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IDAHO PUBLIC
UTILITIES COMMISSION

BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

IN THE MATTER OF THE APPLICATION)
OF PACIFICORP D/B/A ROCKY)
MOUNTAIN POWER AND IDAHO POWER) CASE NO. IPC-E-14-41
COMPANY FOR AN ORDER AUTHORIZING)
THE EXCHANGE OF CERTAIN) CASE NO. PAC-E-14-11
TRANSMISSION ASSETS.)
_____)

IDAHO POWER COMPANY

DIRECT TESTIMONY

OF

DAVID M. ANGELL

1 Q. Please state your name and business address.

2 A. My name is David Angell and my business
3 address is 1221 West Idaho Street, Boise, Idaho 83702.

4 Q. By whom are you employed and in what capacity?

5 A. I am employed by Idaho Power Company ("Idaho
6 Power" or "Company") as the Planning Manager in the
7 Customer Operations Engineering and Construction
8 Department.

9 Q. Please describe your educational background.

10 A. I graduated in 1984 and 1986 from the
11 University of Idaho, Moscow, Idaho, receiving a Bachelor of
12 Science Degree and Master of Engineering Degree in
13 Electrical Engineering, respectively. I have provided
14 electrical engineering instruction for both the University
15 of Idaho and Boise State University. Most recently I
16 instructed power system analysis at Boise State University
17 during the 2009 spring semester.

18 Q. Please describe your work experience with
19 Idaho Power.

20 A. From 1986 to 1996, I was employed by Idaho
21 Power as an engineer in both communications and protection
22 systems. In 1996, I became the Engineering Leader of
23 System Protection and Communications. I held this position
24 until 2004, when I transferred to Transmission and
25 Distribution Planning. During the fall of 2006, I accepted

1 the positions of System Planning Leader and Manager of
2 Delivery Planning. I have been managing Idaho Power's load
3 research, interconnected-transmission system, sub-
4 transmission, and distribution planning since 2006.

5 Q. What is the purpose of your testimony in this
6 case?

7 A. My testimony in this case will provide an
8 overview of the Joint Purchase and Sale Agreement ("JPSA")
9 and the Joint Ownership and Operating Agreement ("JOOA"),
10 an overview of Idaho Power's current and proposed ownership
11 and capacity rights related to the assets at issue in this
12 case, and a description of the assets being acquired by
13 Idaho Power and the benefits associated with the exchange
14 of each asset.

15 Q. What is the objective of the JPSA and the
16 JOOA?

17 A. Idaho Power and PacifiCorp (together, the
18 "Parties") have entered into the JPSA and JOOA to replace,
19 amend, or consolidate several agreements including the
20 Restated and Amended Transmission Facilities Agreement
21 ("RATFA") and the Restated Transmission Services Agreement
22 ("RTSA") (collectively "Legacy Agreements")¹ with agreements

¹ The RATFA, RTSA, and First Revised Agreement for Interconnection and Transmission Services ("ITSA") are the primary agreements between the Parties. There are a number of related agreements which support or are directly connected to the RATFA, RTSA, and ITSA. The RATFA, RTSA, and ITSA and remaining agreements are collectively referred to as the "Legacy Agreements".

1 that will meet the respective and mutual transmission
2 service needs of each Party through a combination of Open
3 Access Transmission Tariff ("OATT") service, reallocation
4 of ownership interests in jointly-owned facilities, and the
5 exchange of certain transmission facilities. Additionally,
6 the JPSA and JOOA include terms that appropriately address
7 the operation, maintenance, reliability, and technical
8 aspects associated with joint ownership. The Legacy
9 Agreements will be mutually terminated, amended, or
10 consolidated upon execution of the JPSA and JOOA and the
11 Parties anticipate making adjustments to their respective
12 Federal Energy Regulatory Commission-approved transmission
13 formula rates.

14 Q. How do the JPSA and JOOA meet the respective
15 and mutual transmission service needs of each Party?

16 A. The JPSA and JOOA will provide: (1)
17 PacifiCorp with 1,600 megawatts ("MW") of capacity across
18 Idaho Power's transmission system through a combination of
19 asset ownership and OATT service, (2) Idaho Power with
20 capacity on the existing PacifiCorp 500 kilovolt ("kV"),
21 230 kV, 161 kV and 138 kV transmission system through an
22 asset ownership arrangement, and (3) a reallocation of the
23 existing joint ownership interests on the 345 kV and 230 kV
24 Jim Bridger transmission system ("Jim Bridger Transmission
25 System") to align with the Parties' current operational

1 requirements. Additionally, the JPSA and JOOA will include
2 provisions establishing the respective rights and
3 obligations of the Parties related to joint ownership,
4 operation of jointly-owned facilities, and operational
5 business practices. The transaction does not create any new
6 available transmission capacity.

7 Q. What are the Parties requesting in this case?

8 A. Under the JPSA and JOOA, the Parties desired
9 to exchange with one another certain jointly-owned and
10 wholly-owned equipment to provide each Party with
11 transmission capacity that better aligns with the current
12 configuration of its transmission system and current
13 transmission and load service obligations, each of which
14 has changed since the Legacy Agreements were executed and
15 the jointly-owned and wholly-owned equipment were
16 originally constructed. Pursuant to Idaho Code § 61-328,
17 an electric utility must obtain approval from the Idaho
18 Public Utilities Commission ("Commission") before it sells
19 or transfers ownership in any generation, transmission, or
20 distribution plant. By detailing the benefits associated
21 with assets being exchanged through the JPSA and JOOA, my
22 testimony will demonstrate the transaction is consistent
23 with the public interest.

24

25

1 Q. You indicated the JPSA and JOOA will replace
2 the Legacy Agreements. Please describe the agreements that
3 will be replaced.

4 A. The Legacy Agreements originated with the
5 construction of the Jim Bridger power plant ("Jim Bridger
6 Plant") and the resulting Jim Bridger Transmission System.
7 A detailed description of the Legacy Agreements can be
8 found in Ms. Lisa Grow's testimony. In general, the intent
9 of the Legacy Agreements was to move energy from the Jim
10 Bridger Plant to load in the PacifiCorp West Balancing
11 Area. When Utah Power and Light and Pacific Power & Light
12 merged, incentive to move energy to serve Goshen area loads
13 was created. As explained in Ms. Grow's testimony, the
14 Legacy Agreements were amended and restated over time.

15 Q. Please provide an overview of the Parties'
16 existing wheeling rights.

17 A. Exhibit 2 details the existing wheeling rights
18 of each Party and the transmission facility areas they
19 cover. The RATFA covers the ownership, 2,400 MW capacity
20 allocation, and operation of the Jim Bridger Transmission
21 System which is composed of three transmission lines that
22 originate at the Jim Bridger Plant, near Rocks Springs,
23 Wyoming, and terminate at substations in eastern Idaho near
24 Pocatello and American Falls. The RTSA provides 1,400 MW of
25 capacity rights to PacifiCorp across the Idaho Power

1 transmission system from the eastern Idaho substations to a
2 substation near Jerome, Idaho and on to substations near La
3 Grande and Enterprise, Oregon.

4 Q. Please provide an overview of the ownership
5 rights that will result from the JPSA and JOOA.

6 A. Exhibit 3 provides a representation of the new
7 ownership rights and their locations as a result of the
8 JPSA and JOOA. The reallocation of the Jim Bridger 345 kV
9 transmission system will result in one-third ownership
10 rights for Idaho Power and two-thirds ownership for
11 PacifiCorp across each of the three transmission lines,
12 while Idaho Power's portion of the Jim Bridger 230 kV
13 substation and lines will be transferred to PacifiCorp.
14 Below are additional details of the major transmission
15 reallocation that are represented in Exhibit 3:

- 16 • 1090 MW east-west transmission capacity on the
17 Borah and Kinport to Midpoint lines to PacifiCorp
- 18 • 410 MW east-west transmission capacity on the
19 Midpoint to Hemingway line to Idaho Power
- 20 • 700 MW west-east transmission capacity on the
21 Hemingway to Midpoint line to Idaho Power
- 22 • 450 MW west-east transmission capacity on the
23 Summer Lake to Hemingway line to Idaho Power
- 24 • 325 MW west-east transmission capacity on the
25 Walla Walla to Enterprise line to Idaho Power

1 Further, as presented in Exhibit 4, Idaho Power will
2 receive ownership in the Goshen and Antelope substations,
3 Antelope - Scoville, and sections of the Antelope - Goshen
4 and American Falls - Malad transmission lines.

5 Q. Idaho Code § 61-328(3) states the Commission
6 must find that the transaction is consistent with the
7 public interest prior to authorization of the transaction.
8 Please explain how the transfer of Idaho Power's assets to
9 PacifiCorp is in the public interest.

10 A. The majority of the assets being transferred
11 to PacifiCorp from Idaho Power are related to the
12 realignment of the Jim Bridger Transmission System while
13 most of the remaining assets are related to the Borah West
14 transmission system. Idaho Power's receipt of capacity on
15 two of the three lines of Jim Bridger Transmission System,
16 illustrated on Exhibit 4 as the gray lines from Bridger to
17 the west, affords PacifiCorp with capacity on the remaining
18 transmission line, illustrated on Exhibit 5 as the yellow
19 line from Bridger to the northwest. Similarly, as part of
20 the JPSA and JOOA, about 42 percent of Idaho Power's sole
21 ownership in the Borah West transmission system will be
22 transferred to PacifiCorp. This transfer is demonstrated in
23 Exhibit 5 beginning at Borah. In both cases, the Legacy
24 Agreements provide PacifiCorp with these capacity rights
25 today and Idaho Power will continue to retain capacity in

1 both transmission systems. Disposing of these assets
2 allows Idaho Power to acquire other assets that provide for
3 present and future load service obligations. Exhibit 5
4 details the assets PacifiCorp will acquire and the
5 following chart summarizes the net book value associated
6 with those assets:

Assets Transferred to PacifiCorp	Net Book
Jim Bridger transmission system realignment	\$15,517,364
Borah West transmission system	\$26,667,044
Goshen-Jefferson-Big Grassy transmission	\$83,186
Hemingway substation realignment	\$997,442
Total	\$43,265,036

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8 Q. Please describe in detail the transmission
9 facilities Idaho Power will receive capacity and ownership
10 in to facilitate its service obligations as part of the
11 asset exchange.

12 A. Exhibit A of the JPSA provides a detailed list
13 of the ownership percentages of each transmission line or
14 substation asset to be acquired by each Party, including
15 the existing ownership and the percentage of ownership
16 being transferred through the JPSA and JOOA. Similarly,
17 Exhibit C of the JOOA provides a detailed list of the
18 existing percentage segment ownership interests,
19 directional capacity allocation in MW, and the operator of
20 each transmission facility. Generally, Idaho Power will
21 receive capacity and ownership from PacifiCorp where
22 ownership currently does not exist in the Kinport - Goshen,

1 Antelope - Goshen, Antelope - Scoville, American Falls -
2 Malad, Midpoint - Hemingway, Hemingway - Summer Lake, and
3 Walla Walla - Hurricane transmission lines and the Goshen,
4 Antelope, Burns, Summer Lake, Walla Walla, Hurricane,
5 Jefferson, and Big Grassy substations.

6 Q. You stated the JOOA includes provisions
7 establishing the respective rights and obligations of the
8 Parties related to joint ownership and operation of
9 jointly-owned facilities, as well as detailing the operator
10 of each transmission facility. Please describe the role of
11 the operator with regard to these transmission facilities.

12 A. The operator will supervise and perform the
13 physical operation and maintenance of, interconnection to,
14 design of, capital upgrades and improvements to, repair and
15 reconstruction of, security of, outage restoration of, and
16 retirement and decommissioning of the transmission
17 facilities and common equipment for which they are
18 responsible in accordance with applicable governmental
19 requirements and reliability standards. Maintenance
20 renewals and replacements to the transmission facilities
21 are included in the service for which the operator is
22 compensated. As a result, the operator is responsible for
23 coordinating all requests for interconnection to any of the
24 jointly-owned transmission facilities. The requests will
25 be processed in a manner consistent with the operator's

1 OATT and any governmental requirements, maintaining
2 existing interconnection processes.

3 Q. Please describe the acquisition of the Kinport
4 - Goshen line and any related benefits.

5 A. The acquisition of ownership in the Kinport -
6 Goshen transmission line, indicated on Exhibit 4 as the
7 Idaho Power Acquired Assets between the Goshen and Kinport
8 points, is part of the Jim Bridger Transmission System
9 realignment. As noted in the Application, there are three
10 345 kV transmission lines that connect the Jim Bridger
11 Plant to the Idaho Power and PacifiCorp transmission
12 systems: the Jim Bridger - Goshen line, the Jim Bridger -
13 Populous - Borah line, and the Jim Bridger - Populous -
14 Kinport line. Under the RATFA, PacifiCorp owns two-thirds
15 and Idaho Power owns one-third of the capacity of the
16 transmission lines. The Kinport - Goshen transmission line
17 provides the connection of the Jim Bridger - Goshen line to
18 the Idaho Power transmission system. The RATFA also
19 provides Idaho Power with transmission capacity rights on
20 the Kinport - Goshen line. With the elimination of the
21 RATFA, Idaho Power requires ownership in the Kinport -
22 Goshen line to transfer energy received at Goshen on the
23 Jim Bridger - Goshen line to the Idaho Power transmission
24 system at Kinport.

25

1 Q. What benefits does the change in the Jim
2 Bridger Transmission System eastbound capacity provide?

3 A. The retention of at least 100 MW of Jim
4 Bridger Transmission System eastbound rights will ensure
5 that the sale of Jim Bridger generation can be sold as firm
6 energy by Idaho Power. More specifically, with eastbound
7 Jim Bridger Transmission System rights, if Idaho Power
8 sells energy at Jim Bridger to utilities, and a unit at Jim
9 Bridger trips offline, Idaho Power will be able to back up
10 the original sale with other Idaho Power generation,
11 maintaining the higher firm energy sales price. Without the
12 ability to back-up or firm the sale of Jim Bridger energy,
13 the sales price for this energy would be reduced
14 substantially.

15 Q. Please describe the benefits associated with
16 the change in the Jim Bridger Transmission System westbound
17 capacity.

18 A. The reallocation of the Jim Bridger
19 Transmission System ownership to align with each owner's
20 capacity rights will allow each owner to deliver energy
21 during line outage conditions without having to rely on an
22 operating agreement. Operating agreements are subject to
23 interpretation and can become difficult to manage as
24 transmission configurations change and reliability
25 requirements modernize.

1 Q. Please continue describing the benefits
2 related to the capacity and ownership of transmission lines
3 and substations that Idaho Power will acquire from
4 PacifiCorp.

5 A. Idaho Power will receive capacity and
6 ownership of the Antelope - Goshen line and facilities at
7 the Goshen substation. Capacity on the Antelope - Goshen
8 line will provide a new source to reliably serve the
9 Blackfoot, Idaho area. In addition to improving
10 reliability, the Blackfoot area load is forecasted to grow
11 in the next five to ten years. The present plan to meet
12 this growth includes a new twenty-mile line from the Brady
13 - Antelope 230 kV line to the Haven substation. The
14 Antelope - Goshen line capacity would provide increased
15 load service reliability and operational flexibility for
16 the Blackfoot area, eliminating the need for the Brady -
17 Antelope 230 kV line at half the cost of the present plan.

18 Q. Please describe the benefits related to the
19 Antelope - Scoville line and Antelope substation facilities
20 acquisition.

21 A. Idaho Power has an existing agreement with
22 PacifiCorp for capacity through the Antelope substation to
23 serve a single Idaho Power customer via the Scoville
24 substation. As part of this transaction, Idaho Power will
25 acquire assets at the Antelope substation, converting an

1 outdated legacy agreement to asset ownership and
2 eliminating the need to cross PacifiCorp's assets to serve
3 a single Idaho Power customer.

4 Q. What are the benefits related to capacity on
5 the American Falls - Malad line?

6 A. As shown on Exhibit 4 in gray as an Idaho
7 Power Acquired Asset, the American Falls - Malad line
8 travels south from American Falls to Malad through the
9 Arbon Valley. Idaho Power currently has capacity
10 limitations in the Arbon Valley area due to voltage
11 constraints and has had to quote customers expensive
12 distribution upgrade requirements for load requests, grant
13 load requests for significantly less than desired, or
14 simply deny load requests. The Company has also
15 experienced low voltage issues on the distribution feeder
16 due to the distance between the source substation and the
17 Arbon Valley, resulting in the rebuild of sections of the
18 feeder. Additional distribution upgrades would be required
19 in the future as existing customer load growth increases.
20 This would result in costly upgrades due to the length of
21 the distribution feeder that typically requires multiple
22 miles of rebuild. However, ownership in the American Falls
23 - Malad line will provide an alternative to rebuilding the
24 feeder at nearly half the cost of a distribution rebuild.

25

1 Q. Please describe the benefits related to the
2 Midpoint - Hemingway acquisition.

3 A. As part of the exchange, Idaho Power will
4 acquire 410 MW of Midpoint - Hemingway westbound capacity
5 ("Midpoint West"). The acquisition of westbound capacity on
6 this 500 kV line, identified on Exhibit 4 in red with gray
7 outline between the Hemingway and Midpoint locations, will
8 help to relieve Midpoint West transmission path constraints
9 on Idaho Power's transmission system. When factoring in
10 Idaho Power's generation in eastern Idaho, Wyoming, and
11 Nevada, east-side power purchases, and PacifiCorp's rights
12 to transfer 400 MW across Idaho Power's transmission
13 system, the Midpoint West path currently is oversubscribed
14 by more than 150 MW with long-term commitments of
15 conditional firm energy. This oversubscription of
16 conditional firm energy limits Idaho Power's ability to
17 purchase energy from the eastern side of the Western
18 Interconnect. And, locating resources on the eastern side
19 of the Idaho Power system has become problematic due to the
20 substantial amount of new transmission investment required
21 to fully integrate a new resource into Idaho Power's
22 transmission system.

23 Idaho Power will also receive 700 MW of Hemingway -
24 Midpoint eastbound capacity. This capacity will greatly
25 increase Idaho Power's resource flexibility in the spring

1 and early summer. During spring run-off, the supply of
2 water is very high, weather is moderate, and resulting
3 loads are light. Throughout spring, conditions regularly
4 exist where transfers from the Northwest into Idaho Power's
5 system, coupled with generation out of the Hells Canyon
6 complex, can substantially exceed Idaho Power's west side
7 load. In these cases, eastbound capacity is needed across
8 Midpoint West path to source southern and eastern load and
9 reduce thermal coal generation in the east and serve load
10 with low-cost hydro power from the northwest. With the
11 acquisition of Hemingway - Midpoint eastbound capacity,
12 this constraint will be alleviated. Near-term benefits
13 also include increased maintenance window flexibility for
14 Midpoint West transmission lines and other path equipment.

15 Furthermore, the Hemingway - Midpoint eastbound
16 capacity will be necessary to completely and economically
17 integrate the Boardman - Hemingway 500 kV transmission
18 project ("B2H"). When completed, B2H will increase the
19 amount of power that Idaho Power can purchase from the
20 northwest by 500 MW during spring and summer months. Given
21 today's Midpoint West eastbound capacity constraints, an
22 additional 500 MW would exacerbate current problems and
23 limit the economic efficiency of the B2H line. Acquiring
24 this Hemingway - Midpoint capacity today will increase the
25 economic efficiency of Idaho Power's system, increase the

1 operational flexibility to maintain equipment now, and will
2 solve a future economic efficiency problem that would
3 otherwise appear with the B2H addition.

4 Q. What are the benefits related to capacity on
5 the Hemingway - Summer Lake line?

6 A. During peak summer load months, Idaho Power
7 looks to the Mid-C market to obtain additional resources.
8 These resources are brought in over interties that make up
9 the Northwest-Idaho path. This path consists of tie points
10 with the Balancing Areas of Avista, PacifiCorp, and the
11 Bonneville Power Administration ("Bonneville"). During the
12 summer months, Idaho Power has allocated capacity on the
13 ties with Avista at Lolo or the combined ties with
14 PacifiCorp at either Enterprise or Hemingway/Midpoint to
15 meet load service needs. The tie to Bonneville is fully
16 subscribed.

17 In order to consider the resource a "network
18 resource" and utilize network transmission on Idaho Power's
19 system, the network customer (in this case, Idaho Power's
20 Load Serving Operations) must obtain firm transmission from
21 the Mid-C market to the Idaho Power intertie borders.
22 Idaho Power is unable to obtain firm transmission from the
23 Mid-C market to the Enterprise point during the summer
24 months as there is no firm transfer capability available on
25 PacifiCorp's transmission system for that path. The

1 Hemingway - Summer Lake line became available for eastbound
2 scheduling in 2012. Since then, Idaho Power has reserved
3 over 200,000 megawatt-hours for Idaho retail load service.
4 Idaho Power projects increased future use of this
5 transmission path. As a result, Idaho Power has looked to
6 the 500 kV connection at Hemingway/Midpoint as firm
7 capacity does exist and is available at that intertie.
8 Ownership in the Hemingway - Summer Lake line, identified
9 on Exhibit 4 as the red line with a gray outline between
10 the Hemingway and Summer Lake locations combined with
11 acquisition of facilities in the Burns and Summer Lake
12 substations, provides the opportunity to transact business
13 with Bonneville at Summer Lake and reduce Idaho Power's
14 transmission expenses. While the overall Northwest-Idaho
15 capacity does not increase, it will provide Idaho Power the
16 opportunity to use more capacity on a firm basis for
17 resources because the firm capacity from the market can be
18 procured.

19 Q. Please describe the benefits related to the
20 Walla Walla - Hurricane transmission line and substation
21 facilities acquisition.

22 A. Currently, Idaho Power must wheel across
23 Avista's, Bonneville's, or PacifiCorp's system to access
24 northwest energy markets. In terms of summer capacity,
25 Avista controls 340 MW of capacity, Bonneville controls 350

1 MW of capacity, and PacifiCorp controls 510 MW of capacity.
2 Utilizing PacifiCorp's 510 MW of capacity generally
3 requires a Bonneville transmission wheeling expense,
4 resulting in higher transmission costs. Ownership of the
5 Walla Walla - Hurricane line, along with ownership of the
6 Hemingway - Summer Lake line, affords Idaho Power a
7 significant increase in the amount of capacity in the
8 Idaho-Northwest allocation.

9 The capacity on the Walla Walla - Hurricane line
10 will also support opportunities for line upgrades in the
11 Idaho-Northwest that Idaho Power would not otherwise have
12 been able to pursue. Upgrades on the Idaho-Northwest path
13 would increase line ratings and add operational flexibility
14 at the Hells Canyon power plant. Acquiring capacity on the
15 line supports participation in a new Walla Walla to McNary
16 transmission line further connecting Idaho Power to
17 Bonneville at the McNary substation and providing for
18 greater firm transmission access to the Mid-C market
19 without transmission wheeling expenses.

20 Q. What are the benefits related to ownership of
21 facilities at the Jefferson and Big Grassy substations?

22 A. Joint ownership in facilities at Jefferson and
23 Big Grassy will provide the ability to import power while
24 also allowing for the conversion of antiquated legacy
25 agreements into a new operating agreement that better

1 aligns with the Parties' current configuration of their
2 respective transmission systems and current load
3 obligations.

4 Q. What is the net book value of the transmission
5 lines and substations Idaho Power will acquire?

6 A. The net book value of the assets Idaho Power
7 will receive from PacifiCorp is approximately \$43,617,898.

8 Q. Please provide the net book value details that
9 support the benefits associated with the acquisition of the
10 transmission lines and substations in the categories
11 described above.

12 A. The following chart details the net book value
13 of the assets as categorized above.

<u>Assets Received from PacifiCorp</u>	<u>Net Book</u>
Jim Bridger transmission system realignment	\$12,858,202
Antelope-Goshen line, Goshen substation	\$1,508,864
Antelope-Scoville line, Antelope	\$323,060
American Falls-Malad line	\$72,762
Midpoint-Hemingway line, Hemingway substation realignment	\$10,765,168
Hemingway-Summer Lake line, Burns and Summer Lake substations	\$12,284,140
Walla Walla - Hurricane line, Hurricane and Walla Walla substations	\$4,618,711
Jefferson & Big Grassy substations	\$1,186,990
Total	\$43,617,898

14
15 Q. How does the net book value of the assets
16 Idaho Power will receive from PacifiCorp compare to the net
17 book value of the assets Idaho Power will transfer to
18 PacifiCorp?

1 A. Although the net book values are subject to a
2 true-up adjustment following the closing of the exchange,
3 the estimated net book value of the assets Idaho Power will
4 transfer to PacifiCorp is approximately \$43,265,036, nearly
5 equal to the net book value of the assets Idaho Power will
6 receive, \$43,617,898.

7 Q. Does this conclude your testimony?

8 A. Yes, it does.

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**BEFORE THE
IDAHO PUBLIC UTILITIES COMMISSION**

CASE NO. IPC-E-14-41

CASE NO. PAC-E-14-11

**ANGELL, DI
TESTIMONY**

EXHIBIT NO. 2

**BEFORE THE
IDAHO PUBLIC UTILITIES COMMISSION**

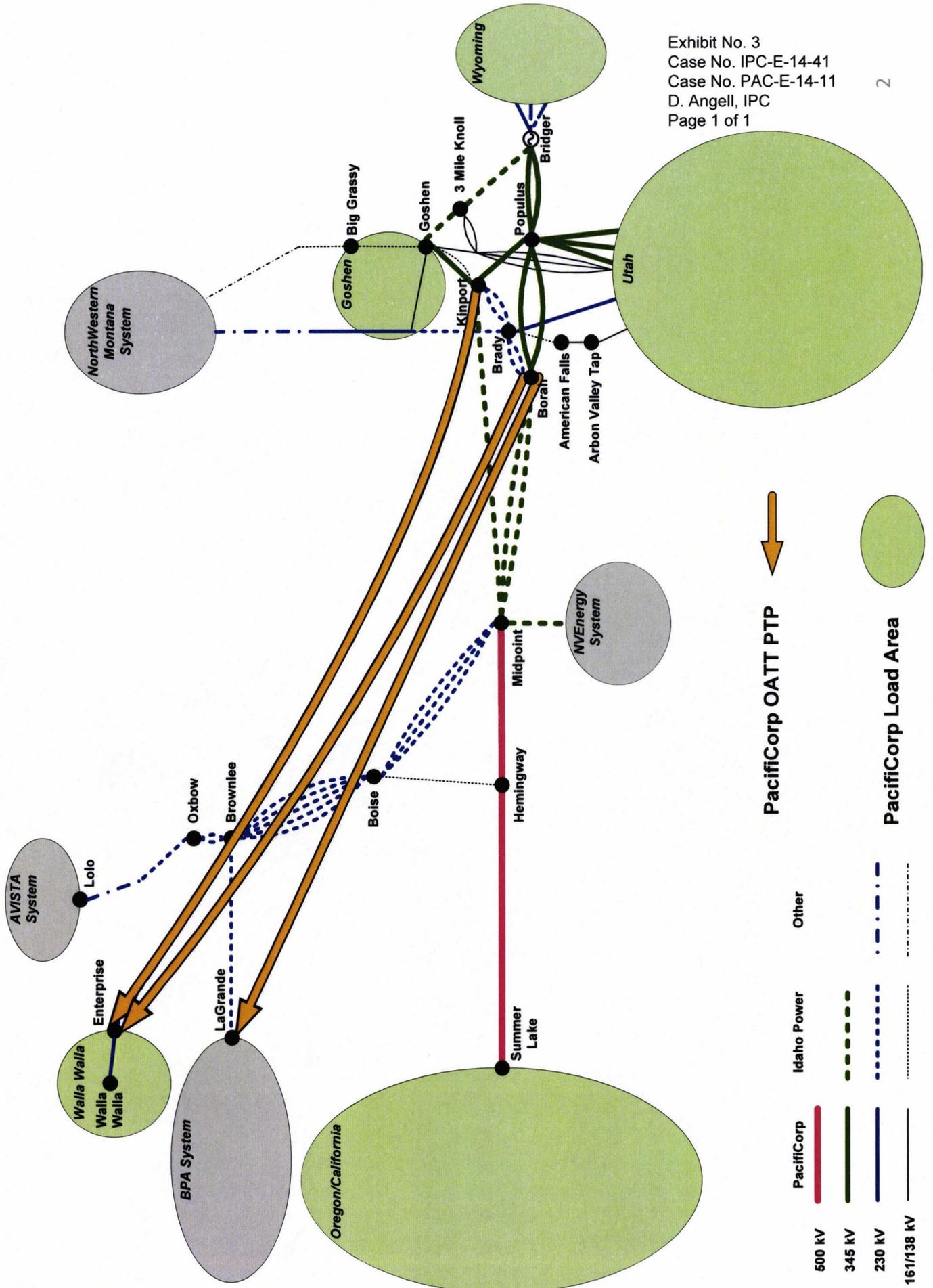
CASE NO. IPC-E-14-41

CASE NO. PAC-E-14-11

**ANGELL, DI
TESTIMONY**

EXHIBIT NO. 3

Transmission Service



**BEFORE THE
IDAHO PUBLIC UTILITIES COMMISSION**

CASE NO. IPC-E-14-41

CASE NO. PAC-E-14-11

**ANGELL, DI
TESTIMONY**

EXHIBIT NO. 4

Idaho Power Acquired Assets

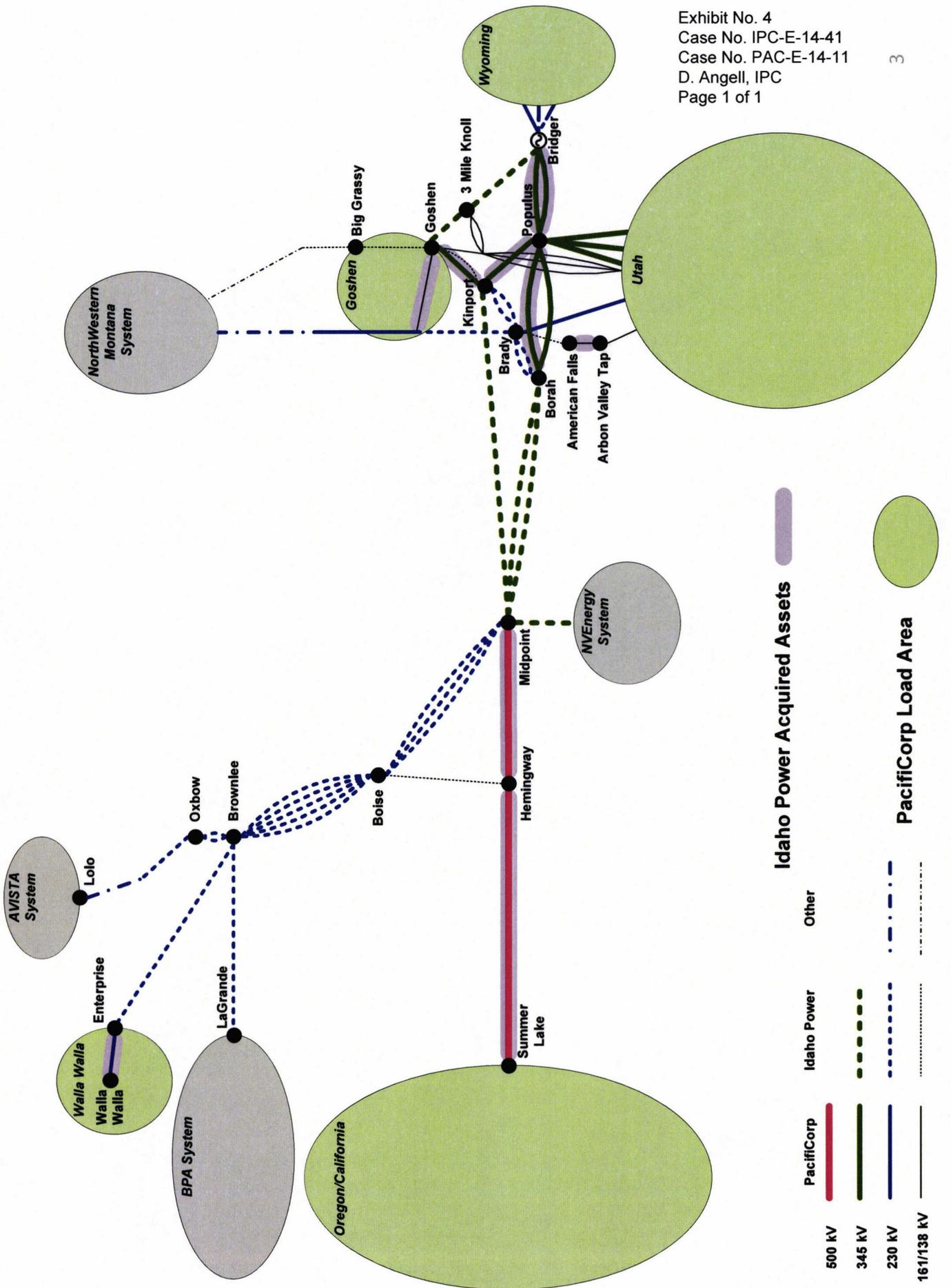


Exhibit No. 4
 Case No. IPC-E-14-41
 Case No. PAC-E-14-11
 D. Angell, IPC
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Idaho Power Acquired Assets

	PacifiCorp		Other
	500 kV		PacifiCorp Load Area
	345 kV		
	230 kV		
	161/138 kV		

**BEFORE THE
IDAHO PUBLIC UTILITIES COMMISSION**

CASE NO. IPC-E-14-41

CASE NO. PAC-E-14-11

**ANGELL, DI
TESTIMONY**

EXHIBIT NO. 5

PacifiCorp Acquired Assets

