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IN THE SUPREME COURT OF THE STATE OF NEVADA

SOUTHERN CALIFORNIA EDISON,

Appellant,

vs.

THE STATE OF NEVADA
DEPARTMENT OF TAXATION,

Respondents.

Case No. 67497

District Court No.: 09 OC 00016 1B
(First Judicial District Court of Nevada)

RESPONDENT'S SUPPLEMENTAL APPENDIX

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| No. | Document Title | Bates Nos. |
|-----|--|-------------|
| 1 | Expert Report of Dr. Richard J. McCann Senior Associate, Aspen Environmental Group | 1485 – 1534 |
| 2 | Portions of the January 24, 2014, testimony of John Jurewitz, Ph.D. | 1535 – 1543 |
| 3 | Portions of the January 30, 2014, testimony of John A. Swain | 1544 - 1547 |

Respectfully submitted this 14th day of October, 2015.

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CERTIFICATE OF SERVICE

I certify that I am an employee of the Office of the Attorney General, State of Nevada, and that on October 14, 2015, I electronically filed the foregoing, **RESPONDENT'S SUPPLEMENTAL APPENDIX**, with the Clerk of the Court for the Supreme Court of Nevada by using the appellate CM/ECF system.

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**Expert Report
of
Dr. Richard J. McCann
Senior Associate, Aspen Environmental Group**

May 2013

I have been retained by the Attorney General's Office of the State of Nevada to provide expert testimony in the case Southern California Edison Company v. The State of Nevada, ex. rel. Department of Taxation. The case pertains to tax periods March 1998 to December 2000.

Qualifications

I received my bachelors of science from the University of California, Berkeley in political economy natural resources in 1981. I earned a master of public policy from the University of Michigan' Ford School of Public Policy in 1986. In 1990, I received a master of arts in agricultural and resource economics from the University of California, Berkeley, and in 1998 completed my doctorate from the same department.

I began working in energy and environmental consulting in 1985 with Dames and Moore. I subsequently worked for QED Research, Spectrum Economics and Foster and Associates, which were successor firms, through 1989 when I returned to the University of California, Berkeley to complete my graduate education. In 1993 I was a founding partner of M.Cubed. In 2008 I joined Aspen Environmental Group.

Over the period from 1985 to the present I have testified before and prepared reports on behalf of numerous federal, state and local regulatory agencies on energy, air quality, and water supply and quality issues. I have testified before the Federal Energy Regulatory Commission (FERC), the California Public Utilities Commission (CPUC), the California Energy Commission (CEC), the California Air Resources Board (CARB), the South Coast Air Quality Management District (SCAQMD), the California State Water Resources Control Board (SWRCB), the Los Angeles Regional Water Quality Control Board, the Illinois Commerce Commission, the Oklahoma Corporation Commission, and several California counties' Boards of Supervisors.

I have analyzed many different aspects of energy utility operations and restructuring in California, including the environmental impacts of proposed fossil-fueled, geothermal, and hydropower generation plant divestitures for the CPUC, and industry restructuring issues for the CEC, petroleum companies and agricultural energy users. I led the economic system modeling of the impacts of divestiture for the CPUC. I testified before the FERC in the California energy crisis Refund Proceeding on behalf of the California Parties which include Southern California Edison. I have worked with the CEC to estimate the costs for new alternative generating technologies, and methods of implementing new modeling techniques. This work has led to evaluating production cost model platforms for the CEC, and developing several system modeling tools for local capacity planning and renewable generation integration. For the CEC, I examined the potential consequences of decommissioning PacifiCorp's dams on the Klamath River, and for the SWRCB, the changes in greenhouse gas emissions from hydro licensing conditions. I testified before the CPUC on impacts of electricity rates on agricultural groundwater pumping patterns, competitive fuel choices, and proposed drought-mitigation policies. I also evaluated operational options for Sacramento Municipal Utility District's Rancho Seco nuclear plant, and assessed future resources

available to California utilities in siting cases at the CEC, which included cogeneration, solar-thermal and waste-to-energy facilities.

In conducting the generation divestiture analysis for the CPUC, I lead the economic evaluation of the environmental impacts of the generating plant divestiture by Pacific Gas and Electric, Southern California Edison, and San Diego Gas and Electric Companies. I analyzed how divestiture may affect the path of California's electricity industry with restructuring and the interaction of power system operations and economics with environmental permitting issues. I also evaluated the environmental impacts from divesting hydropower facilities and related lands by Pacific Gas and Electric Company. My analysis of hydropower divestiture focused on creating different scenarios that reflected alternative ownership incentives for different entities such as merchant generators or public water utilities.

In FERC's Refund Case, EL-00-95 et al., I testified on electricity price refund issues related to air emission and environmental permit costs and on effects on power plant operations from environmental regulations. This included analysis of the SCAQMD's RECLAIM market performance during the crisis. In addition, I prepared background papers on issues affecting California's electricity prices for the California Electricity Oversight Board, the CEC, and the California Attorney General, as well as several energy consumer groups.

I also conducted an accounting of SCE's and PG&E's competitive transition charge accounts on behalf of the CPUC and the CEC. That accounting was used to develop forecasts of when the transition period might end and under what conditions, and to assess what remaining compensation the utilities might require during the energy crisis.

For further detail and a list of publications, reports and testimony, please see my curriculum vitae attached.

Scope of Testimony

My understanding of the case is that the Southern California Edison Company (SCE) contends that the tax imposed by the State of Nevada on the coal purchased as fuel for the Mohave Generation Station created a competitive disadvantage for SCE vis-à-vis other competitive electricity generators interconnected to the Western Electricity Coordination Council's (WECC) transmission grid over the period from March 1998 to December 2000. My testimony is in response to the contentions by Dr. John Jurewitz testifying on behalf of SCE. I discuss the history of the Western electricity markets, particularly for California as that is the relevant direct market, the structure of the electricity market including the products and services provided, the showing required to demonstrate that damages might have been incurred, and the conclusion that SCE has not shown that it incurred any damages or other adverse consequences from the tax.

History of Western Electricity Markets and California Electricity Industry Restructuring

The electricity market of the Western United States is a set of interconnected utilities in part or all of 17 states, two Canadian provinces and a portion of northwestern Mexico. These utilities are governed by WECC for setting reliability and operational standards and to coordinate planning. Within WECC there are many oversight organizations, as well as the individual utilities, that set rates, establish planning criteria and standards operate individual transmission systems and operate markets. Much like the financial industry, there are several formal and informal markets within WECC.

Nevada was and is interconnected to California through several large transmission projects, but northern and southern Nevada are only indirectly connected by going through other states—either through California and Oregon up the Pacific Northwest Intertie or through Arizona and Utah. Mohave was connected directly through a dedicated transmission line to Southern California from Laughlin. For this reason, the Nevada Power and Sierra Pacific Power (SPPC) service areas are functionally separate.

The California Independent System Operator (CAISO) operates the only fully formal market with WECC. The CAISO coordinates buying and selling of several electricity products and services among the three large investor-owned utilities (IOUs), several smaller municipal utilities, independent power producers (known as IPPs or merchants), other load-serving entities (LSEs) that sell to particular customers, and wholesale power sellers that include other regulated utilities outside of the CAISO operating boundaries.

The CAISO was created to operate the high-voltage assets of the IOUs as part of California's industry restructuring that was enacted in 1996. In addition, the California Power Exchange (PX) also was created to facilitate longer-term power sales in parallel with the CAISO. Both entities began operations on March 31, 1998.

As key part of the restructuring was the sale or "divestiture" of the IOUs' generation assets. These were sold to a variety of private entities under the presumption that increasing the number of participants in the marketplace would increase the competitiveness and thus keep downward pressure on market prices. To make the IOUs financially whole, the utilities were compensated through a "competitive transition charge" (CTC) that was the difference between the remaining financial book value of the generators and the actual sales price. Collection of the CTC was to end when either the IOU had recovered the total amount of remaining book value in generation assets or by March 31, 2002, whichever came first. Thus, the IOUs still received full recovery of their generation investment costs including Mohave. SCE sold all of its natural-gas fired generation plants in the first round in 1997 (although several of the plants had to be reoffered due to a lack of initial bids). SCE then moved to divest its portion of Mohave in 2000. That divestment, along with PG&E's proposal to divest its hydropower generation, was cut short by subsequent events.

While California market prices were initially relatively low due to unusually wet hydropower conditions in the spring of 1998, those prices rose through 1999 and into 2000. In June 2000, market prices spiked due to a combination of factors that allowed various power plant owners and operators to exploit opportunities to manipulate markets. These extraordinarily high market prices prevailed until June 2001 when FERC issued an order that capped prices at reasonable levels.

The financial crisis created by these market conditions lead to the State of California interceding in January 2001 to take partial control of power purchasing for the three IOUs and to take other actions to relieve pressure on market prices. The Pacific Gas and Electric Company declared bankruptcy and SCE threatened to follow until the CPUC approved a surcharge to allow the IOUs to recover costs incurred the crisis. The CPUC and SCE settled on a means for SCE to recover costs related to restructuring and the crisis in October 2001.¹ As part of that new cost recovery mechanism, SCE completed formal recovery of its investment in Mohave.

SCE and its co-owners, Los Angeles Department of Water and Power, Salt River Project and Nevada Power Company, retired Mohave in December 2005 when the costs to replace its air pollution control devices were higher than the expected benefit from continuing to generate power at the plant. The plant is now being demolished.

¹ See CPUC Decision 03-07-029 for a history of this settlement.

How Electricity Markets Are Structured

As with financial markets, the electricity “market” is in fact a collection of related markets. Financial markets include stocks, bonds, commodities, insurance and other products and services, and are bought and sold on exchanges such as the New York Stock Exchange and the Chicago Board of Trade, through Treasury bond auctions and direct two-party or bilateral sales. The electricity market can be viewed as having four related components:

1. **Energy:** This is the most commonly understood segment which delivers the kilowatt-hours used by consumers to power appliances and lights. The PX was the primary formal market during the 1998 to 2000 period in which contracts could be bought and sold from one day ahead to several months ahead. The CAISO ran very short term energy markets that filled energy needs not covered by PX transactions.
2. **Capacity:** This is for the ability to produce power on a firm basis at any given time upon request. Capacity usually is committed up to the level required to meet the peak load demand on a particular electrical system. For example, the highest amount of reliable capacity is required on the hottest afternoon of the summer. No formal capacity markets exist in the WECC or in California. Capacity is often delivered combined with “firm” energy. For IOUs such as SCE, consumers pay for capacity through inclusion in the utility’s rate base. The utility is given an annual rate of return on the investment in this rate base, guaranteeing that the utility will eventually recover the investment cost.
3. **Ancillary services:** This is a collection of submarkets that provide power for minute-to-minute changes and to maintain stability in the transmission grid. The CAISO manages these markets and procures services on behalf of the IOUs and other LSEs in the CAISO.
4. **Local support:** These are services that can only be provided by generators in a specific geographic location or a node on the transmission network. These provide voltage support and local system stability. The CAISO runs these generators based on instructions from the IOUs.

Mohave was able to participate in only two of these markets—energy and capacity. Mohave was not able to adjust its generation quickly from moment-to-moment, so it could not participate in the ancillary services market. It also was situated a long distance from load centers, particularly Los Angeles, thus it could not provide local support services. Mohave produced a steady, reliable output of energy to the grid. Mohave was included in SCE’s rate base, and SCE received compensation for the capacity delivered from Mohave in this manner. The CTC was the mechanism used during restructuring to assure continued cost recovery for SCE’s investment in Mohave. Thus, SCE recovered its investment in Mohave independent of its energy sales from Mohave into the PX, the CAISO or any other bilateral sales agreements.

Finding 1: SCE’s allowed profits for Edison International shareholders from Mohave were unaffected by the sales price of or the cost of fuel for energy produced by Mohave during the 1998 to 2000 period.

An additional dimension of the electricity marketplace is the importance of transmitting power from a generator, sometimes quite distant, to a customer in a load center. The transmission lines have limited capacity that can constrain the amount of power that can be delivered from a generator to a distant market. This aspect limits the number and type of generators that can compete within a market.

Mohave had sufficient firm, committed transmission capacity to Southern California to assure that it could always sell its full output into the CAISO market. Other generators, both out of state and in other

locations in California, could face transmission constraints to sell into the Southern California market during particular periods of time. Conversely, Mohave faced transmission constraints in selling power to regions outside of SCE's service area.

Finding 2: Mohave's inability to make additional surplus sales, if that ever occurred in the period in question, may have been due solely to the transmission limits on its ability to export to other utilities.

Who Were the Competitors with Mohave in the Electricity Markets

SCE sold most of its power from Mohave through the PX and CAISO markets. SCE also sold surplus power to other utilities within the WECC region (also known as the Western Interconnect) in bilateral off-peak or non-firm sales. Most of these latter sales occurred during low-load nighttime periods. Mohave competed for these sales with power plants whose operating costs were near the market clearing price in the relevant energy markets. Mohave never competed with other generators in a "capacity" market because SCE had assured investment return for Mohave. Mohave never could participate in the ancillary services or local support markets because the coal-fired plant did not have the appropriate operating characteristics and was not located near SCE's load center.

Mohave's competitors in the energy market were generators with operating costs near the market clearing price in any given hour who were interconnected into the same market as Mohave. In the CAISO, the vast majority of these generation units are fueled by natural gas. Natural gas prices per million British thermal units (MMBtus) were several times higher than coal prices, including Mohave's. Even though many new natural-gas fired units are more efficient than older coal-fired units such as Mohave, this efficiency gain could not make up the entire difference in cost. For this reason, coal-fired plants such as Mohave are considered "baseload" generation that operates around the clock at a constant output.

Finding 3: The direct competitors to Mohave for power sales in the WECC region were most likely higher-cost gas-fired generation. Mohave would have been able to undercut the prices offered by these generators to make sales during all hours. For this reason, Mohave is considered an "inframarginal" generator whose output is not affected by changes in the market price.

Further, coal plants such as Mohave often have "take or pay" coal supply contracts that require a certain amount of coal to be delivered and burned in a specified period of time. Given that the fuel must be used regardless of cost and market price, this effectively makes the fuel price equal to zero. In other words, the coal plant will continue to sell power to the grid even if the market price is zero.

Another set of generators were not direct competitors with Mohave. These were renewable and fossil-fueled cogeneration power plants that sold under bilateral contracts to the utilities. These "qualifying facilities" (QF) plants sold power priced administratively through contracts approved by the relevant public utilities commission, in this case either the CPUC or the Public Utilities Commission of Nevada (PUCN). In addition, the utilities had to buy the entire output from these plants regardless of whether the administered price was higher than the short-term market price or prices available from alternative sources. Within Nevada, all of the geothermal power output was sold to through these contracts SPCC which was not electrically connected directly to the same market as Mohave. In these cases, Mohave could not have displaced the power output from the QF plants regardless of Mohave's cost to generate power.

Finding 4: Mohave did not compete with Nevada geothermal plants or other QF generators under CPUC and PUCN-approved contracts because those plants were paid administered prices insensitive to

changes in market conditions and delivered “must-take” power that could not be refused by utilities except under specific physical conditions unrelated to market prices or Mohave’s costs.

Mr. Alan R. Coyner, Administrator of the Nevada Division of Minerals, states in his report that the nominally-trivial amount of natural gas produced in Nevada was used mostly in producing petroleum, and the remainder was burned to generate electricity at isolated petroleum production facilities that were not interconnected to the WECC grid. For this reason, these natural gas sales cannot be considered to be in competition with Mohave—this energy was used in a physically-separate market and was not a fungible replacement for Mohave output.

Similarly, Mr. Coyner states that the majority of oil produced in Nevada was used in local plants physically separated from Mohave. Further, even if this oil was burned in a power plant, these plants, which are either older combustion turbines or internal combustion diesel engines, have such high operating costs that they are only economically feasible to operate when the market price is high during the highest peak loads. Coincidentally, these are also the periods when the demand for power from Mohave is highest and the margin between the market price and Mohave’s cost of operations is largest.

Finding 5: Nevada’s output of natural gas and oil was too small to justify investment in the infrastructure necessary to deliver to commercial power plants that would compete with Mohave. The natural gas was stranded and could never enter the electricity marketplace. While oil is fungible and transportable, it only would have been burned during the periods when Mohave was able to sell its entire output because its costs were substantially less than the market price.

What SCE Must Show to Demonstrate Damages

To demonstrate that SCE incurred a competitive disadvantage from imposition of the fuels tax, SCE must make a step of conclusive showings. Each is a necessary, but not always sufficient, condition for showing a competitive disadvantage.

Condition 1: SCE must show that Mohave’s output was reduced during the period compared to other similarly situated power plants. These plants would have to be coal-fired, and have coal supply contracts with similar prices and terms. The data for making this analysis is available to SCE from the Energy Information Administration in the Form 923 data.

Condition 2: If Mohave had reduced output, SCE must show that reduction was solely due to external dispatch decisions and not for other physical or engineering reasons such as forced outages, scheduled or periodic maintenance, or reduced output due to plant limitations. The data for conducting this analysis is filed with the North American Electricity Reliability Corporation (NERC) Generation Availability Database System (GADS).

Condition 3: If Mohave’s output was reduced due to external dispatch decisions rather than internal engineering limits and decisions, SCE must show that the output was not reduced due to transmission constraints that were imposed for non-economic reasons. This is particularly true for the period in the spring of 1998 when high-water hydropower conditions flooded the WECC system with electric power being generated at zero and even negative costs. The data for conducting this analysis for at least a portion of this period is available from the WECC and the CAISO, which shows the hourly transmission flows on the major transmission pathways in the WECC region.

Condition 4: If Mohave’s output was reduced for economic dispatch decisions and not transmission constraints, SCE must show that Mohave’s operating costs, which are composed of fuel burned and variable operating costs, were higher than the winning bids to sell power from other generators in the

specific hours in which Mohave's output was reduced for the dispatch reasons. The hourly price data for the CAISO and PX energy markets is publicly available to SCE as a participant in FERC's Refund Proceeding. This data shows which generator was the "marginal" price-setting generator with both (a) the actual realized market price that reflect the market manipulation and (b) the computed market price based on the costs to that generator. SCE also needs to compute the hourly cost of generation for Mohave based on its fuel costs and clearly delineated variable operating costs. (Recurring scheduled maintenance costs are considered "fixed" and do not vary with output from Mohave.)

Condition 5: If Mohave generation was curtailed due to economic dispatch, SCE must show that the generators which displaced Mohave burned fuel that was subject to the Nevada tax. These plants can be identified by combination of geographic location within Nevada and location on the electric grid to be in a position to sell power in direct competition with Mohave.


Meeting these conditions cannot be hypothetical—they must have happened in reality. In antitrust and anticompetitive analyses, the ability and the actions of an incumbent firm are assessed, and a frequent outcome is that the incumbent firm prevents firms from entering the market. In these antitrust cases, the competitive firms must be hypothetical because their market entry was prevented by the incumbent, and the damage is the economic loss from not having that entry. However, in the Mohave case, the question is whether the incumbent faced a disadvantage that allowed undue market entry. In this case, the incumbent did not suffer any damage if market entry did not occur. The incumbent was not responding to hypothetical entry. Speculation about whether entry might have occurred is not a sufficient condition to showing damages. If no entry occurred, then the disadvantage was insufficient to induce entry.

Finding 6: SCE has failed to provide the required evidence to demonstrate that it was damaged through undue entry from other market competitors because Mohave's costs were increased by the tax.

Fixing a Single Tax Will Not Fix a Distorted Economic Marketplace

Dr. Jurewitz contends that the adoption of an in-state fuel tax distorts the WECC-wide electricity market and that the distortion would be substantial if many or all other states adopted a similar tax. However, Nevada's tax is only one among many different taxes imposed by different states. Several states have oil, natural gas, coal and uranium severance taxes that raise the price of fuel produced within their state. Other states have corporation income taxes that raise the cost of power generated from plants within that state. California has a greenhouse gas allowance fee on power to be sold in California. Each of these taxes and fees distort the market price from what a "free" market might produce. Removing Nevada's tax while leaving these other taxes in place will not necessarily fix the current market distortions, and could even make the distortions worse. Making an instant analysis without substantial supporting work does not lead to an appropriate outcome.

Finding 7: Raising revenues through taxes is a necessary government function. Taxes generally tend to distort market prices and resource allocations away from the most efficient allocation if all costs are included in the market price. However, SCE has not provided the necessary analysis to show that Nevada's tax is more or less distortionary than alternative means of raising revenues, nor has SCE shown that the current market price would be more efficient without the tax.


Richard J. McCann, MPP, PhD

Date: 5/8/13

Richard J. McCann – Publications, Reports and Testimony

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641

1 said, we -- we are alleging is facially discriminatory
2 pursuant to the commerce clause, in which case -- if
3 that's true, there aren't these other excuses available
4 like, well, how else am I supposed to -- you know, this
5 is the best way to raise revenue even though it's
6 contrary to the commerce clause. I mean, those kind of
7 excuses are not available, that's not the way in which,
8 as I understand it, the law approaches these kinds of
9 issues. It's not -- This is not a public policy forum
10 for fine-tuning the way in which states go about
11 collecting revenues and can't we find some way that's
12 just a little bit better in terms of economic efficiency.
13 Well, no, this method presumably is contrary to a
14 constitutional constraint and that really should be the
15 end of the issue.

16 MR. READ: Thank you, Dr. Jurewitz. No
17 further questions.

18 THE COURT: Cross-examination, Ms. Session.

19

20 CROSS-EXAMINATION

21 BY MS. SESSION:

22 Q Good morning, Mr. Jurewitz.

23 A Good morning.

24 Q How are you this morning?

642

1 A Just fine.

2 Q Mr. Jurewitz, I think one of your comments at
3 the start -- in your testimony was that Mr. Swain makes a
4 number of assumptions when he gave the State an opinion
5 on this case. Didn't your testimony start off with a
6 number of assumptions as well?

7 A Absolutely. And I certainly wasn't objecting
8 to making an assumption, I just was interested that there
9 was no evidence that offered as to why that assumption
10 was a reasonable assumption to make and he didn't seem to
11 go any further than simply making that assumption. To me
12 it didn't seem like he took it any distance past the
13 making of an assumption.

14 Q All right. In your report that you provided
15 to Southern Cal Edison, can you point to me where you
16 have set out the assumptions that you explained to us
17 today for your report? Did you set those assumptions out
18 in your report?

19 You have the report. I believe it's Exhibit
20 70.

21 A I would have to look at that report. I -- I
22 haven't got it with me.

23 Q It's Exhibit 70.

24 A I --

1 Q Would you like a copy?

2 MS. NICHOLS: May I approach? May I approach
3 the witness, your Honor?

4 THE COURT: Yes.

5 THE WITNESS: You said 70 is the tab?

6 BY MS. SESSION:

7 Q Yes, that's correct.

8 A You know, I would have to pour through this
9 report. I think I would acknowledge upfront that I don't
10 think I framed this report explicitly laying out a list
11 of assumptions. I think that's a fair characterization.
12 I would assume that if you read through this expert
13 report, you wouldn't find anything that was inconsistent
14 with my explicit listing of assumptions in response to
15 Mr. Read's questions.

16 Q All right. But we don't see it in the --
17 your scope of testimony section, do we, your list of
18 assumptions?

19 A It is certainly not called out as a section.

20 Q All right. And so since there's no listing
21 of those assumptions that you said that you were making
22 before you started your testimony today, is there a
23 reasonable analysis that you set out in this report for
24 those assumptions?

644

1 A This, this report is, as you see, is laid out
2 in terms of several expert opinions and the bases for
3 those opinions.

4 Q Okay.

5 A And, you know, I'm afraid all I can say is
6 the structure is what it is and is what I submitted.
7 It's not explicitly, I would acknowledge, probably the
8 case that I laid out all the assumptions.

9 Q All right. Thank you.

10 There's two opinions in here I want to take
11 some time to go through carefully and one is Expert
12 Opinion 5 and that's down on page 8, and then Expert
13 Opinion 6. And I think it was your testimony, Mr. -- Is
14 it, I'm sorry, Mr. Jurewitz or Dr. Jurewitz?

15 A Dr. Jurewitz.

16 Q -- Dr. Jurewitz --

17 A Yeah.

18 Q -- that you are not an expert on the commerce
19 clause; is that a fair --

20 A Certainly not on a legal basis. It's not
21 that I'm unfamiliar with it, especially as regards policy
22 and economic policy interpretations, but I don't claim to
23 have any legal expertise.

24 Q Okay. And I think it was also your testimony

645

1 that you wouldn't characterize yourself as an expert in
2 taxation or state taxation; is that correct or --

3 A Certainly not in all of the mechanics of how
4 all these taxes fit together and especially not in terms
5 of what kind of legal precedent there might be for
6 looking at the entire framework versus certain subsets of
7 the framework in terms of examining certain issues. I am
8 familiar with the economics analysis of taxation.

9 Q Okay. All right. Well, Expert Opinion 5,
10 that first line says, "Nevada's overall tax framework
11 provides preferential treatment to domestic users of oil,
12 natural gas, geothermal heat extracted in Nevada." And I
13 guess in this report we're referring to the period
14 between 1998 and 2000; is that correct?

15 A Yes.

16 Q All right. Can you identify to me -- And
17 domestic you mean Nevada users?

18 A Nevada, that's correct.

19 Q Okay. So your opinion is that we've provided
20 preferential treatment and I'll start with users of oil.
21 Can you identify for me a user of oil or producer of oil
22 that was in Nevada in that period of time that received e
23 preferential treatment? And I -- Well, I'll start with
24 that.

1 A In my response to or my bases for Expert
2 Opinion No. 6, I do list not only geothermal producers
3 but also producers of both oil and gas.

4 Q And I'm talking -- Okay. So first of all,
5 can you tell me what you mean by preferential treatment?
6 And let me tell you what I think you mean and you can
7 tell me if I'm wrong.

8 A Yes.

9 Q I think what you mean is that, that these
10 producers of oil, because we're going to start with oil,
11 were not subject to sales or use tax and exercised the
12 exemption in 372.270 so as not to pay sales and use tax.
13 Is that a proper --

14 A I think it is. My understanding is that by
15 virtue of the -- of the, I believe the section that you
16 just cited --

17 Q Yes.

18 A -- that they paid the proceeds of mining tax
19 but are exempt from paying the sales tax.

20 Q Okay. And so --

21 A So it's that aspect in comparison to the use
22 tax that I'm referring to.

23 Q Okay. And I'm trying to get very specific
24 here. Who specifically, what specific oil company paid

647

1 net proceeds of oils tax during that 1998 to 2000 period
2 and did not pay sales or use tax on oil that was used to
3 generate electricity in Nevada?

4 A Well, I think that there are some specific
5 names that are mentioned in the, under the basis of
6 Expert Opinion No. 6. I don't know that those are
7 comprehensive.

8 Q Well, what names are you referring to?

9 A Well, I see some names such as the Kate
10 Spring Field, Makoil Incorporated, Western General,
11 Incorporated.

12 Q Are any of those oil companies?

13 A That appears to be a reference to natural
14 gas. Gas and oil are frequently produced the same, but
15 literally, no, that doesn't appear to be a reference to
16 oil. I need to read exactly what I have here first since
17 you are asking what I...

18 Q Certainly.

19 A I guess when I'm talking here about oil --

20 Q Okay.

21 A -- I have numbers that are gleaned from the
22 Nevada Bureau of Mines and Geology report.

23 Q Okay.

24 A But it does not cite to specific companies,

673

1 testimony?

2 A Yes, and most especially electricity boiler
3 fuel. Coal is, in the United States, really not used for
4 much of anything other than feeding electricity boilers.
5 There's some metallurgical uses of coal, but almost all
6 of it is in the production of electricity and, therefore,
7 when you are producing coal, you are clearly in
8 competition not just with other coal producers, but other
9 mechanisms for producing steam, as other fuels for
10 producing steam and other sources of steam.

11 Q Beyond the fuels that you've identified, oil,
12 natural gas, geothermal, are you including other fuels in
13 that category?

14 A Such as?

15 Q Are those the ones that you are focused
16 on that -- When you say we should be looking at a broader
17 market --

18 A Right.

19 Q -- of fuels, are those the fuels you are
20 referring to?

21 A I think I would -- In a -- To broadly state
22 it I think I would also include falling water and blowing
23 wind within that category, but they are not implicated in
24 the kind of discriminatory allegations involved in this

1 case. So the large --

2 Q Okay.

3 A -- set, the superset of what's in the market
4 is anything that will spin a turbine.

5 Q Right.

6 A The subset, which is a substantial subset, is
7 things that spin turbines by producing steam.

8 Q Okay. And so when you talk about what the
9 market is, that's in reference to your expertise as an
10 economist, correct?

11 A Yes.

12 Q But when you are talking about market, you
13 are not really referring to how the dormant commerce
14 clause jurisprudence has defined markets, are you?

15 A I am not sufficiently intimately familiar
16 with the kind of evidence that's typically presented in a
17 dormant commerce clause case, but I am very familiar with
18 the kind of evidence that is offered in antitrust
19 proceedings, for instance, that get at the same kind of
20 definitions of market definition and product definition
21 in relevant geographical markets, et cetera.

22 Q Are you familiar with a dormant commerce
23 clause case that's called GM v. Tracy that compared the
24 competition between an out-of-state unregulated natural

1408

1 Director's Exemption Refund Report and on that \$217
2 million amount, and since I'm offering Professor Swain as
3 rebuttal, that was the reason that I was asking that
4 question.

5 THE COURT: Well, I guess the way you do it
6 is ask him did he read Professor Pomp's statement in
7 respect to that in particular, does he agree or disagree
8 with that particular statement. Now, that's a fair
9 question.

10 MS. SESSION: Okay.

11 BY MS. SESSION:

12 Q Have you read Professor Pomp's testimony in
13 regards to that number?

14 A I did, and I heard the number referred to.
15 And why I think the number is interesting to,
16 particularly to SCE, is it suggests that there were
17 people benefiting from the exemption, and if there were a
18 coal mine benefiting from it or a geothermal or an oil
19 and gas company based on the theory that they might be
20 ultimately treated by the court as competitors, then that
21 would be an interesting fact with respect maybe the
22 ability to retroactively assess. I think maybe why
23 that's why the number is of interest.

24 Q Right.

1409

1 A And because of that I thought about this a
2 little. And I said that's a big number. And I went and
3 looked at the annual reports of the Department of Mines
4 and Geology and I looked at the gross total production of
5 mines in Nevada for these years. And I applied -- So
6 gold, silver, copper, even aggregates that don't benefit
7 from the mineral tax exemption.

8 Q Right.

9 A They are all in that report and there's a
10 number of about 3.1 billion, you can pull it, and I
11 applied the tax rate times that --

12 Q Yes.

13 A -- and it's exact-- almost exactly 217
14 million, for the year before it's 214, for the year after
15 it's 222. So there's two inferences I draw from that.

16 Q Right.

17 A One is what did the analyst do in the
18 Department when they were -- assuming they were charged
19 with doing this, you know, tax expenditure report is what
20 we call it.

21 Q Yeah.

22 A Well, I mean, it's a -- How do you figure
23 that out? Well, they pulled the report and applied the
24 rate to the number and that's what happened. So this

1410

1 is -- It's probably how it happened, and regardless of
2 how it happened, it is the equivalent of that. It would
3 be the equivalent of, of -- it's a big number and it's a
4 big number because it's measured by the gross proceeds
5 of -- I mean, by the net revenues from all mining in
6 Nevada so it's a completely inaccurate number in my view
7 because of that.

8 And then secondly when you think about it
9 because one of the -- Like take the gold.

10 Q Yeah.

11 A Which -- It has to have been included in this
12 number. That sold for resale. That's a raw material.
13 Take copper, okay, there's a resale exemption available
14 to that. Now, again, think about this analyst when he's
15 preparing this number. What's the rule in reporting this
16 to the legislature if two exemptions apply? Maybe I need
17 to report it anyway. And it may be perfectly valid for
18 legislative reporting, but in terms of this case if the
19 exemption is superfluous then we don't have a commerce
20 clause discrimination, provided other constitutional
21 exemptions would apply anyway.

22 And so, I mean, that's what I think about
23 that number, it's, it's -- just was applied to the gross
24 proceeds of all mines in Nevada.

1411

1 Q And did the State ask you to look at that?

2 A No, I just -- I heard that testimony on
3 Friday and it got me thinking and I -- Because I knew the
4 number had to come from somewhere and I, you know, I
5 practiced law for 12 years and did some work with the
6 legislature in Arizona and heard people grumble about
7 having to prepare reports with revenue impact statements
8 when the legislation was drafted and I thought, had a
9 theory, I had a hunch and I pursued it.

10 Q All right. So just a couple last questions.

11 And thank you for your patience with my questions.

12 Are you aware of any Nevada coal that
13 benefited from favored tax treatment in this case?

14 A Based on my understanding of the facts of
15 this case, there's no Nevada coal so out-of-state coal
16 had a monopoly with respect to the Nevada coal mining.

17 Q And does good tax policy or the dormant
18 commerce clause require the State to refund \$24 million
19 to Southern Cal Edison in this case?

20 A No, a refund is not required in this case
21 under the assumptions in my report.

22 Q Okay.

23 MS. SESSION: Thank you very much.

24 THE COURT: Rather than start the