UNITED STATES DISTRICT COURT SOUTHERN DISTRICT OF NEW YORK

THOMAS LAUMANN, FERNANDA GARBER, ROBERT SILVER, DAVID DILLON, GARRETT TRAUB and PETER HERMAN, representing themselves and all others similarly situated,

CA No. 12-1817 (SAS)

Plaintiffs,

v.

NATIONAL HOCKEY LEAGUE, et al.

Defendants

FERNANDA GARBER, MARC LERNER, DEREK RASMUSSEN, ROBERT SILVER, GARRETT TRAUB, and PETER HERMAN, representing themselves and all others similarly situated,

CA No. 12-3704 (SAS)

ECF Cases

Plaintiffs,

٧.

OFFICE OF THE COMMISSIONER OF BASEBALL, et al.

Defendants

[CORRECTED EXHIBITS 6 AND 7]

SUPPLEMENTAL DECLARATION OF ARIEL PAKES

- 1. My name is Ariel Pakes. I submitted declarations in this matter on November 11, 2014 ("Initial Declaration") and January 16, 2015 ("Reply Declaration"), in which I set forth my opinions concerning the fundamental methodological flaws in the analysis of Plaintiffs' expert Dr. Roger Noll, contained in Dr. Noll's September 19, 2014 Supplemental Declaration and in his December 29, 2014 Reply Declaration. Dr. Noll's Reply Declaration contains a new model that produces new data that is different than that contained in his Supplemental Declaration, including different purported pricings for the products at issue in his but-for world. This Supplemental Declaration updates the exhibits from my Initial Declaration to take into account the new model and new data reflected in Dr. Noll's Reply Declaration.
- 2. Supplemental Exhibits 1-4 update Exhibits 1-4 to my Initial Declaration. I perform the same analysis detailed in my Initial Declaration using Dr. Noll's new data.
- 3. Supplemental Exhibits 5A-5B update Exhibits 5A-5B to my initial declaration. I perform the same analysis detailed in my Initial Declaration using Dr. Noll's new data.
- 4. Supplemental Exhibits 6-7 update Exhibits 6-7 to my initial declaration. I perform the same analysis detailed in my Initial Declaration using Dr. Noll's new data (but for the sake of simplicity I do not report the joint venture analysis contained in my Initial Declaration).

I declare under penalty of perjury under the laws of the United States that the Ariel Pakes foregoing is true and correct.

Executed on . 3 , 2015 at Palo Alto, California.

Pakes Supplemental Exhibit 1 Dr. Noll's Model Predicts Higher But-For Prices When DIRECTV is Allowed to Set Prices to Consumers for MLB Content

Actor	Noll Reply Exhibit 2C [A]	DIRECTV MLB Prices [B]		
1 Angels	\$11.42	\$41.74		
2 Astros	\$10.84	\$44.10		
3 Athletics	\$11.51	\$42,31		
4 Blue Jays	\$10.81	\$42.19		
5 Braves	\$12.89	\$41.07		
6 Brewers	\$10.54	\$43.04		
7 Cardinals	\$11.81	\$42.08		
8 Cubs	\$11.42	\$42.33		
9 Diamondbacks	\$10.55	\$43.93		
10 Dodgers	\$12.75	\$40.22		
11 Giants	\$11.40	\$41.31		
12 Indians	\$11.15	\$43.28		
13 Mariners	\$10.67	\$43,25		
14 Marlins	\$10.69	\$43.14		
15 Mets	\$11.88	\$41.75		
16 Nationals	\$12.83	\$41.01		
17 Orioles	\$11.74	\$43.31		
18 Padres	\$11.18	\$42.55		
19 Phillies	\$12.69	\$42.18		
20 Pirates	\$10.66	\$43.35		
21 Rangers	\$11.49	\$42.42		
22 Rays	\$11.69	\$42.34		
23 Red Sox	\$12.91	\$41.02		
24 Reds	\$11.26	\$42.85		
25 Rockies	\$10.50	\$42.93		
26 Royals	\$10.53	\$43.05		
27 Tigers	\$12.08	\$42.29		
28 Twins	\$10.89	\$43.01		
29 White Sox	\$10.95	\$42.58		
30 Yankees	\$15.94	\$38.87		
31 BFW League Package	\$24.42	\$40.73		
32 BFW League Package price relative to DIRECTV's MLB Extra Innings package price	-\$9.17	\$7.14		

Source: Noll Reply Declaration

Note: DIRECTV's MLB Extra Innings package price according to Dr. Noll is \$33.59 per month. The predicted BFW League Package price of \$40.73 is statistically higher than \$33.59 at the 5% confidence level. The 95% confidence interval is \$39.81 to \$41.65.

[[]A] This column replicates Noll's Reply Exhibit 2C.

[[]B] Predicted prices from Dr. Noll's DIRECTV model when the model is updated to allow DIRECTV to set the prices it charges for each team's channel and the BFW League Package.

Pakes Supplemental Exhibit 2 Comparison of Dr. Noll's But-For Internet and DIRECTV Prices for MLB Content

	Noll Reply Exhibit 2A Internet Price per month	Noll Reply Exhibit 2C DIRECTV Price per month	Percent Difference ([B] – [A]) / [A]	
Actor	[A]	[B]		
1 Angels	\$7.63	\$11.42	49.7%	
2 Astros	\$6.55	\$10.84	65.5%	
3 Athletics	\$7.13	\$11.51	61.4%	
4 Blue Jays	\$6.84	\$10.81	58.2%	
5 Braves	\$8.46	\$12.89	52.3%	
6 Brewers	\$6.81	\$10.54	54.7%	
7 Cardinals	\$8.24	\$11.81	43.3%	
8 Cubs	\$7.49	\$11.42	52.5%	
9 Diamondbacks	\$6.84	\$10.55	54.3%	
10 Dodgers	\$8.60	\$12.75	48.2%	
11 Giants	\$8.14	\$11.40	40.0%	
12 Indians	\$6.88	\$11.15	62.2%	
13 Mariners	\$6.92	\$10.67	54.2%	
14 Marlins	\$6.68	\$10.69	60.0%	
15 Mets	\$7.70	\$11.88	54.2%	
16 Nationals	\$7.48	\$12.83	71.5%	
17 Orioles	\$7.57	\$11.74	55.0%	
18 Padres	\$6.81	\$11.18	64.3%	
19 Phillies	\$8.41	\$12.69	50.8%	
20 Pirates	\$7.29	\$10.66	46.2%	
21 Rangers	\$7.40	\$11.49	55.3%	
22 Rays	\$7.16	\$11.69	63.4%	
23 Red Sox	\$9.10	\$12.91	41.9%	
24 Reds	\$7.20	\$11.26	56.4%	
25 Rockies	\$6.64	\$10.50	58.1%	
26 Royals	\$6.67	\$10.53	57.8%	
27 Tigers	\$8.35	\$12.08	44.6%	
28 Twins	\$6.98	\$10.89	55.9%	
29 White Sox	\$7.12	\$10.95	53.8%	
30 Yankees	\$10.21	\$15.94	56.1%	
31 BFW League Package	\$14.50	\$24.42	68.4%	
Average	\$7.51	\$11.59	54.7%	
Actual World League Package Price	\$20.05	\$33.59	67.5%	

Source: Noll Reply Declaration

Note

[A] This column replicates Noll's Reply Exhibit 2A.

[B] This column replicates Noll's Reply Exhibit 2C.

Pakes Supplemental Exhibit 3 Dr. Noll's Model Predicts a DIRECTV MLB But-For Package Price That Is Not Lower Than the Actual World Price of the OMP When the League Prices as a Joint Venture

Actor	Noll Reply Exhibit 2C [A]	Dr. Noll's But-For Prices Accounting for Joint Venture Incentives [B]
1 Angels	\$11.42	\$11.56
2 Astros	\$10.84	\$10.93
3 Athletics	\$11.51	\$11.65
4 Blue Jays	\$10,81	\$10.90
5 Braves	\$12.89	\$13.22
6 Brewers	\$10.54	\$10.61
7 Cardinals	\$11.81	\$11.98
8 Cubs	\$11.42	\$11.55
9 Diamondbacks	\$10.55	\$10.62
10 Dodgers	\$12.75	\$13.02
11 Giants	\$11.40	\$11.55
12 Indians	\$11.15	\$11,26
13 Mariners	\$10.67	\$10.74
14 Marlins	\$10.69	\$10.77
15 Mets	\$11.88	\$12.06
16 Nationals	\$12.83	\$13.08
17 Orioles	\$11.74	\$11.91
18 Padres	\$11.18	\$11.31
19 Phillies	\$12.69	\$12.97
20 Pirates	\$10.66	\$10.74
21 Rangers	\$11.49	\$11.64
22 Rays	\$11.69	\$11.85
23 Red Sox	\$12.91	\$13.23
24 Reds	\$11.26	\$11.39
25 Rockies	\$10.50	\$10.57
26 Royals	\$10.53	\$10.60
27 Tigers	\$12.08	\$12.30
28 Twins	\$10.89	\$10.98
29 White Sox	\$10.95	\$11.05
30 Yankees	\$15.94	\$16.53
31 BFW League Package	\$24.42	\$33.34
32 BFW League Package price relative to DIRECTV's MLB Extra Innings package price	-\$9.17	-\$0.25

Source: Noll Reply Declaration

Note: DIRECTV's MLB Extra Innings package price according to Dr. Noll is \$33.59 per month. The predicted BFW League Package price of \$33.34 is not statistically different from the actual world OMP price of \$33.59 at the 5% confidence level. The 95% confidence interval is \$32.68 to \$33.99.

[B] Predicted prices from Dr. Noll's model when the model is updated to allow the League to have joint venture incentives and to allow the teams to account for the revenue they receive from the BFW League Package. In the updated model, each team sets the price of its own channel to maximize the profits it receives from the sales of its own channel plus its share of the profits from the BFW League Package, which is equal to 1/30 of the profits of the BFW League Package. The League, in turn, is concerned with the aggregate industry profits, including the sales of the BFW League Package.

[[]A] This column replicates Noll's Reply Exhibit 2C.

Pakes Supplemental Exhibit 4 Dr. Noll's Model Predicts an Internet NHL But-For Package Price That Is Not Lower Than the Actual World Price of the OMP When the League Prices as a Joint Venture

Dr. Noll's But-For Prices Accounting for Joint Venture Incentives Noll Reply Exhibit 2B [A] [B] Actor \$5.87 \$5.96 1 Ducks \$7.23 \$6.98 2 Bruins 3 Sabres \$6.61 \$6.81 \$5.57 \$5.65 4 Hurricanes \$5.90 \$5.81 5 Flames 6 Black Hawks \$7.34 \$7.64 \$5.19 \$5.23 7 Blue Jackets \$5.55 \$5.62 8 Avalanche 9 Stars \$5.75 \$5.85 10 Red Wings \$8,72 \$9,23 \$5.66 \$5.74 11 Oilers 12 Panthers \$5.68 \$5.75 13 Kings \$6.81 \$7.03 \$5.41 \$5.47 14 Wild 15 Canadiens \$5.60 \$5.67 \$6.48 \$6.31 16 Devils \$5.48 \$5.55 17 Predators 18 Islanders \$5.70 \$5.78 \$6.82 \$7.06 19 Rangers 20 Senators \$5.36 \$5.41 \$8.04 \$8.50 21 Flyers 22 Coyotes \$5.53 \$5.60 23 Penguins \$9.54 \$10.21 24 Sharks \$6.34 \$6.50 25 Blues \$6.11 \$6,24 26 Lightning \$5.17 \$5.21 27 Maple Leafs \$6.20 \$6.33 \$6.87 \$7.09 28 Canucks 29 Jets \$5.35 \$5.41 \$7.00 \$7.26 30 Capitals 31 BFW League Package \$18.08 \$25.73 32 BFW League package price relative -\$8.20 -\$0.55 to NHL GameCenter LIVE package price

Source: Noll Reply Declaration

Note: NHL GameCenter LIVE package price according to Dr. Noll is \$26.28 per month. The predicted BFW League Package price of \$25.73 is not statistically different from the actual world OMP price of \$26.28 at the 5% confidence level. The 95% confidence interval is \$24.71 to \$26.75.

[B] Predicted prices from Dr. Noll's model when the model is updated to allow the League to have joint venture incentives and to allow the teams to account for the revenue they receive from the BFW League Package. In the updated model, each team sets the price of its own channel to maximize the profits it receives from the sales of its own channel plus its share of the profits from the BFW League Package, which is equal to 1/30 of the profits of the BFW League Package. The League, in turn, is concerned with the aggregate industry profits, including the sales of the BFW League Package.

[[]A] This column replicates Noll's Reply Exhibit 2B.

Pakes Supplemental Exhibit 5A Dr. Noll's DIRECTV MLB Model is Not in Equilibrium Because the Yankees Have an Incentive to Deviate Prices

Dr. Noll's BFW League		V League Package	BFW League Package Without the Yankees		
Actor	Dr. Noll's Incentives [A]	Joint Venture Incentives [B]	Dr. Noll's Incentives [C]	Joint Venture Incentives	
1 Angels	\$11.42	\$11.56	\$11.44	\$11.55	
2 Astros	\$10.84	\$10.93	\$10.85	\$10.92	
3 Athletics	\$11.51	\$11.65	\$11.52	\$11.63	
4 Blue Jays	\$10,81	\$10.90	\$10.82	\$10.89	
5 Braves	\$12.89	\$13.22	\$12.91	\$13.17	
6 Brewers	\$10.54	\$10.61	\$10.54	\$10.60	
7 Cardinals	\$11.81	\$11.98	\$11.82	\$11.96	
8 Cubs	\$11.42	\$11.55	\$11.43	\$11.53	
9 Diamondbacks	\$10.55	\$10.62	\$10.56	\$10.61	
10 Dodgers	\$12,75	\$13.02	\$12.77	\$12.98	
11 Giants	\$11.40	\$11.55	\$11.41	\$11.53	
12 Indians	\$11,15	\$11.26	\$11.16	\$11,25	
13 Mariners	\$10,67	\$10.74	\$10.67	\$10.74	
14 Marlins	\$10.69	\$10.77	\$10,69	\$10.76	
15 Mets	\$11.88	\$12.06	\$11.89	\$12.03	
16 Nationals	\$12.83	\$13.08	\$12.84	\$13.05	
17 Orioles	\$11.74	\$11.91	\$11.74	\$11.88	
18 Padres	\$11.18	\$11.31	\$11.19	\$11.29	
19 Phillies	\$12.69	\$12.97	\$12.70	\$12.93	
20 Pirates	\$10.66	\$10.74	\$10.67	\$10.73	
21 Rangers	\$11.49	\$11.64	\$11.50	\$11.62	
22 Rays	\$11.69	\$11.85	\$11.70	\$11.83	
23 Red Sox	\$12.91	\$13.23	\$12.93	\$13.19	
24 Reds	\$11.26	\$11.39	\$11.27	\$11.37	
25 Rockies	\$10.50	\$10.57	\$10.51	\$10.56	
26 Royals	\$10.53	\$10.60	\$10.53	\$10.59	
20 Noyals 27 Tigers	\$10.03 \$12.08	\$12.30	\$12.09	\$12.26	
27 Tigers 28 Twins	\$10.89	\$10,98	\$10.89	\$10,97	
29 White Sox	\$10.95	\$11.05	\$10.96	\$10.57 \$11.04	
30 Yankees	\$15.94	\$16.53	\$22.64	\$22.31	
31 BFW League Package	\$24.42	\$33,34	\$25.93	\$32.86	
32 Teams Avg.	\$24.42 \$11.59	\$33.34 \$11.75	\$25.53 \$11.82	\$32.66 \$11.93	
33 Price of Creating	\$24.42	\$33.34	\$48.58	\$55.17	
Full BFW Package	₽£ 4. 4£	\$33.34	\$40.00	\$00.11	
Choice Set					
34 Favorite	✓	✓	✓	✓	
35 Full BFW Package	✓	✓	✓	✓	
36 Partial BFW Package			✓	✓	

Source: Noll Reply Declaration

Note: All values are expressed in dollars.

[[]A] This column replicates Noll's Reply Exhibit 2C.

[[]B] Predicted prices from Dr. Noll's model when the model is updated to allow the League to have joint venture incentives and to allow the teams to account for the revenue they receive from the BFW League Package. In the updated model, each team sets the price of its own channel to maximize the profits it receives from the sales of its own channel plus its share of the profits from the BFW League Package, which is equal to 1/30 of the profits of the BFW League Package. The League, in turn, is concerned with the aggregate industry profits, including the sales of the BFW League Package.

[[]C] Predicted prices from Dr. Noll's model when the Yankees are not part of the BFW League Package, but consumers have the option of replicating the full BFW League Package by purchasing the BFW League Package (without the Yankees) and the Yankees channel.

[[]D] Predicted prices from the model in [B] when the Yankees are not part of the BFW League Package, but consumers have the option of replicating the full BFW League Package by purchasing the BFW League Package (without the Yankees) and the Yankees channel. The Yankees do not receive a portion of the League's profits, and the remaining teams each receive 1/29 of the of the BFW League Package profits.

Pakes Supplemental Exhibit 5B Dr. Noll's DIRECTV MLB Model is Not in Equilibrium Because the Yankees Have an Incentive to Deviate Profit

	Dr. Noll's BFV	V League Package	BFW League Package Without the Yankees		
Actor	Dr. Noll's Incentives [A]	Joint Venture Incentives [B]	Dr. Noll's Incentives [C]	Joint Venture Incentives [D]	
1 Angels	\$467,465	\$478,251	\$470,587	\$478,829	
2 Astros	\$386,797	\$395,108	\$389,172	\$395,558	
3 Athletics	\$465,734	\$476,506	\$468,798	\$477,030	
4 Blue Jays	\$450,898	\$460,473	\$453,695	\$461,039	
5 Braves	\$550,792	\$566,248	\$554,620	\$566,366	
6 Brewers	\$410,315	\$418,768	\$412,830	\$419,329	
7 Cardinals	\$473,493	\$484,919	\$476,569	\$485,303	
8 Cubs	\$450,634	\$460,927	\$453,533	\$461,410	
9 Diamondbacks	\$403,468	\$411,744	\$405,954	\$412,328	
10 Dodgers	\$581,836	\$597,508	\$585,846	\$597,764	
11 Giants	\$462,272	\$473,093	\$465,225	\$473,496	
12 Indians	\$445,827	\$455,685	\$448,558	\$456,118	
13 Mariners	\$414,112	\$422,723	\$416,688	\$423,308	
14 Marlins	\$418,465	\$427,289	\$421,027	\$427,800	
15 Mets	\$466,838	\$478,218	\$470,134	\$478,821	
16 Nationals	\$552,105	\$566,670	\$555,823	\$566,918	
17 Orioles	\$471,713	\$483,128	\$474,771	\$483,479	
18 Padres	\$459,181	\$469,638	\$462,183	\$470,185	
19 Phillies	\$577,111	\$592,596	\$581,185	\$592,956	
20 Pirates	\$410,086	\$418,640	\$412,626	\$419,198	
21 Rangers	\$434,212	\$444,335	\$436,995	\$444,734	
22 Rays	\$488,560	\$500,128	\$491,738	\$500,578	
23 Red Sox	\$575,955	\$592,082	\$580,239	\$592,505	
24 Reds	\$437,579	\$447,535	\$440,336	\$447,952	
25 Rockies	\$411,110	\$419,525	\$413,584	\$420,056	
26 Royals	\$392,673	\$400,787	\$395,045	\$401,292	
27 Tigers	\$512,804	\$525,782	\$516,203	\$526,096	
28 Twins	\$432,351	\$441,667	\$435,104	\$442,253	
29 White Sox	\$424,588	\$433,795	\$427,300	\$434,356	
30 Yankees	\$922,304	\$954,778	\$1,132,183	\$1,116,939	
31 BFW League Package	\$3,662,656	\$3,577,034	\$3,908,276	\$3,859,082	
32 Teams Total	\$14,351,277	\$14,698,545	\$14,648,549	\$14,873,996	
33 Teams Avg. (exc. Yankees)	\$463,068	\$473,923	\$466,082	\$474,381	
Choice Set					
33 Favorite	*	-	✓,	Y	
34 Full BFW Package	✓	✓	~	✓.	
35 Partial BFW Package			✓	✓	

Source: Noll Reply Declaration

Note: All values are expressed in dollars.

[[]A] This column shows the profits from the analysis Dr. Noll presents in his Reply Exhibit 2C.

[[]B] Predicted profits from Dr. Noll's model when the model is updated to allow the League to have joint venture incentives and to allow the teams to account for the revenue they receive from the BFW League Package. In the updated model, each team sets the price of its own channel to maximize the profits it receives from the sales of its own channel plus its share of the profits from the BFW League Package, which is equal to 1/30 of the profits of the BFW League Package. The League, in turn, is concerned with the aggregate industry profits, including the sales of the BFW League Package.

[[]C] Predicted profits from Dr. Noll's model when the Yankees are not part of the BFW League Package, but consumers have the option of replicating the full BFW League Package by purchasing the BFW League Package (without the Yankees) and the Yankees channel.

[[]D] Predicted profits from the model in [B] when the Yankees are not part of the BFW League Package, but consumers have the option of replicating the full BFW League Package by purchasing the BFW League Package (without the Yankees) and the Yankees channel. The Yankees do not receive a portion of the League's profits, and the remaining teams each receive 1/29 of the of the BFW League Package profits.

Pakes Supplemental Exhibit 6 Dr. Noll's DIRECTV MLB Model Is Not in Equilibrium Because Each Team Has a Unilateral Incentive to Deviate

	Individ		Individual Team Prices [A]		League Prices [B]		Individual Team Profits [C]	
	Excluded Team	Pre-Deviation	Post-Deviation	Reduced Package	Price of Creating Full BFW Package	Pre-Deviation	Post-Deviation	[D]
1	Angels	\$11.42	\$14.52	\$24.89	\$39.42	\$467,465	\$543,998	\$18,272,266
2	Astros	\$10.84	\$13.65	\$24.78	\$38.43	\$386,797	\$448,500	\$18,229,245
3	Athletics	\$11.51	\$14.95	\$24.92	\$39.87	\$465,734	\$544,471	\$18,282,252
4	Blue Jays	\$10.81	\$13.14	\$24.79	\$37.93	\$450,898	\$518,725	\$18,246,612
5	Braves	\$12.89	\$18.19	\$25.14	\$43,33	\$550,792	\$658,510	\$18,340,798
6	Brewers	\$10.54	\$12.66	\$24.74	\$37.40	\$410,315	\$470,703	\$18,222,020
7	Cardinals	\$11.81	\$15.69	\$24.96	\$40.65	\$473,493	\$557,001	\$18,291,535
8	Cubs	\$11.42	\$14.75	\$24,89	\$39.64	\$450,634	\$525,958	\$18,272,933
9	Diamondbacks	\$10,55	\$12.81	\$24.75	\$37,57	\$403,468	\$463,971	\$18,225,769
10	Dodgers	\$12.75	\$17.14	\$25.16	\$42.30	\$581,836	\$689,895	\$18,348,790
11	Glants	\$11.40	\$14.53	\$24.88	\$39.41	\$462,272	\$538,233	\$18,266,631
12	Indians	\$11.15	\$14.22	\$24.88	\$39.10	\$445,827	\$518,582	\$18,266,454
13	Mariners	\$10.67	\$13.01	\$24,78	\$37.78	\$414,112	\$476,652	\$18,232,893
14	Marlins	\$10.69	\$12.97	\$24.76	\$37.73	\$418,465	\$481,341	\$18,227,754
15	Mets	\$11,88	\$15.93	\$24.96	\$40,89	\$466,838	\$549,741	\$18,292,927
16	Nationals	\$12.83	\$17.59	\$25.13	\$42.72	\$552,105	\$657,248	\$18,348,837
17	Orioles	\$11.74	\$15.54	\$24.94	\$40.48	\$471,713	\$554,257	\$18,284,039
18	Padres	\$11.18	\$14.17	\$24,86	\$39.03	\$459,181	\$533,448	\$18,263,423
19	Phillies	\$12.69	\$17.76	\$25.20	\$42.97	\$577,111	\$688,046	\$18,359,953
20	Pirates	\$10.66	\$13.00	\$24.76	\$37.76	\$410,086	\$472,205	\$18,228,756
21	Rangers	\$11.49	\$15.00	\$24,89	\$39.89	\$434,212	\$507,974	\$18,264,168
22		\$11.69	\$15.37	\$24.97	\$40.34	\$488,560	\$572,730	\$18,298,101
23	Red Sox	\$12.91	\$18.26	\$25.17	\$43.43	\$575,955	\$689,622	\$18,358,673
24	Reds	\$11.26	\$14.28	\$24.84	\$39.13	\$437,579	\$508,944	\$18,251,728
25	Rockies	\$10.50	\$12.56	\$24,72	\$37,29	\$411,110	\$470,911	\$18,220,028
26	Royals	\$10,53	\$12.76	\$24.72	\$37.47	\$392,673	\$451,256	\$18,217,063
27	Tigers	\$12.08	\$16.47	\$25.05	\$41.51	\$512,804	\$606,367	\$18,315,709
28	-	\$10.89	\$13.49	\$24.81	\$38.30	\$432,351	\$499,735	\$18,246,270
29	White Sox	\$10.95	\$13.60	\$24.80	\$38.40	\$424,588	\$490,899	\$18,243,757
30	Yankees	\$15.94	\$22,64	\$25,93	\$48.58	\$922,304	\$1,132,183	\$18,556,826

Source: Noll Reply Declaration

Note: All values are expressed in dollars. DIRECTV's MLB Extra Innings package price according to Dr. Noti is \$33,59 per month. Industry profits under Dr. Noti's model are \$16.01 million. Noti Reply Exhibit 4.

[B] Reduced BFW League Package shows the price of the BFW League Package when the given team's feed is not included in the BFW League Package. Price of Creating Full BFW Package shows the price of purchasing both the reduced BFW League Package and the excluded team's channel.

[D] As in [A], [B], and [C], each row represents a situation in which the given team is not included in the BFW League Package, but consumers have the option of replicating the full BFW League Package by purchasing the excluded learn's channel and the BFW League Package, which excludes the team. Industry profils represent the aggregate of all individual channels plus the profits from the BFW League Package.

[[]A] The prices of individual teams' feeds in Dr. Noll's model before and after exclusion from the BFW League Package. The pre-deviation scenario shows the results from Dr. Noll's Reply Exhibit 2C. In the post-deviation scenario, each row represents a situation in which the given team is not included in the BFW League Package, but consumers can replicate the full bundle by purchasing the EFW League Package and the excluded team's channel.

[[]C] The profits earned by the excluded team.

Pakes Supplemental Exhibit 7 Dr. Noll's Internet NHL Model is Not in Equilibrium Because Each Team Has a Unilateral Incentive to Deviate

		individual Team Prices [A]		League Prices [B]		Individual Team Profits [C]		Post-Deviation Industry Profits
				Price of Creating Full				
	Excluded Team	Pre-Deviation	Post-Deviation	Reduced Package	BFW Package	Pre-Deviation	Post-Deviation	[D]
1	Ducks	\$5.87	\$11.36	\$18,53	\$29.89	\$45,771	\$52,177	\$2,053,276
2	Bruins	\$6.98	\$13.86	\$18,67	\$32.53	\$57,384	\$67,403	\$2,061,741
3	Sabres	\$6.61	\$10.85	\$18,65	\$29.41	\$55,080	\$63,544	\$2,055,213
4	Hurricanes	\$5.57	\$8,50	\$18.40	\$26.90	\$44,861	\$50,284	\$2,047,607
5	Flames	\$5.81	\$9,36	\$18.45	\$27,81	\$48,823	\$55,166	\$2,051,106
6	Black Hawks	\$7.34	\$13.78	\$18.66	\$32.44	\$58,744	\$69,380	\$2,061,150
7	Blue Jackets	\$5.19	\$6.55	\$18.23	\$24.78	\$40,570	\$44,721	\$2,040,167
8	Avalanche	\$5.55	\$8.72	\$18.43	\$27.15	\$44,728	\$50,180	\$2,048,326
9	Stars	\$5.75	\$10.60	\$18.42	\$29.03	\$43,038	\$48,764	\$2,049,472
10	Red Wings	\$8.72	\$16,22	\$18.97	\$35.19	\$73,479	\$88,936	\$2,071,195
11	Oilers	\$5,66	\$8.68	\$18.46	\$27.14	\$48,480	\$54,450	\$2,050,048
12	Panthers	\$5,68	\$9,51	\$18.47	\$27.98	\$45,402	\$51,243	\$2,050,230
13	Kings	\$6.81	\$14,56	\$18.65	\$33,21	\$52,821	\$62,262	\$2,060,222
14	Wild	\$5.41	\$7.70	\$18.38	\$26.08	\$43,231	\$48,240	\$2,045,264
15	Canadiens	\$5.60	\$7.86	\$18.35	\$26,20	\$47,563	\$53,099	\$2,046,696
16	Devils	\$6.31	\$12.85	\$18.53	\$31.37	\$48,875	\$56,597	\$2,055,396
17	Predators	\$5,48	\$7.71	\$18.32	\$26.03	\$42,998	\$47,970	\$2,044,357
18	Islanders	\$5.70	\$8.51	\$18.38	\$26,89	\$44,171	\$49,639	\$2,046,431
19	Rangers	\$6.82	\$16,17	\$18.66	\$34.84	\$52,611	\$62,440	\$2,061,475
20	Senators	\$5,36	\$6,97	\$18.29	\$25,25	\$45,343	\$50,186	\$2,043,488
21	Flyers	\$8.04	\$16.10	\$18,87	\$34,97	\$66,273	\$79,830	\$2,067,765
22	Coyptes	\$5.53	\$8.43	\$18.39	\$26.82	\$44,470	\$49,809	\$2,047,449
23	Penguins	\$9.54	\$18.35	\$19.12	\$37.47	\$78,563	\$96,850	\$2,076,058
24	Sharks	\$6.34	\$12,59	\$18,54	\$31.13	\$50,884	\$58,936	\$2,056,583
25	Blues	\$6.11	\$11.31	\$18.48	\$29.79	\$47,739	\$54,712	\$2,053,033
26	Lightning	\$5,17	\$6.53	\$18.25	\$24.79	\$41,033	\$45,245	\$2,040,683
27	Maple Leafs	\$6.20	\$12.25	\$18.59	\$30.84	\$52,536	\$60,497	\$2,058,209
28	Canucks	\$6.87	\$13.12	\$18.70	\$31.82	\$59,975	\$70,021	\$2,062,752
29	Jets	\$5.35	\$7.23	\$18,33	\$25.56	\$45,211	\$50,181	\$2,044,779
30	Capitals	\$7.00	\$14.63	\$18.68	\$33.30	\$55,518	\$65,614	\$2,062,265

Note: All values are expressed in dollars, NHL GameCenter LIVE package price according to Dr. Noll is \$26.26 per month. The Industry profits under Dr. Noll's model are \$2.02 million. Noll Reply Exhibit 4.

[[]A] The profits of individual learns' feeds in Dr. Noll's model before and after exclusion from the BFW League Package. The pre-deviation scenario shows the results from Dr. Noll's Reply Exhibit 2C. In the post-deviation scenario, each row represents a situation in which the given team is not included in the BFW League Package, but consumers can replicate the full bundle by purchasing the BFW League Package and the excluded team's channel.

^[8] Reduced BFW League Package shows the price of the BFW League Package when the given team's feed is not included in the BFW League Package. Price of Creating Full BFW Package shows the price of purchasing both the reduced BFW League Package and the excluded team's channel.

[[]C] The profits earned by the excluded team.

[[]D] As In [A], [B], and [C], each row represents a situation in which the given team is not included in the BFW League Package, but consumers have the option of replicating the full BFW League Package by purchasing the excluded team's channel and the BFW League Package, which excludes the team. Industry profits represent the aggregate of all individual teams' profits from individual channels plus the profits from the BFW League Package.