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UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA

UNITED STATES OF AMERICA,)	Case No. CR-09-0110 (SI)
)	
Plaintiff,	)	DEFENDANT AU OPTRONICS
	)	CORPORATION'S SENTENCING
v.	)	MEMORANDUM PART TWO:
	)	APPLICATION OF THE
AU OPTRONICS CORPORATION, et al.,	)	SENTENCING GUIDELINES;
	)	CONDITIONAL REQUEST FOR
Defendants.	)	EVIDENTIARY HEARING
)	
	)	Judge: Hon. Susan Illston
	)	Date: September 20, 2012
	)	Time: 10:00 a.m.
	)	Place: Courtroom 10, 19 th Floor
)	

TABLE OF CONTENTS

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

	<u>Page</u>
I. INTRODUCTION	1
A. Baseline Volume of Commerce and Resulting Guideline Fine	1
B. Problems with the 20 Percent Presumption	5
II. THE STANDARDS GOVERNING THE GUIDELINES CALCULATION	6
III. THE VOLUME OF COMMERCE PROPOSED FOR AUO IN THE PRELIMINARY SENTENCING REPORT IS GROSSLY OVERSTATED	8
A. The PSR Cannot Be Reconciled With the Approach Taken to Calculating Volume of Commerce in Any of the Previous Sentencing Proceedings Connected to This Investigation and Endorsed by the Government in Its November 15, 2010 Letter to the Court	10
1. The Government’s Approach to Calculating Volume of Commerce in Connection with Other Crystal Meeting Attendees	10
2. The Government’s Approach to Calculating Volume of Commerce Here	11
a. Dr. Leffler Extends the Period of Alleged Overcharges Through December 1, 2006	11
b. Dr. Leffler Excludes Direct Panel Imports and All Sales of Television Panels	13
c. Dr. Leffler Extrapolates AUO’s Sales to Certain Large Customers to What He Views as the Entire U.S. Market	14
3. Dr. Leffler Does Not Use the Same Methodology Applied by the Government in the Earlier Sentencing Proceedings and Endorsed by the Government in its November 15, 2010 Letter to the Court	15
4. Dr. Robert Hall’s Additional Corrections to Dr. Leffler’s Analysis	17
a. Dr. Leffler’s Failure to Limit Affected Commerce to Panels Discussed in Crystal Meetings	17
b. Dr. Leffler’s Failure to Exclude Panels Sold to LG and Samsung and Sales to Dell after January 1, 2005	19
B. The Government Is Barred From Arguing That the Volume of Affected Commerce Should Include Any Panel Sales After January 31, 2006	19
1. Dr. Leffler’s Pre-Trial Disclosures	20
a. First disclosure	20
b. Second disclosure	21

1 c. Third disclosure22

2 2. Dr. Leffler’s Trial Testimony22

3 a. First analysis23

4 b. Second analysis24

5 c. Third analysis25

6 d. Fourth analysis26

7 3. The Jury Made No Determination of When the Conspiracy Ended28

8 4. The Government Is Judicially Estopped From Arguing That

9 Overcharges Persisted After January 31, 200629

10 a. The Government’s New Position is “Clearly Inconsistent”

11 With Its Theory at Trial31

12 b. The Government’s Position Misled the Jury31

13 c. The Government Would Derive an Unfair Advantage, and

14 AUO Would Be Severely Prejudiced, if the Government is

15 Not Estopped31

16 d. There is No Evidence That the Government’s Abrupt

17 Change of Position is the Result of Inadvertence or Mistake32

18 5. The Sixth Amendment and Due Process Bar the Government from

19 Arguing That Overcharges Persisted After January 31, 200632

20 6. The Government Has Failed to Carry Its Burden of Proof With

21 Respect to Including Panel Sales After February 1, 2006 in the

22 Volume of Affected Commerce34

23 C. The Volume of Affected Commerce Must Be Limited to Panel Sales for

24 Which a Price Discussion Was Had at the Applicable Crystal Meeting36

25 1. The Courts Recognize That Sales Which Were Not Affected by a

26 Conspiracy Should Not Be Included in the Volume of Commerce36

27 2. The Government Has Not Proven That the Alleged Conspiracy

28 Affected the Sales of Non-Discussed Panels39

D. The Government Has Failed to Carry Its Burden of Proof With Respect to

Including Sales to LG and Samsung, or Panel Sales to Dell After January

1, 2005 in the Volume of Affected Commerce41

E. The Volume of Affected Commerce Must Exclude Any TFT-LCD Panels

Which Were Sold Overseas and Purportedly Were Shipped Into the United

States By Third Parties as Part of a Computer Monitor, Notebook

Computer or Television.42

1 IV. THE COURT SHOULD REJECT THE 20% PROXY FOR OVERCHARGE
 2 AND CONSUMER LOSS FROM THE GUIDELINES BOTH ON
 3 CONSTITUTIONAL AND POLICY GROUNDS, AND ADOPT AN
 4 OVERCHARGE/LOSS ESTIMATE NO GREATER THAN 1.89%43
 5
 6 A. The Guidelines’ 20% Proxy for Overcharge and Consumer Loss.....43
 7
 8 B. The Court May Disregard the Guidelines on Constitutional or Policy
 9 Grounds.....44
 10
 11 C. The 20% Proxy Was Not the Result of the Commission Acting in Its
 12 Characteristic Institutional Role, and This Case in Particular Falls Well
 13 Outside the Heartland To Which Guideline ¶ 2R1.1(d)(1) Was Intended to
 14 Apply.....45
 15
 16 1. The Origins of the 20% Proxy45
 17
 18 2. The Use of Standard Overcharge Estimates Such as the Guidelines
 19 Proxy Has Been Criticized in the Economic Literature.....51
 20
 21 3. This Case Is Well “Outside the ‘Heartland’” to Which ¶2R1.1 Was
 22 Intended to Apply52
 23
 24 D. The Guidelines’ Presumption That Discouraged Consumers Will Amount
 25 to 10% of the Volume of Commerce – Or That Consumer Loss Will Equal
 26 the Overcharge – Is Simply Wrong Absent Outlandish Factual
 27 Assumptions Not Supported Here53
 28
 1. Lost Consumer Opportunity for Consumer Products Is a Small
 Fraction of the Alleged Overcharge.....54
 2. Lost Consumer Opportunity For Overcharges on Intermediate
 Goods Is An Even Smaller Fraction of Any Overcharge56
 E. The 10% Presumptive Overcharge in the Guidelines Grossly
 Overestimates Any Harm Which Might Have Arisen From AUO's
 Conduct.....58
 1. Dr. Hall Concludes That a 10% Overcharge Can Be Ruled Out.....58
 2. The Government's Theory That the Crystal Meetings Were
 Necessary to Address Persistent Losses Defies Normal Economic
 Logic59
 3. After a Comprehensive Study of AUO’s Sales Between 2001 and
 2006, Dr. Hall Finds No Proof of Any Measurable Overcharge59
 4. The Failure of the PSR, the Government or Dr. Leffler to Identify
 Any Lasting Reductions in Output in the Purported Target-Pricing
 Conspiracy Further Supports the Conclusion That Overcharges
 Were Minimal-To-Nonexistent.....60
 5. The Recent Verdict in the Toshiba Case Further Supports Dr.
 Hall’s Conclusion That Overcharges Were Negligible, and Far
 Below 10%61

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

V. CONCLUSION.....61

ADDENDUM

A. The Volume of Affected Commerce Must Exclude Any TFT-LCD Panels Which Were Sold Overseas and Purportedly Were Shipped Into the United States By Third Parties as Part of a Computer Monitor, Notebook Computer or Television.64

1. Such Panels Are Not Part of the “Offense,” Since Harm From Third-Party Monitors and Notebooks Was Not Properly Alleged In the Superseding Indictment.....64

2. Even If Third Party Consumer Products Had Been Properly Alleged In the Indictment, the Effect on Commerce From Price-Fixing An Economic Input Cannot Be “Direct” As a Matter of Law.....66

3. The Government Has Produced No Evidence Showing That Any Effect On U.S. Commerce Arising from Sales to Consumers of Monitors and Notebooks Satisfied the Ninth Circuit Standard for a “Direct” Effect67

a. Economic Literature Does Not Support an Assumption of 100% Passthrough.....68

b. The Length and Complexity of Distribution Chains For LCD Monitors and Notebooks Would Lead to Varying Rates of Passthrough, Depending on a Variety of Factors69

c. Industry Participants Have Testified That Changes In Costs Are Often Not Fully Passed On71

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

TABLE OF AUTHORITIES

Page

Cases

Austin v. United States
509 U.S. 602 (1993)..... 57

Cole v. Arkansas
333 U.S. 196 (1948)..... 33

Davis v. Wakelee
156 U.S. 680 (1895)..... 29, 30

Dunn v. United States
442 U.S. 100 (1979)..... 33

Emich Motors Corp. v. General Motors Corp.
340 U.S. 558 (1951)..... 28, 29

Gall v. United States
552 U.S. 38 (2007)..... 7

Heckler v. Community Health Servs. of Crawford County, Inc.
467 U.S. 51 (1984)..... 30

Helfand v. Gerson
105 F.3d 530 (9th Cir. 1997) 30

In re Intel Corp. Microprocessor Antitrust Litigation
476 F.Supp.2d 452 (D. Del. 2007)..... 66, 68

In re TFT-LCD (Flat Panel) Antitrust Litig.
2010 WL 2610641, *5 (N.D. Cal. 2010) 65

Kimbrough v. United States
552 U.S. 85 (2007)..... 44, 45

Metro Industries, Inc. v. Sammi Corp.
82 F.3d 839 (9th Cir. 1996) 52

New Hampshire v. Maine
532 U.S. 742 (2001)..... 29, 30

Pabst Motoren GmbH & Co., LG, v. Kanematsu-Goshu (U.S.A.), Inc.
629 F.Supp. 864 (S.D.N.Y. 1986) 67

Pegram v. Herdrich
530 U.S. 211 (2000)..... 29

Richmond v. Lewis
506 U.S. 40 (1992)..... 57

1 *Rita v. United States*
551 U.S. 338 (2007)..... 6, 7, 45

2

3 *Rockwell Intl. Corp. v. Hanford Atomic Metal Trades Council*
851 F.2d 1208 (9th Cir. 1988) 30

4 *Russell v. Rolfs*
893 F.2d 1033 (9th Cir. 1990) 30

5

6 *Smith v. Goose*
205 F.3d 1045 (8th Cir. 2000) 33

7 *Thompson v. Calderon*
120 F.3d 1045 (9th Cir. 1997) (en banc), *rev'd on other grounds*, 523 U.S. 538 (1998) 33

8

9 *Twentieth Century Fox Film Corp. v. Goldwyn*
328 F.2d 190 (9th Cir. 1964) 29

10 *United Phosphorus, Ltd. v. Angus Chemical Co.*, 131 F.Supp.2d 1003 (N.D. Ill. 2001) 66, 67

11 *United States v. Andreas*
216 F.3d 645 (7th Cir. 2000) 37, 38

12

13 *United States v. Bajakajian*
524 U.S. 321 (1998)..... 57

14 *United States v. Bertling*
611 F.3d 477 (8th Cir. 2010) 33

15

16 *United States v. Booker*
543 U.S. 220 (2005)..... 32, 44

17 *United States v. Brika*
487 F.3d 450 (6th Cir. 2007) 32

18

19 *United States v. Carper*
659 F.3d 923 (9th Cir. 2011) 44, 45

20 *United States v. Carty*
520 F.3d 984 (9th Cir. 2008) 6, 7

21

22 *United States v. Chavez-Vernaza*
844 F.2d 1368 (9th Cir. 1987) 13

23 *United States v. Container Corp. of America*
393 U.S. 333 (1969)..... 46

24

25 *United States v. Curry*
461 F.3d 452 (4th Cir. 2006) 33

26 *United States v. Dorvee*
616 F.3d 174 (2d Cir. 2010) 45

27

28 *United States v. Du Bo*
186 F.3d 1177 (9th Cir. 1999) 65

1 *United States v. Garner*
490 F.3d 739 (9th Cir. 2007) 57

2

3 *United States v. Giordano*
261 F.3d 1134 (11th Cir. 2001) 38, 39

4 *United States v. Hayter Oil Co., Inc. of Greeneville, Tennessee*
51 F.3d 1265 (6th Cir. 1995) 36, 37, 39

5

6 *United States v. Henderson*
649 F.3d 955 (9th Cir. 2011) 45

7 *United States v. Higgs*
353 F.3d 281 (4th Cir. 2003) 33

8

9 *United States v. Ibrahim*
522 F.3d 1003 (9th Cir. 2008) 30

10 *United States v. Liquidators of European Federal Credit Bank*
630 F.3d 1139 (9th Cir. 2011) 30

11

12 *United States v. LSL Biotechnologies*
379 F.3d 672 (9th Cir. 2004) 67, 68, 71

13 *United States v. Mitchell*
624 F.3d 1023 (9th Cir. 2010) 44

14

15 *United States v. Pike*
473 F.3d 1053 (9th Cir. 2007) 7

16 *United States v. SKW Metals & Alloys, Inc.*
195 F.3d 83 (2nd Cir. 1999) 37

17

18 *United States v. Staten*
466 F.3d 708 (9th Cir. 2006) 7

19 *United States v. Treadwell*
593 F.3d 990 (9th Cir. 2010) 7, 8

20 *United States v. Williams*, 624 F.3d 889, 894-95 (8th Cir. 2010)..... 13

Statutes

22 15 U.S.C. § 6a 52, 64

23 U.S.S.G. § 2R1.1 43, 44, 52, 53

24 U.S.S.G. § 2R1.1(d)(1) 1, 9, 43, 64

25 U.S.S.G. § 8C2.4(a) 8, 64

26 U.S.S.G. § 8C2.4(d) 8

27 U.S.S.G. § 8C2.5(g) 17

28

Other Authorities

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

Connor, John M. and Yuliya Bolotova (2006) “Cartel Overcharges: Survey and Meta-Analysis,” *International Journal of Industrial Organization*, Vol. 24..... 51

De Roos, Nicolas (2006) “Examining Models of Collusion: The Market for Lysine,” *International Journal of Industrial Organization*, Vol. 24, p. 1087..... 40, 60, 61

Gregory J. Werden and Marilyn J. Simon, “Why Price Fixers Should Go to Prison,” 32 *Antitrust Bull.* 917 (1987)..... 46

Harrington, Joseph E. (2006) “How Do Cartels Operate?” *Foundations and Trends in Microeconomics*, Vol. 2..... 40

John M. Connor and Robert H. Lande, “How High Do Cartels Raise Prices? Implications for Optimal Cartel Fines,” 80 *Tul. L. Rev.* 513, 524-25 (2005)..... 45, 46, 47

Local Criminal Rule 32-7(a), United States District Court for the Northern District of California 13

Mark A. Cohen and David T. Scheffman, “The Antitrust Sentencing Guideline: Is the Punishment Worth the Costs?” 27 *Am. Crim. L. Rev.* 331, 347-48 (1989)..... 46, 47, 55

OECD, “Roundtable on the Quantification of Harm to Competition by National Courts and Competition Agencies – Background Note by the Secretariat (October 7, 2011)..... 52

Sannikov, Yuliy and Andrzej Skrzypacz (December 2007) “Impossibility of Collusion under Imperfect Monitoring with Flexible Production,” *The American Economic Review*, Vol. 97, No. 5, p. 1795..... 40, 61

U.S. Fed. Trade Comm’n, Economic Report on the Baking Industry (1967) 46

United States Sentencing Commission: Unpublished Public Hearings, 1986 volume, July 15, 1986 Hearing..... 46

1 **I. INTRODUCTION**

2 The calculation of a base fine under the Federal Sentencing Guidelines starts
3 with a seemingly simple formula: “In lieu of the pecuniary loss . . . use 20 percent of
4 the volume of affected commerce.” U.S.S.G. § 2R1.1(d)(1). The PSR simply adopts
5 the Government’s position on both portions of this calculation. In this brief, we
6 discuss important flaws in the Presentence Report’s (“PSR”) handling of these two
7 critical issues.
8

9 **SUMMARY OF ARGUMENT**

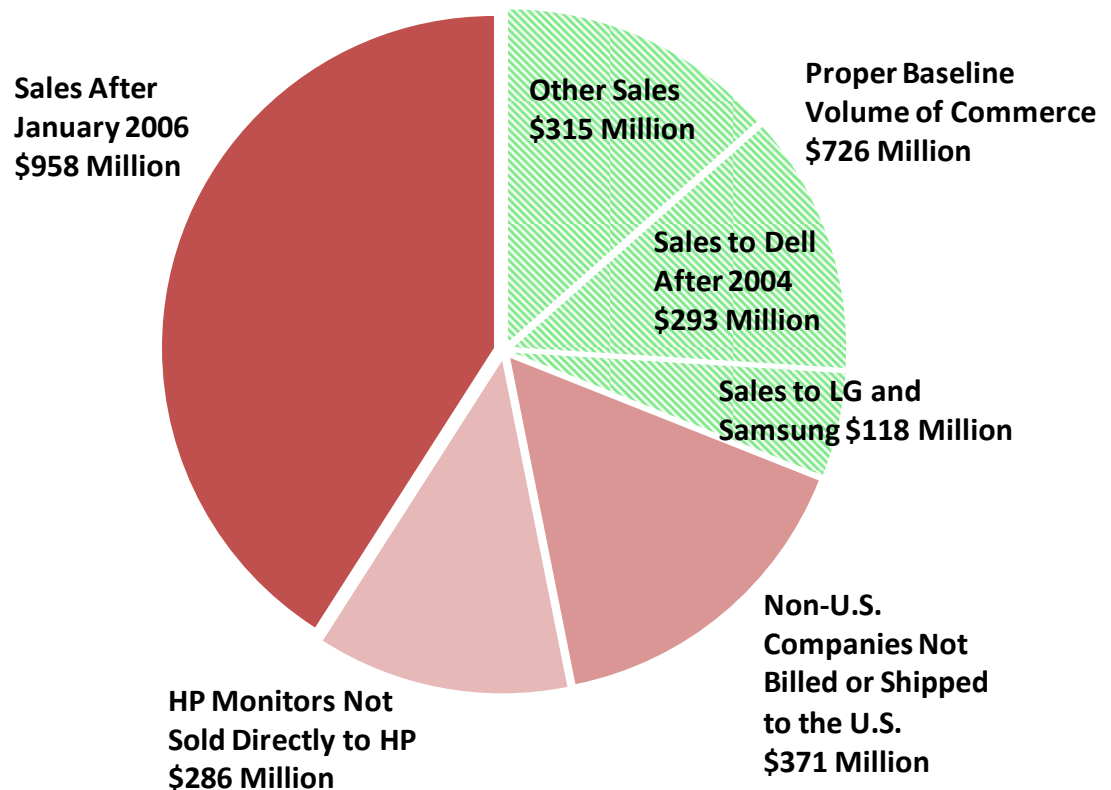
10 **A. Baseline Volume of Commerce and Resulting Guideline Fine**

11 The affected volume of commerce (“VOC”) calculation offered by the
12 Government and adopted by the PSR is \$2.34 billion, based on calculations
13 developed by Dr. Keith Leffler, the economist expert for the government. This
14 calculation, which was never placed before or ratified by the jury, is triple what it
15 should be, even as a baseline starting point, because the Government has now
16 forsaken—indeed, apparently forgotten—both the theory on which it tried this case
17 and the approach it took to calculating the VOC in the sentencing hearings for LG
18 Display, Chi Mei Innolux Display, Chunghwa Picture Tubes and HannStar Display,
19 all of whom attended the Crystal Meetings, just as defendant AU Optronics
20 Corporation (“AUO”) did. Indeed, the Government confirmed and endorsed the
21 approach it used in the criminal matters in a November 15, 2010 letter to this Court
22 in the related civil matters.
23
24
25

26 The pie chart below visually illustrates the impact of the Government’s
27 change of position. The total pie represents the \$2.34 billion VOC proposed by the
28

1 Government. The red areas represent the respects in which the Government's VOC
 2 differs from and adds to the total VOC that would have resulted from its earlier
 3 approach. The three green shaded areas combined represent the baseline volume of
 4 commerce calculation using Dr. Leffler's data and the Government's earlier
 5 methodology, totaling \$726 million when all relevant customers are included and
 6 \$315 million when LG, Samsung, and post-2004 sales to Dell are excluded.
 7

8 **Breakdown of Government's Volume of Commerce Calculation**



1 The Guideline fine ranges resulting from these alternative measures are
 2 summarized in the table below, which uses the 20 percent overcharge presumption¹
 3 and applies the multiplier of 2 to 4 included in the PSR.
 4

5 **Estimated Fine Ranges for AUO Adjusting Dr. Leffler's Data²**

	Baseline VOC after adjustments	VOC after eliminating LG, Samsung, and post- 2004 Dell
8 Volume of Commerce	\$726 million	\$315 million
9 ✕ 20% Presumption	\$145 million	\$63 million
10 ✕ Multiplier of 2 to 4 =		
11 Guideline fine range	\$290 – 581 million	\$126 - 252 million

12
 13 Dr. Leffler's analysis differs significantly from the Government's earlier
 14 methodology, and contains several additional errors.

15 **Flaws and Inconsistencies in the DOJ's Volume of Commerce Calculations**

16 **Flaw 1: Inconsistent Methodology:** In four previous Crystal Meeting
 17 sentencing proceedings, the Government used a three-part volume of affected
 18 commerce calculation: 1) sales shipped directly to the U.S.; 2) sales billed directly to
 19 the U.S.; and 3) sales to U.S. companies where the final consumer product is
 20 estimated to end up in the U.S. This approach was memorialized in a letter from
 21 the DOJ to this Court dated November 15, 2010.
 22
 23

24 ¹ For simplicity, we use the 20 percent presumption for this calculation, though
 25 AUO and Professor Robert Hall, AUO's economist expert, believe this is
 significantly overstated, as is described later.

26 ² Data in the table are calculated using Dr. Leffler's data sources. The
 27 estimated equivalent guideline fine range for AUO using Professor Robert
 Hall's data and the DOJ approach is \$319 – 638 million based on the baseline
 28 VOC of \$797 million and \$145 – 290 million based on the VOC of \$362 million
 after eliminating sales to Samsung, LG and post-2004 sales to Dell.

1 The DOJ now proposes to add two *additional* categories for purposes of
2 sentencing AUO, the lone remaining Crystal Meeting attendee. One category is
3 sales to non-U.S. companies where the sales were neither shipped nor billed to the
4 U.S., accounting for \$371 million of commerce. The second category is sales of
5 panels by AUO to foreign system integrators, neither shipped nor billed to the U.S.,
6 which purportedly wound up entering the U.S. as HP computer monitors,
7 accounting for another \$286 million of commerce.
8

9 **Flaw 2: Inconsistent Time Period:** The second inconsistency between Dr.
10 Leffler's \$2.34 billion calculation and the Government's earlier approach is the time
11 period Dr. Leffler uses. The government's entire case at trial—and Dr. Leffler's own
12 testimony—focused on a cartel period ending January 31, 2006. It is undisputed
13 that January 2006 was the last of the group meetings among the Crystal Meeting
14 participants where prices were discussed. Yet now the government completely
15 rejects this limitation and includes in its calculations the additional 10 month
16 period from February 1, 2006 through December 1, 2006, inflating its volume of
17 affected commerce calculation by 41%—nearly \$1 billion.
18

19
20 Correcting both flaws results in a baseline volume of commerce of \$726
21 million, less than 1/3 of the total proposed by the DOJ.
22

23 From this baseline calculation, further reductions must be made:

24 **LG/Samsung Sales:** AUO sales to co-conspirators LG and Samsung should
25 not be included in the volume of affected commerce either. LG and Samsung could
26 easily have avoided any overcharge by making the panels themselves, and the
27 volume of sales to each is much too large for these sales to be a “cover story” for the
28

1 cartel. Subtracting sales to LG and Samsung from the baseline of \$726 million
2 results in a volume of affected commerce of \$608 million.

3 **Sales to Dell after December 31, 2004:** \$293 million of the baseline volume of
4 commerce is for Dell purchases from AUO after December 31, 2004. Dell hired its
5 own expert, Dr. Mohan Rao, to study whether Dell paid overcharges on its panel
6 purchases. Dr. Rao's expert report in Dell's civil litigation with AUO finds *no*
7 *overcharge at all* on sales to Dell after December 31, 2004. Eliminating these sales
8 reduces the total volume of commerce from the baseline \$726 million to \$433
9 million, and combining this with the LG/Samsung reduction results in a baseline
10 volume of commerce calculation of \$315 million.³

13 **B. Problems with the 20 Percent Presumption**

14 The Guideline's 20 percent presumption also substantially overstates the
15 overcharge and lost consumer opportunities in this case. The Guidelines presume a
16 10 percent overcharge and a 10 percent additional harm to consumers. In practice,
17 overcharges from historical cartels studied by economists vary from zero to 50
18 percent or more—there is no “one-size-fits-all” proxy. The Guidelines state that the
19 proxy is intended to spare the Court and the parties from the purportedly expensive
20 and time-consuming process of calculating the alleged harm from case to case—*but*
21 *that work has already been done here*. AUO's experts, using a variety of well-
22 accepted techniques and basic economic logic, have found no measurable overcharge
23 in AUO's sales. In addition, in the recently concluded Toshiba civil matter, the only
24
25

26
27 ³ There are further reductions below \$315 million that are appropriate and are
28 discussed in more detail in the brief, including elimination of sales where
specific prices were not discussed and the incomplete passthrough of any
overcharge to the final consumer.

1 jury to directly address the question of the precise overcharge resulting from a
2 conspiracy involving the Crystal Meetings reached a verdict which impliedly found
3 only a 1.8 percent overcharge—much lower than the 10 percent overcharge
4 presumptively included in the Guidelines.
5

6 The second 10 percent of the Guideline presumption fails on simple economic
7 logic grounds. According to the Guidelines commentary, the additional 10%
8 represents alleged losses to consumers who supposedly would have bought the
9 product absent the overcharge. As explained in Dr. Hall's declaration,⁴ using the
10 logic taught in every economics class, the lost consumer opportunities amount to
11 approximately 1/20th of the overcharge.
12

13 II. THE STANDARDS GOVERNING THE GUIDELINES CALCULATION

14 According to the Ninth Circuit:

15 The overarching statutory charge for a district court is to “impose a
16 sentence sufficient, but not greater than necessary” to reflect the
17 seriousness of the offense, promote respect for the law, and provide just
18 punishment; to afford adequate deterrence; to protect the public; and
19 to provide the defendant with needed educational or vocational
20 training, medical care, or other correctional treatment.

21 *United States v. Carty*, 520 F.3d 984, 991 (9th Cir. 2008) (en banc).

22 In *Rita v. United States*, 551 U.S. 338, 351 (2007), the Supreme Court
23 described the limitations on the role of the Sentencing Guidelines. Although a court
24 “will normally begin by considering the presentence report and its interpretation of
25 the Guidelines,” the Court found, it may then hear arguments “that the Guidelines
26 sentence should not apply, perhaps because (as the Guidelines themselves foresee)
27 the case at hand falls outside the ‘heartland’ to which the Commission intends

28 ⁴ The final version of Dr. Robert Hall's declaration is submitted with this
briefing as Exhibit A to the Declaration of Kirk Jenkins (“Jenkins Decl.”). All
citations refer to Dr. Hall's final declaration.

1 individual Guidelines to apply . . . perhaps because the Guidelines sentence itself
2 fails to properly reflect § 3553 considerations, or perhaps because the case warrants
3 a different sentence regardless.”

4 A Guideline sentence is merely “the starting point and initial benchmark.”
5 *Gall v. United States*, 552 U.S. 38, 49 (2007). The court “may not presume that the
6 Guidelines range is reasonable.” *Id.* at 50; *see Rita*, 551 U.S. at 351. Rather, the
7 court “must make an individualized assessment based on the facts presented.” *Gall*,
8 552 U.S. at 50; *Carty*, 520 F.3d at 991.

9
10 The Government must prove any facts at sentencing to a clear and convincing
11 standard. The Ninth Circuit has held in a series of cases that where a proposed
12 sentencing enhancement would have an extremely disproportionate effect on the
13 sentence, the clear and convincing standard applies. *United States v. Treadwell*,
14 593 F.3d 990, 1000 (9th Cir. 2010); *United States v. Pike*, 473 F.3d 1053, 1057 (9th
15 Cir. 2007); *United States v. Staten*, 466 F.3d 708, 718 (9th Cir. 2006). Determining
16 the proper standard requires a court to look at “the totality of the circumstances,”
17 including: (1) whether the enhanced sentence falls within the statutory maximum
18 sentence for the crime alleged in the indictment; (2) whether the increase in
19 sentence is based upon the extent of the conspiracy; (3) whether the increase in
20 number of offense levels arising from the enhancement is less than or equal to four;
21 and (4) whether the length of the enhanced sentence more than doubles the length
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1 of the sentence authorized by the initial Guidelines range.⁵ *Treadwell*, 593 F.3d at
2 1000.

3 The PSR recommends a fine against AUO of \$500 million, (PSR Sentencing
4 Recommendation, pg. 2), five times the statutory maximum sentence under the
5 Sherman Act. Since both the PSR and the Government acknowledge that the only
6 relevant commerce under Guideline § 2R1.1 is AUO's own sales, any sentencing
7 enhancement is not based upon "the extent of the conspiracy." The volume of
8 affected commerce adopted by the PSR increases AUO's base offense level by
9 sixteen levels. (PSR, ¶ 39.) Absent the application of the volume of affected
10 commerce standard set forth in Guideline § 2R1.1(d)(1), AUO's base offense level
11 would be 12 (rather than 28 according to the PSR), and the applicable fine would be
12 far less. (U.S.S.G. § 8C2.4(d).) Therefore, the totality of the circumstances supports
13 the application of a clear and convincing standard.⁶

14 **III. THE VOLUME OF COMMERCE PROPOSED FOR AUO IN THE** 15 **PRELIMINARY SENTENCING REPORT IS GROSSLY OVERSTATED**

16 The Sentencing Guidelines provide that, for the offense of price-fixing, the
17 base fine for an organization is the greatest of "the pecuniary gain to the
18 organization from the offense," or "the pecuniary loss from the offense caused by the
19 organization, to the extent the loss was caused intentionally, knowingly, or
20 recklessly." U.S.S.G. § 8C2.4(a). With respect to price-fixing, the Guidelines
21
22
23
24

25 ⁵ One other factor noted by the court in *Treadwell* and other cases is
26 inapplicable here, since the PSR points to no facts in support of enhancement
27 of AUO's sentence which would create new offenses requiring separate
28 punishment. *Id.*

⁶ AUO adopts the arguments set forth by its co-defendants with respect to this
issue as well.

1 provide that in lieu of pecuniary loss, “use 20 percent of the volume of affected
2 commerce.” U.S.S.G. § 2R1.1(d)(1).

3 The PSR finds that the “volume of affected commerce” attributable to AUO is
4 \$2.34 billion. (PSR, ¶¶ 22, 24.) The Probation Office adopted wholesale the
5 Government’s calculations, commenting that “[t]he methodology behind their
6 calculations appear to be supported by a detailed analysis” without explaining why
7 the Government’s submission should be adopted over the detailed analysis provided
8 by the defendants through Dr. Robert Hall. (*Id.* at ¶ 24.) The Government’s
9 calculation of “volume of affected commerce” is based on the Declaration of Dr.
10 Keith Leffler, who also served as the Government’s economist witness at trial.
11

12 Dr. Leffler’s analysis of volume of commerce is erroneous for the following
13 reasons:
14

- 15 • Dr. Leffler fails to use the same approach to volume of commerce utilized
16 by the Government in every previous sentencing proceeding in connection
17 with the Crystal Meetings and endorsed by the Government in its
18 November 15, 2010 letter to this Court, thereby inflating his volume of
19 commerce calculation by \$657 million (*infra* at section III(A)(3));
- 20 • Dr. Leffler repeatedly testified, both in pre-trial disclosures and at trial,
21 that overcharges ended on January 31, 2006. Indeed, he opined that AUO
22 participated in the conspiracy during the statute of limitations period, and
23 that the Crystal Meeting companies obtained gross gains in excess of \$500
24 million, based in part upon his comparison of AUO’s margins for six
25 month periods before and after January 31, 2006. Nevertheless, Dr.
26 Leffler now testifies that overcharges persisted through December 1,
27 2006, inflating his volume of commerce calculation by \$958 million (*infra*
28 at sections III(B)(1)-(2));
- Despite having testified at trial that the effectiveness of a target pricing
conspiracy depends on the degree to which the purported target price was
achieved for a particular type of panel, Dr. Leffler includes *all* panel sales
between 12.1 and 30 inches listed in the Superseding Indictment in his
volume of commerce, whether or not such sales occurred during a month
where the size and type were the subject of price discussions at the

1 relevant Crystal Meeting. By doing so, Dr. Leffler inflates his volume of
2 commerce calculation by \$478 million (*infra* at sections III(C)(1)-(2)); and

- 3 • Dr. Leffler includes sales by AUO to LG and Samsung, although these
4 companies would have no reason to knowingly pay overcharges, since they
5 could supply their own needs through divisions or affiliates companies at
6 competitive prices. In addition, Dr. Leffler includes sales to Dell post-
7 2004, despite the fact that Dell's own economic expert reviewed Dell's data
8 and concluded that it suffered no overcharges after December 31, 2004.
9 By including such sales in his volume of commerce, Dr. Leffler inflates his
10 volume of commerce calculation by \$411 million (*infra* at section III(D)).

11 **A. The PSR Cannot Be Reconciled With the Approach Taken to
12 Calculating Volume of Commerce in Any of the Previous Sentencing
13 Proceedings Connected to This Investigation and Endorsed by the
14 Government in Its November 15, 2010 Letter to the Court**

15 **1. The Government's Approach to Calculating Volume of
16 Commerce in Connection with Other Crystal Meeting Attendees**

17 As the Court knows, prior to trial, the other companies which attended the
18 Crystal Meetings pled guilty to criminal price-fixing and were sentenced to pay
19 various fines (with the exception of Samsung, which avoided a fine entirely as part
20 of the Government's Corporate Leniency Program). Counsel for the Government
21 summarized the Government's approach to calculating the volume of commerce in
22 those prior criminal sentencing proceedings in a letter to this Court, dated
23 November 15, 2010 and written in connection with the related civil matters:

24 As this Court is aware, three categories of LCD commerce were
25 included as "affected" commerce in the calculation of the criminal fines
26 of the pleading companies in the LCD criminal matter:

- 27 1. LCD panels directly imported into the U.S.;
- 28 2. Sales of LCD panels that were billed to or invoiced to purchasers
located in the U.S.; and
3. LCD panels purchased by foreign affiliates of U.S. companies
that were integrated into final products imported to the U.S.

The government believes that these three categories of commerce
represent harm caused to U.S. consumers by the LCD cartel.

1 (See Expert Declaration of Robert Hall, Ph.D., (“Hall Decl.”), Appendix B, for a copy
2 of this letter.)

3 Government counsel reaffirmed this approach to volume of commerce in the
4 December 15, 2008 plea hearing for LG (RT December 15, 2008 33:1-34:19
5 (describing the three categories of commerce, and noting that it is “unclear” how
6 Dell’s sales should be accounted for), and the July 30, 2010 plea hearing for
7 HannStar. (RT July 30, 2010 15:15-19 (“the United States uses a . . . three-category
8 of volume of commerce determination to determine affected U.S. sales”).
9

10
11 **2. The Government’s Approach to Calculating Volume of
Commerce Here**

12 **a. Dr. Leffler Extends the Period of Alleged Overcharges
13 Through December 1, 2006**

14 Dr. Leffler describes his task as follows:

15 I have been asked by the Department of Justice to calculate the total
16 dollar sales of the AUO LCD panels named in the AUO Superseding
17 Indictment that were incorporated into computer monitors, notebook
computers, or televisions sold in the United States . . . over the period
October 2001 through December 1, 2006.

18 (Draft Declaration of Keith Leffler re Volume of Commerce (“Leffler VoC Decl.”), ¶
19 2.)⁷

20 Implicitly recognizing that using the October 2001 – December 2006 time
21 period contradicts not only Dr. Leffler’s pre-trial disclosures, but more importantly
22 his trial testimony (a point we will return to in detail below, *infra* at sections
23 III(B)(1)-(2)), Dr. Leffler offers this defense of belatedly extending the effect of the
24 conspiracy an additional ten months:
25

26
27 _____
28 ⁷ Since the Government has not provided a copy of the final version of Dr.
Leffler’s declaration to counsel for AUO, citations in this brief are to Dr.
Leffler’s draft declaration. See Jenkins Decl., Ex. B.

1 This is the period in which AUO participated in conspiratorial activity
2 including group Crystal Meetings (through January 2006) and
3 bilateral meetings (through November 2006). In my trial testimony, I
4 found that the group Crystal Meetings had a substantial effect on
5 prices. RT 3274, 3282. After those group meetings ended, the
6 conspirators during their bilateral meetings continued to exchange the
7 same kind of price information that they had exchanged in the group
8 meetings. (Citation) And during this bilateral meeting period, AUO
9 continued to rely on the price information it was receiving from its
10 conspirators when setting its own panel prices. (Citation). Therefore,
11 in my opinion, the conduct during this bilateral meeting time period
12 had at least some effect on AUO's panel prices.

13 (Leffler VoC Decl., ¶ 2, n. 1.)

14 In its August 27, 2012 letter to the Probation Office in response to the
15 tentative PSR, the Government offered this explanation of its eleventh-hour change
16 of position:

17 [W]hile Dr. Leffler's analysis at trial focused on the crystal meetings
18 and not the one-on-one meetings, his current analysis does consider
19 both the crystal meetings and the one-on-one meetings. This is
20 because his task at trial was different than his task for purposes of
21 sentencing. At trial, Dr. Leffler was answering the question of
22 whether the gains from the entire conspiracy were at least \$500
23 million, the figure used in the Indictment. Now, Dr. Leffler is engaged
24 in a more precise analysis of the volume of commerce attributable to
25 AUO from the conspiracy. In this analysis, he found it important to
26 consider all of the conspiratorial conduct.

27 (Government's August 27, 2012 Letter to Probation Office, p. 3.)

28 Nonsense. Dr. Leffler's stated task was exactly the same before trial, on the
witness stand and now: to estimate gross gain. Indeed, in his second pre-trial
disclosure, Dr. Leffler repeatedly refers to the Crystal Meeting participants' alleged
"volume of commerce," which included only the months with group meetings where
prices were discussed, ending January 2006. (Leffler Supplemental Disclosure, p.
1.) The Government fails to acknowledge that a fundamental part of Dr. Leffler's
opinion on both AUO's liability and gross gain, as will be discussed below, was a
comparison between AUO's purported margins in the six months prior to January

1 31, 2006 and the period of March 1 – August 31, 2006: two periods which Dr. Leffler
2 has now abruptly decided were both within the conspiracy period, even though the
3 Government failed to offer any evidence that agreements were made during those
4 months. (RT 3370:18-25; Leffler VoC Decl., ¶ 2.)

5
6 In early June, Deputy Assistant Attorney General Scott Hammond spoke at
7 the Third Annual Chicago Forum on International Antitrust Issues. There, he
8 promised to seek a “very heavy sentence” in this case, warning that the Government
9 might seek as much as \$1 billion each from AUO and AUOA.

10
11 Which – not coincidentally – is exactly what has now happened. The
12 Government’s approach to sentencing herein is the worst kind of result-oriented
13 gamesmanship, beginning with a suggested fine designed to dissuade any other
14 accused defendant from ever going to trial again and jury-rigging the analysis to
15 come to the desired result, based on nothing more than the *ipse dixit* of a
16 remarkably “compliant” expert witness.⁸

17
18 **b. Dr. Leffler Excludes Direct Panel Imports and All Sales of
Television Panels**

19 Dr. Leffler begins his analysis by first excluding all panels directly delivered
20 into the United States from his volume of commerce calculation:
21

22
23 ⁸ The Justice Department’s tendency to litigate this case in the press
24 continues. On August 31, 2012 – hours *before* the final PSRs were
25 distributed to counsel – a story appeared in the online market publication
26 MLex, disclosing the contents of the PSRs, and emphasizing that the
27 Probation Office had recommended that defendants Mr. Chen and Dr. Hsiung
28 be sentenced to the statutory maximum ten-year prison terms. PSRs are
court documents, not public documents. *See United States v. Williams*, 624
F.3d 889, 894-95 (8th Cir. 2010); *United States v. Chavez-Vernaza*, 844 F.2d
1368, 1374 (9th Cir. 1987). PSRs must remain confidential unless a court
order expressly provides otherwise. Local Criminal Rule 32-7(a), United
States District Court for the Northern District of California.

1 For my trial testimony, I calculated the direct imports of AUO
 2 Indictment panels into the United States of \$154 million. See trial
 3 exhibit 776. However, because I do not know how much of these
 4 panels might be included in the final product calculations, I have not
 5 included any additional volume of commerce from such directly
 6 imported panels.⁹

(Leffler VoC Decl., ¶ 3, n. 2.)

7 Dr. Leffler excludes all sales of television panels from his calculations as well:
 8 “I have not found data sufficient to make a reliable estimate of those sales.” (*Id.*, ¶
 9 3.)

10 **c. Dr. Leffler Extrapolates AUO’s Sales to Certain Large
 11 Customers to What He Views as the Entire U.S. Market**

12 According to Dr. Leffler, his volume of commerce calculation is based on data
 13 from five large U.S.-based producers of computer monitors and notebooks: Dell, HP,
 14 Apple, Gateway and IBM. (*Id.*) First, Dr. Leffler uses data files obtained from Dell,
 15 HP and Apple to estimate the total value of panels sold by AUO which were
 16 eventually resold in the United States by a third party as part of a monitor or
 17 notebook. (*Id.* at ¶¶ 5, 15, 26.) Dr. Leffler was unable to find any AUO sales to
 18 Gateway or IBM during the relevant period,¹⁰ so his estimate for Dell, HP and Apple

21 ⁹ It is worth noting for purposes of assessing Dr. Leffler’s credibility as an
 22 economic expert that the first sentence of this paragraph is “artfully
 23 phrased,” to put it mildly. Dr. Leffler never testified on the stand that AUO
 24 shipped any particular amount of panels into the United States; on the
 25 contrary, he repeatedly denied ever having made such a calculation. (RT
 26 3665:3-22.) AUO pointed this omission out in its post-trial motion (Dkt. No.
 27 786 (Defendants’ Joint Motion) at 21); the Government conceded the
 28 omission, but merely maintained that it made no difference. (Dkt. No. 790,
 (Govt. Opposition to Post-Trial Motions) at 30.) Regardless of who might
 have made the calculations contained in “trial exhibit 776,” Dr. Leffler
 neglects to mention in his declaration that Exhibit 776 was never admitted
 into evidence at trial.

¹⁰ In fact, AUO made modest sales to Gateway and IBM during the relevant
 period. These sales are included in the volume of commerce estimate
 provided by AUO’s economic expert, Dr. Robert Hall. (Hall Decl., ¶ 43, n.25.)

1 became his estimated commerce for the five largest producers combined. (*Id.* at
2 ¶29.)

3 According to Dr. Leffler, these five producers accounted for 62% of all PC
4 sales to the United States during the relevant period. (*Id.* at 31.) Dr. Leffler
5 assumed that AUO's sales to the producers accounting for the remaining 38%
6 mirrored the data he had for Dell, HP and Apple (despite believing that he had
7 already found two companies – Gateway and IBM – who purchased nothing from
8 AUO). (*Id.*) Therefore, he simply scaled up his Dell/HP/Apple estimate and divided
9 his combined Dell/HP/Apple estimate by 0.62, arriving at the \$2.34 billion total
10 adopted by the PSR. (*Id.* at ¶¶ 31-32.)

13 **3. Dr. Leffler Does Not Use the Same Methodology Applied by the**
14 **Government in the Earlier Sentencing Proceedings and**
15 **Endorsed by the Government in its November 15, 2010 Letter to**
16 **the Court**

17 In reaching the \$2.34 billion total, Dr. Leffler's analysis diverges from the
18 Government's earlier approach to calculating volume of commerce in two important
19 ways.

20 First, in the earlier cases, the Government excluded panel sales to non-U.S.
21 companies that were neither billed nor shipped to the United States. Dr. Leffler
22 ignores that limitation, scaling up his estimate for Dell, HP and Apple to the entire
23 U.S. market. In doing so, he fails to recognize that some portion of the remaining
24 38% of the U.S. market is accounted for by sales to foreign companies that were not
25 billed or shipped to the United States. (Hall Decl., ¶¶ 10, 42-43.) Dr. Robert Hall
26 corrected Dr. Leffler's error, determining that both sales by eight U.S.-based
27 companies and sales by numerous non-U.S. based companies that were billed or
28

1 shipped to the U.S. are included in that 38% market share, while the remaining
2 market share is accounted for by foreign companies who would not have been
3 included in the Government's approach to volume of commerce in the earlier
4 sentencing proceedings. (*Id.* at ¶¶ 10, 41.) Eliminating the portion of Dr. Leffler's
5 estimate accounted for by non-U.S. based companies' sales that were neither billed
6 nor shipped to the U.S. reduces his estimated volume of commerce by \$371 million.
7 (*Id.*, ¶¶ 44.)

8
9 Second, because Dr. Leffler used data from customers rather than AUO's own
10 sales data, he included \$286 million which he views as sales of monitor panels to
11 HP. (*Id.*, ¶¶ 46-47.) However, AUO's sales records reflect that AUO sold *no*
12 monitor panels at all to HP during the relevant period. (*Id.* at ¶ 46.) The sales
13 which Dr. Leffler relies upon were shipped and invoiced to foreign-based systems
14 integrators, not to HP. (*Id.*) Therefore, pursuant to the approach taken by the
15 Government in conjunction with sentencing every other Crystal Meeting attendee
16 and endorsed in the Government's November 15, 2010 letter, these sales must be
17 excluded, reducing Dr. Leffler's volume of commerce by a further \$286 million. (*Id.*,
18 ¶¶ 46-47.)

19
20
21 Dr. Hall has used the method applied by Dr. Leffler in his sentencing
22 declaration to recalculate the volume of commerce applicable to each of the
23 previously sentenced Crystal Meeting companies. Use of the "Leffler method" in
24 those earlier proceedings would have greatly increased each company's volume of
25 commerce, and therefore the Guidelines fine range. (Hall Decl., ¶¶ 75-76, Figures 3
26 & 4, and Tables H1 and H2.) When any consistent methodology for calculating
27
28

1 volume of affected commerce is used, AUO ranks in the middle of the Crystal
2 Meeting companies. (*Id.*, ¶¶ 75-77.)

3 The Sentencing Guidelines provide for various accommodations to an
4 organizational defendant who pleads guilty to price-fixing. Most prominently, such
5 an organization's culpability score may be reduced by anywhere from one to five
6 points. U.S.S.G. § 8C2.5(g). However, the Guidelines do *not* provide that
7 defendants who plead guilty to such violations of Section One of the Sherman Act
8 are entitled to their own individually tailored methodology for calculating the
9 volume of affected commerce under § 2R1.1. Given that the Government advocated
10 the same approach to calculating volume of commerce through at least four
11 sentencing hearings—an approach it endorsed yet again in its November 15, 2010
12 letter to the Court—the Government should be required to accept that same
13 methodology here. This adjustment reduces Dr. Leffler's proposed volume of
14 commerce from \$2.34 billion to \$726 million. (Hall Decl., ¶ 48 and Table 5.)

15
16
17
18 **4. Dr. Robert Hall's Additional Corrections to Dr. Leffler's Analysis**

19 Dr. Hall also corrected two additional problems contained *both* in Dr.
20 Leffler's calculations and in the volume of commerce methodology applied by the
21 Government in earlier actions.

22 **a. Dr. Leffler's Failure to Limit Affected Commerce to**
23 **Panels Discussed in Crystal Meetings**

24 Witness after witness at trial testified that the Crystal Meetings involved the
25 setting of a "target price" for a specific size and type of panel. (RT 660:1-2, 14-17,
26 661:6-9, 668:20-22, 669:6-8, 10-12, 670:4-6, 676:3-5, 7-19, 678:12-20, 679:5-6, 680:5-
27 16, 746:5-8; 809:1-3; 1339:7-1340:2; 1365:9-11; 1365:25-1366:7; 1368:3-8; 1373:20-
28

1 25; 1378:25-1379:6; 1379:21-1380:8; 1401:3-16; 1404:23-1405:7; 1405:9-12; 1406:15-
2 20; 1407:25-1408:7; 1434:1-5; 1457:21-24; 1458:6-10; 1459:15-25; 1752:2-7; 1763:17-
3 23; 1958:24-1959:9; 1965:21-1966:2; 1969:4-16; 1970:5-12; 3181:13-16; 3298:8-19;
4 3299:14-23; 3301:9-19; 3302:16-3303:13; 3303:23-3304:10; 3307:8-20; 3308:7-12;
5 3336:18-3337:20; 3338:2-16; 3339:22-3340:11; 3353:8-14; 3370:18-25; 3373:17-21;
6 4515:21-4516:23; 4517:7-4518:1; 4535:10-4536:5; 4563:7-4564:3; 4581:4-4582:3.)
7
8 According to Dr. Leffler, the “effect” of such an alleged conspiracy is measured by
9 the degree to which participants did or did not achieve the “target price.” (RT
10 3304:16-23; 4515:21-4516:23; 4518:16-4518:9). Nevertheless, although the
11 Government acknowledged in its opposition to AUO’s post-trial motion at least
12 some non-discussed panels “may not have been affected,” (Dkt. No. 895, 59:10-12;
13 60:3-24), Dr. Leffler fails to recognize that Guideline 2R1.1 is limited to the “volume
14 of *affected* commerce” by removing non-discussed panels from his calculation.
15

16
17 According to AUO’s economic expert Dr. Hall:

18 Given the focus on target prices and the variation in the number and
19 type of products being discussed, the reasonable economic conclusion is
20 that the cartel’s overcharges would occur among the
21 product/size/resolutions where prices were shared among rivals.

22 (Hall Decl., ¶ 33.)

23 Table 5 of Dr. Hall’s declaration reflects the appropriate deductions from Dr.
24 Leffler’s volume of commerce calculation after limiting the relevant sales to the
25 specific months and product/size/resolution where prices were discussed during
26 Crystal Meetings. (Hall Decl., p. 22, Table 5.) This adjustment reduces the volume
27 of affected commerce from \$726 million to \$248 million. (*Id.*; see *infra* at sections
28 III(C)(1)-(2)).

1 **b. Dr. Leffler’s Failure to Exclude Panels Sold to LG and**
2 **Samsung and Sales to Dell after January 1, 2005**

3 Furthermore, Dr. Hall points out Dr. Leffler’s failure to account for sales to
4 the two Crystal Meeting attendees—LG and Samsung—which were, either directly
5 or through closely affiliated companies, capable of supplying their own needs for
6 TFT-LCD panels. (Hall Decl., ¶¶ 34-35.) Dr. Leffler suggests no reason why LG
7 and Samsung would pay overcharges for panels purchased from AUO, and Dr. Hall
8 concludes that no economically rational reason exists. (*Id.*, ¶ 34.)

9 Dr. Leffler also includes as the largest single customer in his volume of
10 commerce calculation sales from AUO to Dell. But Dell’s own retained economic
11 expert, Dr. Mohan Rao, was able to find no overcharges in AUO’s sales to Dell after
12 January 1, 2005. (Expert Report of Mohan Rao, Ph.D., ¶¶ 110-111.)

13 Deducting sales to LG and Samsung reduces Dr. Leffler’s baseline volume of
14 affected commerce by \$118 million. (Hall Decl., Appendix I.) Removing all sales to
15 Dell after 2004 reduces Dr. Leffler’s calculation by a further \$293 million. (*Id.*)
16 Finally, adjusting these calculations to account for “discussed” and “non-discussed”
17 panels separately reduces the appropriate volume of affected commerce to \$150
18 million. (*Id.*) *See infra* at sections III(C)(1)-(2) & (D).

19 **B. The Government Is Barred From Arguing That the Volume of Affected**
20 **Commerce Should Include Any Panel Sales After January 31, 2006**

21 Although Dr. Leffler now opines that the effect of the Crystal Meetings
22 persisted until December 1, 2006, he repeatedly took the position, both in pre-trial
23 disclosures and at trial, that any overcharges ended ten months earlier, on January
24 31, 2006. His use of January 2006 as the cut-off date for comparing AUO’s pricing
25 and other economic data *during* the alleged conspiracy with the same data *after* the
26 and other economic data *during* the alleged conspiracy with the same data *after* the
27 and other economic data *during* the alleged conspiracy with the same data *after* the
28 and other economic data *during* the alleged conspiracy with the same data *after* the

1 alleged conspiracy was critical to his trial testimony. Having used the January
2 2006 end-date to convict AUO, neither the Government nor Dr. Leffler should be
3 permitted to pick a December 2006 end-date now in order to inflate the potential
4 fine.

6 1. Dr. Leffler's Pre-Trial Disclosures

7 Prior to Dr. Leffler's testimony at trial, the DOJ submitted three disclosures,
8 each of which stated Dr. Leffler's opinions about the end of the cartel's overcharges.

9 a. First disclosure

10 The first disclosure was dated September 13, 2011.¹¹ In this disclosure, Dr.
11 Leffler distinguished between meetings where prices were discussed (Price
12 Meetings), which ended in January 2006, and meetings where prices were not
13 discussed (Conspiracy Meetings), which ended in June 2006. He used the period
14 after June 2006 as a control period for his regression and other analyses.
15 Statements from this disclosure include:

- 17 • I refer to these as Conspiracy Meetings. These include the meetings in
18 September and October 2002, the meeting of November 2004, and the
19 meeting in February 2005. In addition, specific price discussions are
20 longer contained in the meetings notes after January 2006.¹²
- 21 • These Conspiracy Meetings periods are September – October 2002,
22 November 2004, February 2005, and February through June 2006.¹³
- 23 • The Crystal Meetings continued through at least June 2006. However, in
24 late January 2006, Samsung approached the Department of Justice
25 seeking acceptance in the Antitrust Division's Amnesty Program, and in
26 April 2006, Samsung formalized an agreement with the Department in

25 ¹¹ Notice of Expert Witness Testimony and Summary of Testimony under Rule
26 16(A)(1)(G), September 13, 2011 ("Leffler Disclosure")

27 ¹² Leffler Disclosure, ¶25.

28 ¹³ Leffler Disclosure, ¶36.

1 which it agreed to terminate its participation in conspiracy. In July of
 2 2006, LG also self reported to the Department of Justice the existence of
 3 the price fixing conspiracy and its participation. It is also of significance
 4 that the percentage of panels subject to price discussions had fallen
 5 significantly by the end of the Price Meetings period (January 2006).¹⁴

6 **b. Second disclosure**

7 The second disclosure, dated January 9, 2012,¹⁵ estimated the U.S. “volume of
 8 commerce” – Dr. Leffler’s words – for the six companies participating in the Crystal
 9 Meetings. (Leffler Supplemental Disclosure at 1.) Dr. Leffler adopted a slightly
 10 different naming convention in this disclosure. He still noted that meetings
 11 occurred through June 2006, but only calculated volume of commerce for the
 12 “relevant period” during this period, which he defined as being the 48 months
 13 (ending in January 2006) where prices were discussed, as in his initial disclosure.
 14 He described his calculation as follows:

15 From the transactional invoice data bases of the Crystal Meeting
 16 Participants, I calculate that the total worldwide sales of 12 to 30 inch
 17 LCD panels during the relevant periods of October 2001 through June
 18 2006 were \$71.8 billion.¹⁶

19 A prior footnote clarifies his use of the term “relevant periods”: “By ‘relevant
 20 periods,’ I mean those 48 months in which in my initial disclosure I concluded that
 21 LCD prices were discussed.”¹⁷

22
23
24 ¹⁴ Leffler Disclosure, ¶37.

25 ¹⁵ United States’ Supplemental Expert Disclosure Statement of Dr. Keith
 26 Leffler, January 9, 2012 (“Leffler Supplemental Disclosure”).

27 ¹⁶ Leffler Supplemental Disclosure, ¶4.

28 ¹⁷ Leffler Supplemental Disclosure, Footnote 1.

1 **c. Third disclosure**

2 The DOJ's third disclosure stating Dr. Leffler's opinions, dated January 29,
3 2012,¹⁸ again described "price discussion Crystal Meetings" ending in January 2006
4 and calculated cartel margins for the 6 and 12 month periods leading up to January
5 2006. For his post-cartel comparisons, Dr. Leffler used a number of alternative
6 dates and time periods, starting as early as February 2006 and ending as late as
7 November 2007. He described his time periods as follows:
8

9 I have also analyzed the average margins earned per panel by the
10 Crystal Meeting Participants at the end of price discussion Crystal
11 Meetings and those earned after the meetings ended. I find the
12 average margins per panel were substantially higher during the price
13 discussion Crystal Meetings period than after the Meetings ended.¹⁹

14 The footnote to the first sentence is:

15 The margins are defined for 12.1 to 30 inch panels. The margins are
16 adjusted to changes in panel sizes. I have compared both six months
17 and one year before the end of the price discussion meetings in
18 January 2006 and six months and one year from alternative end dates
19 of January, June and November 2006.

20 And the footnote to the second sentence is:

21 The margins fell by, alternatively, \$39 (7/06-12/06 re 8/05-1/06), \$37
22 (12/06-5/07 re 8/05-1/06), \$33 (12/06-5/07 re 8/05-1/06), \$31 (7/06-6/07
23 re 2/05-1/06), \$17 (12/06-11/07 re 2/05-1/06), and \$31 (2/06-1/07 re 2/05-
24 1/06).

25 **2. Dr. Leffler's Trial Testimony**

26 Dr. Leffler testified twice at trial, near the end of the DOJ's case on direct on
27 February 9th and 13th, 2012, and on rebuttal after all other witnesses on February
28 23, 2012. In his direct testimony and cross examination, Dr. Leffler testified about
four analyses that used an identified cartel ending date.

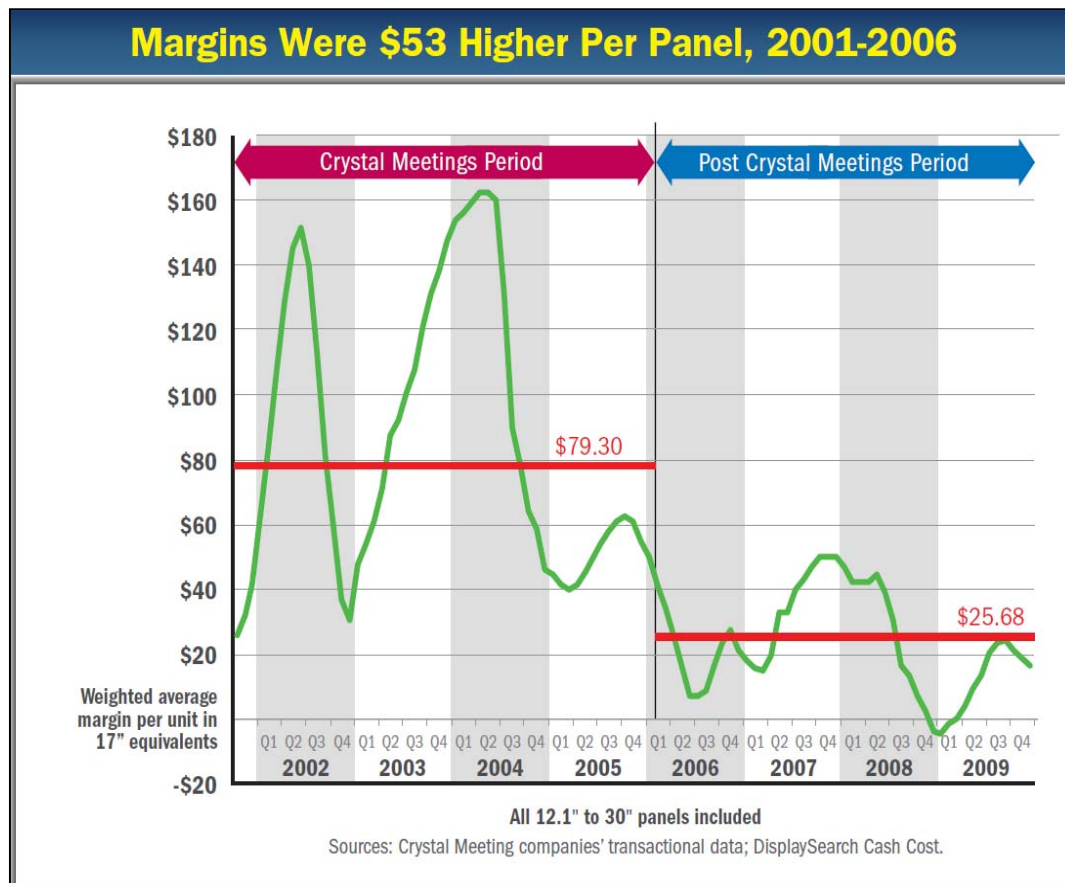
27 ¹⁸ United States' Second Supplemental Expert Disclosure Statement of Dr.
Keith Leffler, January 29, 2012 ("Leffler Second Supplemental Disclosure").

28 ¹⁹ Leffler Second Supplemental Disclosure, ¶4.

a. First analysis

Figure 1 is a demonstrative exhibit Dr. Leffler used in his testimony regarding a cartel overcharge. He compared the period through January 2006 (his “Crystal Meeting Period”) to the period thereafter and calculated a \$53 per panel difference in margins. Economists often use a benchmark analysis in calculating antitrust damages, comparing one period with anticompetitive conduct to a baseline or yardstick period without that conduct. In this exhibit, Dr. Leffler was clearly taking the position that the period free of the effect of the cartel began in February 2006.

Figure 1: Dr. Leffler’s Trial Demonstrative on 17 inch Panels, Dollar Margin per Panel



In connection with this demonstrative, he testified (emphasis added):

1 Q. What short period of time or what short periods of time did you
2 examine?

3 A. There are two ideal time periods to look at here. Because, we have
4 a date at which we first expect -- if there's an effect, we first expect the
5 effects of Crystal Meetings. And that's October, 2001. That's the first
6 month for which there were target prices. So, it's kind of like an off/on
7 switch for analysis. Then we have a second date. The second date is
8 **January, '06**. The last time at which there were any target prices set
9 was January, 06. That's like an **off switch**.²⁰

10 **b. Second analysis**

11 Figure 2 is another of Dr. Leffler's margin analyses, analyzing the six-month
12 period from August 2005 through January 2006 and comparing this to the six-
13 month period after the meetings ended, March 2006 through August 2006. He
14 testified:

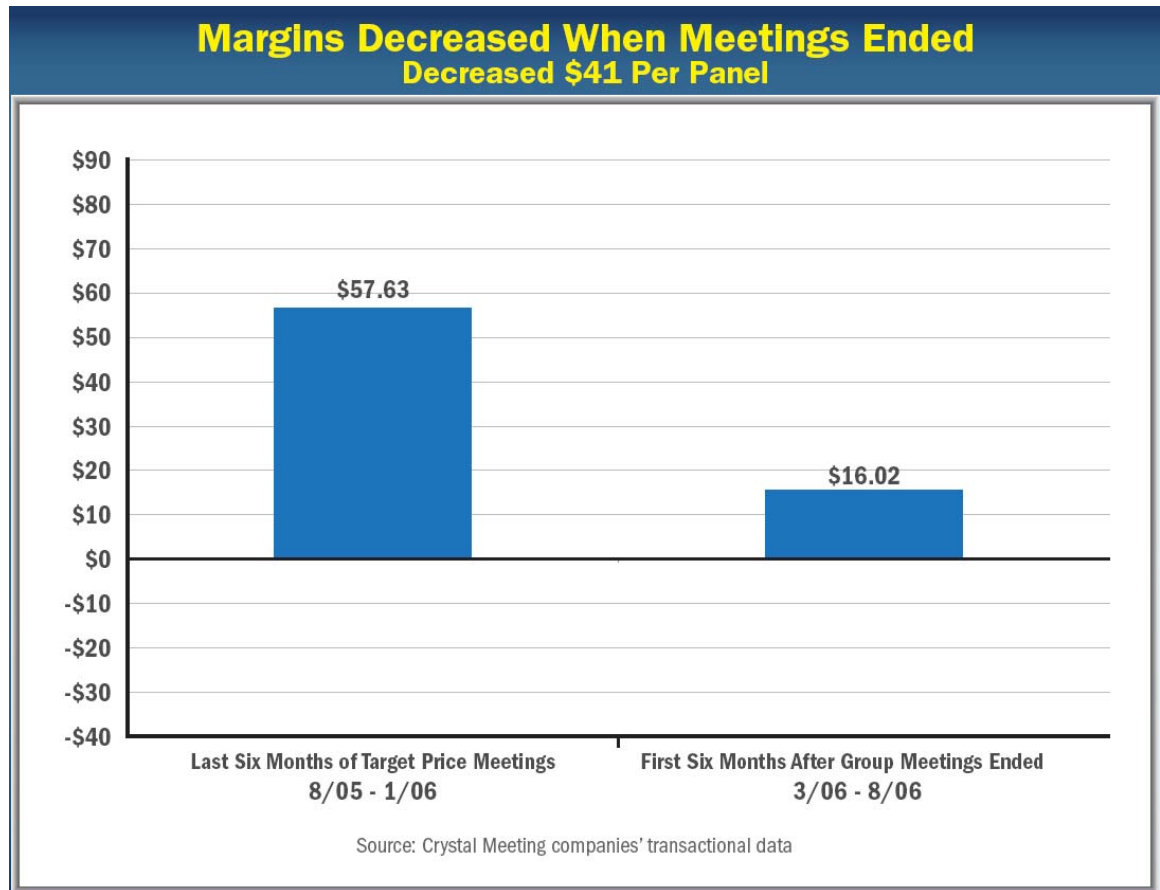
15 Q. The last type of margin analysis you conducted. It states: "Margins
16 decreased \$41 per panel when meetings ended." Does this refer to your
17 analysis of this time period, the so-called light-switch-off time period?

18 A. Yes. As I said, the last target price at a Crystal Meeting was in
19 January of 2006. And the industry changed. The Crystal Meetings
20 basically ended, and target pricing ended.²¹

21 ²⁰ Trial Testimony of Dr. Keith Leffler, 3363:4-14; 3370:18-3372:15.

22 ²¹ Trial Testimony of Dr. Keith Leffler, 3370:18-25.

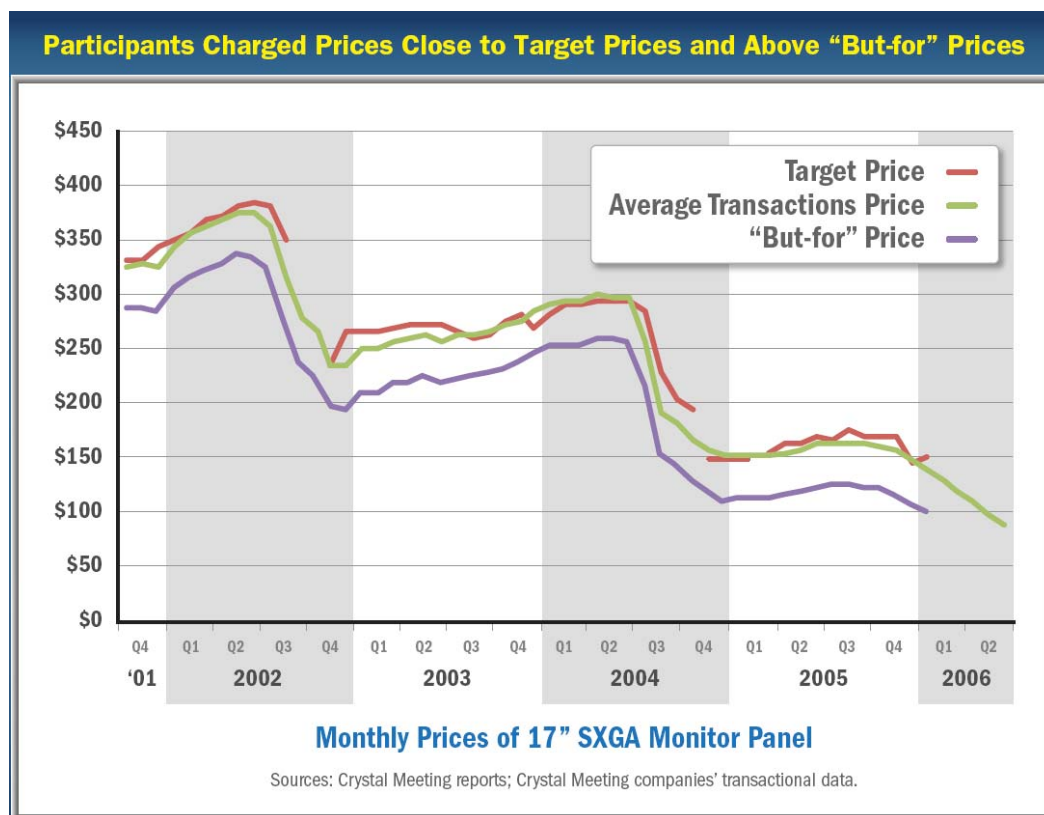
1 **Figure 2: Dr. Leffler’s Trial Demonstrative Comparing Margins per Panel during Six**
 2 **Month Periods**



c. **Third analysis**

Dr. Leffler testified about the actual prices and illustrative prices “but-for” the cartel overcharge. Figure 3 shows Dr. Leffler’s trial demonstrative exhibit that included no target prices or but-for prices after January 2006.

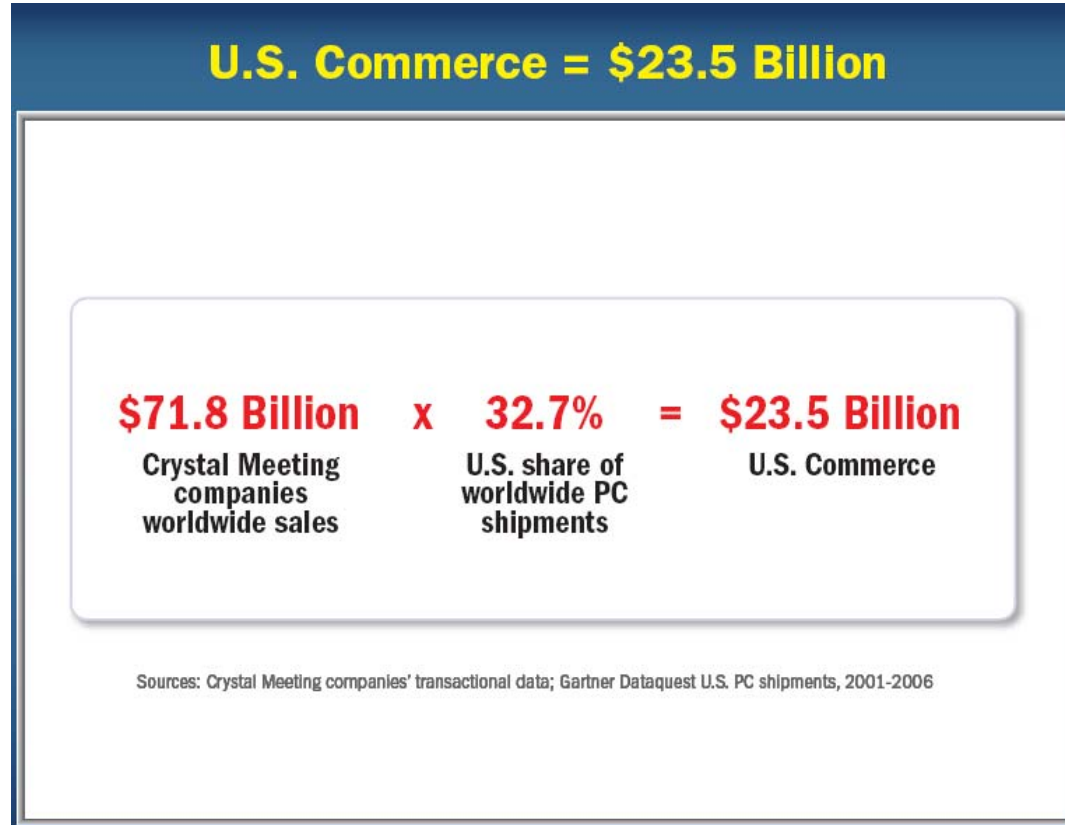
1 **Figure 3: Dr. Leffler's Trial Demonstrative on Actual and But-for Prices**



15 **d. Fourth analysis**

16 Dr. Leffler testified about a calculation of U.S. commerce associated with the
 17 six Crystal Meeting participants. He did not testify about any U.S. volume of
 18 commerce specific to AUO. Figure 4 is his demonstrative exhibit with a total of
 19 \$71.8 billion in U.S. commerce for all six companies. This amount is the same total
 20 volume calculated and presented in the second disclosure summarizing his opinions,
 21 which used the months where prices were discussed, ending in January 2006.
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1 **Figure 4: Dr. Leffler's Trial Demonstrative on U.S. Commerce for the Six Crystal Meeting**
 2 **Participants**



16 His estimate of \$71.8 billion was based on the sales data from the six
 17 companies for the months where prices were discussed, ending in January 2006
 18 (emphasis added; *sic* in original):

19
 20 So the first step that I did in that analysis was to say, "Well, let's start
 21 at the worldwide level. Let's just see the value of all of the panels
 22 produced by the six Crystal Meeting participants over the period of the
 23 Crystal Meetings." -- by which I mean October 2001 through **January**
 24 **2006**. And that is 78.8 [sic].

25 THE COURT: What was the number, sir?

26 THE WITNESS: 71.8 billion. I think I transposed.

27 THE COURT: Thank you.²²

28 ²² Trial Testimony of Dr. Keith Leffler, 3313:2-13.

1 **3. The Jury Made No Determination of When the Conspiracy**
2 **Ended**

3 The Government may attempt to justify its eleventh-hour change in its
4 position by arguing that the jury verdict necessarily means that the conspiracy
5 persisted until December 1, 2006, since that is what the Superseding Indictment
6 alleges.

7 First, any such argument is beside the point. Neither the Government nor
8 Dr. Leffler says in their sentencing submissions that they “accept the verdict” even
9 though they believe the effect of the Crystal Meetings ended ten months earlier.
10 Instead, the Government and Dr. Leffler pretend that the last year never happened,
11 failing to even acknowledge the substance of Dr. Leffler’s pre-trial disclosures and
12 trial testimony.
13

14 Second, it is simply not true that a criminal conviction for participating in a
15 Sherman Act conspiracy establishes as a matter of law all of the facts alleged in the
16 Indictment.
17

18 In *Emich Motors Corp. v. General Motors Corp.* 340 U.S. 558 (1951), the
19 corporate defendants had been criminally convicted of participating in a conspiracy
20 in restraint of trade. In the civil case which followed, the plaintiff argued that the
21 verdict estopped the defendant from challenging liability. The Supreme Court
22 made it clear that a criminal antitrust conviction does *not* establish all of the facts
23 alleged in the Indictment:
24

25 A general verdict of the jury . . . without special findings does not
26 indicate which of the means charged in the indictment were found to
27 have been used in effectuating the conspiracy. And since all of the acts
28 charged need not be proved for conviction, *United States v. Socony-
Vacuum Oil Co.*, 310 U.S. 150, 250 (1940), such a verdict does not

1 establish that defendants used all of the means charged or any
2 particular one.

3 *Emich*, 340 U.S. at 569; *Twentieth Century Fox Film Corp. v. Goldwyn*, 328 F.2d
4 190, 225-26 (9th Cir. 1964).

5 Indeed, the jury was specifically instructed that it did *not* have to determine
6 that the conspiracy continued through December 1, 2006 in order to convict:

7 The indictment charges that the alleged conspiracy began on or about
8 September 14, 2001 and continued until on or about December 1, 2006.
9 The government need not prove that the conspiracy existed on those
10 exact dates or that the conspiracy continued for the entire period
11 charged in the indictment. It is sufficient if the government proves
12 beyond a reasonable doubt that the conspiracy existed during or
13 reasonably near the time period alleged in the indictment, and that the
14 defendant joined the conspiracy some time during the period alleged in
15 the indictment and continued to be a member to a time within the
16 period of the statute of limitations, which, for purposes of this case, is
17 the period from June 9, 2005 through June 9, 2010.

18 (Dkt. No. 829, p. 13.)

19 **4. The Government Is Judicially Estopped From Arguing That
20 Overcharges Persisted After January 31, 2006**

21 Having successfully argued that AUO's market performance from March 1-
22 August 31, 2006 (after discussion of "target" prices ended) was probative of its
23 liability and alleged gain, the Government is now judicially estopped from taking an
24 inconsistent position.

25 "[W]here a party assumes a certain position in a legal proceeding, and
26 succeeds in maintaining that position, he may not thereafter, simply because his
27 interests have changed, assume a contrary position." *New Hampshire v. Maine*, 532
28 U.S. 742, 749 (2001); *Davis v. Wakelee*, 156 U.S. 680, 689 (1895). This rule
"generally prevents a party from prevailing in one phase of a case on an argument
and then relying on a contradictory argument to prevail in another phase." *New
Hampshire*, 532 U.S. at 749; *Pegram v. Herdrich*, 530 U.S. 211, 227, n. 8 (2000).

1 The doctrine is intended to “protect against a litigant playing ‘fast and loose with
2 the courts.’” *Russell v. Rolfs*, 893 F.2d 1033, 1037 (9th Cir. 1990) (applying judicial
3 estoppel against state in habeas proceeding); *Rockwell Intl. Corp. v. Hanford Atomic*
4 *Metal Trades Council*, 851 F.2d 1208, 1210 (9th Cir. 1988).

6 Three factors inform the decision of whether to apply judicial estoppel in a
7 particular case: (1) whether the party’s new position is “clearly inconsistent” with
8 its earlier position, *New Hampshire*, 532 U.S. at 750, *United States v. Ibrahim*, 522
9 F.3d 1003, 1009 (9th Cir. 2008); (2) whether the party’s first position was accepted,
10 creating “the perception that either the first or the second court was misled,” *New*
11 *Hampshire*, 532 U.S. at 750, *Ibrahim*, 522 F.3d at 1009; and (3) whether the party
12 seeking to assert an inconsistent position would derive an unfair advantage of
13 impose an unfair detriment on the opposing party if not estopped. *New Hampshire*,
14 532 U.S. at 751; *Davis*, 156 U.S. at 689; *Ibrahim*, 522 F.3d at 1009. In addition, the
15 doctrine does not apply where the party’s previous position was based on
16 inadvertence or mistake. *Id.*; *Helfand v. Gerson*, 105 F.3d 530, 536 (9th Cir. 1997);
17 *see United States v. Liquidators of European Federal Credit Bank*, 630 F.3d 1139,
18 1149 (9th Cir. 2011) (judicial estoppel against government in civil case).²³

23 ²³ Nothing in *Heckler v. Community Health Servs. of Crawford County, Inc.*,
24 467 U.S. 51, 60 (1984) is to the contrary. AUO is not arguing that judicial
25 estoppel bars the Government from enforcing the Sherman Act *at all*; rather,
26 AUO argues that estoppel bars the Government from changing its position at
27 the sentencing hearing merely to extract a far more draconian penalty than
28 would otherwise be permissible. Nevertheless, the Government’s repudiation
of its own trial theory is so outrageous that the *Heckler* standard—that the
public interest in enforcing the law is outweighed by the “countervailing
interest of citizens in some minimum standard of decency, honor and
reliability in their dealings with their Government”—is emphatically
satisfied here. *Heckler*, 467 U.S. at 60-61.

1 **a. The Government’s New Position is “Clearly Inconsistent”**
2 **With Its Theory at Trial**

3 At trial, the Government argued that AUO’s market performance after
4 January 31, 2006 was probative of its exit from the conspiracy. (RT 3356:16-3361:5;
5 3363:4-18; 3370:18-3372:15; 3373:22-3374:10; 3472:15-3473:1; 4559:19-4560:6;
6 4585:19-4586:13.) Now, the Government argues that the Crystal Meetings
7 continued to create overcharges from January 31 through December 1, 2006. The
8 Government’s positions are “clearly inconsistent.”
9

10 **b. The Government’s Position Misled the Jury**

11 As noted above, Dr. Leffler testified that he was persuaded that the alleged
12 conspiracy existed and resulted in more than \$500 million in gross gains in part by
13 comparing AUO’s margins in the six months before January 31, 2006 and the six
14 months between March 1, 2006 and August 31, 2006. The jury was instructed that
15 it had to find that AUO was a member of the conspiracy after June 9, 2005 in order
16 to convict. (Dkt. No. 829, pp. 13-14.) Since Dr. Leffler’s margin analysis was the
17 principal evidence upon which the jury likely based its finding of participation
18 within the statute of limitations or its determination of gross gains, the
19 Government’s earlier position misled the jury into convicting AUO.
20

21 **c. The Government Would Derive an Unfair Advantage, and**
22 **AUO Would Be Severely Prejudiced, if the Government is**
23 **Not Estopped**

24 Including sales from February 1, 2006 through December 1, 2006 increases
25 Dr. Leffler’s volume of commerce by \$958 million – 41% of Dr. Leffler’s total claimed
26 volume of commerce. (Hall Decl., ¶¶ 9, 40.) The Government would indisputably
27 derive an unfair advantage, and AUO and the other defendants would be severely
28

1 prejudiced, if the Government is not estopped from arguing that overcharges
2 persisted after January 31, 2006.

3 **d. There is No Evidence That the Government's Abrupt**
4 **Change of Position is the Result of Inadvertence or**
5 **Mistake**

6 There is no evidence whatsoever that the Government's position about the
7 end of the alleged overcharges—consistently maintained through three pre-trial
8 disclosures and Dr. Leffler's two trips to the witness stand—was the result of
9 inadvertence or mistake.

10 Each of the factors relevant to judicial estoppel is satisfied. The Government
11 is therefore judicially estopped from arguing that the volume of commerce continues
12 past January 31, 2006.

13 **5. The Sixth Amendment and Due Process Bar the Government**
14 **from Arguing That Overcharges Persisted After January 31,**
15 **2006**

16 “Any fact (other than a prior conviction) which is necessary to support a
17 sentence exceeding the maximum authorized by the facts established by a plea of
18 guilty or a jury verdict must be admitted by the defendant or proved to a jury
19 beyond a reasonable doubt.” *United States v. Booker*, 543 U.S. 220, 244 (2005).
20 Although *Booker* still permits courts to find facts during a sentencing proceeding,
21 *United States v. Brika*, 487 F.3d 450, 459 & n.3 (6th Cir. 2007), it necessarily strips
22 the *Booker* trial standard of any meaning to permit courts to find facts during the
23 sentencing hearing—here, that the effect of the alleged conspiracy continued until
24 December 1, 2006—which squarely contradict facts upon which the jury likely based
25 its verdict—Dr. Leffler's claim that AUO's margins sharply decreased in the spring
26 and summer of 2006.
27
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1 For similar reasons, allowing the Government to argue that the volume of
2 affected commerce should include sales occurring after February 1, 2006 would
3 violate the due process rights of AUO, AUOA and the individual defendants, Mr.
4 Chen and Dr. Hsiung.²⁴ The central evidence the jury heard that AUO participated
5 in the alleged conspiracy or obtained gross gain after June 9, 2005—an essential
6 prerequisite for the jury’s verdict, (Dkt. No. 829, pp. 13-14)—was Dr. Leffler’s
7 testimony about AUO’s margins before and after January 31, 2006. (RT 3356:16-
8 3361:5; 3363:4-18; 3370:18-3372:15; 3373:22-3374:10; 3472:15-3473:1; 4559:19-
9 4560:6; 4585:19-4586:13.) Due process requires that the Court accept for purposes
10 of sentencing that the conspiracy ended on that date. *United States v. Bertling*, 611
11 F.3d 477, 481-82 (8th Cir. 2010); *United States v. Curry*, 461 F.3d 452, 461 (4th Cir.
12 2006); *see Dunn v. United States*, 442 U.S. 100, 107 (1979) (due process forbids
13 affirmance of criminal conviction based on a different theory than the one found in
14 the indictment and presented to the jury); *Cole v. Arkansas*, 333 U.S. 196, 201
15 (1948) (“[i]t is as much a violation of due process to send an accused to prison
16 following conviction of a charge on which he was never tried as it would be to
17 convict him upon a charge that was never made”); *United States v. Higgs*, 353 F.3d
18 281, 326 (4th Cir. 2003); *see also Thompson v. Calderon*, 120 F.3d 1045, 1058 (9th
19 Cir. 1997) (en banc), *rev’d on other grounds*, 523 U.S. 538 (1998) (due process
20 forbids prosecution from presenting factually irreconcilable theories in multiple
21 trials for same crime); *Smith v. Groose*, 205 F.3d 1045, 1051 (8th Cir. 2000) (same).

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28 ²⁴ Both Mr. Chen and Dr. Hsiung had attended their final Crystal Meetings
years earlier.

1 **6. The Government Has Failed to Carry Its Burden of Proof With**
2 **Respect to Including Panel Sales After February 1, 2006 in the**
3 **Volume of Affected Commerce**

4 Even if the Government were not judicially estopped from relying upon sales
5 between February 1 and December 1, 2006 in its calculated volume of affected
6 commerce, such sales should still be excluded because the Government has failed to
7 carry its burden of proof that any such sales should be included.

8 Dr. Leffler gives this conclusory explanation of his view that bilateral
9 information exchanges after February 1, 2006 were affected by the alleged
10 conspiracy:

11 After those group meetings ended, the conspirators during their
12 bilateral meetings continued to exchange the same kind of price
13 information they had exchanged in the group meetings. And during
14 this bilateral meeting time period, AUO continued to rely on the price
15 information it was receiving from its conspirators when setting its own
16 panel prices. Therefore, in my opinion, the conduct during this
17 bilateral meeting time period had at least some effect on AUO's panel
18 prices.

19 (Leffler VoC Decl., ¶ 2, n. 1.)

20 Dr. Leffler's "explanation" is insufficient for several reasons.

21 The only person to attend these bilateral meetings called to testify at trial
22 was Milton Kuan. Milton Kuan testified that the bilateral meetings were merely
23 for the parties to exchange competitive information. (RT 3738:23-3739:4; 3887:13-
24 15; 3946:10-16.) He offered no testimony that any price-fixing agreements had been
25 reached; instead, Kuan testified that the industry had always been competitive (RT
26 3914:17-22), and that he did not have pricing authority. (RT 3821:9-13; 3866:10-
27 13.)

28 The jury was instructed both during trial and at the conclusion of the
evidence that exchanges of competitive information were not unlawful:

1 It is not unlawful for a person to obtain information about a
2 competitor's prices or even to exchange information about prices unless
3 done pursuant to an agreement or mutual understanding between two
4 or more persons to fix prices as charged in the indictment.

(Dkt. No. 829, p. 9.)

5 Even if that were not so, Dr. Leffler makes no effort to reconcile his odd
6 passing remark that the bilateral meetings had "some effect" with the Government's
7 theory at trial. Dr. Leffler insisted on the witness stand that the Crystal Meetings
8 were a target pricing conspiracy. But he points to no evidence that a "target price"
9 was ever set after February 1, 2006; in fact, he denied on the stand that any further
10 target prices were set after that date. (RT 3362:4-14.) Nor does he make any
11 attempt to explain how bilateral exchanges of competitive information could
12 possibly serve as a target pricing conspiracy.

13
14 Finally, as discussed throughout trial, in order for conduct in foreign
15 commerce to possibly violate the Sherman Act as amended by the Foreign Trade
16 Antitrust Improvement Act, the necessary effect on commerce is a "direct,
17 substantial and reasonably foreseeable" one. (Dkt. No. 829, pp. 10-11.) Dr. Leffler's
18 half-hearted claim of "at least some effect" is woefully inadequate.

19
20 Any inclusion of panel sales after February 1, 2006 in the volume of affected
21 commerce is barred by judicial estoppel and due process. Further, the Government
22 has failed to carry its burden of proof to support including any such sales in the
23 Guidelines calculation.
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1 **C. The Volume of Affected Commerce Must Be Limited to Panel Sales for**
2 **Which a Price Discussion Was Had at the Applicable Crystal Meeting**

3 **1. The Courts Recognize That Sales Which Were Not Affected by a**
4 **Conspiracy Should Not Be Included in the Volume of Commerce**

5 The Government argued throughout trial that the Crystal Meetings were a
6 target pricing conspiracy. (*Supra* at section III(A)(4)(a), and record citations there.)
7 According to Dr. Leffler, the effectiveness of a target pricing conspiracy from one
8 month to the next depends on the degree to which the attendees succeed in
9 obtaining the target price for a particular panel. (RT 3304:16-23; 4515:21-4516:23;
10 4518:16-4518:9). Nevertheless, Dr. Leffler includes *all* panels sales between 12.1
11 and 30 inches mentioned in the Superseding Indictment—whether discussed at the
12 relevant Crystal Meeting or not—in his “volume of affected commerce.” Leffler VoC
13 Decl., ¶ 2.

14 Four Circuits have construed the phrase “volume of affected commerce” for
15 purposes of Guideline 2R1.1. Although the standards adopted by the Circuits are
16 not identical, the Government's all-inclusive approach is wrong under every one of
17 the Circuits' approaches.

18 *United States v. Hayter Oil Co., Inc. of Greeneville, Tennessee*, 51 F.3d 1265
19 (6th Cir. 1995) involved criminal allegations of fixing gasoline prices in the
20 Greeneville, Tennessee area through the setting of target prices. After conviction
21 and sentencing, the Government appealed the defendant's sentence, challenging the
22 district court's interpretation of “volume of affected commerce” for purposes of
23 Guideline 2R1.1.

24 The Sixth Circuit held that all sales that were “the direct object” of the price-
25 fixing agreement should be included in the volume of commerce. *Id.* at 1273. “The
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1 district court would be required to determine the sales of the *specific type of goods*
2 *that were price-fixed made by the defendant* or his principal during the period of the
3 conspiracy” in order to compute the volume of commerce, the Court found. *Id.* at
4 1276 (emphasis added).

5
6 *United States v. SKW Metals & Alloys, Inc.*, 195 F.3d 83 (2nd Cir. 1999)
7 involved a criminal conviction for conspiring to fix the price of ferrosilicon. The
8 Government appealed the defendant’s sentence, arguing that the district court
9 erred by including only sales made at or above the target prices in the volume of
10 commerce. *Id.* at 89. On appeal, the Government argued that *all* sales during the
11 period of the conspiracy should be included in the volume of commerce, whether the
12 price was at, above, or below the target price. *Id.* at 90.

13
14 The Court disagreed:

15 [A] conspirator profits from an agreement to fix prices when the
16 conspiracy is incrementally successful at impacting the terms of trade
17 or at elevating the price above the putative market price, regardless of
18 whether the target price is achieved . . . By the same token, a price-
19 fixing conspiracy that fails to influence market transactions
20 notwithstanding overt acts sufficient to support criminal responsibility
21 has affected no sales within the meaning of the Guidelines . . . If the
22 conspiracy was a non-starter, or if during the course of the conspiracy
23 there were intervals when the illegal agreement was ineffectual and
24 had no effect or influence on prices, then sales in those intervals are
25 not ‘affected by’ the illegal agreement, and should be excluded from the
26 volume of commerce calculation . . . Presumably, ‘general deterrence’
27 can be adequately served without sentencing on the basis of a tenuous
28 presumption that commerce is affected by all sales within the period
set forth in the indictment regardless of what effects, if any, the
conspiracy may have had.

(*Id.* at 91-92.)

25 *United States v. Andreas*, 216 F.3d 645 (7th Cir. 2000) involved the criminal
26 conviction of two corporate officers in connection with a conspiracy to fix the
27 worldwide price of lysine. There, the Court rejected the broad reading of Section

1 2R1.1(d)(1) adopted by the Sixth Circuit in *Hayter Oil*: “Recognizing that many
2 companies have multiple product lines that compete in separate markets, [Section
3 2R1.1(d)(1)] may simply instruct the court to count only the commerce in the
4 product line that was the subject of the illegal agreement.” *Id.* at 677. The purpose
5 of the Guideline, the Court pointed out, was “to gauge the harm inflicted by the
6 illegal agreement.” *Id.* “Theoretically, sales that were entirely unaffected did not
7 harm consumers and therefore should not be counted for sentencing because they
8 would not reflect the scale or scope of the offense.” *Id.* at 678. “It is conceivable,”
9 the Court found, that “sales made before new price schedules are issued or new
10 quotes given to potential customers may be wholly unaffected” by a price-fixing
11 agreement, “or that some subsequent sales might be sold at the actual market
12 price.” *Id.* “[T]hese odd sales completely unaffected by the conspiracy should not be
13 counted for sentencing purposes.” *Id.*

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17 *United States v. Giordano*, 261 F.3d 1134 (11th Cir. 2001) involved
18 allegations of price-fixing in the market for scrap metal. The Eleventh Circuit
19 recognized that even among products as to which defendants attempted to fix
20 prices, not all sales are necessarily included in the volume of affected commerce:

21
22 It is enough for the district court to determine the periods during
23 which the conspiracy was effective. Once the conspiracy is found to
24 have been effective during a certain period, there arises a rebuttable
presumption that all sales during that period were 'affected by' the
conspiracy²⁵ . . . The defendant may rebut that presumption by offering
evidence that certain sales, even though made during a period when

25
26 ²⁵ AUO does not agree that any rebuttable presumption is permissible with
27 respect to volume of affected commerce. Application of such a presumption
28 without first requiring the Government to prove any foundational fact, such
as that panel sales were of a type, size and resolution discussed in the
relevant Crystal Meeting, would impermissibly shift the Government's
burden to prove sentencing facts to a clear and convincing standard to the
defendants.

1 the conspiracy was effective, were not affected by the conspiracy . . .
2 [T]he Government must “prove that the prices charged were ‘affected
3 by’ the conspiracy” . . . To prove that prices were “affected by” the
4 conspiracy, the Government must show that the conspiracy was
5 effective to some extent (i.e. was not a non-starter and was not
6 completely ineffective for periods of time).

7 *Id.* at 1146 & n. 15.

8 Regardless of the standard this Court adopts, panel sales of a size, type and
9 resolution not discussed in the relevant Crystal Meeting are not properly included
10 in the volume of affected commerce. If the Crystal Meetings were a target pricing
11 conspiracy, then it necessarily follows that TFT-LCD panels of a size, type and
12 resolution not discussed in the relevant meeting were not “the specific type of goods
13 that were price-fixed.” *Hayter Oil*, 51 F.3d at 1276. The standards adopted by
14 Second, Seventh and Eleventh Circuits would sweep even more broadly, excluding
15 not just non-discussed panels, but even some discussed panels. The Government’s
16 proposed volume of affected commerce is grossly overstated.

17 **2. The Government Has Not Proven That the Alleged Conspiracy
18 Affected the Sales of Non-Discussed Panels**

19 Nor can the Government prove that all panel sales were affected by the
20 alleged cartel as a factual matter.

21 At the monthly Crystal Meetings, only a small fraction of the LCD products
22 manufactured by the attendees were discussed. (Hall Decl., ¶ 31.) In some months
23 for which records of the Crystal Meetings are available, none of AUO’s products
24 were discussed; in others, more than a dozen different AUO panel types and sizes
25 were discussed. (*Id.*)

26 Dr. Leffler has offered no explanation of why discussions of certain types and
27 sizes of panels would necessarily affect the prices of other, non-discussed panels. If
28

1 anything, maintaining supracompetitive pricing in one type of product would
2 necessitate the idling of productive capacity, and prices of other products should
3 drift down, at least for a time, as idled capacity is shifted to manufacturing such
4 products.

5
6 Economists have studied many target-price cartels and agree that such
7 cartels require significant data and monitoring, particularly where—as is the case
8 with TFT-LCDs— the participants produce a variety of different products. (Hall
9 Decl., ¶ 32 *citing* Harrington, Joseph E. (2006) “How Do Cartels Operate?”
10 *Foundations and Trends in Microeconomics*, Vol. 2, No. 1, p. 9.) Economists
11 recognize that it is particularly difficult to sustain an overcharge of any size in
12 target-pricing cartels, as opposed to those where production quotas or fixed market
13 shares are employed. (Hall Decl., ¶ 55.) For example, scholars have recognized that
14 the lysine cartel, which ultimately resulted in the *Andreas* case cited above, was
15 largely ineffective during the period in which the members of the cartel agreed
16 solely to target prices, without setting quantity allocations or providing for formal
17 and coordinated monitoring. (*Id.* at ¶ 56; *citing* De Roos, Nicolas (2006) “Examining
18 Models of Collusion: The Market for Lysine,” *International Journal of Industrial*
19 *Organization*, Vol. 24, p. 1087; Sannikov, Yuliy and Andrzej Skrzypacz (December
20 2007) “Impossibility of Collusion under Imperfect Monitoring with Flexible
21 Production,” *The American Economic Review*, Vol. 97, No. 5, p. 1795.) The
22 Government has produced no evidence to suggest that the Crystal Meeting
23 companies somehow surmounted that barrier and successfully imposed overcharges
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1 not merely on the panels for which target prices were discussed, but on panels
2 which were *not* discussed.

3 **D. The Government Has Failed to Carry Its Burden of Proof With Respect**
4 **to Including Sales to LG and Samsung, or Panel Sales to Dell After**
5 **January 1, 2005 in the Volume of Affected Commerce**

6 Nor can the Government carry its burden of proof to demonstrate that AUO's
7 sales to LG and Samsung, or AUO's panel sales to Dell on and after January 1,
8 2005, may properly be included in the volume of affected commerce.

9 At all times, LG and Samsung were, either directly or through closely
10 affiliated companies, capable of supplying their own needs for TFT-LCD panels.
11 (Hall Decl., ¶¶ 34-35.) The Government has offered no explanation of why either
12 LG or Samsung would have paid overcharges for panels purchased from AUO. If
13 AUO had attempted to impose overcharges on LG or Samsung, those companies
14 would simply have supplied their own needs at competitive prices. (*Id.*) Although
15 expanding their own manufacturing capability in order to increase internal
16 purchases might take time, the threat of doing so would force down any
17 supracompetitive price AUO attempted to charge LG or Samsung. (*Id.*) Nor could
18 LG and Samsung's agreement to pay the same, purportedly supracompetitive prices
19 be seen as a "cover story" to conceal the existence of supracompetitive pricing, since
20 LG and Samsung supplying their own needs would have been equally effective, and
21 more in LG and Samsung's economic self-interest. (*Id.* at ¶ 36.)

22 According to his Declaration, Dr. Leffler included sales by AUO to Dell from
23 2004 through December 1, 2006 in calculating his estimated \$2.34 billion volume of
24 affected commerce. (Leffler VoC Decl., ¶¶ 5-14.) However, Dell's own economic
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1 expert in the related civil actions was unable to find *any* persistent overcharges in
2 AUO's sales to Dell after January 1, 2005. (Expert Report of Mohan Rao, Ph.D., ¶¶
3 110-111.) Dr. Leffler makes no effort to determine whether any such Dell sales
4 included an overcharge, and therefore might arguably belong in the volume of
5 affected commerce. According to Dr. Hall, removing the LG and Samsung sales
6 reduces Dr. Leffler's baseline volume of affected commerce from \$726 to \$608;
7 removing the improperly included Dell sales reduces Dr. Leffler's baseline from
8 \$726 million to \$433 million. (Hall Decl., Appendix I.)

9
10 **E. The Volume of Affected Commerce Must Exclude Any TFT-LCD Panels
11 Which Were Sold Overseas and Purportedly Were Shipped Into the
12 United States By Third Parties as Part of a Computer Monitor,
13 Notebook Computer or Television.**

14 AUO has argued throughout this case that panels sold overseas cannot be
15 included within the scope of AUO's alleged offense based on the proposition that
16 such panels ultimately entered the United States as part of a finished computer
17 monitor, notebook computer or television. (Dkt. No. 258 (2nd Motion to Dismiss);
18 December 13, 2011 RT 22:11-14, 20-23; 29:18-30:11; Dkt. No. 807 (Objections to
19 Instructions), p. 30:6-10; Dkt. No. 878 (Motion for Acquittal or New Trial), pp. 16-
20 23; RT 360:18-362:1; 5000:11-5006:6.) This is so because the Government failed to
21 allege the only arguably applicable exception to the FTAIA – the “direct, substantial
22 and reasonably foreseeable effect” exception – in the Superseding Indictment, and
23 further failed to prove the necessary effect at trial. The argument has been fully
24 preserved for appeal.

25
26 For the Court's convenience, we set forth the argument in detail in Appendix
27 A to this brief, and merely incorporate it here by reference.
28

1 **IV. THE COURT SHOULD REJECT THE 20% PROXY FOR OVERCHARGE**
2 **AND CONSUMER LOSS FROM THE GUIDELINES BOTH ON**
3 **CONSTITUTIONAL AND POLICY GROUNDS, AND ADOPT AN**
4 **OVERCHARGE/LOSS ESTIMATE NO GREATER THAN 1.89%**

5 **A. The Guidelines' 20% Proxy for Overcharge and Consumer Loss**

6 Sentencing Guideline § 2R1.1(d)(1) provides that “in lieu of the pecuniary loss
7 . . . use 20 percent of the volume of affected commerce.” In Application Note 3, the
8 Sentencing Commission explains that the 20% proxy is a rough approximation of
9 the harm done to consumers by a cartel – a presumptive 10% overcharge, and an
10 additional 10% to account for additional loss to consumers forced out of the market
11 by the higher prices:

12 In selecting a fine for an organization within the guideline fine range,
13 the court should consider both the gain to the organization from the
14 offense and the loss caused by the organization. It is estimated that the
15 average gain from price-fixing is 10 percent of the selling price. The
16 loss from price-fixing exceeds the gain because, among other things,
17 injury is inflicted upon consumers who are unable or for other reasons
18 do not buy the product at the higher prices. Because the loss from
19 price-fixing exceeds the gain, subsection (d)(1) provides that 20 percent
20 of the volume of affected commerce is to be used in lieu of the
21 pecuniary loss under §8C2.4(a)(3).

22 According to the Commission, the reason for using a “one-size-fits-all” rule of
23 thumb instead of case-by-case calculations is the purported time and expense
24 involved in estimating overcharges:

25 The purpose for specifying a percent of the volume of commerce is to
26 avoid the time and expense that would be required for the court to
27 determine the actual gain or loss.

28 (U.S.S.G. § 2R1.1, Application Note 3.)

The Government will undoubtedly cite the final sentence of Application Note
3 to argue that the Court is required to use the 20% proxy, and that the most the
Court is permitted to do in response to evidence that overcharges and consumer

1 losses were far lower than the proxy is to impose a fine on the lower end of the
2 Guidelines range:

3 In cases in which the actual monopoly overcharge appears to be either
4 substantially more or substantially less than 10 percent, this factor
5 should be considered in setting the fine within the guideline fine range.

6 (U.S.S.G. § 2R1.1, Application Note 3.)

7 The Government will be wrong.²⁶

8 **B. The Court May Disregard the Guidelines on Constitutional or Policy
9 Grounds**

10 Of course, the Court may disregard the Guidelines based on a finding that
11 the applicable Guideline is unconstitutional as applied. *Booker, supra*, 543 U.S.
12 220.

13 The Court also has discretion to deviate from a Guideline range based on the
14 Court's disagreement with the underlying policy. *Kimbrough v. United States*, 552
15 U.S. 85, 106-08 (2007). This discretion is not limited to the crack-cocaine
16 Guidelines at issue in *Kimbrough* itself. Rather, "sentencing judges can reject *any*
17 Sentencing Guideline, provided that the sentence imposed is reasonable." *United*
18 *States v. Mitchell*, 624 F.3d 1023, 1030 (9th Cir. 2010). In exercising their
19 discretion, courts should consider whether applying a particular Guideline as
20 written will result in an unwarranted sentencing disparity, which the court must
21 avoid pursuant to 18 U.S.C. § 3553(a)(6). *Kimbrough*, 552 U.S. at 108.

22 In *United States v. Carper*, the Ninth Circuit particularly encouraged district
23 courts to deviate downwards from the Guidelines when the Sentencing Commission

24
25
26 ²⁶ Even if the Guidelines were mandatory with respect to the 20% proxy,
27 neither the PSR, the Government or Dr. Leffler make any attempt to
28 calculate the purported overcharge, simply ignoring the statement in
Application Note 3 that proof of an overcharge "substantially less than 10
percent" justifies a downward variance.

1 has not exercised its “characteristic institutional role” in developing the Guideline
2 at issue. *United States v. Carper*, 659 F.3d 923, 925 (9th Cir. 2011). Accordingly,
3 Courts should consider whether a particular Guideline was “not the result of an
4 empirical study.” *United States v. Henderson*, 649 F.3d 955, 960 (9th Cir. 2011).
5 Similarly, the Second Circuit held in *United States v. Dorvee*, 616 F.3d 174, 188 (2d
6 Cir. 2010) that courts should consider departures where dealing with “an eccentric
7 Guideline . . . which, unless carefully applied, can easily generate unreasonable
8 results.”

9
10 Further, a sentencing judge has “greater familiarity with . . . the individual
11 case and the individual defendant” than the Sentencing Commission or the Court of
12 Appeals. The judge is therefore “in a superior position to find facts and judge their
13 import” in each case. In light of these institutional strengths, a district court’s
14 discretion to vary from the Guidelines is at its height when the court concludes that
15 a particular case falls “outside the heartland to which the Commission intends
16 individual Guidelines to apply.” *Kimbrough*, 552 U.S. at 109; *Rita*, 551 U.S. at 351.

17
18
19 **C. The 20% Proxy Was Not the Result of the Commission Acting in Its
20 Characteristic Institutional Role, and This Case in Particular Falls
21 Well Outside the Heartland To Which Guideline ¶ 2R1.1(d)(1) Was
22 Intended to Apply**

23
24
25 **1. The Origins of the 20% Proxy**

26 There is no evidence that the 20% proxy was the result of empirical research
27 by the Commission, acting in its “characteristic institutional role.” *Carper*, 659 F.3d
28 at 925. Scholarly commentators agree that the proxy was the result of testimony
given before the Commission in 1986 by then-Assistant Attorney General Douglas
H. Ginsburg. *E.g.*, John M. Connor and Robert H. Lande, “How High Do Cartels

1 Raise Prices? Implications for Optimal Cartel Fines,” 80 Tul. L. Rev. 513, 524-25
2 (2005).

3 Ginsburg testified that in his view, the “optimal fine” for price fixing was
4 equal to “the damage caused by the violation divided by the probability of
5 conviction.” Douglas H. Ginsburg, Statement to the United States Sentencing
6 Commission 8 (July 15, 1986); *see* United States Sentencing Commission:
7 Unpublished Public Hearings, 1986 volume, July 15, 1986 Hearing, at 8. According
8 to Ginsburg, “our experience [is] that price fixing typically results in price increases
9 of at least 10 percent.”²⁷ *Id.* at 9. Ginsburg cited to no support for his overcharge
10 estimate.
11

12
13 According to Professors Mark A. Cohen and David T. Scheffman, Ginsburg’s
14 claim appears to have been based on two cases²⁸ and a short survey by DOJ
15 economists of empirical studies of bid-rigging in the road-building industry in the
16 1980s. Cohen and Scheffman, “The Antitrust Sentencing Guideline,” 27 Am. Crim.
17 L. Rev. at 342, *citing* Gregory J. Werden and Marilyn J. Simon, “Why Price Fixers
18 Should Go to Prison,” 32 Antitrust Bull. 917, 924-25 (1987). Subsequent research
19 on the two cases relied on by Ginsburg has “cast considerable doubt” on the
20
21

22 ²⁷ Ginsburg estimated that the probability of a cartel being detected was also
23 approximately 10 percent. *Id.* He offered no empirical support for that claim,
24 and given the Antitrust Division’s claim that amnesty applications increased
25 twelve-fold following the 1993 revisions to the Corporate Leniency Program,
26 his estimate is obsolete today, if indeed it ever had any empirical basis. Mark
27 A. Cohen and David T. Scheffman, “The Antitrust Sentencing Guideline: Is
28 the Punishment Worth the Costs?” 27 Am. Crim. L. Rev. 331, 347-48 (1989)
(observing only three years after Ginsburg’s testimony that “we are aware of
no systematic study that quantifies the probability of detection of antitrust
violations.”) In any case, the Sentencing Guidelines make no mention of the
probability of detection as justifying the 10% increment of the 20% proxy.

²⁸ *United States v. Container Corp. of America*, 393 U.S. 333 (1969) and U.S.
Fed. Trade Comm’n, Economic Report on the Baking Industry (1967).

1 overcharge estimate, “concluding that the markups, if they existed, were quite
2 small.” Cohen and Scheffman, “The Antitrust Sentencing Guideline,” 27 Am. Crim.
3 L. Rev. at 345, and sources cited there. The Werden-Simon study apparently relied
4 on by Ginsburg analyzed a single industry based on a “tantalizingly brief survey of
5 existing cases.” Connor and Lande, “How High Do Cartels Raise Prices?,” 80 Tul. L.
6 Rev. at 525 & n. 66.

8 The Commission’s 20% proxy has been subjected to intense criticism almost
9 from the outset. Professors Cohen and Schiffman pointed out in 1989 that a 10%
10 average overcharge was inherently implausible in most cases, particularly when
11 large volumes of commerce were involved. This was so because so long as the price
12 elasticity of demand exceeded one, a ten percent increase in price would trigger an
13 implausible ten percent *decrease* in output sold. *See* Cohen and Schiffman, 27 Am.
14 Crim. L. Rev. at 343-44. They concluded:

16 The Justice Department’s assertion that price-fixing conspiracies
17 would typically result in a markup over competitive levels of ten
18 percent, or that the probability of detection of price-fixing or bid-
19 rigging would be as small as ten percent is not supported by the
20 available evidence. Both of these Justice Department assertions are
especially untenable for conspiracies involving private for-profit
purchasers.

21 *Id.* at 349.

22 The ABA Antitrust Section has repeatedly questioned the empirical basis for
23 the 20% proxy and urged the Sentencing Commission to reconsider its use. In 2004,
24 the Section wrote:

25 If it enacts the proposed corporate fine increase, Congress should
26 reassess the Sentencing Guidelines presumption that twenty percent
27 of the volume of commerce is an appropriate proxy for the gain or loss
28 in a conspiracy. This presumption is unique in the U.S. Sentencing
Guidelines for antitrust crimes and produces disproportionate effects
under existing sentencing that result in either higher or lower

1 sentences than would be appropriate if the gain or loss were actually
2 calculated . . .

3 Having reviewed the Sentencing Commission's analysis of this issue,
4 this presumption was unsupported by any empirical economic
5 evidence. It now has been employed since 1991. Since 1996, the
6 Antitrust Division, and many defendants in antitrust cases, have
7 determined the actual gain or loss resulting from the conduct that is
8 necessary for them to calculate the alternative maximum fine under 18
9 U.S.C. § 3571(d). This development, which has had a great impact on
10 the size of criminal fines, is in substantial conflict with the twenty
11 percent presumption in the Sentencing Guidelines. As part of any
12 change of the statutory maximum fine, Congress should instruct the
13 Sentencing Commission to review this controversial formula in light of
14 the significant experience of the Division in cartel cases. Such a review
15 could result in much higher fines in egregious cases of significant
16 overcharges and much lower fines in appropriate cases, as opposed to
17 the current "one size fits all" presumption . . .

18 Looking at the Sentencing Guidelines employed in other criminal
19 offenses, including numerous types of business misconduct, there are
20 no other situations known to the Section where the United States is
21 entitled to presume the loss generated by the illegal conduct.
22 Certainly, the calculation of the loss generated in a large securities
23 fraud case, or a substantial environmental crime, is as difficult to
24 calculate as in an antitrust case. Yet, there is no comparable
25 sentencing presumption imposed for those offenses.

26 (Comments on HR 1086: Increased Criminal Penalties, Leniency Detrebling and the
27 Tunney Act Amendment, pp. 12-14.)

28 A few months later, the Antitrust Section remarked:

It is ironic that the Sentencing Commission allowed this conclusive
presumption because of the difficulty in calculating the actual gain or
loss in an antitrust case, while the Antitrust Division has been
effectively calculating alternative maximum fines under 18 U.S.C. §
3571(d) since its sentencing calculation in *United States v. Archer
Daniels Midland Co.* in 1996.

(Comments on the Proposed Amendments to the United States Sentencing
Guidelines for Antitrust Sentencing, pp. 21-22.)

Later that year, the Antitrust Section submitted comments to the Antitrust
Modernization Commission, which was charged with evaluating the 20% proxy:

The Section has questioned, and continues to question, whether the
current presumption in determining criminal fine levels is empirically
sound or good public policy. (Citations omitted). Having reviewed the
Sentencing Commission's analysis of the issue, the Section concluded

1 that the presumption that the “average gain from price-fixing is 10
2 percent of the selling price” was unsupported by empirical economic
3 evidence. Furthermore, while the loss from price-fixing may exceed
4 the gain because of lost or reduced production and sales due to the
“higher prices,” the Section is aware of no empirical or theoretical
support for the Sentencing Commission's decision to double the
presumed gain to reflect such losses.

5 In addition, the Section questions whether the Sentencing
6 Commission's stated reason for adopting this special methodology for
calculating organizational antitrust fines—to avoid the time and
7 expense required to determine actual gain or loss in individual cases—
remains viable today, if it ever was . . .

8 If subsequent events have shown that the determination of gain or loss
9 in antitrust cases is not as complex as the Sentencing Commission
assumed in 1991, there is no need to continue to base antitrust fines or
10 jail sentences on volume of affected commerce as opposed to actual
harm as is done in most other federal economic crimes . . .

11 The Section continues to believe that the Sentencing Commission
12 should review the rationale for the continuation of a special sentencing
methodology for antitrust cases in light of the significant developments
13 since it was adopted in 1991 and against the backdrop that the
Division has regularly determined gain or loss to increase the
14 maximum fine recommendation pursuant to 18 USC § 3571(d). Such a
review also should examine any empirical evidence supporting the
15 adoption of 20% of affected commerce as the proxy for harm.

16 (Comments of the ABA Section of Antitrust Law in Response to the Antitrust
17 Modernization Commission's Request for Public Comment on Criminal Remedies,
18 pp. 8-12.)

19 In June 2006, the ABA submitted further comments to the Antitrust
20 Modernization Commission:

21 The Section believes that the Commission should recommend that
22 Congress direct the Sentencing Commission to undertake a thorough
review of the rationale for the continuation of a special sentencing
23 methodology for antitrust cases—as well as any empirical evidence
supporting the adoption of 20% of affected commerce as the proxy for
24 harm. The Section believes that such a review could result in much
higher fines in egregious cases of significant overcharges and much
25 lower fines in appropriate cases of lesser magnitude, and would
achieve a greater degree of fairness and proportionality in sentencing
26 organizational defendants in criminal antitrust cases.

1 (Comments of the ABA Section of Antitrust Law in Response to the Antitrust
2 Modernization Commission’s Request for Public Comment on Criminal Remedies –
3 The Alternative Fine Statute – 18 U.S.C. § 3571(d), pp. 2-3.)

4
5 Ultimately, the Antitrust Modernization Commission questioned both the
6 empirical support for the 20% proxy, and whether there was any continuing
7 justification for the use of a proxy in place of an individualized assessment of harm:

8
9 Congress should encourage the Sentencing Commission to reevaluate
10 and explain the rationale for using 20 percent of the volume of
11 commerce affected as a proxy for actual harm, including both the
12 assumption of an average overcharge of 10 percent of the amount of
13 commerce affected and the difficulty of proving gain or loss . . .

14 The Sentencing Commission should determine whether the existing
15 proxy is empirically sound and accurately reflects the best estimate of
16 typical harm in antitrust cases. It should also determine the costs that
17 individualized calculations of harm would impose on the sentencing
18 process—in light of the current ability of lawyers and economists to
19 estimate harm caused by antitrust crimes—and should determine
20 whether establishing more individually tailored base fines could justify
21 those additional costs . . .

22 The Sentencing Guidelines’ use of a proxy for harm (whether the
23 existing 20 percent harm proxy, or another revised proxy amount) does
24 not carefully distinguish between defendants who have caused
25 differing degrees of actual harm. That is, the inflexible presumption
26 that antitrust crimes cause harm equal to 20 percent of the volume of
27 commerce affected can be “inequitable,” and potentially
28 “disproportionate.” Just as there is some debate as to whether the
existing harm proxy is too high or too low as a general matter, as
explained above, it may also be too high or too low in individual cases.
Indeed, the use of a proxy runs counter to the Guidelines’ approach in
other, non-antitrust cases, where the Sentencing Guidelines call for
actual calculation of harm.

(Antitrust Modernization Commission, Report and Recommendations, pp. 300-02.)

24 The 20% proxy used in § 2R1.1(d)(1) in place of an individualized assessment
25 of harm was not the result of empirical research conducted by the Sentencing
26 Commission, acting in its characteristic institutional role. As a result, the proxy is
27 entitled to little deference from this Court.

1 **2. The Use of Standard Overcharge Estimates Such as the**
2 **Guidelines Proxy Has Been Criticized in the Economic**
3 **Literature**

4 The economic literature on overcharges shows that the use of a standard
5 overcharge presumption such as the 10% presumption built into the Guidelines
6 proxy can be arbitrary and irrational in a large number of cases. The Government
7 relied upon the overcharge studies of Professor John M. Connor at trial, largely
8 because Dr. Connor concluded that the *median* overcharge across the hundreds of
9 empirical studies he reviewed was higher than 10%. (RT 4425:23-4426:7.)
10 However, the Government failed to note that 8.4% of all overcharge estimates
11 Connor reviewed equaled zero; another 14.1% of Connor's estimates ranged from 0.1
12 to 9.9, with a mean overcharge of 5.9%. Connor, John M., "Price Fixing
13 Overcharges: Second Edition" (April 27, 2010 ed.), p. 110. As Dr. Hall notes in his
14 Expert Declaration, a recent meta-analysis of many different overcharge estimates
15 found overcharges ranging from zero to more than 50 percent. (Hall Decl., ¶ 53 & n.
16 34, *citing* Connor, John M. and Yuliya Bolotova (2006) "Cartel Overcharges: Survey
17 and Meta-Analysis," *International Journal of Industrial Organization*, Vol. 24, p.
18 1128.)

19 Similarly, a recent paper by the Secretariat of the Organisation for Economic
20 Co-Operation and Development (OECD) criticized overcharge presumptions for
21 ignoring important distinctions between industries and cartels:

22 This approach, however, has severe shortcomings: the strong
23 fluctuation of overcharges indicates important industry, country and
24 cartel-specific factors influencing the level of overcharges, rendering an
25 average approach inaccurate. Appropriate databases that allow a
26 cartel candidate to be benchmarked with some comparable historical
27 cartel cases do not exist so far.

1 (Hall Decl., ¶ 54 & n. 36, *citing* OECD, “Roundtable on the Quantification of Harm
2 to Competition by National Courts and Competition Agencies – Background Note by
3 the Secretariat (October 7, 2011), p. 13.)
4

5 **3. This Case Is Well “Outside the ‘Heartland’” to Which ¶2R1.1**
6 **Was Intended to Apply**

7 This case falls well “outside the ‘heartland’” to which the Commission
8 intended Guideline ¶ 2R1.1 to apply for a variety of reasons, and this is further
9 grounds for giving the Guideline little deference.

10 First, the conduct at issue largely took place overseas, in Taiwan. The
11 substantive scope of the Sherman Act is sharply limited with respect to foreign
12 conduct by the FTAIA. 15 U.S.C. § 6a. Although the Application Notes to the
13 Guideline argue that “there is near universal agreement” that arrangements such a
14 “horizontal price-fixing . . . can cause serious economic harm,” (U.S.S.G. § 2R1.1,
15 Application Notes, Background), it should be noted that although a number of
16 foreign jurisdictions investigated the Crystal Meetings and several imposed heavy
17 penalties, only one jurisdiction treated this at any time as a criminal matter – the
18 United States.
19

20
21 Second, as defendants have repeatedly pointed out, the binding law in the
22 Ninth Circuit is that foreign conduct such as that at issue here is judged pursuant
23 to the Rule of Reason, not the rule of *per se* illegality. *Metro Industries, Inc. v.*
24 *Sammi Corp.*, 82 F.3d 839, 844-45 (9th Cir. 1996). Guideline 2R1.1, on the other
25 hand, is expressly limited to *per se* offenses. (U.S.S.G. § 2R1.1, Application Notes,
26 Background).
27
28

1 Third, Guideline § 2R1.1 is entirely unsuited for application to price-fixing of
 2 an economic input – a product which is sold to consumers only after being
 3 incorporated into another product by multiple third parties, with each making their
 4 own decision about how and to what degree to pass cost increases through the
 5 distribution chain. The Guideline’s presumption that a 10% overcharge will trigger
 6 a 10% additional loss through consumers who are no longer willing or able to
 7 purchase a product (*Id.*, Application Note 3), presupposes that consumers will
 8 actually see the entire overcharge. If a portion of the overcharge is absorbed by
 9 upstream manufacturers, distributors or retailers, any consumer volume effect will
 10 be significantly less.²⁹

13 **D. The Guidelines’ Presumption That Discouraged Consumers Will**
 14 **Amount to 10% of the Volume of Commerce – Or That Consumer Loss**
 15 **Will Equal the Overcharge – Is Simply Wrong Absent Outlandish**
 16 **Factual Assumptions Not Supported Here**

17 The second 10% of the 20% proxy is intended to account for injury “inflicted
 18 upon consumers who are unable or for other reasons do not buy the product at the
 19 higher prices.”³⁰ (U.S.S.G. § 2R1.1, Application Note 3.)³¹

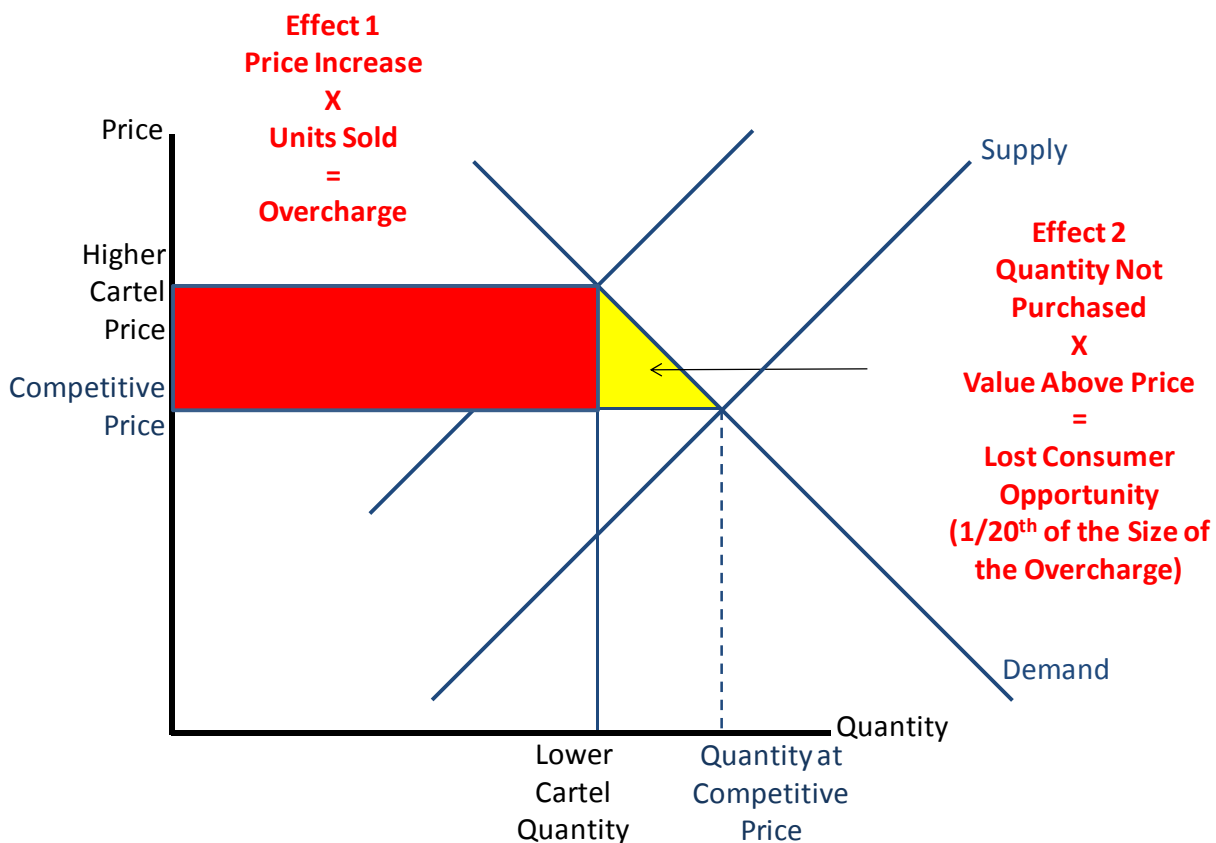
21 ²⁹ In fact, as Dr. Hall shows in his Declaration, the Guidelines’ 1:1 ratio
 22 between overcharge and consumer loss is overstated by a factor of twenty.
 (Hall Decl., ¶¶ 16, 68, 73, Appendix G.)

23 ³⁰ As noted above, the Application Note says that the second 10% consists of
 24 consumer losses “among other things.” However, nothing in the Application
 25 Note explains what those “other things” are. Given the degree to which the
 proxy overstates discouraged consumer losses, it is inconceivable that those
 undisclosed purported losses can justify the Guideline.

26 ³¹ Should the Government dispute the facts set forth herein, defendant AUO
 27 respectfully requests an evidentiary hearing regarding the issues of
 28 overcharge and lost consumer opportunities. If an evidentiary hearing is
 granted, Dr. Robert Hall will testify that (1) AUO obtained no overcharges
 approaching the 10% proxy included in the Guidelines; (2) AUO obtained no
 measurable overcharge at all; and (3) any reasonable approximation of lost

1 Economists represent overcharge and lost consumer opportunities as shown
 2 in the diagram. When a cartel constrains supply in order to support a price
 3 increase, the supply curve shifts left. The lost consumer opportunity is represented
 4 by the yellow triangle, which consists of consumers who were willing to pay an
 5 amount between the competitive price to slightly less than the supracompetitive
 6 price for the product, but will now not buy at the cartel's supracompetitive price.
 7 (Hall Decl., ¶¶ 66-67.) The overcharge is represented by the much larger red
 8 rectangle.
 9 rectangle.

10
 11 **1. Lost Consumer Opportunity for Consumer Products Is a Small
 12 Fraction of the Alleged Overcharge**



consumer opportunities should be at most 1/20th of any overcharge, if not less. AUO estimates that such a hearing would require no more than 1-2 hours of the Court's time.

1 Measuring the size of the lost consumer opportunity triangle is then simply a
2 matter of geometry: $\frac{1}{2}$ times (the reduction in quantity demanded) times (the
3 increase in price). Most studies of the price elasticity of demand for consumer
4 electronics cluster around an estimate of 1.0 – meaning that a 10% increase in price
5 will result in a 10% decrease in quantity purchased. (*See* Hall Decl., Appendix G.)
6 Therefore, the size of the lost consumer opportunity for a 10% overcharge would
7 equal: ($\frac{1}{2}$) times (10%) times (10%) = 0.5%, 1/20th of the overcharge. (Hall Decl., ¶¶
8 68-69; *see* Cohen and Scheffman, “The Antitrust Sentencing Guideline: Is the
9 Punishment Worth the Costs?,” 27 Am. Crim. L. Rev. at 341 & n.7. (arguing that
10 depending on the demand elasticity of the product, lost consumer opportunities
11 would amount to between 1/10th and 1/20th of the overcharge).)

14 A more mathematically rigorous proof of this same result appears at
15 Appendix G of Dr. Hall’s Expert Declaration. There, he demonstrates that in an
16 industry like consumer electronics where price elasticity is 1.0, in order for the lost
17 consumer opportunity to be 10%, as presumed in the Guidelines, the overcharge
18 would have to be 45%—far above the Guidelines’ presumptive overcharge. (Hall
19 Declaration, Appendix G, p. 79.) On the other hand, for the lost consumer
20 opportunity to be equal to the overcharge, as presumed in the Guidelines (again
21 assuming a price elasticity of 1.0), the overcharge (and lost consumer opportunities)
22 would have to be 200%, twenty times the Guidelines. (*Id.*)
23
24
25
26
27
28

1 **2. Lost Consumer Opportunity For Overcharges on Intermediate**
2 **Goods Is An Even Smaller Fraction of Any Overcharge**

3 The explanation above describes the lost consumer opportunity associated
4 with an overcharge in a consumer product. Where the product at issue is an input
5 which is transformed into a consumer product by third parties who add additional
6 value, the Guidelines' 10% estimate is an even greater overestimate of actual harm.
7 (Hall Decl., ¶¶ 70-73.)

8 As Dr. Hall explains, for TFT-LCD panels, the price elasticity is equal to the
9 price elasticity of demand for the consumer product—the monitor or notebook—
10 multiplied by the share of the consumer product price accounted for by the panel.
11 (*Id.* at ¶ 71). Evidence of the portion of monitor and notebook costs accounted for by
12 panels varies in the record; trial testimony estimated the panel to be 80% of the cost
13 of a monitor, and 40% of the cost of a notebook. (*Id.* at ¶ 72.) AUO's economic
14 expert Dr. Edward A. Snyder estimates that a panel comprises 49-52% of the cost of
15 a monitor, and 11-12% of the cost of a notebook. (*See* Jenkins Decl., Ex. C, Expert
16 Declaration of Edward A. Snyder, Ph.D., ¶¶ 20, 22.)

17 This calculation must then be multiplied by the rate of passthrough, since
18 consumers will not react to a price increase which is not passed along to them by
19 decreasing their purchases. (Hall Decl., ¶ 73.) Dr. Snyder estimates that pass-
20 through would vary from distribution chain to chain, and across time. (Snyder
21 Decl., ¶ 28.) Therefore, depending on whether one is analyzing monitors or
22 notebooks, the elasticity multiplier would be anywhere from virtually nothing to
23 three fourths, depending on the product, and the lost consumer opportunities
24 measure would be even less. (Hall Decl., ¶¶ 71-72.)

1 The Guidelines' assumption that a 10% overcharge would result in an
2 additional 10% harm from lost consumer opportunities is simply wrong: not merely
3 as a function of the facts of this case, but as a matter of black-letter microeconomic
4 analysis and simple geometry. Because the Sentencing Commission's decision to
5 double the presumptive 10% overcharge was irrational and arbitrary, utilizing that
6 second 10% here in computing an appropriate fine would deprive AUO of due
7 process and violate the Excessive Fines Clause. *Richmond v. Lewis*, 506 U.S. 40, 50
8 (1992) (due process violated where sentence relies upon arbitrary sentencing factor);
9 *United States v. Garner*, 490 F.3d 739, 743 (9th Cir. 2007) (due process forbids
10 sentencing based upon a scheme which is irrational or based on arbitrary
11 distinctions); *United States v. Bajakajian*, 524 U.S. 321, 334 (1998) (Excessive Fines
12 Clause).³²

13 We now demonstrate that application of the 10% presumptive overcharge
14 would be equally arbitrary and irrational, based on Dr. Hall's analysis.
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23 ³² The Eighth Amendment bars the imposition of "excessive fines." The
24 Excessive Fines Clause limits the government's power to extract payments,
25 whether in cash or in kind, as punishment for an offense. *Austin v. United*
26 *States*, 509 U.S. 602, 609-10 (1993). Forfeitures which are imposed for
27 purposes of deterrence are punishments within the meaning of the Clause.
28 *Bajakajian*, 524 U.S. at 329. The guiding principle of the constitutional
inquiry is proportionality: a fine will violate the Excessive Fines Clause
where it is grossly disproportionate to the gravity of the defendant's offense.
Id. at 334. The application of the grossly disproportionate 10% presumption
for lost consumer opportunities would certainly violate that principle here.

1 **E. The 10% Presumptive Overcharge in the Guidelines Grossly**
2 **Overestimates Any Harm Which Might Have Arisen From AUO's**
3 **Conduct**

4 **1. Dr. Hall Concludes That a 10% Overcharge Can Be Ruled Out**

5 Neither the PSR nor the Government has proven that AUO collected an
6 overcharge remotely approaching 10% from its customers, as presumed in the
7 Guidelines.

8 If AUO overcharged its customers by 10%, it necessarily follows that absent
9 the Crystal Meetings, prices would have been 10% lower. (Hall Decl., ¶ 62.) As Dr.
10 Hall explains, one way to test the realism of such a but-for world is to calculate the
11 return to invested capital AUO and the other LCD manufacturers would have
12 earned with 10% lower prices. AUO's returns on capital during the 2001-2006
13 period were near but not above the normal return for an industry with the risk
14 involved in the LCD business. (*Id.*, ¶¶ 62-63.) If prices had been consistently 10%
15 lower, not only would AUO and the other manufacturers have lost billions, but the
16 return on capital would have been far below the normal rate. (*Id.* at ¶ 63.) Without
17 the expectation of a normal rate of return, investment would have been insufficient
18 to enable AUO and the other manufacturers to build needed capacity and continue
19 to develop LCD technology. (*Id.*) Because output would have been significantly
20 lower under this hypothetical scenario, prices would have gradually risen until the
21 industry returned to a normal rate of return, and once a normal return was
22 assured, investment would have resumed. (*Id.*) Therefore, Dr. Hall concludes, 10%
23 lower prices could not have been long maintained. (*Id.*)
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1 **2. The Government's Theory That the Crystal Meetings Were**
2 **Necessary to Address Persistent Losses Defies Normal Economic**
3 **Logic**

4 At trial, Dr. Leffler argued that in 2000 and 2001, just before the Crystal
5 Meetings began, the TFT-LCD industry was “at desperate times.” Entry of
6 Taiwanese manufacturers had flooded the market with excess supply and
7 manufacturers were losing money; but once the Crystal Meetings began,
8 manufacturers “came together” and “things improved.” (RT 4533:8-15.) In closing
9 argument, counsel for the Government echoed the same theme: “These Crystal
10 Meetings were set up to try to stop these price declines, and they were set up to try
11 to make more money.” (RT 4742:14-25.)

12 For reasons similar to the above, Dr. Hall concludes that the Government's
13 theory that persistent overcharges were necessary to preserve the industry “defies
14 normal economic logic.” Dr. Hall points out that persistent losses cannot by
15 definition persist over time. Below-market rates of return lead to lower output and
16 investment in productive capacity which, with demand rapidly increasing, drives
17 prices up, returning investors to the industry and increasing output. (Hall Decl., ¶¶
18 64-65.)

19 **3. After a Comprehensive Study of AUO's Sales Between 2001 and**
20 **2006, Dr. Hall Finds No Proof of Any Measurable Overcharge**

21 “I have worked extensively with [Bruce] Deal, who testified at trial, on the
22 overcharge questions,” Dr. Hall testifies. (Hall Decl., ¶ 15, n. 7.) “I agree with his
23 opinions as presented at trial.” (*Id.*) In addition, Dr. Hall relies on the multiple
24 reports he has co-authored on the overcharge issue with Mr. Deal in the related civil
25 matters. (*Id.*) “My conclusion in this matter, based on extensive study of AUO's
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1 data and other evidence, is that the gain is substantially less than 10 percent. *My*
 2 *work does not find a measurable overcharge attributable to AUO.*” (*Id.* at ¶¶ 15, 65)
 3 (emphasis added.)

4 Among other things, Dr. Hall points to the prices AUO charged to other
 5 Crystal Meeting attendees in support of his conclusion. As discussed above, LG and
 6 Samsung could each have supplied their own panel needs if AUO had attempted to
 7 charge them a supracompetitive price. Since both LG and Samsung knew about the
 8 Crystal Meeting discussions, neither had any reason to pay AUO a price for panels
 9 which incorporated an overcharge. (Hall Decl., ¶¶ 34-35, 59-60.) Since AUO's
 10 considerable sales to LG and Samsung occurred at prices which were quite similar
 11 to those charged to other customers, Dr. Hall concludes that AUO collected no
 12 measurable overcharge.³³ (*Id.* at ¶ 60.)

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 16 **4. The Failure of the PSR, the Government or Dr. Leffler to**
 17 **Identify Any Lasting Reductions in Output in the Purported**
 18 **Target-Pricing Conspiracy Further Supports the Conclusion**
That Overcharges Were Minimal-To-Nonexistent

19 Economic theory supports Dr. Hall's conclusion that AUO collected no
 20 measurable overcharge as well. Economists recognize that a pure target-pricing
 21 conspiracy will face grave difficulty in maintaining a significant overcharge, since
 22 each individual member of the conspiracy will have an economic incentive to expand
 23 output. (Hall Decl., ¶¶ 55, 57; De Roos, Nicolas (2006), “Examining Models of
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25
 26 ³³ Nor can the Government argue that the sales to Samsung and LG, at prices
 27 similar to those charged other customers, are somehow an attempt to conceal
 28 the effects of the Crystal Meetings. As Dr. Hall points out, such a theory
 makes no sense, since—if Samsung and LG had wanted to conceal an alleged
 cartel—self-supply would have been more effective and less expensive. (Hall
 Decl. at ¶ 36.)

1 Collusion: The Market for Lysine,” *International Journal of Industrial*
2 *Organization*, Vol. 24, p. 1087; Sannikov, Yuliy and Andrzej Skrzypacz (December
3 2007) “Impossibility of Collusion under Imperfect Monitoring with Flexible
4 Production,” *The American Economic Review*, Vol. 97, No. 5, p. 1795.) The
5 Government has offered no compelling reasoning as to how the Crystal Meeting
6 companies would have surmounted this obstacle.
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9 **5. The Recent Verdict in the Toshiba Case Further Supports Dr.**
10 **Hall’s Conclusion That Overcharges Were Negligible, and Far**
11 **Below 10%**

12 Finally, Dr. Hall cites the recent verdict in the Toshiba civil trial as further
13 support for his conclusion that any overcharge was negligible. Although Toshiba
14 did not attend the Crystal Meetings, the plaintiffs in that action alleged a single,
15 overarching conspiracy of which the Crystal Meetings were only a part. It follows,
16 then, that any overcharge in the Toshiba case should have been at least as high as
17 the applicable overcharges arising from the Crystal Meetings, and perhaps higher.

18 In the Toshiba trial, the jury heard testimony from economists who presented
19 estimates of an overcharge ranging from less than one percent to 18 percent. (Hall
20 Decl., ¶¶ 14, 61.) Although the jury’s verdict was stated as a dollar amount rather
21 than an overcharge, the verdict equates to an overcharge of only 1.8%. (*Id.*) AUO
22 believes that the Toshiba jury verdict offers a logical ceiling for the maximum
23 overcharge multiplier here.
24

25 **V. CONCLUSION**

26 Although the final PSR ultimately recommended a below-Guidelines fine of
27 \$500 million, the PSR accepts the Government's calculation of a “volume of affected
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1 commerce” of \$2.34 billion. (PSR, ¶¶ 22, 24.) The Government’s analysis contains a
2 host of errors: (1) it fails to follow the same method of calculating the volume of
3 commerce used by the Government in connection with sentencing of the other
4 Crystal Meeting attendees and endorsed by the Government in its November 15,
5 2010 letter to the Court; (2) the Government and Dr. Leffler disregard Dr. Leffler’s
6 testimony and the Government’s theory at trial, extending the period of the
7 conspiracy an additional ten months and inflating the volume of commerce by \$858
8 million, 41% of the government’s total; (3) the Government includes sales of panels
9 described in the Superseding Indictment in the volume of affected commerce, rather
10 than limiting the calculation to those panel sales which were subject to particular
11 pricing discussions in the Crystal Meetings; (4) the Government includes panels
12 sold to LG and Samsung, but never explains why these companies, which attended
13 the Crystal Meetings, would have agreed to pay any overcharges at all; and (5) the
14 Government includes sales from AUO to Dell occurring on or after January 1, 2005,
15 even though Dell’s own economic expert in the related civil cases could find no
16 overcharge in those sales. Once these errors are corrected, the Government’s
17 volume of commerce calculation falls from \$2.3 billion to \$150 million. (Hall Decl.,
18 Appendix I.)

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23 Further, the Court should exercise its discretion to reject the 20% proxy in
24 the Guidelines for overcharge and lost consumer opportunity on constitutional,
25 policy and factual grounds. The Government has presented no evidence to support
26 a finding of losses caused by AUO’s conduct of anything approaching those sums.
27 Dr. Hall’s review and detailed analysis of AUO’s sales records reveals no
28

1 measurable overcharge, and a variety of factors, including the difficulty of
2 maintaining an overcharge in a target-pricing conspiracy, AUO's sales to LG and
3 Samsung at the same price charged to others, and the recent Toshiba verdict, all
4 confirm Dr. Hall's conclusion.
5

6 DATED: September 11, 2012

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ADDENDUM

A. The Volume of Affected Commerce Must Exclude Any TFT-LCD Panels Which Were Sold Overseas and Purportedly Were Shipped Into the United States By Third Parties as Part of a Computer Monitor, Notebook Computer or Television.

1. Such Panels Are Not Part of the “Offense,” Since Harm From Third-Party Monitors and Notebooks Was Not Properly Alleged In the Superseding Indictment

The “volume of affected commerce” is defined in U.S.S.G. § 2R1.1(d)(1) as a proxy for the calculation set forth in § 8C2.4(a): the “pecuniary gain to the organization *from the offense*” and “the pecuniary loss *from the offense* caused by the organization.” (Emphasis supplied). It follows, therefore, that the volume of affected commerce depends on the definition of the Sherman Act “offense.”

Since 1982, the extraterritorial scope of the Sherman Act has been limited by the FTAIA:

[The Sherman Act] shall not apply to conduct involving trade or commerce (other than import trade or import commerce) with foreign nations unless –

(1) such conduct has a direct, substantial, and reasonably foreseeable effect –

(A) on trade or commerce which is not trade or commerce with foreign nations, or on import trade or import commerce with foreign nations; or

(B) on export trade or export commerce with foreign nations, of a person engaged in such trade or commerce in the United States . . .

15 U.S.C. §6a.

This Court has recognized both that the FTAIA applies to the Government’s allegations, and that the FTAIA is an element of the Sherman Act offense, instructing the jury that one of the three “elements of the offense” was:

. . . that the members of the conspiracy engaged in one or both of the following activities:

1 (A) fixing the price of TFT-LCD panels targeted by the participants to
2 be sold in the United States or for delivery to the United States; or

3 (B) fixing the price of TFT-LCD panels that were incorporated into
4 finished products such as notebook computers, desktop computer
5 monitors, and televisions, and that this conduct had a direct,
6 substantial, and reasonably foreseeable effect on trade or commerce in
7 those finished products sold in the United States or for delivery to the
8 United States. In determining whether the conspiracy had such an
9 effect, you may consider the total amount of trade or commerce in
10 those finished products sold in the United States or for delivery to the
11 United States; however, the government's proof need not quantify or value
12 that effect.

13 (Dkt. No. 829, p. 10.)

14 An Indictment must set forth every element of the charged offense. Failure
15 to do so is a structural defect which is not subject to harmless error review. *United*
16 *States v. Du Bo*, 186 F.3d 1177, 1179-80 (9th Cir. 1999).

17 Computer monitors and notebook computers shipped into the United States
18 by third parties cannot qualify under the import exclusion to the FTAIA because
19 AUO is not directly involved in their importation. *In re TFT-LCD (Flat Panel)*
20 *Antitrust Litig.*, 2010 WL 2610641, *5 (N.D. Cal. 2010).

21 Nor did the Government adequately allege the "direct, substantial and
22 reasonably foreseeable" exclusion to the FTAIA with respect to computer monitors
23 and notebook computers. Although the Superseding Indictment arguably alleges a
24 "substantial" effect from defendants' conduct, nowhere does it allege that such an
25 effect was "direct" or "reasonably foreseeable."

26 TFT-LCD panels entering the United States as part of third-party monitors
27 and notebooks are not part of the "offense" alleged by the Superseding Indictment.
28 Such panels are therefore not part of the volume of commerce affected by the offense
for purposes of Guideline 2R1.1.

1 2. **Even If Third Party Consumer Products Had Been Properly**
2 **Alleged In the Indictment, the Effect on Commerce From Price-**
3 **Fixing An Economic Input Cannot Be “Direct” As a Matter of**
4 **Law**

5 Even if the Superseding Indictment were not fatally flawed, TFT-LCD panels
6 sold overseas and shipped into the United States as part of finished monitors and
7 notebooks could not properly be considered as part of the volume of commerce
8 affected by the offense. Because of the uncertainties involved in tracing the impact
9 of any alleged overcharges from sale of a component part through the final sale of
10 the consumer product, several courts have held that the overseas sale of an input
11 which is incorporated into a consumer product by a third party and imported into
12 the United States is not a sufficiently “direct” effect to satisfy the FTAIA.

13 For example, the plaintiffs in *In re Intel Corp. Microprocessor Antitrust*
14 *Litigation*, 476 F.Supp.2d 452 (D. Del. 2007) argued that Intel’s unlawful
15 overcharges for microprocessors had caused the manufacturers of personal
16 computers and other consumer products to raise their prices, ultimately injuring
17 the consumer plaintiffs. *Id.* at 454. The court pointed out that for plaintiffs to have
18 been harmed, any overcharge would have to be passed from an initial sale, to
19 OEMs, to retailers, and then on to consumers. “[T]his speculative chain of events is
20 insufficient to create the direct, substantial and reasonably foreseeable effects on
21 commerce required by the FTAIA.” *Id.* at 456. Similarly, the court in *United*
22 *Phosphorus, Ltd. v. Angus Chemical Co.*, 131 F.Supp.2d 1003 (N.D. Ill. 2001) held
23 that effects on domestic U.S. sales of ethambutol were not a “direct” effect of
24 defendant’s alleged interference with the plaintiff’s manufacture of AB, the key
25 ingredient of ethambutol. *Id.* at 1007, 1013-14. “The FTAIA explicitly bars
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1 antitrust actions alleging restraints in foreign markets for input . . . that are used
2 abroad to manufacture downstream products . . . that may later be imported into
3 the United States,” the court held. *Id.* at 1014. *See also Pabst Motoren GmbH &*
4 *Co., LG, v. Kanematsu-Goshu (U.S.A.), Inc.*, 629 F.Supp. 864, 869 (S.D.N.Y. 1986)
5 (restraint on sale of drive motors in Japan does not have a direct anticompetitive
6 effect on United States commerce based on subsequent sales of motors in United
7 States since jurisdiction “is not supported by every conceivable repercussion of the
8 action objected to on United States commerce”).

9
10
11 **3. The Government Has Produced No Evidence Showing That Any**
12 **Effect On U.S. Commerce Arising from Sales to Consumers of**
13 **Monitors and Notebooks Satisfied the Ninth Circuit Standard**
14 **for a “Direct” Effect**

15 According to the Ninth Circuit, an effect is “direct” under the FTAIA if it
16 “follows as an immediate consequence of the defendant’s activity.” *United States v.*
17 *LSL Biotechnologies*, 379 F.3d 672, 680 (9th Cir. 2004). As the courts above have
18 pointed out, where a manufacturer does not sell directly to consumers, determining
19 whether or not an effect is “direct” depends on whether overcharges are passed
20 through from one level of the distribution chain to another. Where a large and
21 uniform overcharge on a non-differentiated product that is resold only once in a
22 single distribution channel, tracing an overcharge can be relatively straightforward.
23 (Snyder Decl., ¶ 9.) In such cases, it might reasonably be said that an effect on
24 retail commerce has followed “as an immediate consequence of” the increase in price
25 of the input. But where an input is passed from an initial sale, to OEMs, to
26 retailers, and only then to consumers, each level of the distribution chain faces
27 differing competitive pressures, industry and cost structures, and passthrough
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1 depends on a host of factors. (*Id.* at ¶ 9.) Under such circumstances, any ultimate
2 effect an overcharge may have on commerce, far from being “direct,” is the product
3 of a long series of highly speculative “twists and turns.” *In re Intel Corp.*, 476
4 F.Supp.2d at 456; *LSL Biotechnologies*, 379 F.3d at 680.

5
6 If passthrough is not evaluated at each stage of distribution, analyses may
7 substantially overstate any harm to consumers. For example, if a product passes
8 through three intermediaries before reaching the end user, and each passes on 80
9 percent of an overcharge, then the end user will only see 51% of the overcharge in
10 the price he or she pays. If passthrough is estimated incorrectly for any one of the
11 stages, passthrough would be even lower. (Snyder Decl. at ¶ 13.) Although the
12 Government has presented no evidence relating to passthrough, the analysis of
13 AUO's economic expert Dr. Edward A. Snyder shows that any effect of alleged
14 overcharges in the TFT-LCD industry was certainly not “direct.”
15

16
17 **a. Economic Literature Does Not Support an Assumption of
100% Passthrough**

18 Dr. Snyder has reviewed the economic literature in order to help determine
19 whether the characteristics of the LCD industry would support a consistently high
20 rate of passthrough. If passthrough were consistent both vertically (up and down
21 distribution chains) and horizontally (across different distribution chains), such a
22 finding would lend support to the notion that an overcharge for TFT-LCD panels
23 might have a “direct” effect on U.S. commerce.
24

25 The empirical studies in the economic literature find a variety of passthrough
26 rates. (Snyder Decl., ¶ 30.) Dr. Snyder has reviewed thirty-eight such studies, and
27 third-five contain passthrough rates of less than 100%. Among the thirty studies
28

1 which do not relate to tax incidence, *all* contain passthrough estimates below 100%.
2 (*Id.* at ¶ 31.) In particular, studies have recognized that the relationship between
3 wholesalers and retailers can result in less than complete passthrough both in the
4 short and long run. Because relationships between upstream and downstream
5 firms are costly to attain and involve substantial direct negotiation, it can be
6 difficult for wholesalers to fully pass through cost changes. Additional factors, such
7 as local distribution costs and variable markup, may make wholesale prices more
8 static in the face of cost changes. (*Id.* at ¶¶ 31-32.)
9

10
11 **b. The Length and Complexity of Distribution Chains For
12 LCD Monitors and Notebooks Would Lead to Varying
Rates of Passthrough, Depending on a Variety of Factors**

13 The distribution chain from TFT-LCD panels to consumer products includes
14 several categories of activity where value is added: (1) the design and manufacture
15 of components from raw materials; (2) the design and assembly of components into
16 finished products; and (3) the marketing, distribution, sales and servicing of
17 finished products. (Snyder Decl., ¶ 16.) These three categories are distributed
18 across a variety of steps: component manufacturers, component distributors,
19 contract manufacturers, original design manufacturers, system integrators,
20 branded OEMs, distributors, and online and traditional retailers. (*Id.*) Some firms
21 use several different distribution chains. (*Id.* at ¶ 17.)
22

23 Dr. Snyder has shown that there are potentially as many as six levels of
24 distribution between the sale of an LCD monitor panel and the purchase of a
25 finished monitor by an end user. For example, an original equipment manufacturer
26 (“OEM”) may design and coordinate the manufacture of a PC system that will be
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1 sold under its brand name. In some cases the OEM will buy the monitor panel
2 directly from the manufacturer, while in others, the panel may be sold to an original
3 design manufacturer, contract manufacturer or system integrator. (*Id.* at ¶ 19.)
4
5 Once a panel has been incorporated into a finished monitor, other intermediaries
6 ranging from PC OEMs to distributors to retailers may purchase and resell the
7 finished monitor, and may or may not add economic value to what is sold. (*Id.* at
8 ¶20.) At each step, intermediaries may pass through all, most, or only some of an
9 alleged overcharge – a factor which is crucial to the determination of whether any
10 effect of the overcharge on U.S. commerce is “direct.”
11

12 Similarly, Dr. Snyder shows that there are potentially as many as five levels
13 of distribution between the sale of an LCD notebook panel and the purchase of the
14 finished notebook computer by a consumer. TFT-LCD panels form only 11-12
15 percent of the total cost of the notebook. (Snyder Decl. at ¶¶ 21-22.) Because a
16 variety of differentiating features are added as the notebook panel passes along the
17 distribution chain, the price of the panel is only one of many factors considered by
18 sellers at each stage of distribution when setting prices and deciding how much of a
19 price increase in LCD panels to pass through. (*Id.* at ¶ 22.)
20

21 Intermediaries making decisions to pass through overcharges face
22 substantially different competitive conditions, depending on the stage of the
23 distribution channel, on whether value-added processing was involved, on the time
24 period, and on the potential for substitution with other products. Retailers often
25 have different pricing practices and strategies. (*Id.* at ¶ 39.) Once conditions have
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1 diverged from perfect competition, which LCD products have, overcharges may be
2 absorbed in part or passed on to the next step in the distribution chain. (*Id.* at 40.)

3
4 **c. Industry Participants Have Testified That Changes In
Costs Are Often Not Fully Passed On**

5 Further, there is significant testimony in the related civil matters which
6 indicates that firms do not routinely pass through all changes in costs. This can
7 arise from contractual relationships between parties, such as when an OEM
8 negotiates prices with an Original Design Manufacturer (“ODM”) at which
9 components will be assembled before knowing the prices it will pay for the
10 individual components. If the price of the panel or other component unexpectedly
11 increases, the OEM may not be able to pass the increase along to the ODM. (*Id.* at
12 ¶ 42.) The same thing can happen between upstream firms and retailers; for
13 example, a representative of one OEM testified that prices for finished products sold
14 to retailers were set before the OEM knew what it would pay for TFT-LCD panels.
15 (*Id.* at ¶ 43.) Similarly, when panel buyers compete in the marketplace with far
16 larger companies able to extract discounts and rebates from panel manufacturers on
17 their purchases, smaller-scale buyers may be unable as a competitive matter to pass
18 along price increases. (*Id.* at ¶ 44.)

19 An effect on U.S. commerce is “direct” pursuant to *LSL Biotechnologies* only
20 if it “follows as an immediate consequence of the defendant’s activity.” *LSL*
21 *Biotechnologies*, 379 F.3d at 680. Dr. Snyder concludes that passthrough rates
22 would “vary” depending on a variety of different factors with little relationship to
23 the prices firms pay for TFT-LCD panels. (Snyder Decl., ¶¶ 47-49.) Given that the
24 Government has offered neither evidence nor contrary opinion regarding
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passthrough, the Government cannot show that any effect on U.S. commerce that overseas sales of TFT-LCD panels might have had was not “direct,” as required by the FTAIA and the Ninth Circuit in *LSL Biotechnologies*.