for

³ Joint Application of Nevada Power Company d/b/a NV Energy and Sierra Pacific Power Company d/b/a NV Energy for approval of their 2019-2038 Triennial Integrated Resource Plan and 2019-2021 Energy Supply Plan, Docket No. 18-06003 (December 21, 2018).

operation of the plant's common facilities⁴ and any capital projects specific to units it has not exited. In addition, the Company is responsible for its ownership percentage share of materials and supplies purchased and used in the sole operation of any unit it has not exited, and coal and diesel fuel consumed in the operations of any unit it has not exited.

Q. You indicated earlier that upon receipt of an exit notice, the remaining participant has the right to elect to retire such unit. Has NV Energy provided notice that it intends to retire Unit 1 upon Idaho Power's exit on December 31, 2019?

A. No. However, under the provisions of the Agreement, should NV Energy choose to retire a unit, exit fees for such unit will cease upon retirement.

16 в. Retire Continue Election to or to Operate; 17 Decommissioning Study, Decommissioning Fee, Final Exit; 18 Decommissioning Activities During Interim Period. 19 20 At this time, Idaho Power expects to cease Ο. 21 operations of both units by December 31, 2025, and NV 22 Energy's Integrated Resource Plan ("IRP") suggests that it 23 has similar timing. When will decommissioning activities 24 begin?

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⁴ Excluding common facility projects that are solely attributable to production, which Idaho Power will be billed at a rate equal to the applicable revised net capacity after exit of a unit.

1 Α. Under the provisions of the Agreement, a remaining participant will provide notice to an Exiting 2 3 Participant as to whether or not the remaining participant 4 will retire the units on December 31, 2025, or continue to 5 operate them beyond December 31, 2025. If the remaining 6 participant chooses to continue to operate, within 30 days 7 from the notice, the Exiting Participant has the right to 8 elect to (1) follow the decommissioning provisions in 9 Articles VII and VIII of the Agreement, which allow for decommissioning activities to occur under a decommissioning 10 11 committee structure or (2) in the alternative, jointly 12 undertake the development of a decommissioning study with 13 the option to pay the remaining participant a one-time 14 decommissioning payment equal to 50 percent of the total 15 decommissioning costs as described in Section 4.3 of the 16 Agreement. Either option would satisfy an Exiting 17 Participant's obligations to pay decommissioning costs. 18 Ο. Under the one-time decommissioning payment 19 structure, once that decommissioning payment is made, is 20 the Exiting Participant responsible for any other 21 decommissioning costs?

A. After payment of the decommissioning fee, the only other decommissioning-related costs would be for costs that were unknown at the time of payment, including costs that (1) were not the type described in the decommissioning

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study, (2) were not known to the remaining participant at the time the decommissioning study was completed, (3) were not reasonably foreseeable by a plant operator, and (4) were not due to actions of the remaining participant after the Exiting Participant's exit date for a unit.

Q. What would happen to Idaho Power's ownership
rights in the Valmy plant if NV Energy continued to operate
a unit or units after year-end 2025?

9 A. If NV Energy continued to operate either unit 10 after December 31, 2025, Idaho Power's ownership interests 11 in the Valmy plant would be terminated by the conveyance to 12 NV Energy via an asset purchase agreement in form and 13 substance mutually accepted by both Parties, releasing the 14 Company of liability for future claims⁵ with respect to the 15 Valmy plant.

Q. What will occur if the notice to the Exiting Participant indicates the Valmy units will be retired on December 31, 2025?

A. If the remaining participant notifies the Exiting Participant that it will retire the units on December 31, 2025, then the Parties will begin the establishment of a decommissioning plan and a

⁵ Idaho Power would continue to be liable for unknown Decommissioning Costs as defined in the Agreement and set forth in Section 4.3.3, liabilities due to events that occurred prior to the date which it exited a unit, and certain types of liabilities that by law cannot be disclaimed via contract.

1 decommissioning budget, a dispute process, and a payment 2 process as described in Articles VII and VIII of the 3 Agreement.

Q. Does the Agreement provide an avenue for
decommissioning activities to occur on Unit 1 once the unit
is no longer in operation?

7 Α. Not necessarily. However, if any 8 decommissioning activities are undertaken during the period 9 between cessation of Unit 1 operations and the complete 10 cessation of the Valmy plant, those activities would be 11 subject to the Retirement Guidelines included as Exhibit B 12 to the Agreement. The Retirement Guidelines were prepared 13 by the Parties and are intended to identify the primary 14 work scope components necessary to complete the retirement 15 of the Valmy plant in accordance with the Existing North 16 Valmy Agreements.

17 C. <u>Decommissioning: Governance; Plan; Budget; Disputes;</u> 18 <u>Payments.</u> 19

20 Q. Please describe the establishment of the 21 decommissioning plan that will commence once both units are 22 retired.

A. The decommissioning plan will determine the current federal and state requirements under law, if any, for decommissioning Valmy and estimate the cost of decommissioning. This plan will serve as a foundation for,

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and describe in reasonable detail, the decommissioning 1 2 activities proposed to be performed under the direction of 3 the decommissioning agent or the decommissioning committee. 4 Q. What is a decommissioning agent? 5 Α. A decommissioning agent is responsible for performing decommissioning activities assigned by the 6 7 decommissioning committee. In accordance with Article V of 8 the Agreement, NV Energy is appointed as the 9 decommissioning agent. 10 Please describe the decommissioning committee. 0. The decommissioning committee consists of one 11 Α. 12 appointed representative of each Party. The committee will

13 oversee the performance of the decommissioning agent, 14 including decommissioning activities and the identification 15 thereof. The functions and responsibilities of the 16 decommissioning committee include the review, and approval 17 or rejection of, (1) the decommissioning plan proposed by 18 the decommissioning agent, (2) any changes to the 19 Retirement Guidelines, (3) each annual decommissioning 20 budget, (4) any changes to the scope of decommissioning activities or incurrence of additional decommissioning 21 22 costs proposed by the decommissioning agent, (5) the 23 reports submitted by the decommissioning agent regarding 24 interim decommissioning activities, and (6) proposed 25 decommissioning costs or increases in the decommissioning

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1 budget in excess of the amounts identified in Exhibit E of 2 the Agreement.

3 In addition, the decommissioning committee will be responsible for determining each Party's decommissioning 4 5 share pursuant to the Agreement and determining when the 6 decommissioning activities and the decommissioning have 7 been completed. The decommissioning agent will monitor 8 budgets and schedules for the decommissioning activities 9 and approve all proposed changes to the budgets or 10 schedules for the decommissioning activities. With representation from both NV Energy and 11 Ο. Idaho Power, how is approval of a request from the 12 decommissioning agent decided? 13 14 Any actions or determinations brought to the Α. decommissioning committee require a unanimous vote by both 15 16 members. You indicated the decommissioning budget is 17 Ο. 18 prepared annually and presented to the decommissioning 19 committee for approval or rejection. Is there a process in place for disputes to components of the decommissioning 20 21 budget? 22 Yes. Once the budget is received from the Α.

23 decommissioning agent, the decommissioning committee may 24 provide written notice to the decommissioning agent of any 25 activities or costs within the decommissioning budget that

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it disputes. The written notice must contain supporting
 documentation to show the basis for the dispute. The
 decommissioning agent may then revise the decommissioning
 budget and resubmit it to the decommissioning committee.
 Q. Are decommissioning payments made based on the

6 annual decommissioning budget?

7 Α. Yes. Idaho Power would be responsible for 8 making its payment of the Company's ownership percentage 9 share of the annual decommissioning costs on or before 10 January 15 and July 1 of the budget year. During that 11 budget year, on a monthly basis, the decommissioning agent 12 will submit to the decommissioning committee a comparison 13 of monthly and year-to-date actual and budgeted 14 decommissioning costs. The decommissioning agent will 15 true-up the total decommissioning costs paid on or before 16 March 1 of the year following the budget year.

Q. Does the Agreement allow for a review of the actual expenditures once the decommissioning activities have been completed and payment has been made?

A. Yes. Following the true-up of the decommissioning costs billed for the prior budget year, either Party may perform an audit of the expenditures. Each party has 12 months to dispute any portion of the decommissioning costs.

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1 Are there any other provisions of the Ο. 2 Agreement you have not discussed? 3 In addition to the provisions described Α. Yes. 4 earlier in my testimony, the Agreement contains 5 representation and warranties of the Parties, describes 6 defaults, and incorporates other miscellaneous terms. 7 Ο. Please provide an overview of the provisions 8 of the Agreement. 9 Α. The Agreement provides for a mechanism by 10 which either Party can cease participation in Valmy operations and sets forth the terms by which 11 12 decommissioning of the plant is to occur, which was not 13 provided for in the Existing North Valmy Agreements and affords Idaho Power a contractual mechanism by which the 14 15 Company may meet its obligations pursuant to Order No. 33771. 16 17 VALMY UNIT 2 CLOSURE ANALYSIS II. 18 Order No. 33771 requires that the Company Ο. 19 continue to conduct Unit 2 closure analyses. Has Idaho Power performed any analyses evaluating an earlier 20 retirement date for Unit 2? 21 22 Yes. First, in accordance with the Settlement Α. 23 Stipulation approved in Order No. 33771, Idaho Power is evaluating the economics of a Unit 2 retirement as part of 24 25 the Company's 2019 IRP. The 2019 IRP is currently in the

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development phase, and therefore a discussion of the
 results is premature. The Company expects to have
 preliminary results of this analysis no later than the end
 of March.

5 However, the provisions of the Agreement, specifically Article III, Termination of Participation in a 6 7 Unit; Retirement of a Unit, set forth the Parties' contractual payment obligations, which provide insight into 8 the economics of a Unit 2 closure. As I discussed earlier 9 10 in my testimony, Article III defines the effects of a 11 Party's notice of exiting a unit and the associated fee 12 schedule, as set forth in Exhibit A to the Agreement. This 13 fee schedule, in combination with the Existing North Valmy 14 Agreements, indicate that it is unlikely there would be any 15 economic benefit associated with the exit of Unit 2 prior 16 to December 31, 2025.

17

Q. Please explain this further.

18 As discussed earlier in my testimony, Table A-Α. 19 1 in Exhibit A of the Agreement establishes the exit fee 20 structure for costs associated with Idaho Power's exit from 21 Unit 1 in 2019 prior to NV Energy and both Parties' exit 22 from Unit 2 in 2025. Beginning January 1, 2020, the 23 Company would be responsible for an exit fee and sustained 24 payment of shared costs. The exit fee payments would continue through the earlier of year-end 2025 or NV 25

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Energy's exit from Unit 1 operations, which is set for 2021 1 2 in NV Energy's current IRP. Shared costs, that are fixed 3 in nature, would be paid as long as Unit 2 remained in operation. Idaho Power would be responsible for the cost 4 5 associated with coal it consumes and for 50 percent of diesel fuel consumed at the plant. These payment 6 7 obligations exist in accordance with the Existing North 8 Valmy Agreements and under the terms of the Agreement would 9 continue through 2025, or until NV Energy ceases 10 participation in Unit 2, whichever is earlier. 11 Therefore, it is unlikely that Idaho Power's exit from Unit 2 operations prior to 2025 would result in 12 material savings because the only payment obligation relief 13 14 would come from a reduction in certain costs associated with Idaho Power's capacity reduction in Unit 2 operations. 15

16 To the extent Idaho Power has payment obligations

17 associated with participation in Unit 2 operations, the

18 Company benefits from its ownership share of Valmy's

19 capacity by having that capacity available should its

20 dispatch prove to be economically viable.

21 Moreover, as detailed in the 2017 IRP Appendix C,⁶ 22 Idaho Power's ownership share of Valmy's capacity is

⁶ In the Matter of Idaho Power Company's 2017 Integrated Resource Plan, Case No. IPC-E-17-11, 2017 IRP Appendix C, pp. 42-48 (filed June 30, 2017). The Commission acknowledged the Company's 2017 Integrated Resource Plan in Order No. 33983 (February 9, 2018).

1 utilized to meet the Company's current peak-hour load and resource balance. Without it, Idaho Power could experience 2 3 a deficit during the year, with potential deficits growing in subsequent years through 2025. Valmy is a necessary, 4 5 although relatively infrequent, contributor to system reliability through 2025 and there is no material economic 6 benefit associated with the exit of Unit 2 prior to year-7 end 2025. 8

9 Q. Please describe the analysis the Company is 10 performing as part of the 2019 IRP that evaluates the 11 economics of the cessation date of Unit 2 operations.

A. The Company committed to conducting ongoing analyses that evaluate the economics of a Unit 2 retirement date prior to December 31, 2025, as part of the Settlement Stipulation approved with Order No. 33771, and to submit those as part of the IRP process. Idaho Power will continue monitoring the economics and include the analysis results in its 2019 IRP, at a minimum.

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III. VALMY INVESTMENTS

20 Q. Company witness Mr. Larkin explained the 21 Commission approved actual Valmy-related plant investments 22 as of July 31, 2016, and approximately \$1.5 million in 23 forecasted investments associated with Unit 1 through 24 December 31, 2018, as part of the levelized revenue 25 requirement included in customer rates with Order No.

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33771, and that the Settlement Stipulation⁷ requires the
 Company to true-up to actuals those forecasted
 expenditures. Please explain the investments made at the
 Valmy plant since July 31, 2016.

A. While Idaho Power is cognizant of the approaching end-of-life date for Unit 1, there were some required investments to ensure Valmy remains operational in a safe, efficient, and reliable manner, including investments required to ensure environmental compliance, as well as a number of investments for routine maintenance and repair.

12 Q. Does Idaho Power perform a review of the 13 planned capital projects prior to any investments being 14 made at Valmy?

15 Yes. For all planned capital projects, Idaho Α. 16 Power receives from NV Energy as the plant operator a description of the project, the factors driving the need 17 18 for the project, and a recommendation for the work to be 19 performed. In addition, as part of the drafting of the 20 Agreement, the Parties extensively reviewed the 2019 through 2025 capital business plans, identifying and 21 ensuring the forecast included only those projects needed 22 23 for environmental compliance and for the safe, efficient, and reliable operation of the Valmy plant. 24

⁷ Settlement Stipulation, pp. 8-9, paragraph 15.

Q. Have you prepared an exhibit detailing the
 investments made since July 31, 2016?

3 Yes. Exhibit No. 3 details the investments Α. made at Valmy since July 31, 2016, including the investment 4 5 by unit or common facility and a classification as to 6 whether the investment was for environmental compliance, 7 the safe and economic operation of the plant, or for 8 reliability purposes for those projects over \$100,000. 9 Exhibit No. 3 also includes a description of all 10 investments made since July 31, 2016, and justification for 11 those investments over \$100,000.

Q. You stated Exhibit No. 3 indicates whether an investment was for environmental compliance, the safe and economic operation of the plant, or for reliability purposes. Please describe the investments made for environmental compliance since August 1, 2016.

17 Α. There was only one investment for the sole 18 purpose of environmental compliance since August 31, 2016. 19 This investment was associated with Unit 1 and mentioned by Mr. Larkin in his testimony. During a required inspection 20 in December 2017, it was discovered that unexpected 21 22 significant degradations were noted on 22 thermocouples, 15 23 coal burner assemblies, and refractory around all burners. The Mercury and Air Toxics Standard ("MATS") requires 24 25 burner and combustion control inspection and combustion

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1 tuning every 36 months and, as a result of the degradation,
2 burner and combustion control parts were required to be
3 replaced in order to comply with MATS regulations.⁸

4 Q. What investments were made for the safe,5 reliable, and economic operation of the plant?

6 The remaining investments made for the Α. continued safe, reliable, and economic operation of the 7 plant included the elimination of arc flash hazards in the 8 plant, the redesign and installation of the clarifier 9 recirculation system on both units, a pulverizer rebuild of 10 Unit 1, and installation of the spare generator step-up 11 12 unit ("GSU") on Unit 2 due to failure of the existing GSU, 13 a turbine water injection protection system for both units, and a secure wireless system. In addition, a Unit 1 14 sootblower system redesign was required, insulation and 15 16 lagging work was done at the plant, cyber security program enhancements were made, Unit 2 GSU work was performed, and 17 18 replacement of a production well pump, secondary air heater 19 gearbox, emergency lighting, and fan motors on both units 20 occurred.

One other investment was made in combination with the safe operation of the plant: the re-drill of the original domestic water well. The well, drilled in 1977, that provides domestic water supply to the plant and that

⁸ Mercury and Air Toxics Standards Rule 40 CFR 63.10021.

1 is used for the plant sanitary system, eye wash system, and 2 safety showers had reached the end of its useful life and 3 re-drilling was the only option.

Q. What type of investments does Idaho Power anticipate will be made at the Valmy plant for the remainder of its operating life?

7 Α. Idaho Power anticipates necessary, routine 8 capital expenditures to safely and reliably operate Valmy 9 through the plant's end-of-life in 2025. Only standard, 10 annual maintenance and repairs are forecasted for Unit 1 11 during 2019. For Unit 2 and common facilities, a number of 12 upgrades and replacements of plant infrastructure that are 13 required periodically will be made in 2019, including an 14 outage that requires inspection and selected refurbishment. 15 This outage is the last large one to be performed and will 16 help ensure the unit is operational and can continue to provide reliable service through 2025. 17

18 Q. Will Idaho Power perform the same review of 19 future incremental investments prior to any work being 20 done?

A. Yes. The Parties will continue the annual budget meetings where all capital projects included in the budget are reviewed and approved by Idaho Power. The Company will receive a description of the factors driving the need for the project and a recommendation for the work

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to be performed from the plant operator, NV Energy. The 1 estimated cost of each project will then be compared to the 2 expected life of the asset as well as the Valmy end-of-life 3 date to determine prudency of the planned investment. In 4 addition, Idaho Power and NV Energy will work together to 5 identify ways to reduce O&M as both partners prepare for 6 future low production from the plant through its end-of-7 8 life.

9

Q. Please summarize your testimony.

10 The Agreement provides for a contractual Α. mechanism by which Idaho Power may meet its obligations 11 pursuant to Order No. 33771 and clarifies the respective 12 rights and obligations of the Parties with respect to the 13 continued operation, retirement, and decommissioning of the 14 Valmy plant or the units thereof. While NV Energy and 15 16 Idaho Power are cognizant of the approaching end-of-life of the plant, some investments were required to ensure the 17 plant remains operational in a safe, efficient, and 18 19 reliable manner, including investments required to ensure environmental compliance. Idaho Power will continue to 20 21 work with NV Energy to ensure that any future investments 22 in the Valmy plant are necessary and prudent in light of the expected end-of-life dates discussed in my testimony. 23 Valmy is a necessary, although relatively infrequent, 24 contributor to system reliability through 2025 and there is 25

> HARVEY, DI 28 Idaho Power Company

1	no material economic benefit associated with the exit of
2	Unit 2 prior to year-end 2025.
3	Q. Does this complete your testimony?
4	A. Yes, it does.
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1	ATTESTATION OF TESTIMONY
2 3 4 5	STATE OF IDAHO)) ss. County of Ada)
6 7	I, Tom Harvey, having been duly sworn to testify
8	truthfully, and based upon my personal knowledge, state the
9	following:
10	I am employed by Idaho Power Company as the General
11	Manager of Power Supply, Planning and Operations in the
12	Power Supply Department and am competent to be a witness in
13	this proceeding.
14	I declare under penalty of perjury of the laws of
15	the state of Idaho that the foregoing pre-filed testimony
16	and exhibits are true and correct to the best of my
17	information and belief.
18	DATED this 8 th day of March 2019.
19 20 21	Tom Harvey
22 23	SUBSCRIBED AND SWORN to before me this 8^{th} day of
24	March 2019.
25 26 27 28 29	Notary Public for Idaho PUBLIC PUBLIC PUBLIC Notary Public for Idaho Residing at: <u>Meridian, Idaho</u> My commission expires: <u>02/04/2021</u>
	HARVEY, DI 30 Idaho Power Company

BEFORE THE

IDAHO PUBLIC UTILITIES COMMISSION

CASE NO. IPC-E-19-08

IDAHO POWER COMPANY

HARVEY, DI TESTIMONY

EXHIBIT NO. 2

EXHIBIT NO. 2 IS CONFIDENTIAL AND WILL BE PROVIDED TO THOSE PARTIES THAT EXECUTE THE PROTECTIVE AGREEMENT IN THIS MATTER

BEFORE THE

IDAHO PUBLIC UTILITIES COMMISSION CASE NO. IPC-E-19-08

IDAHO POWER COMPANY

HARVEY, DI TESTIMONY

EXHIBIT NO. 3

VALMY PLANT ADDITIONS: Aug 1, 2016 - Dec 31, 2018

Project	Descr	41	22	٨C	Total	Purpose	Project Description/Justification
27502697	VALMY 98434354 V1 LOW NOX BURNERS	602,997			602,997	Environmental	Mercury and Air Toxics Standards ("MATS") Rule 40 CFR 63.10021 require a burner and combustion control inspection, and combustion tuning every thirty- six months. During the inspection, completed in December 2017, significant degradations were noted on 22 thermocouples, 15 coal burner assemblies, and refractory around all burners. This scope of work was identified as required to be completed to meet regulations and allow continued boiler operation.
27451198	VALMY 98385894 V1 ARC FLASH MITIGATION	596,131			596,131	Safety	This project improved electrical safety for plant employees. An arc flash analysis study was performed by Zachery Engineering. During their study, Zachery Engineering. During their study, Zachery Engineering and that there were 166 locations with indecent tenergy more than 8 Ca/CMX. This makes it unusafe to perform many activities such as locally operating breakers, racking breakers, in or out. It was also unsafe to work inside the motor control center buildings. This project installed mitigation hardware to essentially eliminate arc flash hazards.
27430166	VALMY 98367466 V1 CLARIFIER RECIRCULATION DRIVES	541,177			541,177	Reliability	The clarifier recirculation system was in need of a complete refurbishment. The clarifier recirculation drives have been marginal since original installation and were subject to frequent failure and maintenance. This project redesigned and installed improved recirculation drives on the clarifier. This work order was specific to Unit 1.
27430167	VALMY 98367407 V2 CLARIFIER RECIRCULATION DRIVES		535,218		535,218	Reliability	The clarifier recirculation system was in need of a complete refutibishment. The clarifier recirculation drives have been marginal since original installation and were subject to frequent failure and maintenance. This project redesigned and installed improved recirculation drives on the clarifier. This work order was specific to Unit 2.
27501116	VALMY 98427786 V1 PULVERIZER REBUILD	319,565	,		319,565	Relability	Pulverizers are utilized to grind coal to fine dust before being transported to burner fronts. This process wears out roll wheel assemblies, table grinding segments, and interior of pulverizer equipment. The normal operating life cycle of a Unit 1 pulverizer is roughly 18 to 24 months. Routine inspections are performed as 7.000 hours of required meantments is performed to ensure the maximum life of the pulverizer tobuld. Monor other includes repetorments of roll wheels, and required transmer is performed to ensure the maximum life of the pulverizer rebuild. Monor other includes replacements of roll wheels, and regulated braining, wear resistant ceramic lines; classifier vanee, coal feeder wear components, spring frame wear plate, and the prints plow. In addition, the gearbox suptim was refutibilished and other associated wedling and re-building was performed due to erosions to the pulveizer housing and associated equipment. The purpose of this project is for the continued reliable operation of Unit 1.
27463428	VALMY 98396938 V2 INSTALL SPARE GSU		315,635		315,635	Reliability	In 2016, there was a failure on the Unit 2 GSU which necessitated the replacement of this transformer with the plant spare to ensure the unit was available to meet summer peak loads.
27424728	VALMY 98362606 V1 SOOTBLOWER PROJECT	302,748		,	302,748	Reliability	Unit 1 was experiencing premature boiler tube erosion from the sootblowing activities. The cause for the erosion is from excessive moisture in the sootblowing medium. In addition, the increase in ash from the use of Powder River Basin coal contributes to more accumulation on the tubes, reducing the thermal exchange, and required requent cleaning. To allow for additional sootblowing, the sootblowing system required a redesign will prevent damage to the boiler tubes.
27478748	VALMY 98409233 VC GRAVEL PIT WELL			282,743	282,743	Safety / Environmental	The original well was drilled in 1977 and reached the end of its useful life. Re-drilling was the only option. This well provides the domestic water supply to the plant which is also used the for the plant sanifary system, eve wash system, and safety showers.
27467689	VALMY 98397407 V1 TWIP, INSTALL	274,822			274.822	Reliability	The installation of the Turbine Water injection Protection system for Unit 1 was necessary to prevent possible failure of the main turbine from water injection. The old system did not meet the American Society of Mechanical Engineers recommended practices for the prevention of water damage to staam turbines criteria (TDP-1.2013). Water injection to the main turbine can cause significant repair costs with long lead time for equipment. This work order was socrefic to Unit 1.
27467688	VALMY 98397405 V2 TWIP, INSTALL		191,249		191,249	Reliability	The installation of the Turbine Water Injection Protection system for Unit 2 was necessary to prevent possible failure of the main turbine from water injection. The oid system and not meet the American Society of Mechanical Engineers recommended practices for the prevention of water damage to steam turbines criteria (TDP-1:2013). Water injection to the main turbine can cause significant repair costs with long lead time for equipment. This work order was specific to Unit 2.
27469463	VALMY 98399357 V1 GSU HIGH VOLTAGE BUSHING REPLACEMENT	163,871			163,871	Safety/Reliability	The Unit 1 generator step-up transformer was equipped with GE type U high voltage bushings which have a high rate of failure. In addition, the bushings can burst and cause a safety concern. The bushings were replaced with ABB high voltage bushings that have no known failure mechanisms.
27458954	VALMY 98393558 V1 INSULATION AND LAGGING WORK	159,539			159,539	Reliability	During outage work over the two previous years and inspections of the high energy piping project, multiple insulation needs were identified. Most were due to the age of the existing insulation or various repair projects over the last 20 years. In addition weather, wind, leaks and heat tracing failures can require insulation work. This project mitigates hazards and eliminates the possibility of future failures to the insulation and jacketing.
27495142	VALMY 98428468 VC OT SECURITY PROJECT			159,166	159,166	Safety/Security	Valmy's cohersecurity program required enhancement. This project funded the research and development of the necessary enhancements based on the Center for intermet Security's Top 20 Critical Security Controls (CSC). The Top 20 CSC's are high-level categories for 143 specific sub-controls. The project resulted in the recommendation and approval of cybersecurity enhancements that address requirements for CSC 3.6, CSC 3.7, CSC 4.5, CSC 6.6, CSC 8.1, and CSC 8.2.
27510571	VALMY 98437315 V2 ID FAN MOTOR REPLACE		141,531		141,531	Reliability	A Unit 21 Diamotor was sent to the Suiter electrical shop for routing cleaning, testing and inspection. When tested, the motor failed the surge test and a visual isspection revealed least two broken stator bars. The motor shop refurbished the motor. Without this fan in service the unit would have been destand to approximately 50 percentional testers.
27495141	VALMY 98428409 VC OT WIRELESS SYSTEM			128,438	128,438	Reliability	Installed a secure operational technology ("OT") wrieless system for both the well field and for the continuous emission monitoring ambient networks. The current OT wireless networks had components that did not meet the security requirements of the Top 20 CSC Standards. This includes in-house engineering support for warranty replacement work performed on the newly installed system, UPS battery packs and well field and ambient monitors sites.
27469464	VALMY 98399359 V2 GSU HIGH VOLTAGE BUSHING REPLACEMENT		118,130		118,130	Safety/Reliability	The Unit 2 generator step-up transformer is equipped with Trench COTA high voltage and high voltage neutral bushings. These types of high voltage bushings have a known manufacturing defect in the insulation that causes a high failure rate. In addition, the bushings can burst and cause a safety consent. The bushings were replaced with ABB high voltage bushings that have no known failure mechanisms.
27440893	VALMY 98376800 VC PRODUCTION WELL			109,095	109,095	Reliability	The purm on the #23 production well failed. This is one of the highest producing wells for the plant and can provide 24 percent of the Unit 2 demand for cooling water. In order to have a continuous reliable water supply for the plant, it was necessary to replace this purmp.
27495135	VALMY 98427053 VI SECONDARY AIR PREHEATER GEARBOX	108,715			108,715	Reliability	This project replaced the failing Unit 1 secondary airheater gearbox. This gearbox developed a bad noise and high vibration indicating a bearing or gear failure which could eventually lead to complete failure of the gearbox. When a gearbox fails, the air heater rotation will stop, which could result in warpage, distortion, and other permanent damage, and could even can cause a fire in the air heater and associated ductwork.
27514789	VALMY 98443689 V1 ID FAN MOTOR REPLACE	105,326			105,326	Reliability	The Unit 1 Induced draft fan motor experienced a phase to phase fault during a start attempt. The fault cursed significant damage to the windings, which required a complete rewind to restore the motor to serviceable condition. A compatible motor was found on site and the motor base was modified to fit the fam. The modified motor was a temporary solution as it draws 7 percent more amps than the original motor, at full load resulting in hotter winding and bearing temperatures. This project was a full replacement of the fam motor.
	VALMY 98412639 V1 EMERGENCY LIGHTING	104,000			104,000	Safety	The 120VAC to DC converter cabinets for the emergency lighting were not suitable for power plant needs. The panels were in failure and light of the converters would not function in the test mode. The plastic futures were broken and hanging by the wires. In the event of a loss of primary lighting due to a plant trip to ortidage, the mergency lighting would not have been available. This project replaced the emergency lighting tage to ortidage the mergency lighting used of the accordance with OSHA 1310.261.
did	VALMY 98362473 VA2 REDUNDANT C		92,173		92,173		

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VALMY PLANT ADDITIONS: Aug 1, 2016 - Dec 31, 2018

Proiect	Descr	17	\$	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Total	Purnose Project Description (Instification
27481042	VALMY 98415446 V1 HP ASH PLIMP	RF 65R		ŀ	86.658	
27517155	VALMY 98446406 V1 PULVERIZER W	78,629			78.629	
27421450	VALMY 98362168 VC SERVICE WATE			75,328	75,328	
27502694	VALMY 98434199 V2 SORBENT TRAP		75,125		75,125	
27465265	VALMY 98365346 V01 ID "B" FAN	74.446			74.446	
27502692	VALMY 98434198 V1 SORBENT TRAP	72.200			72.200	
27469463	VALMY 98399357 V1 GSU HIGH VOL	69,523			69,523	
27491675	VALMY 98418359 V1 DISSOLVED GA	62,659			62,659	
27421553	VALMY 98362472 VA1 REDUNDANT C	62,602			62,602	
27403608	VALMY 98336452 V1 BFPT ELECTRO	60,292			60,292	
27458936	VALMY 98369738 V2 CAPITAL VALV		53,298		53,298	
27460988	VALMY 98395344 V1 CAPITAL VALV	48,957			48,957	
27469464	VALMY 98399359 V2 GSU HIGH VOL		48,893		48,893	
2/495131	VALMY 98427274 V2 BOILER FEED		47,237		47,237	
2/493060	VALMY 98422759 V1 REDUNDANT 50	44,313			44,313	
2/489003	VALMY 9842321/ VC RES STATION			38,503	38,503	
2/209195	VALMY 98435090 VZ PULVERIZER 6		38,361		38,361	
2/481095	VALMY 98412633 VC WAREHOUSE WI			38,205	38,205	
C/T60C/7	VALMIT 9843/315 VC RU MEMBRANES			35,457	35,45/	
2/495140	VALMY 9842//85 VC PRUDUCTION W			26,291	26,291	
10/HTC/7	VALINIT 9844444U/ VI SKI CLIMBER	23,023			22,623	
C/7C/1/7	VALIMIT 964031/6 VI BUILER CUN II	050'67	T		23,646	
274E1100	VALMIT 9844221/ VI PRIMART AIR	728/77			788/77	
DETTC4/7	VALINIT 90303034 VI AAC FLASH INI	905.01			6//'77	
40T0C4/7		17 000			12,200	
27505241		006'17	1	12 530	00C'/T	
17421551				0 050	0 0 0 0 0	
27359233	VALMY 98301759 V1 11TH ITY MACT	9.047	Ī	nceie		
27458970	VALMY 98393018 U2 A INDUCED DR	400	8 657		8.657	
2744373R	VALMY 98378772 V2 BOTTOM ASH S		8 547		8 547	
27426913	VALMY 98367251 V2 CAPITAL VALV		8 255		R 255	
27481094	VALMY 98409232 V1 REDUNDANT DE	7.117	-		7.117	
27517150	VALMY 98442216 VC ACOUS MONITO			6,991	6,991	
27452894	VALMLY 98377359 V1 PULVERIZER	4,321			4,321	
27458953	VALMY 98391688 V1 CONDENSATE P	3,197			3,197	
27517152	VALMY 98444637 VC VLMY BUSINES			1,601	1,601	
27423497	VALMY 98364792 V2 BOTTOM ASH C		418		418	
27409547	VALMY 98353176 VC CAPITAL VALV			18	18	
2/365608	VALMY 98306281V2 SCRUBBER INLE				80	
27365621	VALMY 98306280 V2 SCRUBBER SPR		00		∞	
27463428	VALMY 98396938 V2 INSTALL SPAR		1		-	
27451241	VALMY 98308491 GC-N WORK MANAG	10.00		(16)	(16)	
2/448852	VALMY 98386335 V1 "B" HP ASH P	(250)		10000	(250)	
2/428439	VALMY 98367961 VC RO MEMBRANE	10000		(732)	(732)	
27454523	VALMY 983/8//1 V1 BOI TOM ASH S	(1,214)		1003 11	(1,214)	
27437789	VALMI 90304032 VU VANS, REFLAU VALMY 98371843 V1 BAH CLINDER			(c70/T)	(1,000)	
27434653	VALMY 98371845 V1 BAH CLINKER	(2,000)			(2,000)	
27448851	VALMY 98386335 V1 "A" HP ASH P	(2,001)			(2,001)	
27423494	VALMY 98359979 V2 DESUPERHEATE		(2,500)		(2,500)	
27419415	VALMY 41606E NVY 3601 & 3401 R			(4,387)	(4,387)	
27426918	VALMY 98367900 V1 FLYASH DRY U	(5,661)			(5,661)	
27458951	VALMY 98391132 VC PM2.5 FRM MO			(5,833)	(5,833)	
27457050	VALMY 98391075 VC REPLACE SERV	1001 001		(8,541)	(8,541)	
18126412	VALMY 96366633 VI FEEUWALEK CO	(56C'0T)	1000 CF/		(10,593)	
27426917	VALIMY 98367475 V2 CLADIELED AN		(15,673)		(15,000)	
27448849	VALMY 98386334 V1 BFP BARREL R	(16.011)	1010101		(10,01)	
27409554	VALMY 98350944 VMY1 CIRC WATER	(33,573)			(33.573)	
27434615	VALMY 98366682 V1 DESUPERHEATE	(40,144)			(40,144)	
27439303	VALMY 98366685 V1 BAGHOUSE DOO	(43,597)			(43,597)	
27452894	VALMLY 98377359 V1 PULVERIZER	(45,698)			(45,698)	
27445172	VALMY 98366688 V1 BAGHOUSE FIL	(51,052)			(51,052)	
27460990	VALMY 98391072 V1 FORCED DRAFT	(74,492)			(74,492)	
27439304	VALMY 98367236 V1 PRIMARY AND	(80,625)			(80,625)	
Grand Total		3 686 220	1 651 763	004 102	5 747 175	
		0,000,620	CD/17CD/T	767'406	C/T'747'D	

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