UNITED STATES OF AMERICA BEFORE THE FEDERAL ENERGY REGULATORY COMMISSION

Enron Power Marketing, Inc.)and Enron Energy Services Inc.)Enron Power Marketing, Inc.)and Enron Energy Services Inc.)Portland General Electric Company)Enron Power Marketing, Inc.)El Paso Electric Company)Enron Power Marketing, Inc.)Enron Power Marketing, Inc., and)Enron Capital and Trade Resources Corp.)

Docket No. EL03-180-000

Docket No. EL03-154-000

Docket No. EL02-114-007

Docket No. EL02-115-008

Docket No. EL02-113-000

(Consolidated)

SUMMARY OF REBUTTAL TESTIMONY OF ROBERT F. MCCULLOUGH ON BEHALF OF PUBLIC UTILITY DISTRICT NO. 1 OF SNOHOMISH COUNTY, WASHINGTON

Robert F. McCullough, Managing Partner of McCullough Research, rebuts the direct testimony filed by Enron witness, Dr. Jan Paul Acton, in Docket EL03-154 involving Enron's gaming practices and profits. Mr. McCullough testifies to each of the eight gaming practices discussed in Dr. Acton's testimony: False Import (also known as Ricochet or Megawatt Laundering); Cutting Non-Firm (also known as Non-Firm Export); Circular Scheduling (also known as Death Star); Scheduling Counterflows on Out-of-Service Lines (also known as Wheel Out); Load Shift, Paper Trading (also known as Get Shorty); Double Selling; and Selling Non-Firm as Firm. Mr. McCullough demonstrates that Dr. Acton's claim that fraudulent gaming practices increased, rather than decreased, the efficiency of the markets is preposterous. Rather than increasing

efficiency of the markets, Mr. McCullough shows how each of the gaming practices had a detrimental effect on market efficiency and consumers.

Mr. McCullough also rebuts Dr. Acton's direct testimony in Docket EL03-180 involving Enron's business arrangements, alliances or partnerships with other entities and profits analysis of Enron's gaming practices, partnerships, or profits. Mr. McCullough demonstrates that Dr. Acton simply missed the vast majority of evidence regarding Enron's unreported relationships with partnership entities discussed in Dr. Acton's testimony.

Additionally, Mr. McCullough rebuts the position taken by the California Parties' witness, Jeffrey Merola, regarding the amount of profits derived by Enron from transactions in California versus the amount of profits derived by Enron from transactions in other parts of the West. The distribution of Enron's profits among regions in the Western Interconnect is a subject matter that is best-suited for analysis in the second phase of this proceeding involving the distribution of proceeds.

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UNITED STATES OF AMERICA BEFORE THE FEDERAL ENERGY REGULATORY COMMISSION

Enron Power Marketing, Inc. and Enron Energy Services Inc.)	Docket No. EL03-180-000
Enron Power Marketing, Inc.)	Docket No. EL03-154-000
and Enron Energy Services Inc.)	
Portland General Electric Company)	Docket No. EL02-114-007
Enron Power Marketing, Inc.)	Docket No. EL02-115-008
El Paso Electric Company)	Docket No. EL02-113-000
Enron Power Marketing, Inc., and)	
Enron Capital and Trade Resources Corp.)	
	*	(CONSOLIDATED)

REBUTTAL TESTIMONY OF ROBERT F. MCCULLOUGH ON BEHALF OF PUBLIC UTILITY DISTRICT NO. 1 OF SNOHOMISH COUNTY, WASHINGTON

1 Introduction

2	Q.	Please state your name and address for the record.
3	A.	My name is Robert F. McCullough, Jr. I am the Managing Partner of
4		McCullough Research, an energy consulting firm specializing in bulk power
5		issues. My address is 6123 S.E. Reed College Place, Portland, Oregon 97202.
6	Q.	Are you the same Robert McCullough who submitted testimony previously in
7		this proceeding on behalf of the Public Utility District No. 1 of Snohomish
8		County, Washington?

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1 A. Yes.

2	Q.	What is the purpose of your current testimony?
3	A.	This testimony rebuts the direct testimony filed by Enron's witness, Dr. Jan
4		Acton, in Docket EL03-154 involving Enron's gaming practices and profits. ¹
5		This testimony also rebuts Dr. Acton's direct testimony in Docket EL03-180
6		involving Enron's business arrangements, alliances or partnerships with other
7		entities and profits. ² In addition, this testimony rebuts the position taken by the
8		California Parties' witness, Mr. Jeffrey Merola, regarding the amount of profits
9		derived by Enron from transactions in California versus the amount of profits
10		derived by Enron from transactions in other parts of the West. As discussed later
11		in my testimony, the distribution of Enron's profits among regions in the Western
12		Interconnect is a subject matter that is best-suited for analysis in the second phase
13		of this proceeding involving the distribution of proceeds.
14	Q.	Please summarize Dr. Acton's conclusions in his EL03-154 testimony
15		regarding Enron's gaming practices and profits.
16	A.	On page 2 of Ex. ENR-42, Dr. Acton states:
17		My principal findings are these:
18 19		1. The FERC Show Cause Order identified eight practices for investigation and potential disgorgement. Using the standard that
20 21		FERC cited, I find that six of the eight "gaming" practices do not meet the articulated standard of harm to market efficiency and to consumers
21		in California markets.

¹ Dr. Acton's direct testimony in Docket EL03-180 is numbered as Exhibit ENR-1. Dr. Acton's direct testimony in Docket EL03-154 was formerly numbered as Exhibit ENR-1, but Enron later renumbered that testimony as Exhibit ENR-42.

²For ease of reference, I use the term "partnership" in this testimony to collectively describe Enron's business arrangements and alliances.

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1 2 3 4 5 6 7		2. The claim against Enron for these eight practices in the ISO's June 2003 report as updated by the ISO's July data productions where appropriate (prepared in response to a FERC directive), totals less than \$7 million. Of this amount, two practices, Circular Scheduling, and sales-plus-buy-back transactions (which is broader than the Paper Trading FERC ordered for Show Cause) account for more than 90% of the ISO claim.
8 9		3. The claim becomes even smaller once errors in data and/or methodology employed by the ISO have been corrected.
10 11 12		4. Six of the eight "gaming" practices generally improve economic efficiency in the California markets, and they leave consumers either unaffected or with lower prices.
13 14 15		5. These six strategies are consistent with the behavior of a profit maximizing firm in a competitive market and, thus, do not constitute anomalous market behavior.
16 17 18 19 20		6. Thus, there is no evidence of harm to economic efficiency or to consumers that could justify or support imposing the disgorgement remedy with respect to the Enron transactions for six of the eight identified practices. These six practices comprise about 95% of the ISO claim.
21 22 23 24 25 26 27		7. Two of the gaming practices—Cutting Non-Firm (also known as Non-Firm Export) and Scheduling Counterflows on Out-of-Service Lines (also known as Wheelout)—do not improve efficiency nor do they benefit consumers. The ISO estimates that Enron earned a total of \$304,572 from these transactions. When I correct for errors in ISO methods and data, the value subject to the disgorgement is \$279,489 for these two practices.
28 29	Q.	Please summarize Dr. Acton's conclusions in his EL03-180 testimony
30		regarding Enron's partnerships and profits.
31 32	А.	On page 4 of Ex. ENR-1, Dr. Acton states:
33 34		My principal findings are as follows:
35 36 37 38 39		1. With regard to nine of the ten parties, I am not aware of any evidence that Enron had an "alliance" or partnership agreement that gave Enron substantial control or decision-making authority over the assets of its counterparty.
40 41 42 43		2. [
44]

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1		
2 3 4		3. In all ten cases, I am not aware of any evidence that Enron's agreements resulted in the parties' working in concert to engage in Gaming Practices or anomalous behavior.
5		
6 7 8 9		4. Enron's arrangements with some of the parties generally benefited consumers in California markets by increasing the amount of imports sold into the ISO control area, which helped to alleviate upward pressure on market prices.
10 11	Q.	What level of profit has Dr. Acton calculated in EL03-180?
12	A.	Based upon an incomplete analysis, Dr. Acton identified \$2,410,956.29 in
13		revenues received during the time period January 1, 2000 to June 21, 2001. (Ex.
14		ENR-1, p. 39).
15	Q.	Do you agree with Dr. Acton's conclusions?
16	A.	No. Dr. Acton did not perform a rigorous, independent investigation and analysis
17		of Enron's gaming practices, partnerships, or profits. Dr. Acton's approach was
18		to passively rely upon a limited set of partial information provided to him by
19		Enron. As a consequence, he ignored a large volume of evidence. He also
20		adopted extreme positions, devoid of common sense or economic logic. Some of
21		his positions are so exaggerated that they are humorous. For example, Dr.
22		Acton's claim that fraudulent gaming practices increased, rather than decreased,
23		the efficiency of the markets is preposterous.
24	Q.	Do you expect Enron to attempt to file more direct testimony during the
25		rebuttal stage of this proceeding?
26	A.	Yes. In his direct testimony, Dr. Acton stated he and his staff had not reviewed
27		all relevant Enron documents because some documents had been seized by the

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1		Department of Justice and he did not have time to review other documents when
2		he prepared his testimony. (Ex. ENR-1, p. 6). While Dr. Acton claimed he could
3		not access all relevant data at the time he prepared his testimony, in reality,
4		relevant data were readily available in Enron computer databases and files. Enron
5		simply did not produce the data in Enron's show cause responses and Dr. Acton
6		simply did not analyze the data in his testimony. Dr. Acton's direct testimony
7		was limited to, and dependent upon, a very narrow universe of data Enron chose
8		to have analyzed in that testimony. (Exs. ENR-1, p. 5 & ENR-42, pp. 54-55). As
9		a result, Dr. Acton either willingly or unknowingly allowed blinders to be placed
10		on his analysis and he reached flawed conclusions based upon that untrustworthy
		, ,
11		analysis.
11	Q.	analysis. Should Enron be allowed to re-file and expand its direct testimony in the
	Q.	•
12	Q. A.	Should Enron be allowed to re-file and expand its direct testimony in the
12 13	_	Should Enron be allowed to re-file and expand its direct testimony in the guise of rebuttal?
12 13 14	_	Should Enron be allowed to re-file and expand its direct testimony in the guise of rebuttal? No. We know that at the time Dr. Acton's direct testimony was submitted,
12 13 14 15	_	Should Enron be allowed to re-file and expand its direct testimony in the guise of rebuttal? No. We know that at the time Dr. Acton's direct testimony was submitted, Enron's files contained far more evidence on Enron's gaming practices,
12 13 14 15 16	_	Should Enron be allowed to re-file and expand its direct testimony in the guise of rebuttal? No. We know that at the time Dr. Acton's direct testimony was submitted, Enron's files contained far more evidence on Enron's gaming practices, partnerships and profits than Dr. Acton revealed in his testimony. If Enron truly
12 13 14 15 16 17	_	Should Enron be allowed to re-file and expand its direct testimony in the guise of rebuttal? No. We know that at the time Dr. Acton's direct testimony was submitted, Enron's files contained far more evidence on Enron's gaming practices, partnerships and profits than Dr. Acton revealed in his testimony. If Enron truly needed more time to comply fully with the Commission's show cause orders or to
12 13 14 15 16 17 18	_	Should Enron be allowed to re-file and expand its direct testimony in the guise of rebuttal? No. We know that at the time Dr. Acton's direct testimony was submitted, Enron's files contained far more evidence on Enron's gaming practices, partnerships and profits than Dr. Acton revealed in his testimony. If Enron truly needed more time to comply fully with the Commission's show cause orders or to submit its direct testimony, then Enron should have sought permission from

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1	Q.	Should Enron and Dr. Acton have known that the principle gaming scheme
2		documents – the Inc Sheets – and the principle partnership documents – the
3		Service Sheets – were on Enron's computer systems and had already been
4		identified as critical documents by Enron's lawyers?
5	A.	Yes. Either Dr. Acton was not informed that the critical documents had been
6		identified two years before (Ex. SNO-899) or he failed to conduct a diligent
7		investigation.
8	Q.	Was Dr. Acton a stranger to Enron, its lawyers, and issues in California and
9		the West?
10	A.	No. Dr. Acton was active on Enron's behalf as early as February of 2001 (Ex.
11		SNO-823), when Enron's market manipulation schemes had been operating full-
12		tilt.
13	Q.	What type of work was Dr. Acton doing for Enron as early as February of
14		2001?
15	А.	Dr. Acton was clearly part of a litigation team that was put together to defend
16		Enron's behavior in the Western power markets. The materials submitted as part
17		of Ex. SNO-823 indicate Dr. Acton was involved in various meetings and
18		document retrieval processes for Enron related to litigation involving Enron's
19		trading operations in "California and the West." In an April 17, 2001 letter
20		(included as part of Ex. SNO-823) from Dr. Acton to Gary Fergus, an attorney for
21		Enron, Dr. Acton outlined his activities for Enron during the month of March
22		2001:

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1 3 4 5 6 7 8 9 10 11 12 13 14 15	·	During this period, our principal activities have been to prepare for and meet with you and other attorneys and to acquire and review information that is relevant to the litigation. Specifically, Bob Spann and I met with you and other attorneys in your office in San Francisco on March 15. We joined one of the attorneys from your office for a conference on the California energy situation sponsored by the University of California Energy Institute on March 16. We also completed your request to download and archive materials from the web sites of the Cal-PX and Cal-IS0 to assure that these materials would be available for future use. We performed some initial screens on data sets that may be used at some point in the matter. Throughout this period, we also continued to identify and acquire copies of public documents that bear on the matter. At this point, we have identified more than 25 public data sets and more than 150 studies that may be used by various parties in the matter.
16		(Ex. SNO-823).
17		The materials submitted as part of Ex. SNO-823 also indicate that additional work
18		had been performed on behalf of Enron during earlier months in 2001. (Ex. SNO-
19		823, p. 4).
20	Q.	Is there other evidence in Dr. Acton's testimony indicating that he had
20 21	Q.	Is there other evidence in Dr. Acton's testimony indicating that he had detailed access to Enron's accounting and trading materials?
	Q. A.	
21	-	detailed access to Enron's accounting and trading materials?
21 22 23 24 25 26 27 28 29 30 31	-	detailed access to Enron's accounting and trading materials? Yes. On page 44 of Ex. ENR-1, Dr. Acton states: This information is part of the ISO's dataset in the field called INTERCHG_ID, though the data are encoded. Transactions by ECT desk have INTERCHG IDs that begin with "11", "19", "20", or "22". The transactions that Enron scheduled on behalf of customers in Enron's role as SC include INTERCHG IDs that begin with "02" (Glendale), "04" (Seattle City Light), "05" (Plains Generation & Transmission Capacity), "06" (Colorado River Commission), "07" (El Paso Electric), "09" (Valley Electric Association), "16" (EWEB), or
21 22 23 24 25 26 27 28 29 30 31 32	-	detailed access to Enron's accounting and trading materials? Yes. On page 44 of Ex. ENR-1, Dr. Acton states: This information is part of the ISO's dataset in the field called INTERCHG_ID, though the data are encoded. Transactions by ECT desk have INTERCHG_IDs that begin with "11", "19", "20", or "22". The transactions that Enron scheduled on behalf of customers in Enron's role as SC include INTERCHG_IDs that begin with "02" (Glendale), "04" (Seattle City Light), "05" (Plains Generation & Transmission Capacity), "06" (Colorado River Commission), "07" (El Paso Electric), "09" (Valley Electric Association), "16" (EWEB), or "25" (Saguaro).

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1		to Linon	s transactional data, Dr. Acton somehow failed to locate or notice,	IOF
2		example,	Inc Sheets, Enpower comment fields, and CAPS to Enpower	
3		Reconcili	ation sheets, all of which explicitly refer to Enron schemes by nam	e and
4		provide a	starting point for calculating Enron's unjust profits.	
5	Q.	What do	you conclude from all of these facts about the availability of da	ta in
6		Enron's	files and Dr. Acton's long-standing relationship with Enron?	
7	A.	Dr. Actor	n could have and should have performed a more rigorous investigat	ion
8		and analy	rsis of Enron's gaming practices, partnerships and profits at the time	e
9		Enron sul	bmitted its direct testimony in this proceeding.	
10	Q.	How is y	our rebuttal testimony organized?	
11	А.	My rebut	tal testimony contains five sections:	
12			iction	
13		Enron's	s Gaming Practices	9
14		1.	False Import (also known as Ricochet or Megawatt Laundering)	
15		2.	Cutting Non-Firm (also known as Non-Firm Export)	
16		3.	Circular Scheduling (also known as Death Star)	
17		4.	Scheduling Counterflows on Out-of-Service Lines (also known a	
18			Wheel Out)	
19		5.	Load Shift	
20		6.	Paper Trading (also known as Get Shorty)	46
21		7.	Double Selling	
22		8.	Selling Non-Firm as Firm	
23		Partner	rships (EL03-180)	
24		9.	Glendale	
25		10.	Redding	
26		11.	Colorado River Commission	
27		12.	Modesto	
28		13.	Northern California Power Agency	75
29		14.	Las Vegas Cogeneration	
			Valley Electric Authority	
30		15.		00
30 31		15. 16.	Public Service Company of New Mexico	

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1 2 3 4		Profits Estimates
5	1	Enron's Gaming Practices
6 7	Q.	Did each of the gaming practices discussed in Dr. Acton's testimony involve
8		fraud, deception or misrepresentation?
9 10	A.	Yes. Dr. Acton discussed the following eight gaming practices in his direct
11		testimony:
12		(1) False Import (also known as Ricochet or Megawatt Laundering);
13		(2) Cutting Non-Firm (also known as Non-Firm Export);
14		(3) Circular Scheduling (also known as Death Star);
15		(4) Scheduling Counterflows on Out-of-Service Lines (also known as Wheel
16		Out);
17		(5) Load Shift;
18		(6) Paper Trading (also known as Get Shorty);
19		(7) Double Selling (also known as Get Shorty); and
20		(8) Selling Non-Firm as Firm.
21		(Ex. ENR-42 at 9)

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1		The Commission has found that each of these gaming practices involved fraud,
2		deception or misrepresentation. (American Electric Power Corp., et al., 103
3		FERC ¶ 61,345, at PP 39, 46, 51, 55 (2003)).
4	Q.	How does Dr. Acton defend Enron's misrepresentations and the fraudulent
5		aspects common to these schemes?
6	A.	Dr. Acton argues that most of Enron's fraudulent schemes were either neutral or
7		actually beneficial to California:
8 9 10 11 12 13 14 15 16		As discussed below in detail, I find that Enron's activities for six of the eight practices did not act to the detriment of efficiency of the California markets during this period. To the contrary, I find that Enron's activities for six of the eight identified practices either did not harm efficiency or, in some cases, led to improved efficiency in the California markets. With regard to the other two practices, although efficiency may not have been affected, ISO rates may have been increased. (Ex. ENR-42, p. 6, lines 13 through 19).
17		More specifically, Dr. Acton contends the following six gaming practices either
18		did not harm or were beneficial to market efficiency or consumers: (1) False
19		Import; (2) Circular Scheduling; (3) Load Shift; (4) Paper Trading; (5) Selling
20		Non-Firm as Firm; and, by implication, (6) Double Selling. But, as Dr. Acton
21		admits elsewhere in his testimony, he never even analyzed the gaming practice of
22		Double Selling and he performed an extremely limited analysis of the gaming
23		practice of Ricochet. (Ex. ENR-42, pp.21 & 65). As Dr. Acton also admits, the
24		two remaining gaming practices – namely Cutting Non-Firm and Scheduling
25		Counterflows on Out-of-Service Lines (also known as Wheel Out) – "do not
26		improve efficiency nor do they benefit consumers." (Ex. ENR-42, p.3).

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1	Q.	How does Dr. Acton square his position with the fraudulent nature of
2		Enron's schemes?
3	A.	Dr. Acton essentially contends that if the consumers are convinced that a product
4		actually exists, economic efficiency is improved. This argument surfaces at
5		different places in his analysis including Selling Non-Firm as Firm and Get
6		Shorty. In his non-firm as firm section, for example, Dr. Acton states:
7 9 10 11 12 13 14 15		Even if non-firm imports were misrepresented as firm and even if this were a per se illegitimate practice, it does not follow that there would be harm to efficiency of the market or to consumers. First, as noted above, these imports increased the supply of energy in California, and thus lowered the cost of energy relative to the next source of supply. Second, the ISO saved money on the cost of operating reserves within its control area. Ultimately, California consumers paid less for the energy as firm imports than they would have paid if it were sold as non-firm imports.
16		(Ex. ENR-42, p. 67, lines 4-11).
17		Electricity is a critical and irreplaceable commodity. Selling Non-Firm as Firm or
18		selling capacity that one does not own is a system problem even if markets can be
19		fooled in the short term.
20	Q.	In your expert opinion, are Dr. Acton's statements supported by standard
21		economic theory?
22	A.	No. Adulteration or counterfeiting is generally held to be a cost to society and not
23		a benefit. Dr. Acton proposes to praise counterfeiters rather than prosecute them.
24	Q.	Why is selling a product that you don't own bad for electric systems, even if
25		you aren't caught?

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1	Α.	A druggist who fraudulently dilutes antibiotics and then sells them is prosecuted
2		as a criminal even if the patient doesn't die. A counterfeiter who passes fake
3		currency is prosecuted even if the average consumer is fooled by his counterfeit
4		currency. Dr. Acton's testimony overlooks the fact that consumers actually
5		depend on electricity to operate their businesses and meet essential human needs.
6		If the product doesn't exist, no amount of innocent faith will protect the
7		consumer. Moreover, supplying inaccurate data to the electric market makes it
8		harder to operate the system safely, effectively, and efficiently.
9	Q.	Did Enron's fraudulent schemes present dangers to system reliability?
10	A.	Yes. For example, firm energy carries with it a promise of delivery. The promise
11		of firm energy is related to system planning and reserve standards and thus affects
12		system reliability. Stated metaphorically, when non-firm energy is represented to
13		be firm energy the electric power system is skating on ice that is thinner than the
14		"skater" expects. Even if the existing WECC standards are conservative, the
15		amount of energy involved is not too great, and all other loads and generation,
16		transmission and distribution components of the system work as planned, the safe
17		skater will at least want to know how thin the ice is so that an informed decision
18		can be made about whether to take a chance and continue, or to take another route
19		across thicker ice. There is simply no doubt that misrepresenting non-firm
20		resources as firm substantially increased the risk of service interruption to electric
21		consumers and that the risk was substantially greater than was expected by the

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1		institutions that guard the reliability of the electric power systems in North
2		America.
3	Q.	How is firm energy related to system reliability?
4	A.	Firm energy is considered in planning as a component of all resources used to
5		assure the reliable operation of the entire system. If firm purchases are not really
6		firm, then the likelihood that an operating emergency will occur is increased
7		above the level expected by engineering planners who rely on the qualities of firm
8		purchases when assessing system reliability. The WECC standards define a Firm
9		Transaction as one that is not interruptible, and also state that the characterization
10		of a transaction should be made available to all control areas involved in the
11		transaction. Standards for the WECC can be found in several documents,
12		including "Western Electricity Coordinating Council Minimum Operating
13		Reliability Criteria," ³ mailbox://C%7C/Documents and
14		Settings/Administrator.MRESEARCH/Application Data/Mozilla/Profiles/Jesse C.
15		McEntee/5272t6jd.slt/Mail/pop.ptld.qwest.net/Inbox?number=2079432459 -
16		<u>_ftn1</u> and the "Western Electricity Coordinating Council NERC/WECC Planning
17		Standards." ⁴ mailbox://C%7C/Documents and
18		Settings/Administrator.MRESEARCH/Application Data/Mozilla/Profiles/Jesse C.

³ <u>http://www.wecc.biz/documents/library/procedures/operating/WECC_Reliability_Criteria_MORC_12-03-04.pdf</u> (Ex. SNO-886)

⁴ <u>http://www.wecc.biz/documents/library/procedures/planning/WECC-NERC_Planning%20Standards_4-</u> <u>10-03.pdf</u> (Ex. SNO-888)

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1		McEntee/5272t6jd.slt/Mail/pop.ptld.qwest.net/Inbox?number=2079432459 -
2		<u>_ftn2</u>
3	Q.	Should FERC accept the position that false representations about the nature
4		of electric products should be excused?
5	A.	No. Reliability standards are sacrosanct. If market participants provide false
6		information to system operators, the system will not operate safely or reliably.
7		With respect to the scheme Selling Non-Firm as Firm, FERC Staff's Final March
8		3, 2003 Report on Price Manipulation in Western Markets in Docket No. PA02-2-
9		000 concludes:
10 11 12 13 14 15 16 17		This trading strategy also compromises reliability because non-firm energy improperly represented to be firm energy is not backed up with reserve generation by the supplying party. This problem is made worse when non-firm energy is imported into another control area. The receiving control area will not procure reserves for the import under the illusion that the supplying party is responsible for providing adequate generation reserves. (Final Staff Report at VI-34).
18	Q.	Is Dr. Acton's direct testimony on behalf of Enron in this case consistent with
19		the Commission's prior rulings?
20	A.	No. The Commission has already determined that the eight trading practices
21		discussed in Dr. Acton's direct testimony constitute gaming or anomalous market
22		behavior that violates the ISO and PX tariffs (American Electric Power Service
23		Corp., et al., 103 FERC ¶ 61,345, at PP 35, 17, 18, 25, 48, 55 (2003)). Contrary
24		to the conclusions already reached by the Commission, Dr. Acton argues that at
25		least six of the eight trading practices do not constitute gaming or anomalous

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1		market behavior that violates the ISO and PX tariffs because, in Dr. Acton's
2		opinion, these trading practices did not pose a detriment to market efficiency or
3		consumers and did not depart significantly from the normal behavior of firms in
4		competitive markets nor lead to unusual or unexpected outcomes. (Ex. ENR-42,
5		pp.2-3). Rather than requesting rehearing of the Commission's conclusion that
6		these trading practices constitute gaming or anomalous market behavior that
7		violates the PX and ISO tariffs, Enron launched a collateral attack on the
8		Commission's prior rulings in Dr. Acton's direct testimony. Dr. Acton's direct
9		testimony also conflicts with findings already made by the Commission in the
10		Enron show cause proceeding in Docket EL03-77, wherein FERC revoked
11		Enron's market-based rate authority beginning on June 25, 2003. For example,
12		Dr. Acton purports that there was no "adverse impact" on rates as a consequence
13		of Enron's involvement in six of the eight gaming practices. (Ex. ENR-42, p. 7).
14		However, the Commission has already ruled that Enron's acts of market
15		manipulation, including the gaming schemes discussed in Dr. Acton's testimony,
16		"resulted in unjust and unreasonable rates." (Enron Power Marketing, Inc., et al.,
17		103 FERC ¶ 61,343, at P 56 (2003), rehearing denied, 106 FERC ¶ 61,024, at P
18		30 (2004)). As the Commission recognized, "[r]ates that permit exploitation,
19		abuse, overreaching or gouging are by themselves not 'just and reasonable." (106
20		FERC ¶ 61,024, at P 29 (citations omitted) (emphasis in original)).
21	Q.	Are Dr. Acton's arguments on behalf of Enron in this case consistent with
22		Enron's own documents and trader tapes?

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1	Α.	No. Enron's own attorneys concluded previously that trading practices, such as
2		Non-Firm Export, Load Shift, Get Shorty, Ricochet, and Selling Non-Firm as
3		Firm, violated the ISO tariff provisions prohibiting gaming and anomalous market
4		behavior. (Ex. SNO-64 at pp. 4-7). Moreover, Enron's own documents and
5		trader tapes acknowledge that Enron was causing detriments to market efficiency
6		and consumers. For example, in a conversation that took place on November 30,
7		2000, Enron traders not only acknowledged detriments to consumers, but
8		displayed a shockingly, callous disregard for their welfare:
		 KEVIN: So the rumor's true? They're fuckin' takin' all the money back from you guys? All those money you guys stole from those poor grandmothers in California? BOB: Yeah, grandma Millie, man. But she's the one who couldn't figure out how to fuckin' vote on the butterfly ballot. KEVIN: Yeah, now she wants her fuckin' money back for all the power you've charged right up – jammed right up her ass for fuckin' 250 dollars a megawatt hour.
9		21 [laughter]
10		(Ex. SNO-224 at p.1).
11		Enron certainly knows that its schemes to increase the energy prices paid to Enron
12		for purposes of maximizing Enron's own profits were detrimental to market
13		efficiency and consumers because Enron's own documents recognize that higher
14		energy prices led to a recession in the economy of California (and other Western
15		states), resulted in industrial plant shut downs and higher unemployment, reduced
16		consumer spending, eroded the purchasing power, disposable income and
17		personal savings of consumers, and made planning and the ability to forecast

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1		expenses more difficult. (Ex. SNO-908). An example of how Enron knew the
2		effects its schemes had on the market is found in Ex. SNO-233:
3		
4 5 6 7 8		PAUL: Yeah. So, ah, what we need to do is to help in the cause of ah, downfall of California $-n - [chuckles]$ and I $-$ it's not [<i>inaudible</i>], it's economic decision-wise, you guys need to pull your megawatts out of California on a daily basis $-$ STEVE: Yeah.
9		(Ex. SNO-233).
10		
11	Q.	Are the economic theories or positions espoused by Dr. Acton on behalf of
12		Enron in this case consistent with economic theories or positions Dr. Acton
13		has taken previously in other cases or publications?
14	А.	No. As stated above, Dr. Acton has taken the position here that Enron's gaming
15		activity actually improved the efficiency of the markets in California. He makes
16		these claims without defining efficiency in his testimony. In stark contrast, Dr.
17		Acton has, in his role at the Rand Institute, prepared analyses based upon a very
18		precise and more logical economic definition of efficiency. Specifically, in his
19		monograph "The Tradeoff Between Equity and Efficiency in Electric Utility Rate
20		Structures: A Comment on the TVA Approach" (May 1993), Dr. Acton explores
21		public policy options that address the effects of rapidly rising energy prices. As
22		an advocate for efficiency, Dr. Acton defines efficiency: "If the primary objective
23		of social policy is efficiency in energy use, then price should be set equal to
24		marginal cost." (Ex. SNO-912, p. 8). However, in Dr. Acton's testimony, he

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1		never once discusses how Enron's games move prices toward marginal cost. Dr.
2		Acton therefore fails to test his assertion about improved efficiency, and fails to
3		explain how the provision of false information can move prices closer to marginal
4		costs. His conclusion lacks analytic rigor and should be dismissed.
5 6		1. False Import (also known as Ricochet or Megawatt Laundering)
7	Q.	What is Dr. Acton's position on Ricochet?
8	A.	Dr. Acton argues that evading price caps in California might have even benefited
9		consumers because, "California consumers are better off if the energy is returned
10		to California markets or, in this case, not exported on net, since this alternative
11		yields a greater supply of energy to meet California load." (Ex. ENR-42, p. 24).
12		This is a very strange comment. Ricochet was a fictitious scheduling choice made
13		by Enron. While Enron could have sold the power to anyone it chose, it elected
14		to schedule the power to locations outside of the California ISO and then wait
15		until real time for an anticipated emergency. However, even Enron could not
16		have forced the energy to actually leave the state. Overall Northwestern loads ran
17		approximately 1.7% less than forecast during the crisis. (EX. SNO-904, p. 36-P
18		40). If Enron had found a customer who wanted the power it was planning to
19		Ricochet, the customer's existing supply would not have disappeared – it would
20		have simply been on the market. The California customer Enron chose not to
21		serve by their export would have then had a chance to purchase the energy. This
22		standard feature of markets would not have served Enron's purposes, however,

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1	since normal transactions would not have created the illusion of scarcity that
2	Enron was pursuing. Moreover, Enron would have lost the additional OOM
3	revenues it could receive by creating the illusion of scarcity. The following two
4	charts show actual reserves for the Pacific Northwest for 2000 and 2001. As is
5	clear from the actual numbers, the Pacific Northwest was not in dire straits, nor
6	did utilities in the Northwest declare capacity emergencies:
7	

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PEAK DEMA	ND - MW	JAN	<u>FEB</u>	MAR	APR	MAY	JUN	
Loads -	Firm	54236	51617	49395	46915	46071	47939	
	Interruptible & Load Mgt	<u>768</u>	815	826	<u> </u>		877	
	Total	55004	52432	50221	47697	46842	48816	
•	Forecast Deviation - %	-4.5	-3.6	-2.8	-3.3	-3.4	2.2	
Generation -		45048	44693	45174	45147	45588	46152	
	Thermal	25067	25060	25497	25419	25502	25667	
	Other	1054	1054	<u>1054</u>	<u> 1028</u>	1028	1042	
	Total	71169	70807	71725	71594	72118	72861	
	lable Generation *	3779	4211	4912	8655	6116	7258	
Net Firm Tra	nsfers - MAPP **	-115	-173	-126	-133	4	- 94	
	RMPA **	-177	-365	-175	4	-764	-1231	
	AZ-NM-SNV **	-636	-338	-228	-191	20	-27	
	CA-MX	<u>4070</u>	<u>3116</u>	<u>3917</u>	<u>4655</u>	<u>3578</u>	<u>4621</u>	
	Total Net Firm Transfers	3142	2240	3388	4335	2838	3269	
Net Generati	ion & Firm Transfers	64248	64356	63425	58604	63164	62334	
	Firm Loads - MW	10012	12739	14030	11689	17093	14395	
Margin Over	Firm Loads - Percent	18.5	24.7	28.4	24.9	37.1	30.0	
<u>ENERGY - (</u>	<u>GWH</u>							
Total Load		33150	29597	30289	27420	28439	28284	
	Forecast Deviation - %	-2.1	-1.4	-1.8	-2.9	0.2	1.5	
PEAK DEMA	ND - MW	JUL	AUG	<u>SEP</u>	OCT	NOV	DEC	
<u>PEAK DEMA</u> Loads -	<u>ND – MW</u> Firm	<u>JUL</u> 49494	<u>AUG</u> 48533	<u>SEP</u> 45452	<u>OCT</u> 46718	<u>NOV</u> 52630	<u>DEC</u> 55160	
-								
-	Firm	49494	48533	45452	46718	52630	55160	
-	Firm Interruptible & Load Mgt	49494 902	48533 856	45452 961	46718 1047	52630 1066	55160 1022	
-	Firm Interruptible & Load Mgt Total Forecast Deviation - %	49494 902 50396	48533 <u>856</u> 49389	45452 <u>961</u> 46413	46718 <u>1047</u> 47765	52630 <u>1066</u> 53696	55160 <u>1022</u> 56182	
Loads -	Firm Interruptible & Load Mgt Total Forecast Deviation - %	49494 902 50396 2.5	48533 <u>856</u> 49389 1.6	45452 <u>961</u> 46413 -1.3	46718 <u>1047</u> 47765 -5.4	52630 <u>1066</u> 53696 0.1	55160 <u>1022</u> 56182 -4.8	
Loads -	Firm Interruptible & Load Mgt Total Forecast Deviation - % Hydro	49494 902 50396 2.5 46068	48533 <u>856</u> 49389 1.6 45888	45452 <u>961</u> 46413 -1.3 46127	46718 <u>1047</u> 47765 -5.4 46095	52630 <u>1066</u> 53696 0.1 45451	55160 <u>1022</u> 56182 -4.8 45124	
Loads -	Firm Interruptible & Load Mgt Total Forecast Deviation - % Hydro Thermal	49494 902 50396 2.5 46068 25662	48533 <u>856</u> 49389 1.6 45888 25660	45452 <u>961</u> 46413 -1.3 46127 25745	46718 <u>1047</u> 47765 -5.4 46095 25859	52630 <u>1066</u> 53696 0.1 45451 25874	55160 <u>1022</u> 56182 -4.8 45124 25997	
Loads - Generation -	Firm Interruptible & Load Mgt Total Forecast Deviation - % Hydro Thermal Other	49494 902 50396 2.5 46068 25662 1043	48533 <u>856</u> 49389 1.6 45888 25660 <u>1043</u>	45452 <u>961</u> 46413 -1.3 46127 25745 <u>1043</u>	46718 <u>1047</u> 47765 -5.4 46095 25859 <u>1085</u>	52630 <u>1066</u> 53696 0.1 45451 25874 <u>1085</u>	55160 <u>1022</u> 56182 -4.8 45124 25997 <u>1085</u>	
Loads - Generation - Total Unavai	Firm Interruptible & Load Mgt Total Forecast Deviation - % Hydro Thermal Other Total	49494 902 50396 2.5 46068 25662 1043 72773	48533 <u>856</u> 49389 1.6 45888 25660 <u>1043</u> 72591	45452 <u>961</u> 46413 -1.3 46127 25745 <u>1043</u> 72915	46718 <u>1047</u> 47765 -5.4 46095 25859 <u>1085</u> 73039	52630 <u>1066</u> 53696 0.1 45451 25874 <u>1085</u> 72410	55160 <u>1022</u> 56182 -4.8 45124 25997 <u>1085</u> 72206	
Loads - Generation - Total Unavai	Firm Interruptible & Load Mgt Total Forecast Deviation - % Hydro Thermal Other Total Jable Generation *	49494 902 50396 2.5 46068 25662 1043 72773 6469	48533 856 49389 1.6 45888 25660 1043 72591 9243	45452 <u>961</u> 46413 -1.3 46127 25745 <u>1043</u> 72915 9789	46718 1047 47765 -5.4 46095 25859 1085 73039 10321	52630 <u>1066</u> 53696 0.1 45451 25874 <u>1085</u> 72410 8316	55160 <u>1022</u> 56182 -4.8 45124 25997 <u>1085</u> 72206 5810	
Loads - Generation - Total Unavai	Firm Interruptible & Load Mgt Total Forecast Deviation - % Hydro Thermal Other Total lable Generation * Insfers - MAPP ** RMPA ** AZ-NM-SNV **	49494 902 50396 2.5 46068 25662 1043 72773 6469 -193 -479 -89	48533 856 49389 1.6 45888 25660 1043 72591 9243 -193	45452 <u>961</u> 46413 -1.3 46127 25745 <u>1043</u> 72915 9789 -282 -695 -541	46718 1047 47765 -5.4 46095 25859 1085 73039 10321 -320	52630 <u>1066</u> 53696 0.1 45451 25874 <u>1085</u> 72410 8316 -315 -731 -854	55160 <u>1022</u> 56182 -4.8 45124 25997 <u>1085</u> 72206 5810 -325	
Loads - Generation - Total Unavai	Firm Interruptible & Load Mgt Total Forecast Deviation - % Hydro Thermal Other Total lable Generation * insfers - MAPP ** RMPA **	49494 902 50396 2.5 46068 25662 1043 72773 6469 -193 -479	48533 <u>856</u> 49389 1.6 45888 25660 <u>1043</u> 72591 9243 -193 -479	45452 <u>961</u> 46413 -1.3 46127 25745 <u>1043</u> 72915 9789 -282 -695	46718 1047 47765 -5.4 46095 25859 1085 73039 10321 -320 -716	52630 <u>1066</u> 53696 0.1 45451 25874 <u>1085</u> 72410 8316 -315 -731	55160 <u>1022</u> 56182 -4.8 45124 25997 <u>1085</u> 72206 5810 -325 -769	
Loads - Generation - Total Unavai	Firm Interruptible & Load Mgt Total Forecast Deviation - % Hydro Thermal Other Total lable Generation * Insfers - MAPP ** RMPA ** AZ-NM-SNV **	49494 902 50396 2.5 46068 25662 1043 72773 6469 -193 -479 -89	48533 <u>856</u> 49389 1.6 45888 25660 <u>1043</u> 72591 9243 -193 -479 -89	45452 <u>961</u> 46413 -1.3 46127 25745 <u>1043</u> 72915 9789 -282 -695 -541	46718 1047 47765 -5.4 46095 25859 1085 73039 10321 -320 -716 -611	52630 <u>1066</u> 53696 0.1 45451 25874 <u>1085</u> 72410 8316 -315 -731 -854	55160 <u>1022</u> 56182 -4.8 45124 25997 <u>1085</u> 72206 5810 -325 -769 -673	
Loads - Generation - Total Unavai Net Firm Tra	Firm Interruptible & Load Mgt Total Forecast Deviation - % Hydro Thermal Other Total lable Generation * insfers - MAPP ** RMPA ** AZ-NM-SNV ** CA-MX**	49494 902 50396 2.5 46068 25662 1043 72773 6469 -193 -479 -89 4562	48533 856 49389 1.6 45888 25660 1043 72591 9243 -193 -479 -89 4582	45452 961 46413 -1.3 46127 25745 1043 72915 9789 -282 -695 -541 5278	46718 1047 47765 -5.4 46095 25859 1085 73039 10321 -320 -716 -611 2461	52630 1066 53696 0.1 45451 25874 1085 72410 8316 -315 -731 -854 794	55160 1022 56182 -4.8 45124 25997 1085 72206 5810 -325 -769 -673 -1504	
Loads - Generation - Totał Unavai Net Firm Tra Net Generati Margin Over	Firm Interruptible & Load Mgt Total Forecast Deviation - % Hydro Thermal Other Total lable Generation * Insfers - MAPP ** RMPA ** AZ-NM-SNV ** CA-MX** Total Net Firm Transfers Firm Loads - MW	49494 902 50396 2.5 46068 25662 1043 72773 6469 -193 -479 -89 <u>4562</u> 3821 62483 12989	48533 <u>856</u> 49389 1.6 45888 25660 <u>1043</u> 72591 9243 -193 -479 -89 <u>4582</u> 3821 59527 10994	45452 <u>961</u> 46413 -1.3 46127 25745 <u>1043</u> 72915 9789 -282 -695 -541 <u>5278</u> 3760 59366 13914	46718 <u>1047</u> 47765 -5.4 46095 25859 <u>1085</u> 73039 10321 -320 -716 -611 <u>2461</u> 814 61904 15186	52630 <u>1066</u> 53696 0.1 45451 25874 <u>1085</u> 72410 8316 -315 -731 -854 <u>794</u> -1106 65200 12570	55160 <u>1022</u> 56182 -4.8 45124 25997 <u>1085</u> 72206 5810 -325 -769 -673 <u>-1504</u> -3271 69667 14507	
Loads - Generation - Totał Unavai Net Firm Tra Net Generati Margin Over	Firm Interruptible & Load Mgt Total Forecast Deviation - % Hydro Thermal Other Total Hable Generation * Insfers - MAPP ** RMPA ** AZ-NM-SNV ** CA-MX** Total Net Firm Transfers	49494 902 50396 2.5 46068 25662 1043 72773 6469 -193 -479 -89 <u>4562</u> 3821 62483	48533 <u>856</u> 49389 1.6 45888 25660 <u>1043</u> 72591 9243 -193 -479 -89 <u>4582</u> 3821 59527	45452 <u>961</u> 46413 -1.3 46127 25745 1043 72915 9789 -282 -695 -541 <u>5278</u> 3760 59366	46718 1047 47765 -5.4 46095 25859 1085 73039 10321 -320 -716 -611 2461 814 61904	52630 1066 53696 0.1 45451 25874 1085 72410 8316 -315 -731 -854 794 -1106 65200	55160 <u>1022</u> 56182 -4.8 45124 25997 <u>1085</u> 72206 5810 -325 -769 -673 <u>-1504</u> -3271 69667	
Loads - Generation - Totał Unavai Net Firm Tra Net Generati Margin Over	Firm Interruptible & Load Mgt Total Forecast Deviation - % Hydro Thermal Other Total Table Generation * Insfers - MAPP ** RMPA ** AZ-NM-SNV ** CA-MX** Total Net Firm Transfers Firm Loads - MW Firm Loads - Percent	49494 902 50396 2.5 46068 25662 1043 72773 6469 -193 -479 -89 <u>4562</u> 3821 62483 12989	48533 <u>856</u> 49389 1.6 45888 25660 <u>1043</u> 72591 9243 -193 -479 -89 <u>4582</u> 3821 59527 10994	45452 <u>961</u> 46413 -1.3 46127 25745 <u>1043</u> 72915 9789 -282 -695 -541 <u>5278</u> 3760 59366 13914	46718 <u>1047</u> 47765 -5.4 46095 25859 <u>1085</u> 73039 10321 -320 -716 -611 <u>2461</u> 814 61904 15186	52630 <u>1066</u> 53696 0.1 45451 25874 <u>1085</u> 72410 8316 -315 -731 -854 <u>794</u> -1106 65200 12570	55160 <u>1022</u> 56182 -4.8 45124 25997 <u>1085</u> 72206 5810 -325 -769 -673 <u>-1504</u> -3271 69667 14507	TOTAL
Loads - Generation - Total Unavai Net Firm Tra Net Generati Margin Over	Firm Interruptible & Load Mgt Total Forecast Deviation - % Hydro Thermal Other Total Table Generation * Insfers - MAPP ** RMPA ** AZ-NM-SNV ** CA-MX** Total Net Firm Transfers Firm Loads - MW Firm Loads - Percent	49494 902 50396 2.5 46068 25662 1043 72773 6469 -193 -479 -89 <u>4562</u> 3821 62483 12989	48533 <u>856</u> 49389 1.6 45888 25660 <u>1043</u> 72591 9243 -193 -479 -89 <u>4582</u> 3821 59527 10994	45452 <u>961</u> 46413 -1.3 46127 25745 <u>1043</u> 72915 9789 -282 -695 -541 <u>5278</u> 3760 59366 13914	46718 <u>1047</u> 47765 -5.4 46095 25859 <u>1085</u> 73039 10321 -320 -716 -611 <u>2461</u> 814 61904 15186	52630 <u>1066</u> 53696 0.1 45451 25874 <u>1085</u> 72410 8316 -315 -731 -854 <u>794</u> -1106 65200 12570	55160 <u>1022</u> 56182 -4.8 45124 25997 <u>1085</u> 72206 5810 -325 -769 -673 <u>-1504</u> -3271 69667 14507	<u>TOTAL</u> 354596

Table 15 - Northwest Power Pool Area Actual Loads and Resources for 2000

Includes Maintenance, Forced Outages, and Inoperable Capability.
 Minus (-) indicates transfer into NWPP.

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Т	able 15 - Northwest Po	wer Pool	Area Actu	ual Loads	and Res	ources fo	or 2001	
PEAK DEMA	ND – MW	JAN	<u>FEB</u>	MAR	APR	MAY	JUN	
Loads -	Firm Interruptible & Load Mgt	52349 245	51882 <u>335</u>	47518 	44981 <u>300</u>	44062 272	43683 	
	Total	52594	52217	47815	45281	44334	43977	
	Forecast Deviation - %	-8.1	-2.1	-5.0	-6.4	-3.3	-9.2	
Generation -	Thermal Other	42576 25791 <u>1008</u>	42077 25809 <u>1007</u>	42091 25796 <u>1014</u>	41910 25668 <u>1025</u>	42663 25898 <u>1026</u>	42945 26371 1034	
.	Total	69375	68893	68901	68603	69587	70350	
	able Generation *	3790	4882	6253	8519	10446	8155	
Net Firm Tra	nsfers - MAPP ** RMPA ** AZ-NM-SNV ** CA-MX ** Total Net Firm Transfers	-85 -976 -799 <u>340</u> -1520	15 -1072 -803 <u>-1020</u> -2880	-36 -911 -844 <u>-368</u> -2159	-35 -876 -901 <u>-162</u> -1974	-106 -1011 -294 <u>1757</u> 346	-138 -755 -73 <u>4674</u> 3708	
Net Generati	on & Firm Transfers	67105	66891	64807	62058	58795	58487	
	Firm Loads - MW Firm Loads - Percent	14756 28.2	15009 28.9	17289 36.4	17077 38.0	14733 33.4	14804 33.9	
<u>ENERGY - O</u>	<u>SWH</u>							
Total Load		31328	27832	27927	25689	261 0 0	25234	
	Forecast Deviation - %	-7.6	-4.8	-8.6	-8.9	-7.2	-9.3	
<u>PEAK DEMA</u> Loads -	<u>ND – MW</u> Firm Interruptible & Load Mgt	<u>JUL</u> 43952 253	<u>AUG</u> 44444 245	<u>SEP</u> 42053 	<u>OCT</u> 44770 194	<u>NOV</u> 49620 231	DEC 50908 214	
	Total	44205	44689	42304	44964	49851	51122	
	Forecast Deviation - %	-10.2	-7.1	-9,5	-9.5	-6.4	-12.1	
Generation -	Hydro Thermal Other Total	41223 26713 <u>1028</u> 68964	40868 26747 <u>1038</u> 68653	40651 26956 <u>1083</u> 68690	40529 27279 <u>1091</u> 68899	40413 27586 <u>1092</u> 69091	42626 27932 <u>1256</u> 71814	
Total Unavai	able Generation *	7371	7583	9867	10757	9525	8187	
Net Firm Tra	nsfers - MAPP ** RMPA ** AZ-NM-SNV ** CA-MX Total Not Firm Transform	-59 -519 -53 <u>4919</u> 4288	-83 -192 -177 <u>2592</u> 2140	41 -321 466 <u>2996</u> 3182	-36 -556 -323 <u>1413</u> 498	-129 -421 -771 <u>2375</u> 1054	90 -412 -462 <u>3052</u> 2268	
N-10 -	Total Net Firm Transfers							
	on & Firm Transfers	57305	58930	55641	57644	58512	61359	
Margin Over	Firm Loads - MW Firm Loads - Percent	13353 30.4	14486 32.6	13588 32.3	12874 28.8	889 2 17.9	10451 20.5	
ENERGY - C	<u> 744 L</u>							
Total Load	Forecast Deviation - %	26006 -13.0	26379 -13.4	24101 -14.2	26305 -11.6	27039 -12.7	30158 -12.5	5
	COLOCADE DE MALION - N	-,0.0		• 7.4				

Includes Maintenance, Forced Outages, and Inoperable Capability. Minus (-) indicates transfer into NWPP.

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1		(Exs. SNO-903 & 904).
2	Q.	In your opinion, did the gaming practice of Ricochet pose detriments to
3		efficiency or consumers?
4	A.	Of course it was detrimental. For example, on the first day of the crisis, Enron
5		exported power apparently purchased from the California ISO to the Pacific
6		Northwest and then resold this same power back to the California ISO. (Ex. SNO-
7		875). There clearly was no legitimate economic logic to this fictitious transaction.
8		The purpose was to create the illusion of a shortage of capacity in California,
9		evade the California price caps, and increase prices paid to Enron. Once the
10		California ISO declared an emergency, the ISO had to pay \$750/MWh to
11		"import" this energy back into the State. This practice was detrimental to
12		consumers in a number of ways. It:
13		1. Created an illusory shortage;
14		2. Forced the California ISO into inefficient real time operations;
15		3. Degraded system reliability;
16		4. Moved purchases closer to real time when demand was less elastic;
17		5. Caused the ISO to pay artificially elevated prices; and
18		6. Caused the ISO's buying behavior, in turn, to affect prices throughout the
19		West.
20	Q.	How was the illusion of shortage created?

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1	A.	The first step of the Ricochet, exporting power from California, created the
2		illusion of shortage in California. Enron was taking prescheduled power and
3		waiting until the last moment to sell it in the real time market.
4	Q.	Is creating the illusion of shortage generally-accepted, competitive market
5		behavior?
6	A.	No. In a competitive market, providers would not be able to profitably withhold
7		supply. In order to create the illusion of shortage a provider would either have to
8		exercise market power or collude with others.
9	Q.	Do you believe that Ricochet caused the ISO to operate less efficiently?
10	A.	Yes. I agree with California Parties witness Mr. Read's analysis that:
11 12 13 14 15 16 17 18 19 20 21 22		First, since the price elasticity of demand in the Real Time market is close to zero, the transfer of resources from DA and HA markets to the RT market facilitated the exercise of market power by sellers. Second, supply reductions in the DA and HA markets may have induced the ISO to make additional reserve purchases and thus incur additional costs. Third, the withdrawal of capacity from the DA and HA markets could distort the ISO's picture of resource balances causing it to increase OOM imports at costs that exceed market clearing prices. Fourth, DA and HA supply reductions associated with false import create "a sense of shortage" within the ISO and increase operational challenges for the ISO. (Ex. CP-35, p. 17).
23	Q.	Has the ISO found that Ricochet was detrimental to system reliability and
24		consumers?
25	A.	Yes. Terry Winter, President and Chief Executive Officer of the CAISO, testified
26		before the United States Senate Committee on Energy and Natural Resources on
27		May 15, 2002 and submitted a chart identifying the various Enron gaming

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1		strategies describing, among other things, the strategies' impacts on the market.
2		Regarding Ricochet, Mr. Winter concluded that such transactions "[e]xacerbated
3		the impact of overall market power on system reliability and costs to consumers."
4		(Ex. SNO-18).
5	Q.	Why is the fact that Enron pushed the sale of power closer to real time
6		important?
7	A.	The technical reason was explained by Dr. Acton in response to a Snohomish data
8		request in this proceeding:
9 10 11		Generally, demand elasticity is lower at shorter time horizons, since buyers have fewer alternative ways to meet their needs as the time of delivery approaches.
12		(Ex. SNO-911).
13		The lower demand elasticity enhanced Enron's ability to exercise market power
14		and squeeze higher prices out of the ISO. The ISO's purchase of power at higher
15		prices then drove prices higher throughout the West.
16	Q.	What level of profits did Dr. Acton acknowledge Enron received in
17		connection with the gaming practice of Ricochet?
18	Α.	None. Based on his limited analysis of data produced by the ISO on July 15,
19		2003, Dr. Acton claims there is no evidence that Enron engaged in Ricochet
20		during the period May 2000 to October 1, 2000. (Ex. ENR-42, pp. 22-23).
21		Therefore, Dr. Acton concludes that Enron did not make any profits from this
22		gaming scheme.
23	Q.	Is Dr. Acton's direct testimony accurate?

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1	А.	No. A transcript of an Enron trader conversation, which occurred on August 10,
2		2000 boasts of personal financial gains from Ricochet of "200 grand" for that one
3		trader alone:
4 5		DIANA: Yeah do you know how much overage, um, John Forney gave me for the ricochet deals and all that stuff?
6		PERSON 1: How much?
7		DIANA: For actually just the ricochet deal he gave me 200 grand.
8		PERSON 1: That's sweet.
9		DIANA: Mm hm.
10 11		PERSON 1: [to someone else] Thank you very much. [back to conversation]Oh, so you gotta be way over a million now.
12		(Ex. SNO-214).
13		Furthermore, these figures fail to reflect the fact that Enron's schemes were
14		cumulative in nature and Enron profited both directly and indirectly from its
15		schemes in the spot and forward markets. They also do not encompass the full
16		time period now at issue in this case. In my opinion, Enron should be prohibited
17		from retaining or obtaining profits under all contracts or transactions executed by
18		Enron in the Western Interconnect during the period January 16, 1997 to June 25,
19		2003.
20	Q.	What evidence have you found confirming that Enron evaded ISO price caps
21		by engaging in Ricochet?
22	A.	Enron's trader tapes contain admissions that Enron was engaged in Ricochet,
23		including during the period May 2000 to October 2000, wherein Dr. Acton claims
24		no Ricochet occurred. (Ex. ENR-42, pp. 22-25). In addition to the August 10 th ,

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1		2000 conversation about Ricochet described above, a conversation held on
2		August 8 th , 2000, acknowledges that Enron was engaging in Ricochet:
3		JESSE: Yeah, 32 megawatts Four Corners. We bought from the PX.
4		PERSON 2: Right. OK, who's – who's the sink?
5		JESSE: The sink is the ISO.
6		PERSON 2: Oh, well say that's a ricochet, at Four Corners?
7 8 9		JESSE: On – yeah, on the schedule, ah – the Smith schedule that $L - that$ Leaf mentioned to you. Just takin'it back in to the ISO to serve load.
10		PERSON 2: OK.
11		(Ex. SNO-167).
12		Enron documents also evidence that Enron engaged in Ricochet. For example,
13		the Inc Sheet for December 8, 2000 shows a Ping Pong transaction in which
14		Enron scheduled 17 MW out of the ISO and then back into the ISO at
15		\$800.00/MW at a time when the ISO price cap was \$750.00/MW. (Ex. SNO-
16		732) In his guilty plea agreement, John Forney, Enron's Real Time Manager,
17		admits "on at least one occasion, Enron improperly sold electricity for a price
18		above the California ISO's price capthis was known within Enron as 'Ricochet'."
19		(Ex. S-75, p. 23). FERC's Final Staff Report on Price Manipulation in Western
20		Markets further finds that the first week of December 2000 was an especially
21		critical period in which several entities engaged in Ricochets that potentially
22		generated \$10 million in profits, Enron being one of them. (Final Staff Report,
23		VI-18).
24	Q.	Can you provide a few other glaring examples of evidence relating the

gaming practice of Ricochet that Dr. Acton overlooked?

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1	А.	Yes. Materials available from Enron's own files include, for example:
2 3 4 5 6 7		• Yoder/Hall memo which describes specific Enron trading strategies that are prohibited by the ISO's tariff, including Ricochet. The memo includes a discussion specifically about Ricochet (Ex. SNO-64) stating, "it is clear that Enron's intent under this strategy is solely to arbitrage the spread between the PX and the ISO, and not to serve load or meet contractual abligations."
7 8 9 10 11 12		 obligations." Enpower database. For example, on May 22, 2000, the deal comment field in Enpower reads: "RT helping out the ENRON FLOOR, taking MW's out of the ISO, selling back to the ISO OUT OF MARKET, this buy resell is to give them \$5 for flipping these MW's back to ISO." (Ex. SNO-721).
13 14 15		• Inc Sheets. For example, the Inc sheet for May 22, 2000 has the comment: "ENRON FLOOR POSITION sold to ISO out of market bounced it off PAC for \$5 (B 80 @ S 75)." (Ex. SNO-732).
16 17 18 19 20		• Sabo Interview in which former Enron trader and member of Enron's Risk Management group Valerie Sabo, specifically discusses Enron's use of Ricochet. Sabo describes Ricochet as occurring when a company schedules in California in such a way so as to make it look like power left California, when in fact, it never leaves the control area. (Ex. SNO-738).
21		2. Cutting Non-Firm (also known as Non-Firm Export)
22	Q.	Does Dr. Acton concede that the scheme known as Cutting Non-Firm neither
23		improves efficiency nor benefits consumers?
24	A.	Yes, he does. (Ex. ENR-42, p.71).
25	Q.	Has Dr. Acton addressed the negative effects that the ISO has identified for
26		Cutting Non-Firm exports?
27	A.	No.
28	Q.	What negative effects on the market has the ISO found with respect to the
29		practice of Cutting Non-Firm have on the market?

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1	А.	The ISO has found that this practice of Cutting Non-Firm "adds to the probability
2		of real time congestion, and may impose detrimental impact system cost and
3		reliability if real time congestion occurs." (Ex. SNO-18, p. 4).
4	Q.	Does Dr. Acton recognize that Enron's profits from this scheme should be
5		disgorged, and if so, what is Acton's estimation of these profits?
6	A.	Yes. Dr. Acton recognizes that \$54,414 should be disgorged as unjust revenues
7		earned from the scheme Cutting Non-Firm as Firm. (Ex. ENR-42, p.70).
8	Q.	Do you believe that this is an accurate figure?
9	А.	Hardly. Dr. Acton ignored Enron documents containing far higher profit figures
10		for this scheme. For example, handwritten notes obtained by Snohomish in
11		response to a subpoena issued to Jean Frizzell of Gibbs & Bruns L.L.P., a law
12		firm working for Enron, indicate that congestion fees earned from Cutting Non-
13		Firm as Firm were at least \$2.6 million. (Ex. SNO-754). The meeting notes of
14		another Enron attorney, named Mary Hain, list \$3 million under the heading Non-
15		Firm Export. (Ex. SNO-79, p. 16). Even these higher figures, however, are
16		unlikely to capture all of Enron's profits. They fail to reflect the fact that Enron's
17		schemes were cumulative in nature and Enron profited both directly and indirectly
18		from its schemes in the spot and forward markets. They also do not encompass
19		the full time period now at issue in this case. In my opinion, Enron should be
20		prohibited from retaining or obtaining profits under all contracts and transactions
21		executed by Enron in the Western Interconnect during the period January 16,
22		1997 to June 25, 2003.

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1	Q.	Can you provide a few other glaring examples of evidence relating to gaming
2		practice of Cutting Non-Firm that Dr. Acton ignored in his testimony?
3	А.	Yes. For example, materials available in Enron's files that were not cited include:
4 5 6		• Original Stephen Hall memo which includes a detailed description of trading strategies Enron traders used, including Non-firm export. (Ex. SNO-62)
7 8 9 10 11		• Yoder/Hall memo which describes trading strategies used by Enron that were prohibited by the ISO's tariff, such as Cutting Non-Firm. The memo includes a discussion specifically about non-firm export and the fact that as a part of this scheme, non firm-energy was cut and as a result never actually exported. (Ex. SNO-64)
12 13 14 15 16 17		• Memo from Sanders to Fergus & Frizzell regarding Status Report on Further Investigation and Analysis of EPMI Trading Strategies. In a discussion of non-firm export, the memo states that after having scheduled counterflows three hours ahead of actual energy flow EPMI then "qualified for the congestion relief payment two hours before the scheduled flow. Ultimately, EPMI did not flow the power."(Ex. SNO-71)
18 19		• Inc Sheets. For example, the May 22, 2000 Inc sheet has the following comment: "non firm export for HE14, 25mw's ISO CUT." (Ex. SNO-732)
20 21 22		• Enpower to CAPS Reconciliations. For example, the printed report for 6/27/2000 has the following handwritten comment: "Mike cut non-firm exports for HE 14,15,16 @ malin. RT balances" (Ex. SNO-736)
23 24 25 26		• 1999 Kim Ward email in which Ward pens, "Our trading strategy is to export as much as we can, non-firm and then cut it hour ahead." This "will give the same effect as parking in California without paying the ancillary services. We want to do this to keep prices up for July." (Ex. SNO-748)
27 28		 Mary Hain's FERC Deposition (Ex. SNO-35, pp.178-179) discusses Non- Firm Export and earnings of "3 million dollars."
29		
30		3. Circular Scheduling (also known as Death Star)
31	Q.	What is Dr. Acton's analysis of the impact of Death Stars?
32	A.	Dr. Acton takes the position argued previously by witnesses for PGE, Mr. Tabors
33		and Ms. Cardell, that deceptive practices were required to fully utilize

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1		transmission owned by utilities outside of the California ISO. (Ex. ENR-42, p.
2		27). He uses an especially evocative phrase – getting out-of-state transmission
3		into the "congestion model calculus" in his attempt to justify this scheme. (Ex.
4		ENR-42, p. 27). In other words, under the theory adopted by Dr. Acton, this
5		deceptive practice was required for transmission access on LADWP's lines.
6	Q.	Was deception necessary to utilize LADWP's transmission?
7	А.	Certainly not. If a market participant wanted to utilize the LADWP transmission,
8		transmission could simply be scheduled with LADWP's scheduling operation.
9		There was no operational reason to submit fraudulent or off-setting schedules
10		designed to produce no actual flow of power. As Dr. Hildebrandt states in his
11		deposition, if there is any excess capacity in the Real Time market the LADWP
12		transmission lines automatically become available for ISO dispatch. (Ex. SNO-
13		901, pp. 73-80).
14	Q.	Why is Death Star a deceptive practice?
15	A.	The Death Star is based upon defrauding the ISO. Since a portion of Death Star
16		transactions occur on transmission capacity beyond the view of the ISO, the ISO
17		did not know that the transactions were circular. Therefore, the ISO believed that
18		congestion had been relieved and paid for the false congestion relief.
19	Q.	Does the filing of fraudulent schedules pose costs to the system?
20	A.	Of course. The non-existent energy flows occupied capacity on lines used to
21		"cap" the Death Stars. In the early Death Stars, a complex set of schedules
22		occupied transmission lines from Grizzly to Portland and then from Portland to

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	the head of the AC intertie. While there were no flows attached to these
	schedules, the owners of the lines did not necessarily know that the schedules
	were imaginary. BPA, for example, was not a party to the deception, so it acted
	as if real energy was going to flow along their portion of the AC intertie.
Q.	In your opinion, did the gaming practice of Circular Scheduling pose
	detriments to efficiency or consumers?
A.	Certainly. If there was some flaw in the "congestion calculus," Enron should
	have brought it to the attention of the ISO, to the utilities outside the ISO, and, if
	necessary FERC, rather than relying on a secretive and fraudulent approach to
	transmission scheduling.
Q.	In your opinion, did the gaming practice of Circular Scheduling jeopardize
	the reliability of the Western interconnected power system?
A.	Yes. The main reason is that it provided a distorted picture of system conditions
	to the system operators. The problem with filing false schedules is that when
	actual operations need to be adjusted on an emergency basis, it is impossible to
	know which schedules are critical to system operation and which are simply
	schemes. Enron's practice of exporting energy on a non-firm basis and then
	importing the same energy back to California on a firm basis made this even more
	dangerous. If a true emergency had struck during a Death Star, California
	operators would naturally assume that cutting the non-firm export would pose no
	risk to the system. What they did not know – and could not know given the
	deception being practiced upon them – was that this non-firm export "supported"
	A. Q.

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1		the firm import that they were using to support the system. This type of fraud
2		could easily have brought down the California system and the entire Western
3		Interconnection.
4	Q.	In your opinion, did the gaming practice of Circular Scheduling depart
5		significantly from normal behavior in competitive markets that do not
6		require continuing regulation or lead to unusual or unexplained outcomes?
7	A.	Absolutely. There is no question that this behavior would be viewed as very
8		unusual in normal competitive markets – so unusual that it is almost impossible to
9		think of a comparable practice. If we heard of freight trains carrying non-existent
10		product from California through Oregon and then back to California, we would
11		check the sanity of both the shippers and the railroad engineers.
12	Q.	Do you agree with Dr. Acton's assertion (Ex. ENR-42, pp. 26-27) that it was
	Q.	Do you agree with Dr. Acton's assertion (Ex. ENR-42, pp. 26-27) that it was necessary to submit circular schedules so the CAISO could "see" available
13	Q.	
13 14	Q. A.	necessary to submit circular schedules so the CAISO could "see" available
13 14 15		necessary to submit circular schedules so the CAISO could "see" available out-of-state generation?
13 14 15 16		necessary to submit circular schedules so the CAISO could "see" available out-of-state generation? Not at all. Deception is not an acceptable business practice. If Enron was
12 13 14 15 16 17 18		necessary to submit circular schedules so the CAISO could "see" available out-of-state generation? Not at all. Deception is not an acceptable business practice. If Enron was concerned that the ISO was not able to schedule transmission owned by Redding,
13 14 15 16 17		necessary to submit circular schedules so the CAISO could "see" available out-of-state generation? Not at all. Deception is not an acceptable business practice. If Enron was concerned that the ISO was not able to schedule transmission owned by Redding, NCPA, and LADWP, the appropriate solution would have been to open
13 14 15 16 17 18		 necessary to submit circular schedules so the CAISO could "see" available out-of-state generation? Not at all. Deception is not an acceptable business practice. If Enron was concerned that the ISO was not able to schedule transmission owned by Redding, NCPA, and LADWP, the appropriate solution would have been to open negotiations between the parties, not undertake a complex set of fraudulent
13 14 15 16 17 18 19		 necessary to submit circular schedules so the CAISO could "see" available out-of-state generation? Not at all. Deception is not an acceptable business practice. If Enron was concerned that the ISO was not able to schedule transmission owned by Redding, NCPA, and LADWP, the appropriate solution would have been to open negotiations between the parties, not undertake a complex set of fraudulent schedules. Economic theory should have created a simple bilateral market for

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1		course, this simple solution need not have been either secret or fraudulent,
2		although the benefits would have gone to the owners of the transmission rights,
3		not Enron.
4	Q.	Do you agree with Dr. Acton's statement that circular schedules helped
5		relieve congestion?
6	A.	No. I agree with California Parties' witness Mr. Hanser's explanation of how
7		Circular schedules increased congestion:
8 9 10 11		Enron's Death Star transactions essentially withheld ETC that could have been used for actual power flows, rather than fictitious, circular flows. In doing so, Enron effectively removed ETC capacity out of the forward market and exacerbated congestion.
12		(Ex. CP-47, p. 46).
13		Enron's false counter-flow schedules displaced legitimate offers from market
14		participants who could have truly relieved congestion. This displacement of
15		legitimate congestion relief offers in the day-ahead market forced the ISO to
16		obtain more congestion relief in the real-time market. (Ex. CP-47, p. 50).
17	Q.	Do you agree with Dr. Acton that Circular Scheduling creates a beneficial
18		economic effect within the ISO control area?
19	A.	No. Circular schedules did not benefit the CAISO system. To the contrary, they
20		made the system more vulnerable to price volatility and they decreased reliability.
21		(Ex. SNO-710 & Ex. SNO-901, pp. 57-68). Dr. Acton's argument is flawed from
22		the beginning. In his testimony he describes a wheel transaction as follows:
23 24		assume that this same SC (or another entity) scheduled a 24 MW transaction from the Pacific Northwest to the Southwest using

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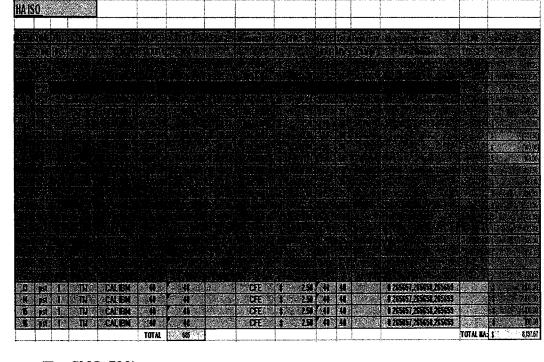
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1 2 3 4 5 6 7 8 9 10 11 12	transmission rights belonging to an entity that had not turned its transmission system over to the CAISO. From the standpoint of the CAISO nothing changes; it still has a 24 MW export from the North to the Pacific Northwest and a 24 MW import from the Southwest into the South. It can still schedule generation to exceed loads in the north by 124 MW and load to exceed generation in the south by 124 MW because it sees a 24 MW counterflow. What it does not see is that someone else's transmission capacity is being used to provide transmission services for 24 MW from north of California to south of California. This transaction would be considered a "Death Star" transaction because it does involve a Circular Schedule. However it has the same beneficial economic effect as a schedule that is not circular. ⁵
13 14 15	Whereas the FERC definition in the Show Cause Order is:
16	
17 18 19 20 21 22 23 24 25 26 27 28 29	The second Congestion-Related practice is Circular Scheduling, also sometimes referred to as "Death Star." The Circular Scheduling practice involved the market participant scheduling a counterflow in order to receive a congestion relief payment. In conjunction with the counterflow, the market participant scheduled a series of transactions that included both energy imports and exports into and out of the ISO control area and a transaction outside the ISO control area in the opposite direction of the counterflow back to the original place of origin. With the same amount of power scheduled back to the point of origin, however, power did not actually flow and congestion was not relieved. Circular Scheduling was profitable as long as the congestion relief payments were greater than the cost of scheduled transmission.
30	(103 FERC ¶ 61,345 at P 43.)
31	According to Dr. Acton, a circular schedule is an industry wide practice of
32	wheeling power. However the FERC definition is significantly different because
33	it mentioned scheduling power in opposite directions with the same amount of
34	power being scheduled back to the point of origin. According to the FERC
35	definition, the trading practice makes no economic sense whatsoever yet

⁵ Ex. ENR-42 at 37:6-18.

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1 Dr. Acton claims that "Circular Scheduling' was 'required' because the ISO did 2 not 'see' transmission capacity that was out the ISO control area." (Ex. ENR-42, 3 p. 27). But if Enron was truly concerned about the use of parallel transmission in 4 California, the efficient (and non-fraudulent) approach would have been to have 5 contacted LADWP and the California ISO and solved the problem directly -6 without subterfuge, imaginary schedules, or disruption of schedules in the Pacific 7 Northwest. The Inc Sheet from November 24, 1999 indicates the often covert 8 nature of congestion relief strategies with the phrase "Don't tell Redding we are 9 relieving congestion." (Ex. SNO-735).



10

11 (Ex. SNO-732).



13 connection with the gaming practice of Circular Scheduling?

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1	Α.	None. Dr. Acton claims that "no disgorgement is warranted or appropriate in
2		connection with this practice." (Ex. ENR-42, p. 40). Dr. Acton's position
3		conflicts, however, with documents contained in Enron's own files. For example,
4		Mary Hain made the note "schemes = \$10m total" for Circular Scheduling. (Ex.
5		SNO-79, p. 15). Even Ms. Hain's profit figure underestimates Enron's financial
6		gains because this figure for a single gaming practice fails to reflect the fact that
7		Enron's schemes were cumulative in nature and Enron profited both directly and
8		indirectly from its schemes in the spot and forward markets. The figure also does
9		not encompass the full time period now at issue in this case. In my opinion,
10		Enron should be prohibited from retaining or obtaining profits under all contracts
11		of transaction executed by Enron in the Western Interconnect during the period
12		January 16, 1997 to June 25, 2003.
12 13	Q.	January 16, 1997 to June 25, 2003. Did Dr. Acton address Enron's practice of exporting non-firm and then re-
	Q.	•
13	Q. A.	Did Dr. Acton address Enron's practice of exporting non-firm and then re-
13 14		Did Dr. Acton address Enron's practice of exporting non-firm and then re- importing it as firm within the Circular Schedule?
13 14 15		Did Dr. Acton address Enron's practice of exporting non-firm and then re- importing it as firm within the Circular Schedule? No. As pointed out in my supplemental testimony (Ex. SNO-710), Forney's
13 14 15 16		Did Dr. Acton address Enron's practice of exporting non-firm and then re- importing it as firm within the Circular Schedule?No. As pointed out in my supplemental testimony (Ex. SNO-710), Forney'sPerpetual Loop also included taking credit for firm imports into the ISO. This
13 14 15 16 17		 Did Dr. Acton address Enron's practice of exporting non-firm and then re- importing it as firm within the Circular Schedule? No. As pointed out in my supplemental testimony (Ex. SNO-710), Forney's Perpetual Loop also included taking credit for firm imports into the ISO. This practice adds to the reliability threat by deceiving the California ISO as to the
13 14 15 16 17 18	A.	Did Dr. Acton address Enron's practice of exporting non-firm and then re- importing it as firm within the Circular Schedule? No. As pointed out in my supplemental testimony (Ex. SNO-710), Forney's Perpetual Loop also included taking credit for firm imports into the ISO. This practice adds to the reliability threat by deceiving the California ISO as to the amount of capacity on their system.
13 14 15 16 17 18 19	A.	 Did Dr. Acton address Enron's practice of exporting non-firm and then re- importing it as firm within the Circular Schedule? No. As pointed out in my supplemental testimony (Ex. SNO-710), Forney's Perpetual Loop also included taking credit for firm imports into the ISO. This practice adds to the reliability threat by deceiving the California ISO as to the amount of capacity on their system. Can you provide a few other glaring examples of evidence relating to the

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1 2 3	• Original Stephen Hall memo which includes a detailed description of trading strategies Enron traders used, including Death Stars. (Ex. SNO-62)
4 5 6 7 8 9 10	• Yoder/Hall memo which describes trading strategies used by Enron that were prohibited by the ISO's tariff, including Death Star. According to the memo, Death Star, "earns money by scheduling transmission in the opposite direction of congestion and then collects the congestion payments. No energy, however, is actually put onto the grid or taken off." The memo then goes into a hypothetical to further elucidate the practice. (Ex. SNO-64)
11 12	• Geir Solberg email to Portland Shift detailing and explaining Death Stars and how to record the transactions in CAPS. (Ex. SNO-72)
13 14 15 16 17	• Enpower database. For example, on May 10, 2000 the following comment appears in the deal comment field: "Death Star buy resell with WWP, we sell to WWP and they sleeve through PGE to give back to us at PGE system." Similar comments by Enron traders identifying Death Star transactions appear in Exs. SNO-721 & SNO-897.
18 19 20 21	• May 5, 2000 email from Mike Driscoll to Portland Shift titled "The final Procedures for Death Star" which contains detailed instructions for the successful implementation of Death Stars in order to capture congestion relief across paths 26, 15 and COB. (Ex. SNO-99)
22 23 24 25 26	• Year end accomplishments of Mike Driscoll for 2000 which explicitly acknowledged Enron's encouragement of ISO tariff manipulation via employment of "Black Widow" and "Big Tuna" strategies amongst others. Both "Black Widow" and "Big Tuna" are members of the Death Star family. (Ex. SNO-113)
27 28	• Hall's notes describing specific discussions of Death Star scheduling based on his review of Enron trader tapes. (Ex. SNO-731)
29 30 31	• Inc Sheets. For example, the May 1, 2000 Inc sheet has the comment: "Tranny for project DEATHSTAR, formally known as "the loop."" (Ex. SNO-732)
32 33 34	• Enpower to CAPS Reconciliation reports. For example, the report for July 18, 2000 contains the following handwritten comment: "'Death Star' trying to capture cong relief'. (Ex. SNO-736)
35 36	 Les Rawson's Black Widow email which directs traders how to enter Black Widow deals into Enpower and CAPS. (Ex. SNO-741)
37 38	• Diagram of Forney's Perpetual Loop, later referred to as Death Star, along with a seven step implementation process. (Ex. SNO-742)

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1 2 3 4		• Steve Coffin Affidavit which highlights the Real Time Traders' discussion of how they applied Death Star and scheduled the electrons to flow in a loop; also includes Forney's directive to refer to Death Star as "Cuddly Bear."(Ex. SNO-744)
5 6		 Stewart Rosman memo regarding "The LOOP"—Death Star's former name. (Ex. SNO-801)
7 8		• Diagram of Cong Catcher, which is a scheme also within the Death Star family. (Ex. SNO-813)
9 10		 Mary Hain's FERC Deposition (Ex. SNO-35, pp.178-179) discusses Death Stars and earnings of "6 million dollars."
11 12		4. Scheduling Counterflows on Out-of-Service Lines (also known as Wheel Out)
13	Q.	Does Dr. Acton concede that the scheme known as Wheel Out neither
14		improves efficiency nor benefits consumers?
15	A.	Yes, he does. (Ex. ENR-42, p. 71)
16	Q.	How would you characterize the fundamental economics of this game?
17	A.	It is fraud. And, any revenues and profits earned are ill-gotten gains.
18	Q.	Does Dr. Acton believe that the revenues earned from this scheme should be
19		disgorged, and if so, what is his estimate of those revenues?
20	A .	Yes. Dr. Acton states that the revenues appropriate for disgorgement total
21		\$225,075. (Ex. ENR-42, p. 68)
22	Q.	Do believe Dr. Acton's estimate is accurate?
23	А.	No. This scheme generated much higher profits for Enron (Ex. SNO-58 at pp. 51-
24		57), as evidenced by Enron's own documents. Mary Hain's notes, for example,
25		list \$12 million for the real time desk under her Wheel Out section (Ex. SNO-79,
26		p.19). Furthermore, even her figure fails to reflect the fact that Enron's schemes

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1		were cumulative in nature and Enron profited both directly and indirectly from its
2		schemes in the spot and forward markets. It also does not encompass the full time
3		period now at issue in this case. In my opinion, Enron should be prohibited from
4		retaining or obtaining profits under all contracts of transactions executed by
5		Enron in the Western Interconnect during the period January 16, 1997 to June 25,
6		2003.
7	Q.	Can you provide a few other glaring examples of evidence relating to the
8		gaming practice of Wheel Out that Dr. Acton overlooked in his testimony?
9	A.	Yes. For example, materials that were available in Enron's own files include:
10 11 12		• Original Stephen Hall memo which includes a detailed description summarizing and explaining trading strategies Enron traders used, including Wheel Out. (Ex. SNO-62)
13 14 15 16 17 18		• Yoder/Hall memo which describes specific trading strategies that Enron's traders applied in the California wholesale energy markets. In the Wheel Out section, the memo states, "As a rule, the traders have learned that money can be made through congestion charges when a transmission line is out of service because the ISO will never schedule an energy delivery because the intertie is constrained." (Ex. SNO-64)
19 20 21 22 23 24		• Yoder, Hall, and Fergus testimony before US Senate saying they were at the October 2000 meeting where deceptive practices were revealed. (Ex. SNO-69) Their testimony refers to their in depth study of the various gaming schemes and the resultant creation of the above-mentioned Yoder/Hall memo, which details many of the schemes traders used, including Wheel Out.
25 26 27 28 29 30		• The Agenda from March 7, 2000 Real Time Staff Meeting discusses trading strategies as well as concepts such as parking, congestion relief, and profit sharing. (Ex. SNO-75) The document notes that there were proficiency exams that were to be administered to traders regarding various gaming schemes, including congestion relief schemes, of which Wheel Out is an example.

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1 2 3		• Draft Fact Summary- Based on a meeting between Tim Belden and Mary Hain (Ex. SNO-88), this document describes a Wheel Out scheme in great detail after it had been implemented.
4 5		• A February 4, 2000, Forney email to the Portland Shift (Ex. SNO-98) describes a Wheel Out scheme and its implementation.
6 7		 Mary Hain's FERC deposition (Ex. SNO-35, pp.178-179) discussing "Wheel Out" and earnings of "12 million dollars."
8		5. Load Shift
9	Q.	Dr. Acton recommends that Load Shift not be addressed since the 2003 ISO
10		materials do not address it. (Ex. ENR-42, p. 64) Is this supportable?
11	A.	No. Dr. Acton's position is akin to closing your eyes as you run a red light.
12		Avoiding unpleasant evidence is not the same as innocence.
13	Q.	Did Dr. Acton undertake an analysis of Load Shift?
14	A.	Only in the most superficial sense. Dr. Acton concludes that it was "not
15		successful and therefore caused no discernible harm to California consumers, nor
16		did it benefit market participants who may have engaged in it." (Ex. ENR-42, p.
17		64)
18	Q.	In your opinion, did the gaming practice of Load Shift pose detriments to
19		efficiency or consumers?
20	A.	Yes. We know from the written notes of Enron's own outside counsel that this
21		was intended to raise prices in Southern California and designed to create the
22		false impression of congestion on Path 26. (Ex. SNO-731) Furthermore, the
23		Yoder-Hall memo recognized that "by knowingly increasing the congestion costs,
24		Enron is effectively increasing the costs to all market participants in the real time
25		market." (Ex. SNO-64, p. 5) This practice is part of a consistent theme behind the

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1		Enron gaming practices: the knowing provision of false information, which
2		distorts the view of both the ISO and all other market participants about the true
3		nature of the state of the system. This makes it more difficult for the market to
4		determine the true market clearing price, as set by the marginal cost of supply.
5		Through Load Shift, Enron has distorted the level of demand in the system, and
6		therefore, the price will clear at the wrong marginal cost. Using the definition of
7		efficiency espoused by Dr. Acton, while he was at the Rand Institute, the exercise
8		of Load Shift (and in fact all of the other games) reduces market efficiency.
9	Q.	Did Enron's own consultants acknowledge the inefficiencies caused by
10		problems on Path15/26?
11	A.	Yes. The Seabron and Imparato October 2000 report reviewed problems in the
12		structure of the California market. Among other points, it states:
13 14 15 16 17 18 19 20 21 22 23 24 25		However, inter-zonal price differences suggest that geographical price convergence is highly incomplete as well. For example, in August 2000, during peak hours, SP15 prices were higher on average day- ahead, reflecting the fact that north to south transactions were congested in 53% of relevant hours. The patterns completely reverse in the real-time ex post market, however. In this market, NP15 was at a sustained premium, and the pattern of congestion is turned upside down. This is counterintuitive, and suggests that the information – especially about transmission between zones – needed to achieve scheduling efficiency was unavailable. Otherwise, SCs could have made 'free money' simply by submitting schedules. In an efficient market with adequate information and low transaction costs, such a strategy is impossible.
26		(Ex. SNO-659)
27		Apparently, Enron's own consultants had not been briefed on the reason why
28		actual flows matched schedules so poorly. The Load Shift schedules created the
29		appearance of flows from NP-15 to SP-15. However, the schedules had been

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1		falsified to give just this impression. In actuality, a variety of the schedules
2		especially loads simply did not exist. When ex-post prices were calculated, the
3		absence of these schedules created an entirely opposite picture of system
4		operations.
5	Q.	In your opinion, did the gaming practice of Load Shift depart significantly
6		from normal behavior in competitive markets that do not require continuing
7		regulation or lead to unusual or unexplained outcomes?
8	A.	Yes. In Load Shift, Enron filed false schedules in both Northern and Southern
9		California, filed adjustment bids designed to mitigate the implications of the false
10		schedules, and finally, received FTR revenues based on the various fraudulent
11		filings.
12	Q.	Did Enron traders understand that Load Shift was inappropriate behavior?
13	A.	Yes. The notes of Enron employees presented by the California Parties in Ex.
14		SNO-763 p.18 demonstrate that Enron employees clearly understood that Load
15		Shift was a prohibited activity. That is why they were developing a list of excuses
16		if caught by the ISO. Excuses included:

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could say just optimizing crossed our selves awd as going to be h too complicated.

1 2

(Ex. SNO-763)

3 Q. Is Dr. Acton's testimony on Load Shift credible?

4 A. No. According to Dr. Acton, Load Shift "may have been intended to profit from 5 the idiosyncrasies of the ISO's congestion management system, but it was not 6 successful..." and therefore failed to generate profits. (Ex. ENR-42, p.64) It 7 defies credibility that a powerful, technically adept firm, such as Enron, would 8 have pursued this scheme with dogged persistence again and again, if Enron 9 failed to make any profits from this strategy. Enron's own documents show that 10 Enron engaged in Load Shift on at least 332 days. (Ex. SNO-710, p.5). 11 Moreover, contrary to Dr. Acton's testimony, Enron's documents show that 12 Enron profited from this scheme and that the scheme was detrimental to economic

13 efficiency or consumers. For example, the Yoder-Hall memo plainly states:

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1 2 3		1. One concern here is that by knowingly increasing the congestion costs, we are effectively increasing the costs to all market participants in the real time market.
4 5		2. Following this strategy has resulted in profits of approximately \$30 million for FY 2000.
6		(Ex. SNO-64)
7		Mary Hain's notes also list \$30 million under heading "shift load." (Ex. SNO-79,
8		p.23)
9	Q.	Do you agree with Dr. Acton's testimony on Load Shift?
10	A.	No. Dr. Acton's analysis of Load Shift appears disingenuous at best. Based upon
11		the internal Enron documents discussed above, Load Shift was not only
12		profitable, but appears to have been one of Enron's more common schemes.
13	Q.	Is there additional data on Load Shift that was not available to Snohomish
14		before?
14 15	A.	before? Yes. On January 21, 2005, Enron produced one of Chris Mallory's excel
	A.	
15	A.	Yes. On January 21, 2005, Enron produced one of Chris Mallory's excel
15 16	A.	Yes. On January 21, 2005, Enron produced one of Chris Mallory's excel workbooks from Enron's Portland computer servers. This workbook was used to
15 16 17	А. Q.	Yes. On January 21, 2005, Enron produced one of Chris Mallory's excel workbooks from Enron's Portland computer servers. This workbook was used to calculate Load Shifts, and it contains information about Load Shifts for the period
15 16 17 18		Yes. On January 21, 2005, Enron produced one of Chris Mallory's excel workbooks from Enron's Portland computer servers. This workbook was used to calculate Load Shifts, and it contains information about Load Shifts for the period January 1, 2000 to July 1, 2000. (Ex. SNO-916)
15 16 17 18 19	Q.	 Yes. On January 21, 2005, Enron produced one of Chris Mallory's excel workbooks from Enron's Portland computer servers. This workbook was used to calculate Load Shifts, and it contains information about Load Shifts for the period January 1, 2000 to July 1, 2000. (Ex. SNO-916) Does this allow you to determine additional Load Shift dates?
15 16 17 18 19 20	Q.	 Yes. On January 21, 2005, Enron produced one of Chris Mallory's excel workbooks from Enron's Portland computer servers. This workbook was used to calculate Load Shifts, and it contains information about Load Shifts for the period January 1, 2000 to July 1, 2000. (Ex. SNO-916) Does this allow you to determine additional Load Shift dates? Yes. Our previous analysis used the documentation from Enpower to CAPS
15 16 17 18 19 20 21	Q.	 Yes. On January 21, 2005, Enron produced one of Chris Mallory's excel workbooks from Enron's Portland computer servers. This workbook was used to calculate Load Shifts, and it contains information about Load Shifts for the period January 1, 2000 to July 1, 2000. (Ex. SNO-916) Does this allow you to determine additional Load Shift dates? Yes. Our previous analysis used the documentation from Enpower to CAPS Reconciliation Reports. Enron failed to produce a number of these reports,

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1	Q.	Did you find more hours and days on which Load Shifts occurred?
2	A.	Yes. Enron trader Chris Mallory's Load Shift workbook indicates Load Shifts on
3		at least twenty-three days. Fifteen of these twenty-three days are days which were
4		not identified by my earlier analysis. (Ex. SNO-915)
5	Q.	Dr. Acton claims that Enron was unsuccessful at Load Shift. Does Mallory's
6		Load Shift workbook indicate otherwise?
7	A.	Yes. Mr. Mallory's workbook contains an indication of Enron's profits regarding
8		load movement schedules. His summary identifies \$1,374,430 of "FTR Profit"
9		and \$1,626,214 of "Load Movement Profit" during the period January 1, 2000 to
10		July 1, 2000. The congestion profits shown in Mallory's workbook from the
11		twenty-three Load Shifts I have identified are approximately \$690,027. (Ex.
12		SNO-916)
13	Q.	Are you saying that Enron differentiated between FTR and load movement
14		profits?
15	A.	According to Enron trader Mallory's workbook, this appears to be the case. I
16		believe that when Mr. Mallory refers to load movement he is referring to net
17		payments by the ISO to Enron for adjusting Enron's load.
18	Q.	Can you provide a few other examples of glaring evidence on the gaming
19		practice of Load Shift that Dr. Acton overlooked in his testimony?
20	A.	Yes. For example, materials available in Enron's own files include:
21 22 23		• Original Stephen Hall memo which includes a detailed description summarizing and explaining trading strategies Enron traders used, including Load Shift. (Ex. SNO-62)

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1 2 3 4 5 6		• Yoder, Hall, and Fergus testimony before US Senate saying they were at the October 2000 meeting where deceptive practices were revealed. (Ex. SNO-69) Their testimony refers to their in depth study of the various gaming schemes and the resultant creation of the above-mentioned Yoder/Hall memo, which details many of the schemes traders used, including Load Shift.
7 8 9		• Memo from Sanders to Fergus & Frizzell regarding Status Report on Further Investigation and Analysis of EPMI Trading Strategies. Load Shift is among the schemes discussed. (Ex. SNO-71)
10 11 12		• Enpower to CAPS Reconciliation reports. Handwritten notes on the front pages of these reports appear frequently. One such comment, for example on July 18, 200, reads: "Load shift to capture cong relief." (Ex. SNO-736)
13 14 15 16		• A September 2000 email from Mara to Belden discussed her involvement in influencing the ISO decision to release some FTR's that upcoming April. This relates directly to the Load Shift scheme, which depends on Enron having FTR's connecting two zones. (Ex. SNO-119)
17 18		• Inc Sheets. For example, the August 4, 2000 Inc sheet identifying a series of Load Shift transactions. (Ex. SNO-732)
19		• Fergus notes on Load Shift. (Ex. SNO-750)
20 21 22 23 24		• Stewart Rosman's memo on FTR Load Shift which gives specific detailed directions on a variety of ways to apply Load Shift. For example, "Have Service DA customer outside CA with access to ENA FTR paths put a schedule in with no adjusted bid at their minimum price to increase the likelihood of being awarded and create congestion." (Ex. SNO-798)
25 26		 Mary Hain's FERC Deposition (Ex. SNO-35, pp.178-189) discusses FTR shift load, "spent 10 million, made 40 million."
27		6. Paper Trading (also known as Get Shorty)
28	Q.	What arguments does Dr. Acton make regarding the practice of Paper
29		Trading?
30	A.	Dr. Acton essentially argues that selling capacity that one does not own lowers
31		costs to consumers:
32 33 34		The sale-plus-buy-back transactions increase the amount of reserve capacity bid into the CAISO's Day Ahead market, and this additional supply reduces market-clearing prices—and therefore the CAISO's

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1 2 3 4 5		Day Ahead procurement costs—below what they would have been if Enron had never made these supply offers available to the Day Ahead market. Prices were reduced by sale-plus-buy-back transactions, whether the sale-plus-buy-back transaction was a Paper Trade or an arbitrage trade backed by available physical resources.
6		(Ex. ENR-1, p.50)
7	Q.	What is your opinion of Dr. Acton's paper trading analysis?
8	A.	Creative, but ultimately incorrect. One of the reasons that prices were so high in
9		California was that the ISO was unable to procure sufficient bids to meet its
10		reliability needs – even though the WECC studies indicate that no reserve
11		shortage actually existed. (Ex. SNO-903 & Ex. SNO-904) If a real shortage had
12		existed, selling reserves that were to be purchased later would have been a recipe
13		for disaster. The ISO would have found itself depending on reserves that would
14		not have existed.
15	Q.	In your opinion, did the gaming practice of Paper Trading pose detriments to
16		efficiency or consumers?
17	A.	Absolutely. The problem is that the capacity did not exist. Selling placebos
18		instead of real antibiotics can create an artificial increase in supply and decrease
19		price. But, it also can lead to the death of patients who need the antibiotics.
20		Counterfeiting currency can increase the money supply, but it also can create
21		inflation since no product is created when the photocopier prints fake currency.
22		Faking maintenance records on airplanes lowers costs which may lead to lower
23		prices, but sometimes the airplanes fail catastrophically. In the case of Get
24		Shorty, Enron was making a promise it could not meet. If a genuine emergency

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1		had occurred during the crisis, Enron's fraud might well have brought down the
2		grid since the ISO would have been depending on imaginary capacity.
3	Q.	Do you agree with the ISO's analysis that Paper Trading (Get Shorty)
4		reduces reliability?
5	A.	Yes. As shown in Ex. SNO-18, the ISO found that "selling of A/S capacity that is
6		not actually available imposes potential risk to system reliability." Ancillary
7		services capacity, or "A/S capacity," is purchased by the ISO to replace system
8		components that fail, and also to provide flexibility to operate the system. The
9		practice of paper trading is similar to selling an empty fire extinguisher as new.
10		It's not a problem until the fire extinguisher is needed.
11	Q.	In your opinion, did the gaming practice of Paper Trading depart
12		significantly from normal behavior in competitive markets that do not
13		require continuing regulation or lead to unusual or unexplained outcomes?
14	A.	Yes. As noted above, adulteration and counterfeiting are viewed as serious
15		crimes elsewhere in the economy. Get Shorty has no analog in a traditional
16		competitive market other than commercial fraud.
17	Q.	Did Enron provide additional data on Paper Trading (Get Shorty) that was
18		not available to you previously?
19	A.	Yes. On March 1, 2005, Enron finally supplied the working files for its settle
20		database. These had been first requested on August 25, 2004.
21	Q.	Was Dr. Acton's analysis limited to the specific instances of Get Shorty that
22		were analyzed by Dr. Hildebrandt for the ISO?

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1	A.	Yes, and as a result Dr. Acton's flawed analysis is incomplete.
2	Q.	Have you been able to detect instances of Get Shorty not analyzed by Dr.
3		Hildebrandt?
4	A:	Yes. My analysis of Enron's CAPS and settle data bases has revealed numerous
5		additional Get Shorty events beyond those described by Dr. Hildebrandt. In
6		particular, I have detected 178 instances of Get Shorty schemes from 1998
7		through 2000 that were not reported by Dr. Hildebrandt.
8	Q.	What do you mean by "instances?"
9	Α.	A Get Shorty instance is a date-hour in which I have detected Enron's practice of
10		scheduling that reflects a Get Shorty scheme, i.e., when Enron has sold ancillary
11	·	services in the day-ahead market at a particular location, and procured that same
12		amount and type of ancillary services in the associated hour-ahead market. Dr.
13		Hildebrandt used a similar procedure to search for Get Shorty schemes, but
14		searched only for the years 2000 and 2001. I searched both Enron's CAPS
15		databases and Enron's Settle database. The Settle database was received from
16		Enron in March 2005. Of the Get Shorty instances that I found that were not
17		noted by Hildebrandt I found some by examining the CAPS data base that were
18		not apparent from examining the settle data base alone, and some by examining
19		the settle data base that were not apparent from examining the CAPS data base
20		alone.
21	Q.	On how many dates did you detect Enron Get Shorty schemes that were not
22		detected by Dr. Hildebrandt?

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1	Α.	I detected Get Shorty schemes not detected by Dr. Hildebrandt on one day in
2		1998, with one instance on that day; 20 days in 1999 with 97 instances on those
3		days; and 44 days in 2000 with 80 instances on those days. The following table
4		shows the days for which Get Shorty schemes were detected by either Dr.
5		Hildebrandt or by my examination of the CAPS and Settlement data.

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1

Get Shorty Dates	Detected From CAPS Data?	Detected From Settlement Data?	Detected By Hildebrandt?	Get Shorty Dates	Detected From CAPS Data?	Detected From Settlement Data?	Detected By Hildebrandt?
September 4, 1998	Yes	Yes	No	May 14, 2000	Yes	Yes	Yes
May 25, 1999		Yes	No	May 15, 2000		Yes	Yes
June 9, 1999	Yes	Yes	No	May 16, 2000		Yes	Yes
June 12, 1999	Yes	Yes	No	May 17, 2000	Yes	Yes	Yes
July 5, 1999	Yes	Yes	No	May 18, 2000		Yes	Yes
July 7, 1999		Yes	No	May 19, 2000		Yes	Yes
July 8, 1999		Yes	No	May 20, 2000		Yes	Yes
August 10, 1999		Yes	No	May 21, 2000		Yes	Yes
September 15, 1999		Yes	No	May 24, 2000	No	No	Yes
September 19, 1999		Yes	No	May 25, 2000		No	Yes
September 21, 1999	Yes	Yes	No	May 30, 2000		Yes	Yes
October 31, 1999		Yes	No	June 12, 2000	· · · · · · · · · · · · · · · · · · ·	No	Yes
November 11, 1999	Yes	No	No	June 14, 2000		Yes	Yes
November 17, 1999		Yes	No	June 15, 2000		Yes	Yes
December 26, 1999		Yes	No	June 20, 2000		No	Yes
December 29, 1999		Yes	No	June 22, 2000		Yes	Yes
January 1, 2000		Yes	Yes	June 23, 2000		Yes	Yes
January 2, 2000		Yes	Yes	June 26, 2000		Yes	Yes
January 7, 2000		Yes	Yes	June 27, 2000		Yes	Yes
January 14, 2000		Yes	No	June 28, 2000		Yes	Yes
January 25, 2000		Yes	Yes	June 29, 2000	•	Yes	Yes
January 27, 2000		Yes	Yes	June 30, 2000		Yes	Yes
January 28, 2000		Yes	Yes	July 20, 2000	<u> </u>	Yes	Yes
February 28, 2000		No	Yes	July 21, 2000		Yes	Yes
February 29, 2000		Yes	No	July 23, 2000		No	Yes
March 2, 2000		No	Yes	July 24, 2000		Yes	Yes
March 6, 2000		Yes	Yes	July 25, 2000		Yes	Yes
March 7, 2000		Yes	Yes	July 26, 2000	<u>.</u>	No	Yes
March 8, 2000		No	Yes	July 27, 2000		Yes	Yes
March 9, 2000		Yes	Yes		i	Yes	Yes
March 10, 2000		Yes	Yes	July 28, 2000 July 31, 2000		Yes	Yes
March 11, 2000		Yes	No	August 1, 2000		Yes	Yes
		No				Yes	Yes
March 16, 2000 March 20, 2000		Yes	Yes Yes	August 2, 2000		Yes	Yes
		No		and the second sec			Yes
March 21, 2000		Yes	Yes Yes	August 4, 2000		Yes Yes	Yes
March 23, 2000				August 8, 2000			Yes
March 24, 2000		No	Yes	August 9, 2000		No	
March 27, 2000		Yes	Yes	August 10, 2000		Yes	Yes
March 29, 2000		No	Yes	August 11, 2000		Yes	Yes
April 2, 2000		Yes	Yes	August 14, 2000		Yes	Yes
April 3, 2000		Yes	Yes	August 15, 2000		Yes	Yes
April 4, 2000		Yes	Yes	August 16, 2000		Yes	Yes
April 5, 2000		Yes	Yes	August 17, 2000		Yes	Yes
April 6, 2000		No	Yes	August 18, 2000	the second s	Yes	Yes
April 7, 2000		Yes	Yes	August 21, 2000		Yes	No
April 8, 2000		No	Yes	August 22, 2000		Yes	Yes
April 10, 2000		Yes	Yes	August 23, 2000		Yes	Yes
April 12, 2000		Yes	Yes	August 24, 2000	1	Yes	Yes
April 13, 2000		Yes	Yes	August 25, 2000		Yes	Yes
April 14, 2000		Yes	Yes	September 4, 200		No	Yes
April 17, 2000		Yes	Yes	September 7, 2000		Yes	Yes
April 18, 2000		Yes	Yes	September 14, 200		No	Yes
April 19, 2000		Yes	Yes	September 16, 2000		No	Yes
April 21, 2000		Yes	Yes	September 18, 2000		No	Yes
April 27, 2000		Yes	Yes	September 19, 2000		No	Yes
May 1, 2000		Yes	Yes	September 28, 200		Yes	Yes
May 3, 2000		Yes	Yes	October 6, 2000		Yes	No
May 10, 2000		Yes	Yes	October 11, 2000		Yes	No
May 11, 2000	Yes	Yes	Yes	November 8, 2000		No	Yes
May 12, 2000	Yes	Yes	Yes	November 16, 2000		No	Yes
May 13, 2000	Yes	Yes	Yes	December 13, 2000	Yes	No	Yes

2

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1		
2	Q.	Can you provide a few other glaring example of evidence relating to the
3		gaming practice of Get Shorty that Dr. Acton overlooked in his testimony?
4	Α.	Yes. For example, materials available from Enron's own files include:
5 6 7	·	• Original Stephen Hall memo which includes a detailed description summarizing and explaining trading strategies Enron traders used, including Get Shorty. (Ex. SNO-62)
8 9 10 11 12 13		• Yoder/Hall memo which describes specific trading strategies used by Enron that were prohibited by the ISO's tariff, including Get Shorty. In the discussion of Get Shorty, Yoder/Hall state, "This strategy might be characterized as 'paper trading,' because the seller does not actually have the ancillary services to sell. FERC recently denied Morgan Stanley's request to paper trade on the New York ISO". (Ex. SNO-64)
14 15 16		• Memo from Sanders to Fergus & Frizzell regarding Status Report on Further Investigation and Analysis of EPMI Trading Strategies including Get Shorty. (Ex. SNO-71)
17 18		• Emails regarding Get Shorty from Tim Belden congratulating staff "making so much money on shorting ancillary service." (Ex. SNO-121)
19 20		• Email from Tim Belden talking about Get Shorty saying he does not want to get caught with the "smoking gun:"
		From: Tim Belden/HOU/ECT

From:	Tim Beiden/HOU/ECT
Sent:	Monday, August 28, 2000 12:36 PM
To:	Greg Wolle/HOU/ECT; Chris H Foster/HOU/ECT
Cc:	John M Formey/HOU/ECT; Jeff Richten/HOU/ECT
Subject:	Get Shorty Suspended

It has come to my attention that we failed to zero out a "Get Shorty" schedule on Friday. Fortunately, the real time desk was able to fill it. Kim Ward tried to zero it out and put in blanks rather than zeros which doesn't work. This highlights the need to clearly document exactly what is supposed to be done to implement these schedules. For several months I have asked for a written procedure on ancillary service schedules. Nobody has listened to me and mistakes keep happening. Such a mistake occurred in June and is now requiring a \$900k prior month adjustment. On top of that, the California Attorney General is in search of a smoking gun and is looking to find someone who is "gaming" the market. I don't want to provide them with any fuel for their fite.

I AN TEMPORARILY SUSPENDING ALL GET SHORTY ANCILLARY SERVICE ACTIVITY. When I see a written procedure that will be fail proof, and an airtight log that assigns accountability I will be happy to reinstate. The procedure needs to be thorough and thoughtful. The test will be whether someone who knows almost nothing about ISO scheduling can implement the procedure. This is long overdue. Chris or Greg, please let me know how you plan to proceed.

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1 (Ex. SNO-122)

2 3 4		• In Mary Hain's Commodity Futures Trading Commission Deposition (Ex. SNO-760, pp.4-5) on May 2, 2002, she describes the Get Shorty scheme and indicates that Enron made \$5 million dollars from Get Shorty.
5 6		 Mary Hain's FERC Deposition (Ex. SNO-35, pp.178-179). Mary Hain discusses Get Shorty and 5 million dollars in earnings.
7 8 9		• The August 2000 summary of profits (Ex. SNO-761) show a pattern that reflects the Get Shorty scheme: Enron would sell in the Day Ahead market and purchase in the Hour Ahead market.
10 11		• Mary Hain's notes (Ex. SNO-763) from Enron meetings she participated in contain extensive discussion of the Get Shorty scheme.
12 13 14 15		• Instructions for Get Shorty including procedures on what the role of the service desks should be, which Enron superiors to get approval from, and how to zero out schedules so as to avoid the risk of nonperformance. (Ex. SNO-802)
16 17 18		• Presentation on Get Shorty by Stewart Rosman which exhorts traders to execute short trades and gives specific directions on how to approach and profit from paper trades. (Ex. SNO-803)
19 20 21		 Deposition of Craig Dean discloses Get Shorty was named after Stewart Rosman. (Ex. SNO-758, p.8)
22	Q.	Dr. Acton argues that Get Shorty schemes with INTERCHG_ID codes
23		referencing non-Enron counterparties actually had capacity backing the
24		initial Day Ahead sale. Should his statement be trusted?
25	A.	No. As Dr. Acton probably knows, Enron's treatment of capacity was somewhat
26		subjective. Ex. SNO-773 is a memorandum written by El Paso Electric
27		questioning whether Enron was respecting EPE's capacity limitations. Ex. SNO-
28		199 contains the transcript of a conversation where an Enron trader is ordering El
29		Paso staff to take steps that are clearly inconsistent with prudent utility practice.

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1 Is there any evidence that Enron "went short" with other services customers **Q**. 2 which were identified in FERC's show cause order as potential partnership entities? 3 4 Yes. One January 2000 email from Stewart Rosman to the Portland shift Α. describes the policy for going short with Glendale: 5 6 61/11/2000 GR:53 PM ŤΖ CTOTT, Manager State MCU/ECTREGT, Qne Walle/HCU/ECTRECT, Paul æ mmenticu/ECT @ ECT e Anallary Sarvice Holica fe of Last hidey Erron has decided to undertake a more approaches strategy in bidding : a employing this strategy with Glandsis only but this might change going for Error is describly going shak spin by bidding volumes into the day sh iest market which Gi not mecanizatily have. We are doing so at a high capacity price. rcled we will look to **All the** hat in one of three within 1. Go to Giandale and see if they can also to the shart (this can be done by mailocating their Hoover ion - they probably can absorb up to 15 MWG A for 65 (this is the go e while is go utana anàna faora L ing on in the KSC i i i i i i ask the AS from the ISO in the hour sh whe best option a inf minister - Tolki in mitt had hits stik inter The Pallie on her this is that the Heart Ah بقات أرد is a Jely. Formey word) versus the day altered price and hence there should be an ac

8 (Ex. SNO-902)

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9 **7. Double Selling**

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- 10 Q. What arguments does Dr. Acton offer concerning double selling?
- 11 A. Dr. Acton did not even analyze this scheme. Accordingly, there is no Enron
- 12 defense to even rebut.

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1		8. Selling Non-Firm as Firm
2	Q.	What comments does Dr. Acton have on the practice of Selling Non-Firm as
3		Firm?
4	A.	Dr. Acton simply assumes the problem away with the sentence "In the case of
5		Enron supplying imports from a variety of out-of-state sources, the company
6		achieves a high degree of reliability of supply through diversification. In effect,
7		Enron self-insures the reliability of these imports." (Ex. ENR-42, p.66)
8	Q.	Is this a credible assumption?
9	A.	No. The theory that there was more energy in California because Enron misstated
10		the firmness of its supplies is preposterous and ignores the real problem. The
11		California ISO and other control areas were encouraged to believe that reserves
12		existed that actually did not. The cost to the system if the reserves had been
13		needed would have been enormous - the lights might simply have gone out across
14		the entire West Coast.
15	Q.	Doesn't the fact that Enron was broadly active in western markets allow it to
16		"self-insure"?
17	A.	This is an interesting concept and one that has never been seriously entertained in
18		the industry. Reliability planning simply doesn't encompass the possibility that
19		reserves aren't needed if the scale of operations is sufficiently large. The level of
20		reserves is determined based upon the resources available in the system. The
21		obligation to provide adequate reserves applies across the board to utilities and

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1		marketers of all sizes (Ex. SNO-886 & Ex. SNO-888) and Enron should not be
2		allowed to create an exception to this universal rule for itself.
3	Q.	In your opinion, did the gaming practice of Selling Non-Firm as Firm pose
4		detriments to efficiency or consumers?
5	A.	Clearly, yes. Selling Non-Firm as Firm overstates the supply of firm energy. It
6		provides a false signal as to the resources available to system operators to deal
7		with system emergencies. If a system emergency had occurred, Enron's
8		fraudulent claim would have put the system at risk. Firm energy entails a firm
9		commitment to deliver. Non-firm energy does not. If the California ISO (or any
10		other of Enron's victims) was depending on Enron's supply to serve consumers, a
11		decision not to supply on the part of Enron's non-firm source would put that
12		service at risk. When the system is not facing a genuine crisis, Enron was able to
13		replace non-firm supplies with purchases in real time. If a true emergency had
14		occurred, however, Enron would not have been able to cover the shortfall and
15		would have had to "lean on the system."
16	Q.	In your opinion, did the gaming practice of Selling Non-Firm as Firm depart
17		significantly from normal behavior in competitive markets that do not
18		require continuing regulation or lead to unusual or unexplained outcomes?
19	A.	Yes. As Enron itself has recognized, firm energy has a "[h]igher value" than non-
20		firm energy. (Ex. SNO-895) In normal competitive markets, this would simply
21		be regarded as commercial fraud since Enron was selling a product that it did not
22		own. When a sale is consummated, the purchaser has a right to expect delivery.

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1		If the delivery fails because the supplier falsely represented that it had purchased
2		the product promised, this is a criminal matter.
3	Q.	Does Dr. Acton's direct testimony on gaming ignore the economic
4		consequences resulting from Enron's exploitation of asymmetric information
5		in the execution of various games, such as selling Non-Firm as Firm?
6	Α.	Yes. As the testimony of FERC Staff's witness Dr. Boner demonstrates,
7 8 9 10 11 12 13 14		asymmetric information is a powerful tool for executing games in power markets. It causes detriment in terms of reduction of consumer surplus, and possibly in total efficiency of the market. Certainly, it undermines the institutions that were created to address what would, in economist's terms, be an ordinary market failure based upon the inherent structure of a market. All of those are negatives from a competitive point of view.
14		(Ex. SNO-900).
16	Q.	What practices did Dr. Boner find "impeded competition and acted to reduce
17		economic efficiency in the California energy market?
18	А.	Dr. Boner testified that both Selling Non-Firm as Firm and Paper Trading
19		impeded competition and reduced economic efficiency in the California Energy
20		market. (Ex. S-57).
21	Q.	What level of profits did Dr. Acton acknowledge Enron received in
22		connection with the gaming practice of Selling Non-Firm as Firm?
23	А.	None. Since the ISO did not present data regarding Selling Non-Firm as Firm in
24		its June 2003 report, Dr. Acton did no further analysis of this scheme. (Ex. ENR-
25		42, pp. 65-66). Dr. Acton's failure to acknowledge that Enron made any unjust
26		profits from this scheme is incredible. Selling Non-Firm as Firm was a practice

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1		endemic to Enron's power marketing efforts. It was a facet of Death Stars, for
2		instance, with circular schedules created out of a mixture of firm and non-firm
3		segments.
4	Q.	Can you provide a few other glaring examples of evidence relating to the
5		gaming practice of Selling Non-Firm as Firm that Dr. Acton overlooked in
6		his testimony?
7	A.	Yes. For example, materials that were available in Enron's files that were not
8		cited include:
9 10 11		• Original Stephen Hall memo which includes a detailed description summarizing and explaining trading strategies Enron traders used, including Selling Non-Firm as Firm. (Ex. SNO-62)
12 13 14 15 16 17 18		• Yoder/Hall memo which describes specific trading strategies that Enron's traders applied in the California wholesale energy markets. Specifically, in regards to selling non-firm energy as firm energy, the memo states the result of this scheme is "that the ISO pays EPMI for ancillary services that Enron claims it is providing, but does not in fact provide The traders claim that 'everybody does this,' especially for imports form the Pacific Northwest into California."(Ex. SNO-64)
19 20 21 22		• Memo from Sanders to Fergus & Frizzell regarding Status Report on Further Investigation and Analysis of EPMI Trading Strategies. This document summarizes different gaming schemes, including Selling Non- Firm as Firm. (Ex. SNO-71)
23 24 25 26 27		• Jeff Richter Plea Agreement in which he acknowledges his intent as an Enron trader to defraud ratepayers by intentionally filing energy schedules and bids that misrepresented the amount and geographic location of loads which they intended to serve, as well as submitting "false information to the ISO in the electricity and ancillary service markets." (Ex. SNO-73)
28 29		• Tim Belden's Risk Management materials lists reserves for a number of different Schemes, including Selling Non-Firm as Firm. (Ex. SNO-97)
30 31 32		 Instructions for Enron traders which delineates whether an import or export should be firm or non-firm so as to avoid any California charges. (Ex. SNO-124)

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1 2		 Inc Sheets. For example, September 18, 2000, shows an instance of Selling Non-Firm as Firm. (Ex. SNO-732 & SNO-740)
3 4		• Enron's CAPS database shows schedules in which Enron identifies Selling Non-Firm as firm. (Ex. SNO-755)
5 6		• CAPS Enpower query that lists "NFRM" shows Enron creating loops where non-firm was fictitiously turned into firm. (Ex. SNO-755)
7	Par	tnerships (EL03-180)
8	Q.	With respect Dr. Acton's direct testimony in Docket EL03-180 regarding
9		Enron's partnerships, please identify the ten alleged partnership entities that
10		were named in the Commission's show cause order and discussed in Dr.
11		Acton's testimony.
12	A.	Dr. Acton's direct testimony addresses Enron's relationships with the following
13		ten entities: (1) City of Glendale, CA; (2) City of Redding, CA; (3) Colorado
14		River Commission ("CRC"); (4) Las Vegas Cogeneration; (5) Modesto Irrigation
15		District; (6) Montana Power Company; (7) Northern California Power Agency
16		("NCPA"); (8) Powerex; (9) Public Service Company of New Mexico ("PNM");
17		and (10) Valley Electric Association.
18	Q.	What does Dr. Acton conclude in his EL03-180 testimony regarding Enron's
19		relationships with these ten entities?
20	A.	Dr. Acton's conclusions are found on page 4 of his testimony, where he states:
21		
22 23 24 25		1. With regard to nine of the ten parties, I am not aware of any evidence that Enron had an "alliance" or partnership agreement that gave Enron substantial control or decision-making authority over the assets of its counterparty.
26 27		2. [

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1 2 3]
4 5 6		3. In all ten cases, I am not aware of any evidence that Enron's agreements resulted in the parties' working in concert to engage in Gaming Practices or anomalous behavior.
7 8 9 10		4. Enron's arrangements with some of the parties generally benefited consumers in California markets by increasing the amount of imports sold into the ISO control area, which helped to alleviate upward pressure on market prices.
11	Q.	Did Dr. Acton look very hard for evidence pertinent to Enron's relationships
12		with these ten entities?
13	A.	No. Dr. Acton purports that he is not aware of or has not seen evidence that
14		Enron had partnership agreements with nine of the ten entities or that Enron
15		worked in concert with any of the ten entities to engage in gaming or anomalous
16		market behavior. (Ex. ENR-1 at 4:5-8 & 4:14-16). But, Dr. Acton did not look
17		very hard. He ignored large volumes of evidence and simply accepted, at face
18		value, contract language or claims by Enron and the ten entities that partnerships
19		did not exist, even though – as Dr. Acton repeatedly admits in his testimony – he
20		lacked knowledge regarding whether or not these denials were accurate. ⁶ Dr.
21		Acton's opinions were based on his review of the explicit terms of contracts
22		between Enron and the alleged partnership entities, and not on any in depth
23		analysis of the actual conduct of Enron and these alleged partnership entities, as

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⁶ Ex. ENR-1 at 8:9-11, 12:6-9, 15:5-7, 17:24-26, 21:11-13, 24:14-16, 26:21-23, 30:9-11, 33:14-16, and 37:10-12.

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1		he admits. ⁷ In fact, Dr. Acton concedes that he does not know whether the
2		parties' conduct diverged in practice from the explicit terms of the contracts. ⁸
3	Q.	Is there good cause for the Presiding Administrative Law Judge or the
4		Commission to find that Enron formed a business alliance or partnership
5		even if the language of an Enron contract disclaimed the existence of such a
6		relationship?
7	A.	Yes. The Presiding Administrative Law Judge and the Commission are well
8		aware from the record in Docket EL02-113 that words Enron places in contracts
9		are designed to mask and, in reality, do not match up with, Enron's actual
10		conduct. For example, Enron's Power Consulting Agreement with El Paso
11		Electric Company stated, on its face, that:
12 13 14 15 16		At all times during the term of this Agreement EPE shall retain ownership and control of, and operational responsibility with respect to, all of its tangible and intangible assets, including generation, transmission, and distribution assets, power purchase and sale contracts, and fuel and transportation agreements.
17		(Ex. S-68 at 1)
18		In practice, however, Enron actually controlled El Paso Electric's generation
19		resources and made sales decisions for El Paso Electric, as the Presiding
20		Administrative Law Judge and the Commission have already determined. (Enron
21		Power Marketing, Inc., et al., 104 FERC ¶ 63,010 (2003), affirmed in relevant
22		part, El Paso Electric Co., et al., 108 FERC ¶ 61,071 (2004)). Contrary to Dr.
23		Acton's conclusions, documents obtained from Enron's own files acknowledge

⁷ Ex. ENR-1 at 3:15-24, 5:3-28, and 6:26-33. ⁸ Ex. ENR-1 at 11:9-16, 19:19-24, and 25:29-33.

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1		that Enron did not simply engage in routine sales and purchase transactions that
2		were fully reported by Enron to FERC. To the contrary, Enron, by its own
3		admission, engaged in many joint ventures and equity sharing arrangements that
4		were never reported to FERC. Take, for example, this excerpt from notes for an
5		Enron West Power Business Review Meeting: "the combination of El Paso
6		Electric, Las Vegas Cogen, Valley Electric, and Glendale joint venture provide us
7		with a useful mix of loads and resources in the southwest." (Ex. S-65, Schedule 3,
8		p.3) Other Enron documents also explicitly acknowledge that Enron had an
9		equity sharing relationship with Valley Electric, Glendale, CRC, Las Vegas
10		Cogen, and Redding. (Ex. SNO-881; Ex. S-66, Schedule 3, at pp. 3-4; Ex. S-65,
11		Schedule 3 at p. 20)
12	Q.	Have Enron's own attorneys recognized that a partnership may exist, in
12 13	Q.	Have Enron's own attorneys recognized that a partnership may exist, in practice, even if the words of an Enron contract specifically provide that the
	Q.	
13	Q. A.	practice, even if the words of an Enron contract specifically provide that the
13 14		practice, even if the words of an Enron contract specifically provide that the business arrangement is not intended to be a partnership?
13 14 15		practice, even if the words of an Enron contract specifically provide that the business arrangement is not intended to be a partnership? Yes. On April 20th, 2005, Enron finally provided Snohomish with a copy of a
13 14 15 16		practice, even if the words of an Enron contract specifically provide that thebusiness arrangement is not intended to be a partnership?Yes. On April 20th, 2005, Enron finally provided Snohomish with a copy of amemorandum, entitled "Power Marketing Alliances," which had been requested
13 14 15 16 17		 practice, even if the words of an Enron contract specifically provide that the business arrangement is not intended to be a partnership? Yes. On April 20th, 2005, Enron finally provided Snohomish with a copy of a memorandum, entitled "Power Marketing Alliances," which had been requested by Snohomish many months earlier from Enron's CDMS index. (Ex. SNO-898)
13 14 15 16 17 18		 practice, even if the words of an Enron contract specifically provide that the business arrangement is not intended to be a partnership? Yes. On April 20th, 2005, Enron finally provided Snohomish with a copy of a memorandum, entitled "Power Marketing Alliances," which had been requested by Snohomish many months earlier from Enron's CDMS index. (Ex. SNO-898) The memorandum, which was written by one of Enron's attorneys at the law firm
13 14 15 16 17 18 19		 practice, even if the words of an Enron contract specifically provide that the business arrangement is not intended to be a partnership? Yes. On April 20th, 2005, Enron finally provided Snohomish with a copy of a memorandum, entitled "Power Marketing Alliances," which had been requested by Snohomish many months earlier from Enron's CDMS index. (Ex. SNO-898) The memorandum, which was written by one of Enron's attorneys at the law firm of LeBoeuf, Lamb, Greene & MacRae, L.L.P., admits that if Enron markets

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1		p.1,) According to the memorandum, a partnership may be deemed to exist
2		where, for example, Enron possesses the power to bind the counterparty to power
3		sales contracts with third parties or Enron's compensation is tied to net profits.
4		(Ex. SNO-898, at p.1)
5	Q.	Has Dr. Acton acknowledged that Enron was compensated by any of the
6		identified partnership entities based on profits received from sales to third-
7		parties?
8	A.	Yes, in part. Dr. Acton's testimony [
9]. (Ex.
10		ENR-1 at pp.15, 18, 27, 37)
11	Q.	Does evidence exist that Enron had profit sharing arrangements with some of
12		the other alleged partnership entities that Dr. Acton failed to reveal in his
13		testimony?
14	A.	Yes. For example, there is evidence that Enron had profit sharing arrangements
15		with Glendale, Redding, and PNM. (Ex. S-66, Schedule 3, at pp. 3-4; Ex. S-65,
16		Schedule 3 at pp. 5, 6, 20; Ex. SNO-76; Ex. SNO-827; Ex. SNO-828; Ex. SNO-
17		75; Ex. SNO-844; Ex. SNO-845 and Ex. SNO-894)
18	Q.	Based on Enron's own records, is there good cause for the Presiding
19		Administrative Law Judge or the Commission to find that Dr. Acton's
20		estimates of the amount of profits Enron derived from its relationships with
21		the alleged partnership entities are inaccurate?

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1	А.	Yes. Dr. Acton did not review or conduct a diligent search for all records
2		pertinent to Enron's relationships with the alleged partnership entities and he
3		failed to explain why there are discrepancies between dollar amounts referenced
4		in his testimony and dollar amounts contained in Enron's records. For example,
5		Enron's "Service Book December Revenue Statement" includes an "YTD,"
6		"Equity Share" amount for "Redding HA" of \$368,630.08, (Ex. S-66, Schedule 3,
7		p. 3) whereas Dr. Acton's testimony claims []. (Ex.
8		ENR-1, p. 13) Enron's "Service Book December Revenue Statement" includes
9		an "YTD," "Equity Share" amount for "Glendale A/S" of \$476,871.65, (Ex. S-66,
10		Schedule 3, at page 3) whereas Dr. Acton's testimony claims a revenue amount of
11		only \$284,102.76 was generated. (Ex. ENR-1, p.10) In addition, Enron's
12		"Services Results July '00 Revenue Statement" includes a "YTD," "A/S", "Equity
13		Share" amount for "CRC" of \$425,121, (Ex. S-65, Schedule 3, p. 20) whereas Dr.
14		Acton's testimony claims a revenue amount of only \$231,000 was generated. (Ex.
15		ENR-1, p. 15) Moreover, Dr. Acton's position that no revenues were generated
16		from a profit-sharing relationship with Redding is belied by the fact that Enron's
17		own records acknowledge Enron "split profits/losses" with Redding and state that
18		this relationship with Redding "has been very profitable." (Ex. S-65, Schedule 3,
19		p. 6).
20	Q.	Is there also good cause for the Commission to find that Dr. Acton's
21		testimony is not credible because he overlooked evidence relating to Enron's
22		use of the identified entities in Enron's gaming schemes?

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1	А.	Yes. Dr. Acton concluded th	at he could not find any "agreements" that involved
2		"Gaming Practices or anoma	lous behavior." (Ex. ENR-1, p. 2) Dr. Acton chose
3		his words with care in his and	swer cited above. Although asked about documents
4		he stated that he could not fir	nd agreements. The answer he might well have given
5		is that many documents demo	onstrate gaming and anomalous behavior. Simply
6		because Enron did not explic	itly memorialize, in the body of a written agreement,
7		that Enron intended to enter	into the agreement to carry out gaming or anomalous
8		market behavior, it does not	follow that such gaming and anomalous market
9		behavior never occurred. We	e now know that Enron used many of the identified
10		partnership entities in Enron'	s market manipulation schemes:
11 12		Glendale:	Fat Boy, Thin Man, Get Shorty
12 13 14		Redding:	Fat Boy, Red Congo, Load Shift
14 15 16		CRC:	Fat Boy and Thin Man
17		Las Vegas Cogeneration:	Generation Withholding
18 19 20		Modesto Irrigation District:	Ricochet
20 21 22		Montana Power Company:	Non-firm As Firm
22 23 24		NCPA:	Load Shift
24 25 26		Powerex:	Fat Boy, Market Sharing
20 27 28		PNM:	Ricochet
29		VEA:	Fat Boy
30 31	Q.	What documents did Dr. A	cton personally review in his investigation of the
32		alleged partnerships?	

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1	А.	Very few. According to his testimony, only the contracts, correspondence, and
2		records of transactions that Enron filed on September 2, 2003, in response to the
3		Show Cause Order, were examined, along with the September 2, 2003 filings of
4		the ten counterparties. (Ex. ENR-1, p. 5). Dr. Acton states that all of the
5		documents he relied upon in his testimony are listed in Ex. ENR-4. (Ex. ENR-1,
6		p. 5).
7		
8		9. Glendale
9	Q.	Focusing on the identified entities with whom Enron entered into unreported
10		profit or equity sharing relationships, can you please provide a few glaring
11		examples of evidence that was missed by Dr. Acton.
12	A.	Certainly. Starting first with Enron's unreported relationship with Glendale, Dr.
13		Acton missed, for example, the following evidence:
14 15 16 17		• Ex. SNO-76 Enron Real Time Services Handbook, includes counterparty- specific instructions to educate inexperienced traders on how to carry out Enron's schemes. It even specifies the specific products traded, transmission lines that were used by certain partners to initiate a sequence
18 19 20 21		of gaming opportunities (e.g., with "High RT Prices"), and profit-sharing arrangements. Among the Hour-Ahead products listed for Glendale are the gaming schemes Fat Boy and Thin Man. There is also a statement of the Fat Boy profit-sharing arrangement between Enron and Glendale.
22 23 24		 Ex. SNO-827 is an email from John Forney to the Portland Shift from February 23rd, 2000. It discusses a standing order from Glendale on purchasing energy and the resultant profit sharing arrangement.
25 26 27		• Ex. SNO-828 is a John Forney email to the Portland Shift from February 17 th of 2000. It mentions that there have been decreasing opportunities for profit-sharing transactions with certain members of the Glendale staff, and

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1 2		looks to get more of them involved: "Their manager wants to do this every time we see fit.
3 4 5 6		• Ex. SNO-133 is a memo entitled "Scheduling Coordination Services" that was sent by Christian Yoder to his superior, Elizabeth Sager, on July 29, 1999. The second page of Yoder's memo characterizes the Glendale "deal" as:
7		A. Glendale
8 9		1. Doing Day Ahead and real Time Ancillary Services. No energy bidding.
10		2. "At risk" for all the above
11		3. Collecting 25% of Capacity Payment
12		Collecting 20% of "Profit" on Energy Exercised
13		
14 15		• Ex. SNO-840 is an Enron spreadsheet containing details of profit sharing between Enron and Glendale in SP15 in February of 2000.
16 17		• Ex. SNO-841 is an Enron spreadsheet containing details of profit sharing between Enron and Glendale in SP15 in March of 2000.
18 19		• Ex. SNO-842 is an Enron spreadsheet containing details of profit sharing between Enron and Glendale in SP15 in April of 2000.
20 21 22 23		• Ex. SNO-843 is an Enron spreadsheet entitled "Comparison of Profit Sharing Arrangement Vs. Supplemental Market Bids," which gives a detailed example of a profit sharing arrangement between Enron and Glendale on August 26, 1999.
24		10.Redding
25	Q.	What evidence did Dr. Acton miss regarding Enron's unreported
26		relationship with Redding?
27	А.	He missed the vast majority of the evidence, including, for example, the
28		following:
29 30 31 32 33		• Ex. SNO-76 Enron Real Time Services Handbook, includes counterparty- specific instructions to educate inexperienced traders on how to carry out Enron's schemes. It even specifies the specific products traded, transmission lines that were used by certain partners to initiate a sequence of gaming opportunities (e.g., with "High RT Prices"), and profit-sharing

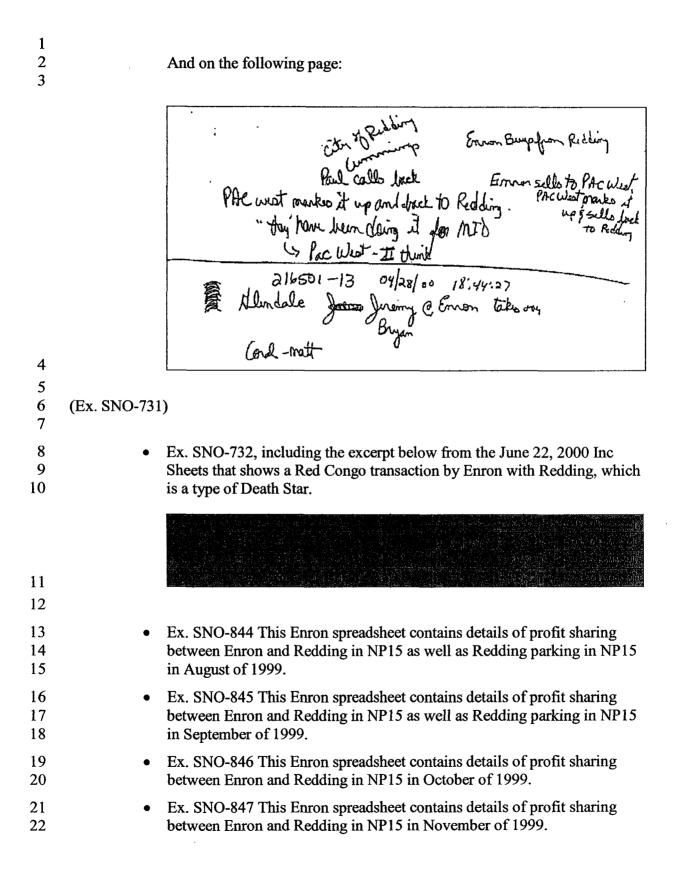
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1 2 3	arrangements. It states Fat Boy to be an Hour Ahead product for Redding, as well as mentions a profit-sharing arrangement between Enron and Redding.
4 5 6	• Ex. CP-113,114 contains Enron trader comments from INC Sheets and Enpower regarding Redding. There are many mentions of specific schemes as well as profit sharing arrangements.
7 8 9 10 11 12	• Ex. SNO-102 is a John Forney email to the Portland Shift entitled "Project Red Congo." The opening line sums up the content of the email: "In a new marketing arrangement with Redding, we are flowing a virtual loop to relieve congestion." The email goes on to give the details of this arrangement and emphasizes that Redding is "on board with this strategy as is PacifiCorp."
13 14 15 16	• Ex. SNO-75 is an outline of an Enron Real Time Staff Meeting. In a section on trading strategies, there is discussion of running a "Boomerang" scheme with Redding as well as profit sharing. Boomerang is another term used by Enron for a type of Death Star.
17 18 19 20	• Ex. SNO-737 is a document entitled "HOUR AHEAD CONGESTION RELIEF – Project "BIG TUNA"" that was produced by John Forney to instruct traders with very specific details on a congestion relief scheme that involved Redding.
21 22 23	• Ex. SNO-739 is an internal City of Redding memo to its system operators advising of procedures for doing reverse congestion scheduling with Enron and PACW.
24 25 26 27 28 29	• Ex. SNO-731 includes Stephen Hall's handwritten transcripts of Enron trader tapes from the spring and early summer of 2000. These transcripts contain a number of references to Enron's gaming activities involving Redding. Discussion of a Death Star with Redding on page 106 (seen below) mentions that Paul Cummings of Redding will "put together the loop."
	The august

216501-13 04/28/00 14:03:45 -> 14:17:46 PAC what City of Relling -Ed Congistion - Kew to mak money Paul Cumming Lyfe 1.60 - Jon't want that bgo out EC 071234804 0 Aduer Q Mg they pay Ernon then fedling paus them 6 mater price

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1 2	• Ex. SNO-848 This Enron spreadsheet contains details of profit sharing between Enron and Redding in NP15 in December of 1999.
3 4	• Ex. SNO-849 This Enron spreadsheet contains details of profit sharing between Enron and Redding in NP15 in January of 2000.
5 6	• Ex. SNO-850 This Enron spreadsheet contains details of profit sharing between Enron and Redding in NP15 in February of 2000.
7 8	• Ex. SNO-851 This Enron spreadsheet contains details of profit sharing between Enron and Redding in NP15 in March of 2000.
9 10	• Ex. SNO-852 This Enron spreadsheet contains details of profit sharing between Enron and Redding in NP15 in April of 2000.
11 12	• Ex. SNO-853 This Enron spreadsheet contains details of profit sharing between Enron and Redding in NP15 in May of 2000.
13 14 15	• Ex. SNO-854 This Enron spreadsheet contains details of profit sharing between Enron and Redding in NP15 on May 10, 2000, with a distinct example of the Red Congo gaming scheme.
16 17	• Ex. SNO-855 This Enron spreadsheet contains details of profit sharing between Enron and Redding in NP15 in June of 2000.
18 19	• Ex. SNO-856 This Enron spreadsheet contains details of profit sharing between Enron and Redding in NP15 in July of 2000.
20 21	• Ex. SNO-857 This Enron spreadsheet contains details of profit sharing between Enron and Redding in NP15 in August of 2000.
22 23 24 25	• Ex. SNO-881 is a document containing Enron Service Book with monthly revenue statements on several services customers, including Redding, from August of 1999 through November of 2000 on several services customers, including Redding. It has documentation of equity sharing.
26 27	• Ex. SNO-217 is a transcript of an Enron trader phone conversation acknowledging Enron's profit sharing arrangement with Redding:
28	PERSON 2: You gonna manage their transports, Stewart?
29 30 31 32 33 34	STEWART: We're going to man - we're gonna take their transmission - similar to what we're doing with Modesto and Redding, and do a buy- resell with them, and I think it's going to be tougher with them because they're less competent in terms of scheduling it and all and calculating the cost. And ah, we're going to give 'em 75% of whatever profits are derived from it.
35	(p.3)
36 37	• Ex. SNO-282 is a transcript of a conversation between Enron traders referencing initiation of a profit sharing arrangement with Redding:

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. ..

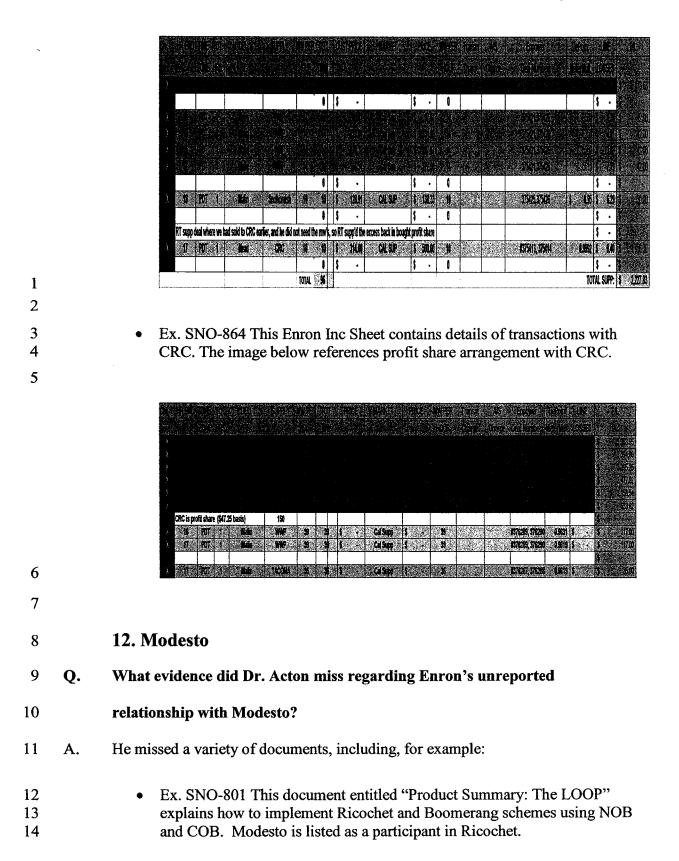
· · ·

1 2		JOHN FORNEY: So um. Anyway, did he do that Redding thing? [break in recording]
3		BILL: Do the Redding thing?
4 5		JOHN FORNEY: Yeah. Redding. He was talking to Redding. Redding wanted to profit-share.
6		(p.3-4)
7 8 9		• Ex. SNO-465 This trader conversation between Jeff Richter of Enron and Marvin of Redding evidences Enron was aware of the consequences of its gaming activity in the middle of the California crisis.
10		JEFF: The ISO is - the ISO is going to be screwed.
11		MARVIN: Oh, yeah, oh yeah.
12		JEFF: I don't know what they're going to do today.
13 14		MARVIN: Yeah, they were pretty well hosed yesterday and today should just about finish it off.
15 16		JEFF: Yeah, it should just – are they just callin' people all over the place to get stuff, I mean, they're callin' here.
17 18 19		MARVIN: Yeah, Yeah, you know we're runnin for 'em too, but the way I look at it, you know, if we've sold a lot of it out of state and a lot of it off, you know, it's just – they made their bed, they can lie in it.
20 21		JEFF: That's right man, just $pu - push$ it out. That's why the, I mean, it's what we have to do.
22 23		MARVIN: Exa – I mean, if, they're the ones that capped it, you knew it was going to get – it's going to happen.
24		JEFF: Yeah, you want to go out of state man.
25		(p.2)
26		11.Colorado River Commission
27	Q.	What evidence did Dr. Acton miss regarding Enron's unreported
28		relationship with Colorado River Commission?
29	A.	Again, he missed the vast majority of the evidence, including, for example, the
30		following evidence:
31 32 33 34 35		• Ex. SNO-76 Enron Real Time Services Handbook, includes counterparty- specific instructions to educate inexperienced traders on how to carry out Enron's schemes. It even specifies the specific products traded, transmission lines that were used by certain partners to initiate a sequence of gaming opportunities (e.g., with "High RT Prices"), and profit-sharing

EX. SNO-822 Page 72 of 94

1 2	arrangements from this collusion. Among the Hour-Ahead products listed for CRC are the gaming schemes Fat Boy and Thin Man.
3 4 5 6 7 8 9	• Ex. SNO-824 These are internal Enron emails to their Portland shift that involve CRC. Mention is made of a profit-sharing arrangement between these two parties. Page two contains a noteworthy line: "CRC has agreed to ask NPC to allow Enron to make schedule changes on their behalf" This statement contradicts Dr. Acton's conclusion that Enron had no control or decision-making authority whatsoever with respect to CRC transactions.
10 11 12 13	• Ex. SNO-826 This is an email from John Forney to the Portland Shift entitled "CRC NEW PROCEDURE" from October 24 th of 2000. It discusses the possibility of entering into a profit-sharing agreement with CRC.
14 15 16	• Ex. SNO-881 This document contains Enron Service Book with monthly revenue statements from August of 1999 through November of 2000 on several services customers, including "Equity Share" with CRC.
17 18	• Ex. SNO-858 This Enron spreadsheet contains details of profit sharing between Enron and CRC in the supplemental market in July of 2000.
19 20	• Ex. SNO-859 This Enron spreadsheet contains details of profit sharing between Enron and CRC in the supplemental market in August of 2000.
21 22 23	• Ex. SNO-860 This Enron spreadsheet contains details of profit sharing between Enron and CRC in the supplemental market in November of 2000.
24 25 26	• Ex. SNO-861 This Enron spreadsheet contains details of profit sharing between Enron and CRC in the supplemental market in D e cember of 2000.
27 28 29 30	• Ex. SNO-862 This Enron internal email from Bill Williams to the Portland Shift explains how to enter a profit sharing arrangement with a services customer into CAPS. CRC is given as an example of such a services customer.
31 32	• Ex. SNO-863 This Enron Inc Sheet contains details of transactions with CRC. The image below references a profit share arrangement with CRC.

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1 2 3 4 5 6 7 8 9 10		 Ex. SNO-882 This Enron spreadsheet shows their December deals with Modesto in two forms: original December 2000 deals and "Modesto Adjusted Amounts (What's in Enpower)." This indicates there may have been intentional discrepancies between the actual deals and what was entered by Enron into Enpower, apparently in the calculation of a profit sharing transaction. Ex. SNO-883 This Enron spreadsheet details Enron's annuity accounting for transactions with Modesto in April and May of 2001. Ex. SNO-884 This Enron spreadsheet shows Modesto's Loss Return for a transaction from March of 2001.
11	Q.	[
12		l
13	A.	ſ
14 15 16 17 18 19 20 21 22 23		
24		
24 25] The Modesto spreadsheet, set
26		forth in Ex. SNO-882, appears to describe a relationship with a significantly more
27		complex set of computations:

EX. SNO-822 Page 75 of 94

		Modesto Adjusted Amounts (What's in Enpower)
		NP COB S/N
		Original Deal: 473338 Original Deal: 473337 MWH/Day Price MWH/Day Price Net \$ To Modesto
		6-Dec Wed 400 340 400 440 \$40,000
		7-Dec Thur 400 340 400 440 \$40,000
		8-Dec Fri 400 340 400 440 \$40,000
		9-Dec Sat 400 340 400 440 \$40,000
		Sufficience of Mon
		12-Dec Tue 400 340 400 440 \$40,000
		and little in the second se
		n and been set of the
		At new list Sale of the second s
		17-Dec Sun
		19-Dec Tue 400 340 400 440 \$40.000
		19-Dec Tue 400 340 400 \$ 40,000 20-Dec Wed 400 340 \$ 40,000
		21-Dec Thur 400 340 400 440 \$40,000
1		22-Dec Fri 400 340 400 440 \$40,000
1		23-Dec Sat 400 340 400 440 \$40,000
2		
4		
3		While we have been unable to find narrative materials to describe the December
4		
4		transactions, it appears that Modesto was used to facilitate facilitating a
5		transaction in Northern California for a net share. If so, this would be a profit
6		sharing transaction.
7	Q.	How credible are Dr. Acton's conclusions about Modesto?
8	A.	Not very. Since there appear, to be exceptions to Dr. Acton's exception, his
9		review of Enron's materials appears to have been unduly superficial. His
10		statement that he found no evidence of anomalous behavior is also contradicted
11		by the "Loop" document. (Ex. SNO-801).
12		13. Northern California Power Agency
14		13. INTITUTI Cantor ma i onci Agency
13	Q.	What evidence did Dr. Acton miss regarding Enron's unreported
14		relationship with NCPA?
15	A.	Once again, he missed the vast majority of the evidence, including, for example,
16		the following :

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1 2 3 4 5	• Ex. SNO-142 This internal Enron email from Geir Solberg to the Portland Shift discussing the re-initiation of a gaming scheme with NCPA. It refers to their previous profit-sharing arrangement and states that this time around would be a flat payment to NCPA. It goes on to give the details of a circular scheduling arrangement with NCPA.
6 7 8 9 10	• Ex. SNO-832 This document is a May 15 th , 2002 Transmission Management Proposal with NCPA with handwritten notes. The proposal includes a profit-sharing arrangement. The second page consists solely of handwritten notes with a diagram entitled "NCPA Cong Catcher." The flow diagram and notes give details of a Death Star.
11 12 13 14	• Ex. SNO-732 On August 28, 2000, Enron ran an ex-post Load Shift from HE 1 through HE 11. Enron's real time traders purchased power (actually ran a deficit) in ZP and "sold" the power to NCPA. It also states that the transaction was a "50/50" profit split, as shown in the Inc Sheet below:
	HAISO CONTRACTOR OF THE CONTRACTOR OF TO CONTRACTOR OF THE CONTRAC
15	
16	
17	E. CNO 010 Ennon's accounting for the NCDA I and Shift itemized

17 18 • Ex. SNO-910 Enron's accounting for the NCPA Load Shift itemizes profits for June, July, and August:

HR END [SATINESS]	STOT .	DEL	SUPPLY	NA HARO	IOI A	d-R(CE	HARKETS	PACE	ong K s MKS
28-Aug									50 States
1 PDT	1	ZP to NP	Cal imb (ZP)	21	21	3.37165	Cal Imb (NP)	240.1172	2486
2 PDT	1	ZP to NP	Cal Imb (ZP)	21	21	146.6483	Cal Imb (NP)	146.6483	A 12 1 1
3 PDT	1	ZP to NP	Cai imb (ZP)	21	21	100	Cat imb (NP)	100	5 A A
4 PDT	1	ZP to NP	Cal imb (ZP)	21	21	131.7116	Cal Imb (NP)	131.7116	Sec. Sec.
5 PDT	1	ZP to NP	Cal Imb (ZP)	21	21	149	Cal Imb (NP)	149	and the second
6 PDT	1	ZP to NP	Cal imb (ZP)	21	21	136.88	Cal Imb (NP)	136.88	
7 PDT	1	ZP to NP	Cal Imb (ZP)	19	19	249.17	Cal Imb (NP)	242.73	
8 PDT	1	ZP to NP	Cal Imb (ZP)	19	19	241.75	Cal Imb (NP)	248.99	. 6
9 POT	1	ZP to NP	Cal imb (ZP)	19	19	116.51	Cal Imb (NP)	248.92	125
10 PDT	. 1	ZP to NP	Cal Imb (ZP)	19	19	104.33	Cal Imb (NP)	250	, 138
11 PDT	1	ZP to NP	Cal Imb (ZP)	19	19	133.68	Cal Imb (NP)	133.68	
			1	1				TOTAL	\$ 121,897

19 20

21

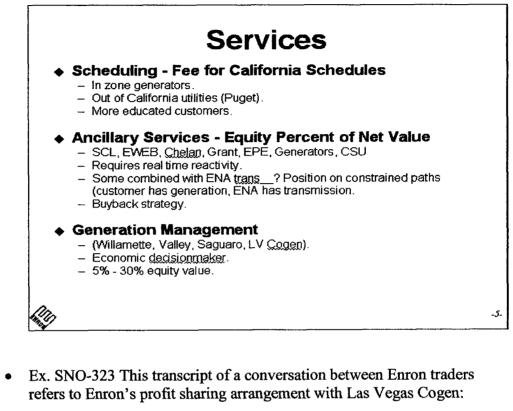
22

• Ex. SNO-909 Enron's summary of its relationship with NCPA including a "shared savings" arrangement:

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1		How does it work?
2 3 4 5 6		TEAMWORK. We are all on the same team. The shared savings arrangement insures that the incentives for Enron are in line with the incentives of NCPA. As service providers to NCPA's members - both NCPA and Enron's existence depends upon providing high levels of service at the lowest possible cost to maintain customer satisfaction.
7 8		• Ex. SNO-874 This Enron spreadsheet contains details of profit sharing between Enron and NCPA in NP15 in October of 1999.
9		14. Las Vegas Cogeneration
10	Q.	Did Dr. Acton also miss important evidence relating to Enron's relationship
11		with Las Vegas Cogen ?
12	A.	Yes. He missed, for example, the following:
13 14 15 16		• Ex. SNO-525 This is a transcript of a trader phone conversation between Enron and Las Vegas Cogen. Enron convinces Las Vegas Cogen to falsify a reason for shutting down a power plant. They agree to act as if it is for maintenance reasons, and to keep it "a word of mouth kind of thing."
17 18 19		• Ex. SNO-133 Enron's Temporary Data Sheet – August 2000 indicates a verbal contract with Las Vegas Cogen to receive a 20% net profit with up to 50 megawatts scheduled firm with non-firm transmission.
20 21 22 23		• Ex. SNO-865 This document is a 2000 Performance Review for Enron trader Les Rawson. Among the achievements listed are "daily management of four generation profit sharing transactions," one of which was with Las Vegas Cogen.
24 25 26 27		• Ex. SNO-881 This document contains Enron Service Book with monthly revenue statements on several services customers, including Las Vegas Cogen, from August of 1999 through November of 2000. It has documentation of equity sharing.
28 29 30		• Ex. SNO-913, slide 5, shows LV Cogen under the heading "Generation Management," and indicates Enron is an "economic decisionmaker" for LV Cogen:

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JOHN FORNEY: [laughs] But um, anyway, ah, what - what they're going to do is they're ah - the guy responsible for making these sales is going to call me at 5:30 in the morning and, um, he's going to call Nevada Power, just like, ah, LV, and ah, see if they want, you know, to buy the energy. Probably they want, and so we need to have an idea of what the market's going to bear and your know, guide'em just like LV recommends, you know, PX in the morning Sunday, and Ex post in the afternoon or whatever they're going to do.

MIKE: OK.

JOHN FORNEY: You know, and just handle that and make sure it goes well for the first day, and it's probably be based on the same formula, 50/50 up-side plus the generating cost plus O & M and ah, you know, transmission charges on, ah, Nevada Power.

(p.3)

• Ex SNO-890 Demonstrates that Enron performed an asset management service for Las Vegas Cogen:

3865119v1

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EX. SNO-822 Page 79 of 94

	E		th America <i>Services</i>	l	
	Existing Net	work/Servi	ices/Platform	Customers	
Existing Customer /Type	Load/Res Bal Asset Mgmt	CA Access/ Settlement	Transaction Management	Incremental Commodity	Total Value
El Paso	\$15,000/Mo	\$.50/Mwh	Yes	\$??	\$1,000,000
Valley	x	x	?	Yes	
CFE	1	\$500,000		Yes	\$500,000
Glendale	1	x			\$250,000
LVCogen	x	x		L	
Powerex		x			
Plains	1	x			
Puget		x			
Tosco	1	x		x	

1 2

9

10

12

3 Q. What was Dr. Acton's conclusion concerning Las Vegas Cogeneration?

4 A. Dr. Acton concludes:

Many of these documents were ordinary confirmation sheets for what appear to be traditional sales and purchases of energy. I am not aware of any agreements between Enron and LVC that gave Enron substantial control or decision-making authority over the assets of LVC, or allowed them to work in concert to engage in Gaming Practices or anomalous behavior.

11 (Ex. ENR-1, p. 17)

13	Q .	Was	Dr.	Acton	correct?
1.5	×٠	1140	D1 .	Acton	correct.

14 A. Clearly not. We not only know that Enron characterized the relationship as

- 15 "Generation Management," (Ex. SNO-913, slide 5) but we even have a recorded
- 16 trader phone conversation wherein Enron directed Las Vegas Cogen to shut down
- 17 a plant, under false pretenses, at a time when a system emergency occurred. (Ex.

18 SNO-525)

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1		15. Valley Electric Authority
2	Q.	Has Dr. Acton also missed evidence regarding Enron's unreported
3		relationship with Valley Electric?
4	A.	Yes. He missed the vast majority of the evidence, including, for example, the
5		following:
6 7 9 10 11 12 13		• Ex. SNO-76 Enron Real Time Services Handbook, includes counterparty- specific instructions to educate inexperienced traders on how to carry out Enron's schemes. It even specifies the specific products traded, transmission lines that were used by certain partners to initiate a sequence of gaming opportunities (e.g., with "High RT Prices"), and profit-sharing arrangements from this collusion. This document contains a section entitled "Valley Electric Real-Time "Fat Boy"" that provides details enabling Enron traders to carry out the fraudulent schedules.
14 15 16 17		• Ex. SNO-881 This document contains Enron Service Book with monthly revenue statements from August of 1999 through November of 2000 demonstrating that Enron had an equity sharing agreement with Valley Electric.
18 19 20 21		• Ex. SNO-835 This John Forney document gives Enron traders instructions for running a Fat Boy involving Valley Electric, including how to submit it in CAPS and Enpower. It goes on to give details for the calculation of monthly energy costs and re-marketing value for Valley Electric.
22 23 24 25		• Ex SNO-137 This document is a 1999 Performance Review of Enron trader Paul Choi, listing his various accomplishments over the year. It references a profit-sharing arrangement between Enron and Valley Electric as one of his 1999 accomplishments.
26 27		 Ex. SNO-876 This Enron spreadsheet contains details of profit sharing between Enron and Valley Electric in February of 2000.
28 29		• Ex. SNO-877 This Enron spreadsheet contains details of profit sharing between Enron and Valley Electric in February and March of 2000.
30 31		• Ex. SNO-878 This Enron spreadsheet contains details of profit sharing between Enron and Valley Electric in April of 2000.
32 33		 Ex. SNO-879 This Enron spreadsheet contains details of profit sharing between Enron and Valley Electric in May of 2000.

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1 2		• Ex. SNO-880 This Enron spreadsheet contains details of profit sharing between Enron and Valley Electric in June of 2000.
3		16. Public Service Company of New Mexico
4	Q.	Did Dr. Acton also miss evidence regarding Enron's unreported relationship
5		with PNM?
6	A.	Yes. For example, Ex. SNO-894 is an Enron email from Bill Williams to the
7		Portland Shift, entitled "PNM Parking for Monday." It provides details of a
8		Parking arrangement with PNM and states their profit sharing arrangement.
9		17. Powerex
10 11	Q.	Has Enron produced any written agreement memorializing a profit sharing
12		arrangement between Enron and Powerex?
13	A.	No, but there is a wealth of evidence demonstrating that Enron worked in concert
14		with Powerex to carry out market manipulation schemes. This relationship, to my
15		knowledge, was never reported by Enron to FERC.
16	Q.	What type of information related to Enron's relationship with Powerex did
17		Dr. Acton overlook in his testimony?
18	Α.	He missed, for example, the following evidence:
19		
20 21 22		 Ex. SNO-838 This is a page from an unidentified Enron trader's handwritten notes. It has notes on the Ricochet scheme that include the notable line: "PowerX – King of Ricochet."
23 24 25		• Ex. SNO-765 This PowerPoint presentation by Seabron Adamson (an economist who worked for Enron at the time) contains a detailed examination of the Project Stanley scheme. Project Stanley involved a

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1 2	market sharing agreement between Enron and Powerex, clearly constituting a partnership.
3 4 5 6 7 8	• Ex. CP-88 This is a transcript of Enron trader tapes, including a number of calls to Powerex as part of Project Stanley. The following conversation is between John Lavorado and Bill Greenizan of Enron and Dan O'Hearn of Powerex. The Powerex trader's reluctance to have this conversation on a recorded phone call shows that he understood its questionable legality and yet wanted to go through with the market manipulation scheme.
9	JOHN: Yeah but I mean the Pool price is 200 right now
10	DAN: Yeh but it won't be by then
11 12	JOHN: I can assure you it won't be by then if I have your 200 megawatts
13	DAN: Uh can you guarantee me that
14	JOHN: No
15 16 17	DAN: Well there you go. You will have to talk to me on an untaped line. Um yeh I don't know if we are going to do this today
18	
19 20 21	And
22	BILL: Hi Valerie, its Bill calling.
23	VALERIE: Yeah
24	BILL: No problems for hour ending 15 it's all going to flow
25	VALERIE: You are rigging the market are you (laughter)
26	BILL: Its a gong show
27 28	VALERIE: You good boy. I'm proud of you man. You make us proud
29	BILL: (laughter) Thanks Valerie. (laughter)
30	
31	
32 33	And
34 35 36	JEFF: Oh my God. Well that's so finally you guys, you and Powerex are, like, getting to together to screw Alberta, basically.
37	BILL: Yeah, yeah.
38	

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1 2	(Ex. SNO-914, pp. 32-33)
3 4	• Ex. SNO-313. The following trader transcript is of a call Mike Driscoll of Enron made to find a counterparty to help launder his NOB Death Star:
5 6	MIKE: That's all right. I got some stuff comin' out of the ISO that I need to send south, but BPA don't – doesn't allow that.
7	LEE: I understand.
8	MIKE: So –
9	LEE: You gotta bring it up here and sink it first.
10 11 12	MIKE: Yeah, and I don't know who I'm going to $br - I$ gotta find somebody to take it off the Nob for me because I don't have any transmission today to pull me off the Nob.
13 14	LEE: There's only one person I can think of to do that for you.
15	MIKE: PowerEx.
16	LEE: You got it.
17	MIKE: I know, and they charge an arm and a leg for it.
18	LEE: And – and their first-born.
19	
20 21 22	• Ex. SNO-314 The following trader transcript is of a call Mike Driscoll of Enron made to Powerex (shortly after the conversation shown above) in an attempt to set up a Death Star:
23	MIKE: Hey, Megan.
24 25	PERSON 2: Hey, Mike, um, yeah, we should be able to do that, no problem
26	MIKE: OK.
27	MEGAN: ah, so it's 13 through 17.
28	MIKE: Ten megawatts.
29 30	MEGAN: Ten megawatts coming out from the ISO and sinking with LA?
31 32	MIKE: Yup, and ah, let's do 130 and 100 on the price, would that work?
33	MEGAN: Ah, 130 and 100, that will work fine.
34	MIKE: Just a 30 dollar difference.
35	MEGAN: Yeah, for sure. Um, and ah, ten megawatts, was it?
36	MIKE: Yup?
37	MEGAN: That was 13 through 17.

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and the second second

1	MIKE: Great, thanks, Megan
2	MEGAN: We'll throw her in. Thanks.
3	MIKE: Bye.
4	MEGAN: Bye.
5	
6 7	• Ex. SNO-889 This Enron document lists the accomplishments of real time trader Mike Driscoll. Among the accomplishments listed:
8 9 10	Helped bring Powerex hour-ahead California deals to Enron's real time desk. (they offer megawatt size and we offer load service as well as adjustment bid knowledge)
11	
12 13 14	• Ex. SNO-299 This transcript is of a conversation between Mike of Enron and David of PacifiCorp. It includes discussion of a Ricochet scheme involving Powerex.
15 16	MIKE: Ah, the $-$ it, ah $-$ it is definitely going to the ISO. I just talked to Powerex.
17	DAVID: It can't sink. That path won't work.
18	MIKE: Why's that?
19 20	DAVID: Cal PX was generating. They won't let somethin' ricochet in.
21	MIKE: Well? Is it actually ricochet?
22 23	DAVID: Yeah. Being pulled out of California to be ricocheted back in.
24 25 26 27 28	MIKE: Well, somebody's going to have to get squared away. Ah, we had a Bonneville earlier, but I guess that was a different path so we got $-$ for some reason we had the paths screwed up. So what could we do? You want to talk to Powerex?
29	DAVID: Who at Powerex you dealing with?
30	MIKE: Mike.
31	DAVID: And it's goin' to Powerex, huh?
32	MIKE: Yeah.
33	DAVID: All right.
34	(p.2-3)
35 36 37	• Ex. SNO-300 This is a transcript of a trader conversation between Mike of Enron and Dale of unknown affiliation, and it includes discussion of Powerex and their desire to perform a Ricochet.

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1 2		MIKE: Hey, ah, what – Powerex, ah, wants to take that to Bonneville system to BC border.
3		DALE: Will Bonneville allow it?
4		MIKE: Yeah.
5		DALE: [inaudible] too?
6 7		MIKE: They won't allow the latter, I mean, they won't allow the – the ricochet off COB anyway.
8		(p.1)
9		
10		
11	Q.	How precise was Dr. Acton's document review?
12	A.	Quite poor. Enron and Powerex had a wide range of transactions that could only
13		be called "anomalous," including an explicit market rigging project reviewed by
14		Seabron Adamson, one of Dr. Acton's colleagues at CRA. (Ex. SNO-765).
15	Q.	Dr. Acton has an evocative answer where he praises the partnerships saying
16		that:
16 17 18 19 20 21 22 23 24 25 26 27 28		that: Overall, these arrangements enhanced the ability of parties to supply electric energy and ancillary services to the California market. Generally speaking, these agreements facilitated the sale of excess generation or capacity from the City of Glendale, the City of Redding, the Colorado River Commission, and Valley Electric Association into the California markets . Enron offered marketing expertise and the benefits of economies of scale and scope in power trading. The parties were willing to pay Enron fees in exchange for these marketing services . Therefore, it is reasonable to infer that these voluntary arrangements increased the power supply by these parties into California markets in comparison with a but-for world in which the arrangements did not exist.
17 18 19 20 21 22 23 24 25 26 27 28 29		Overall, these arrangements enhanced the ability of parties to supply electric energy and ancillary services to the California market. Generally speaking, these agreements facilitated the sale of excess generation or capacity from the City of Glendale, the City of Redding, the Colorado River Commission, and Valley Electric Association into the California markets . Enron offered marketing expertise and the benefits of economies of scale and scope in power trading. The parties were willing to pay Enron fees in exchange for these marketing services . Therefore, it is reasonable to infer that these voluntary arrangements increased the power supply by these parties into California markets in comparison with a but-for world in which the
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· ... ·

1		consumers. Profit sharing arrangements for Fat Boy, Get Shorty, and other
2		schemes face the same objections as when Enron initiated the schemes on their
3		own. When an Enron trader orders Las Vegas Cogen to shut down a plant during
4		a system emergency, this clearly is not beneficial to consumers.
5	Q.	What overall conclusion should the Presiding Administrative Law Judge or
6		the Commission draw regarding Dr. Acton's analysis of Enron's
7		relationships with the identified partnership entities?
8	A.	It is quite obvious that there were gaping holes in Dr. Acton's analysis and,
9		accordingly, the conclusions he reached are untrustworthy.
10	P	rofits Estimates
10 11	P Q.	Profits Estimates When combined, what is the total amount of Enron's unjust profits that Dr.
11		When combined, what is the total amount of Enron's unjust profits that Dr.
11 12	Q.	When combined, what is the total amount of Enron's unjust profits that Dr. Acton included in his EL03-154 and EL03-180 testimony?
11 12 13	Q. A.	When combined, what is the total amount of Enron's unjust profits that Dr. Acton included in his EL03-154 and EL03-180 testimony? Approximately \$279,489.
11 12 13 14	Q. A.	When combined, what is the total amount of Enron's unjust profits that Dr. Acton included in his EL03-154 and EL03-180 testimony? Approximately \$279,489. How does Dr. Acton's estimate the unjust profits corrected by Enron
11 12 13 14 15	Q. A.	 When combined, what is the total amount of Enron's unjust profits that Dr. Acton included in his EL03-154 and EL03-180 testimony? Approximately \$279,489. How does Dr. Acton's estimate the unjust profits corrected by Enron compare to the unjust profits estimates calculated by witnesses for the FERC
11 12 13 14 15 16	Q. A. Q.	 When combined, what is the total amount of Enron's unjust profits that Dr. Acton included in his EL03-154 and EL03-180 testimony? Approximately \$279,489. How does Dr. Acton's estimate the unjust profits corrected by Enron compare to the unjust profits estimates calculated by witnesses for the FERC Trial Staff, the California Parties and Snohomish?

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S. C. S.	-\$59.896.000.00	\$59.249.367.00	\$47,787,000.00	\$622,615,489.00	\$1,007,527,510.00		Salar Salar San Salar
FERE/EV/DIC	\$10,266,857.00	\$40,488,023.00	\$31,260,917.00	\$579,095,347.00	\$995,840,015.00	\$207,337,438.00	\$7,270,696.00
CORICE	\$38,200,000.00	\$40,500,000.00	\$31,300,000.00	\$579,300,000.00	\$1,075,000,000.00		

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2		Despite all the difficulties in obtaining complete and accurate data from Enron,
3		the total estimates submitted by witnesses for the FERC Trial Staff, the California
4		Parties and Snohomish are relatively close to each other and vary within 5% of
5		the mean. The major difference is our very conservative assumption of a loss in
6		1997 based on national data rather than regional data. In total, FERC Trial Staff
7		estimated that Enron collected \$1,871,559,293, the California Parties estimated
8		that Enron collected \$1.76 billion, and Snohomish estimates that Enron collected
9		\$1,677,283,366.
10	Q.	The California Parties report net profit figures that subtract operating costs
11		associated with Western Power Trading. In your opinion, should Enron be
12		allowed to collect more than the just and reasonable costs of serving power
13		customers in the West?
14	Α.	No. I would not characterize costs incurred by Enron to carry out its criminal
15		enterprise, such as the salaries of executives that have admitted to Federal crimes
16		involving acts of electric market manipulation, as "just and reasonable."
17	Q.	Will the additional Load Shift and Get Shorty games identified in your
18		rebuttal testimony change any of your calculations in your supplemental
19		testimony?
20	A.	Yes. My calculation on page 160 line 15 of my supplemental testimony (Ex.
21		SNO-710) calculates the total profits earned on days Enron engaged in one or
22		more schemes during January 16, 1997 to June 25, 2003. This figure would be

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1		increased from \$1,355,129,960.01 to \$1,361,921,743.67 with the inclusion of
2		these additional games.
3	S	econd Supplemental Testimony of Jeffrey D. Merola
4	Q.	Have you reviewed the Second Supplemental Testimony and Exhibits of
5		Jeffrey D. Merola (Ex. CP-182)?
6	A.	Yes. In particular, I reviewed Mr. Merola's calculations regarding EPMI's net
7		profits using data provided in response to CAL-ENR-24 and Snohomish Data
8		Response SNO-ENR-272.
9	Q.	What did Mr. Merola conclude regarding EPMI's net profits?
10	A.	Mr. Merola concluded that "EPMI made approximately 1.76 billion in net profits
11		from wholesale power transactions in the Western United States between January
12		1997 and December 2, 2001." (Ex. CP-182 at p 2)
13	Q.	Did Mr. Merola make a distinction between EPMI profits that allegedly
14		involved the California market and those that allegedly did not?
15	A.	Yes. Mr. Merola's estimate of Enron's profits from the California market is
16		derived from an assumption that Enron's short term trading volumes - as reported
17		in Enron's Enpower Database - in the California market indicate the ratio of
18		profits Enron derived from the California market (Ex. CP-182 at p 8-9). Using
19		the ratio of short term trading volumes, Mr. Merola concludes that EPMI's net
20		profits in the California market were \$1.25 billion of the total \$1.76 billion net
21		EPMI profits (Ex. CP-182 at p 9-10 and Ex. CP-194).

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1	Q.	Do you agree with Mr. Merola's conclusions regarding the distribution of
2		Enron's profits with respect to the California market in Ex. CP-182?
3	A.	No. First of all, a discussion of the distribution of Enron's profits between regions
4		is best suited to the distribution phase of this proceeding. Second, Mr. Merola's
5		assumption that short term trading volumes in the California market provide a
6		ratio that can be applied to profits is incorrect because he does not take into
7		account the substantial volume of EPMI trades from long term contracts with
8		counterparties outside of California. As a result, Mr. Merola over-values the
9		profits attributed to Enron's activity in the California market. Third, Enron's own
10		accounting records, including its Trader Performance reports (Ex. SNO-906),
11		show very different regional profit figures than those calculated by Mr. Merola.
12	Q.	Do Enron's own records show that Enron's Pacific Northwest desk generated
12 13	Q.	Do Enron's own records show that Enron's Pacific Northwest desk generated the largest share of Enron's profits in the West?
	Q. A.	
13		the largest share of Enron's profits in the West?
13 14		the largest share of Enron's profits in the West? Yes. Enron arranged Western Power Trading by desks, including the Northwest
13 14 15		the largest share of Enron's profits in the West? Yes. Enron arranged Western Power Trading by desks, including the Northwest "NW" desk, California "Cali" desk, and Southwest "SW" desk. Enron has
13 14 15 16		the largest share of Enron's profits in the West? Yes. Enron arranged Western Power Trading by desks, including the Northwest "NW" desk, California "Cali" desk, and Southwest "SW" desk. Enron has provided Trader Performance reports for these desks for 1998, 2000, and 2001,
13 14 15 16 17		the largest share of Enron's profits in the West? Yes. Enron arranged Western Power Trading by desks, including the Northwest "NW" desk, California "Cali" desk, and Southwest "SW" desk. Enron has provided Trader Performance reports for these desks for 1998, 2000, and 2001, which illustrate the shares of Enron's profits attributed to each of these desks.
13 14 15 16 17 18		 the largest share of Enron's profits in the West? Yes. Enron arranged Western Power Trading by desks, including the Northwest "NW" desk, California "Cali" desk, and Southwest "SW" desk. Enron has provided Trader Performance reports for these desks for 1998, 2000, and 2001, which illustrate the shares of Enron's profits attributed to each of these desks. While it would be best to have all of the data, these three years give a good
 13 14 15 16 17 18 19 	A.	the largest share of Enron's profits in the West? Yes. Enron arranged Western Power Trading by desks, including the Northwest "NW" desk, California "Cali" desk, and Southwest "SW" desk. Enron has provided Trader Performance reports for these desks for 1998, 2000, and 2001, which illustrate the shares of Enron's profits attributed to each of these desks. While it would be best to have all of the data, these three years give a good indication of Enron's view of the breakdown of regional profits.

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- 1 hourly profits in the Trader Performance reports. Of the \$1.318 billion in profits,
- 2 48.3% was from the Northwest, 28.0% from California, and 23.7% from the

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3 Southwest.

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TOTAL MEST TRADING	59249367.08	510021023.3	832752434.7	1402022825	48.3%	28.0%	23.7%

(Ex. SNO-906)

4

6	Q.	Do Enron trader conversations confirm your conclusion that the Pacific
7		Northwest was Enron's largest profit center?
8	A.	Yes. On November 30, 2000 Stewart Rosman made the same point in a
9		conversation:
10 11 12 13 14		STEWART ROSMAN: - but, in terms of the f - the markets that we trade, California certainly should be looked at as - the Northwest's probably our most possible cen- ah, profit center, and then right after that's California. (Ex. SNO-379 p.4)
15	Q.	Do Enron's own documents also indicate that not just California, but other
16		states in the West, such as Washington, were susceptible to the California
17		electricity crisis?
18	A.	Yes. The following slide shows which states Enron viewed as most susceptible to
19		the California crisis:

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Which States Are Most Susceptible to California Crisis?

- Washington
- Oregon
- Idaho
- Montana
- Wyoming
- Nevada
- Utah
- Arizona
- Colorado
- New Mexico
- 2 (Ex. SNO-908) This document undercuts Mr. Merola's assumption that

3 California bore the largest brunt of the profits reaped by Enron during the crisis.

4 (Ex. CP-182 at p. 2)

5 Conclusion

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6 Q. Overall, how would you characterize Dr. Acton's conclusions?

- 7 A. Carefully crafted to rebut the California ISO's reports, but his arguments are
- 8 extreme and he effectively requests that FERC bless gaming practices that are far
- 9 from normal in a competitive market and jeopardize the reliability of the electric

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1		system. Electric systems are intolerant of deception and mismanagement because
2		reliability problems occur instantaneously and recovery is expensive and difficult.
3	Q.	Do you believe Dr. Acton's profit numbers reflect the "full extent" to which
4		Enron has been enriched unjustly?
5	A.	Absolutely not. Dr. Acton has attempted to correct some California ISO estimates
6		and simply dismissed other schemes entirely. His profit numbers, quite simply,
7		are vastly understated and cannot be trusted. Missing from his analysis are
8		several critical elements:
9		1. Enron was operating a pervasively fraudulent operation with a substantial
10		fraction of its resources dedicated to schemes ranging from taking advantage of
11		rounding errors in computer software on one extreme to scheduling enormous
12		amounts of energy and transmission under false pretences on the other. He would
13		have us believe that this extensive exercise was in pursuit of only \$279,489 out of
14		approximately \$1.8 billion of total earnings during 2000 and 2001. Dr. Acton's
15		assertion makes no sense because Enron likely would not have risked prosecution
16		for such a relatively fruitless criminal enterprise.
17		2. Dr. Acton overlooks the fact that Enron's accounting is the subject of
18		numerous convictions and guilty pleas. Enron's chief financial officer has
19		pleaded guilty, its accounting firm has been convicted and disbanded, and the vast
20		majority of its records seized, destroyed or lost. Even where information is
21		available, Dr. Acton has simply disregarded or overlooked documents and records
22		that are not consistent with his conclusions.

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1	3. Dr. Acton erroneously treats each scheme as if it were isolated and
2	limited, but in fact it is now clear that Enron's schemes were part of a large,
3	interconnected, and interdependent criminal enterprise aimed at distorting market
4	prices across the West. Dr. Acton also erroneously treats the schemes as if they
5	affected only the California ISO and PX markets, but it is clear that the
6	interconnected nature of the Western markets allowed Enron to extract unjust
7	profits from across the Western Interconnect and in forward markets as well as
8	spot markets. The fundamental question should not be the calculation of specific
9	settlement level values for individual transactions in the ISO and PX markets, -
10	but instead whether Enron should be allowed to enjoy the fruits of market-based
11	pricing when it so grossly abused its market-based rate privilege and failed to
12	respect the rules and regulations of the market.
13	4. Dr. Acton assumes that Enron is entitled to any profits that cannot be
14	linked to an Enron scheme. This approach does not comport with the relevant
15	standards laid down in the Commission's orders issued in this proceeding on July
16	22, 2004 and May 12, 2005 (108 FERC ¶ 61,071 & 111 FERC ¶ 61,221). As the
17	orders indicate, Enron may be precluded any profit made under all wholesale
18	power contracts that were executed in the West when Enron was in violation of
19	FERC tariffs and its own market-based rate authority. Nor is Dr. Acton's
20	approach practicable given the inherent difficulties in individually evaluating the
21	market effects or profits derived from interconnected schemes.

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1	Q.	Even assuming Dr. Acton's incredible position that little to no monetary	
2		remedy is needed in this case because Enron made little to no profits from its	
3		gaming practices and partnerships in the West were correct, do you believe	
4		the Commission should adopt a forceful, non-monetary remedy in this case?	
5	A.	Absolutely. The Commission should rescind Enron's market-based rate privilege	
6		effective as of January 16, 1997. As the Commission has already found, Enron	
7		began violating the conditions of its market-based rate privilege as early as	
8		January 16, 1997, when Enron failed to report its relationship with El Paso	
9		Electric. (El Paso Electric Co., et al., 108 FERC ¶ 61,071 (2004)). The FERC	
10		Trial Staff also has acknowledged recently that Enron's market-based rate	
11		authority should be revoked starting on January 16, 1997. (Ex. SNO-896).	
12	Q.	What profits should be allowed if Enron loses its Market Based Rate	
13		Authority?	
14	A.	None.	
15	Q.	Does this complete your rebuttal testimony?	
16	A.	Yes.	

UNITED STATES OF AMERICA BEFORE THE FEDERAL ENERGY REGULATORY COMMISSION

Enron Power Marketing, Inc. and Enron Energy Services Inc.) Docket No. EL03-180-000
Enron Power Marketing, Inc. and Enron Energy Services Inc.) Docket No. EL03-154-000
Portland General Electric Company) Docket No. EL02-114-007
Enron Power Marketing, Inc.) Docket No. EL02-115-008
El Paso Electric Company Enron Power Marketing, Inc., and Enron Capital and Trade Resources Corp.	<pre>/ Docket No. EL02-113-000)</pre>
	′ (consolidated)

Affidavit of Robert F. McCullough, Jr.

State of Oregon)

I, Robert F. McCullough, Jr., being duly sworn, depose and state that the contents of the foregoing testimony are true, accurate, and complete, to the best of my knowledge, information and belief.

Røbert F/McCullough, Jr.

SUBSCRIBED AND SWORN to before me, the undersigned notary public, this $\frac{2}{2}$ day of $\frac{1}{2}$, 2005.

NOTARY PUBLIC in and for the State of Oregon



My Commission Expires: 2/03/2006