**APPENDIX G**

GENERAL NO$_x$ REMOVAL TECHNOLOGY DESCRIPTIONS

G.1   SELECTIVE CATALYTIC REDUCTION

G.1.1 Process Description

SCR utilizes a nitrogen-based reducing agent, such as urea or ammonia, to reduce flue gas NO$_x$ to molecular nitrogen (N$_2$) and water vapor (H$_2$O). The SCR process employs a metal-based catalyst to increase the rate of the reduction reaction, resulting in a higher NO$_x$ removal efficiency within a lower and broader temperature window than is possible for a non-catalyzed process. The dominant reduction reactions involved in the SCR process are described by the following equations:

$$4NO + 4NH_3 + O_2 \rightarrow 4N_2 + 6H_2O$$

$$2NO_2 + 4NH_3 + O_2 \rightarrow 3N_2 + 6H_2O$$
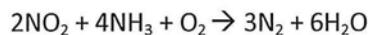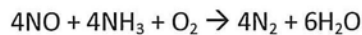
The NO$_x$ reduction reactions occur as the flue gas passes through the catalyst chamber. Reagent is injected into the flue gas downstream of the combustion unit and economizer through an injection grid mounted in the ductwork. The reagent is typically diluted with compressed air or steam to aid in injection, and is injected at a sufficient distance upstream of the catalyst chamber to allow for adequate mixing of the reagent and flue gas. The hot flue gas and reagent then flow into the catalyst, where NO$_x$ in the flue gas chemically reduces into nitrogen and water. The nitrogen, water, and other flue gas constituents then flow out of the SCR reactor. The SCR process has demonstrated removal efficiencies of 70-90% NO$_x$ in various coal-fired utility boiler applications.
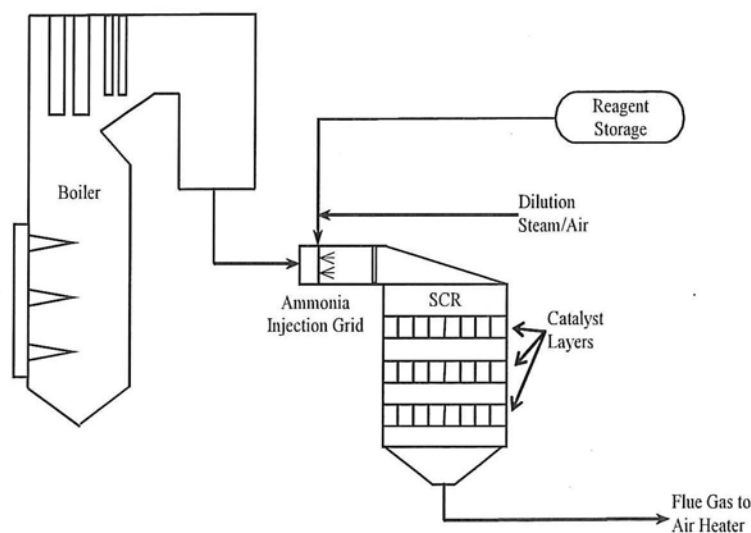

Figure G.1 SCR System Arrangement

G.1.2 Reagent Preparation

The reducing reagent for SCR can be supplied by either anhydrous or aqueous ammonia or from urea. In all cases the reagent is vaporized to achieve a gaseous state and then it is diluted with hot air before it is injected into the flue gas upstream of the SCR. The type of vaporizer and energy input required for successful vaporization depends on the reagent type, with anhydrous requiring the least amount of energy to vaporize and urea requiring the greatest amount of energy to vaporize.

G.1.3 By-product Handling

There is no by-product produced by the SCR process and, therefore, no by-product handling. However, the catalyst does deteriorate over time, exhibiting reduced reactivity. Every 3-5 years the catalyst must be replaced or regenerated.

G.2   SELECTIVE NON-CATALYTIC REDUCTION

G.2.1 Process Description

Selective Non-catalytic Reduction (SNCR) utilizes a nitrogen-based reducing agent, such as urea or ammonia, to reduce flue gas NO_x to molecular nitrogen (N_2) and water vapor (H_2O). The dominant reduction reactions involved in the SNCR process are described by the following equations:

Ammonia Reagent: $4NO + 4NH_3 + O_2 \rightarrow 4N_2 + 6H_2O$

Urea Reagent: $4NO + 2(NH_2)_2CO + O_2 \rightarrow 4N_2 + 4H_2O + 2CO_2$

These reactions occur within the furnace, which acts as a reaction chamber for the SNCR process. Ammonia or urea reagent is injected into the boiler interior in the post-combustion, upper area of the furnace, and the convective passes. Upon injection, the reagent mixes with the flue gas. The heat in the boiler provides energy for the reduction reaction of NO_x to nitrogen and water vapor to occur. The reacted flue gas then flows out of the reactor. Both ammonia and urea have been successfully employed as reagents in the SNCR process. The major difference between the ammonia and urea processes is that ammonia is typically injected into the flue gas in a gaseous state, while urea is injected as a solution. The acceptable temperature range for either reaction is 1400 to 2000ºF, with temperatures above 1700°F preferred. Above 2000°F, ammonia and urea° can react with oxygen in the flue gas to form additional NO_x.

The SNCR process has demonstrated NO_x removal efficiencies of 30-70% depending upon the boiler NO_x levels and operating conditions (temperature, residence time, load stability, etc). For the Weston 3 application, is has been estimated that SNCR would only be capable of achieving a 25% reduction in NO_x.
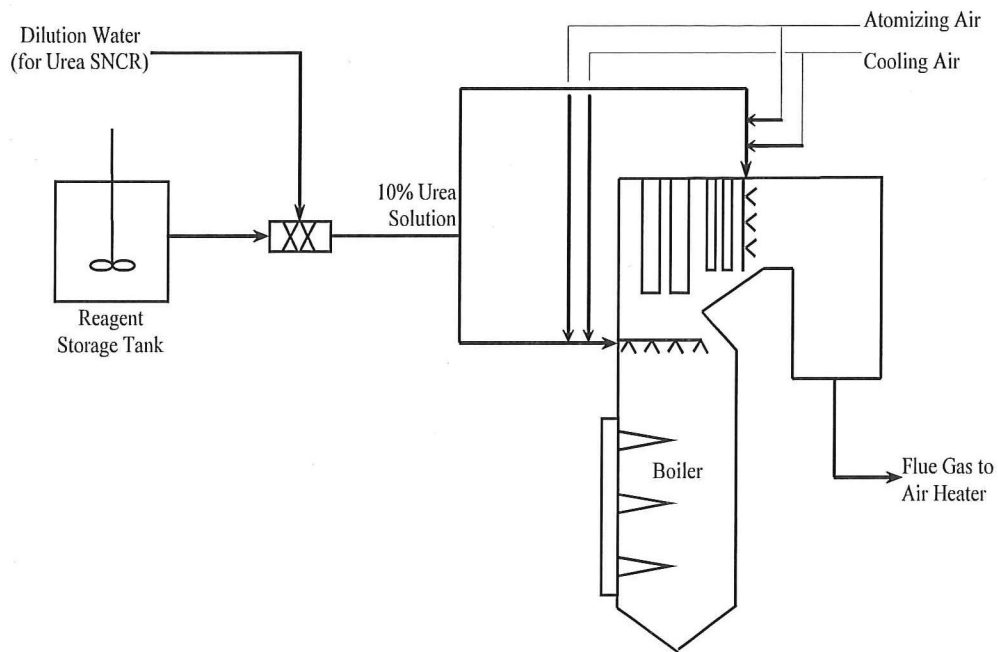
Figure G.2 SNCR System Arrangement

G.2.2 Reagent Preparation

Reagent preparation consists of diluting the urea prior to injection into the furnace through high pressure lances that utilize atomizing air to produce an even distribution of fine droplets.

G.2.3 By-product Handling

There is no by-product produced by the SNCR process and, therefore, no by-product handling. The process does not consume all of the ammonia injected into the boiler, resulting in higher levels of ammonia slip to the stack than would occur with an SCR system.

Economic Analysis: Control Area PVRR Comparisons

Results are expressed in millions and are present valued to January 2012 Dollars

Reference Plan [1]

Invest in Emission Controls vs. Replacement:

		EGEAS Results Control Area Model			MIDAS Results [3] Control Area Model		
		Future 1	Future 2	Future 3	Future 1	Future 2	Future 3
PVRR: Replace Weston 3 12/2016	Case 3	11,694	14,828	13,016	11,740	14,906	13,005
PVRR: Install ReACT on Weston 3 12/2016	Case 8	11,401	14,572	13,031	11,452	14,659	13,029
PVRR: Install Dry FGD & SCR on Weston 3 12/2016	Case 11	11,561	14,732	13,177	11,612	14,827	13,173
Delta PVRR: Install ReACT minus Replace Weston 3	Case 8 - Case 3	-293	-257	16	-288	-247	23
Delta PVRR: Install Dry FGD & SCR minus Replace Weston 3	Case 11 - Case 3	-133	-96	161	-128	-78	167

Low Load Forecast Sensitivity:

		EGEAS Results Control Area Model	MIDAS Results [3] Control Area Model
		Future 1	Future 1
PVRR: Replace Weston 3 12/2016	Case 13	11,077	11,141
PVRR: Install ReACT on Weston 3 12/2016	Case 14	10,801	10,833
Delta PVRR: Install ReACT minus Replace Weston 3	Case 14 - Case 13	-276	-308

1) Reference Plan includes converting Pulliam units 1&2 to natural gas and Weston units 5&6 and Pulliam units 7&8 continue to operate as coal units

3) The MIDAS control area results are shown to indicate the benchmark of results when optimizing on the same platform as EGEAS (requirements customers only).

Public Version

Future 1 Life Cycle Delta PVRR Market Risk Analysis:
Comparisons of Weston 3 Emission Control Options vs. Replacement by Endpoint
* All plans include the reference plan for balance of WPSC portfolio

Increase in PVRR to install a Dry FGD and SCR on Weston Unit 3 compared to installing ReACT. The expected value is a $157 million PVRR increase.

Compared to replacement in 12/2016, installing a Dry FGD & SCR has an expected value (equal probability of all endpoints) of reducing PVRR $82 million with a 90% confidence the reduction in PVRR will be between $11 and $137 million.

Compared to replacement in 12/2016, installing ReACT has an expected value (equal probability of all endpoints) of reducing PVRR $239 million with a 90% confidence the reduction in PVRR will be between $166 and $295 million.

Delta PVRR (millions) in January 2012 Dollars

Y-axis: 175, 150, 125, 100, 75, 50, 25, 0, -25, -50, -75, -100, -125, -150, -175, -200, -225, -250, -275, -300, -325, -350, -375

X-axis: 1 through 50

Legend:
- Install ReACT vs Replace Weston 3 12/2016
- Install Dry FGD & SCR vs Replace Weston 3 12/2016
- Dry FGD & SCR vs. ReACT

Public Version

Future 2 Life Cycle Delta PVRR Market Risk Analysis:

Comparisons of Weston 3 Emission Control Options vs. Replacement by Endpoint

*All plans include the reference plan for balance of WPSC portfolio

Increase in PVRR to install a Dry FGD and SCR on Weston Unit 3 compared to installing ReACT. The expected value is a $156 million PVRR increase.

Compared to replacement in 12/2016, installing a Dry FGD & SCR has an expected value (equal probability of all endpoints) of reducing PVRR $51 million with a 90% confidence the range will be between a reduction in PVRR of $178 million to an increase in PVRR of $106 million.

Compared to replacement in 12/2016, installing ReACT has an expected value (equal probability of all endpoints) of reducing PVRR $207 million with a 90% confidence the reduction in PVRR will be between $44 and $337 million.

Delta PVRR (millions) in January 2012 Dollars

Legend:
— Install ReACT vs Replace Weston 3 12/2016
— Install Dry FGD & SCR vs Replace Weston 3 12/2016
— Dry FGD & SCR vs. ReACT

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 4
Page 4 of 47
4-25-2012

Future 3 Life Cycle Delta PVRR Market Risk Analysis:

Comparisons of Weston 3 Emission Control Options vs. Replacement by Endpoint

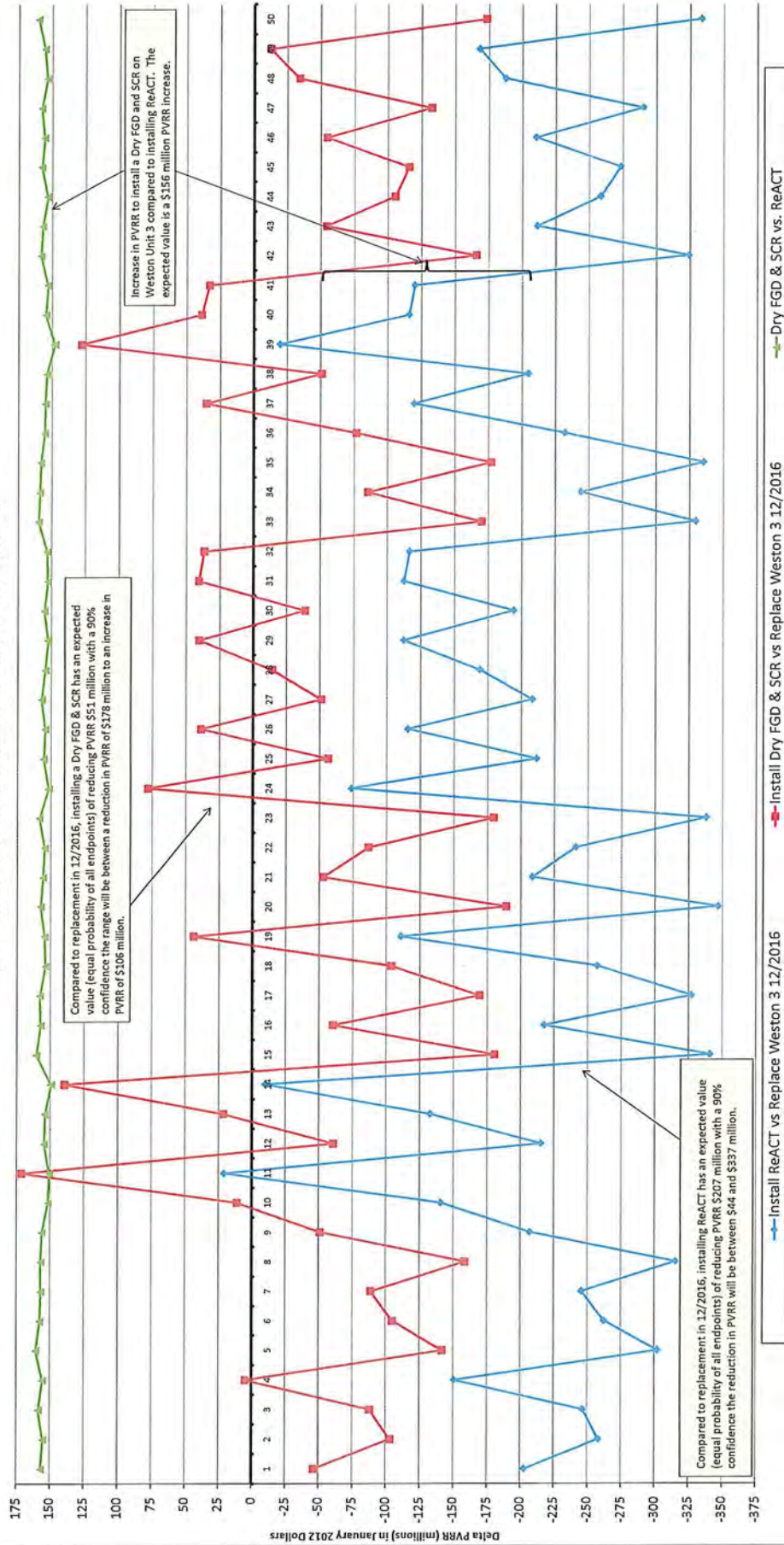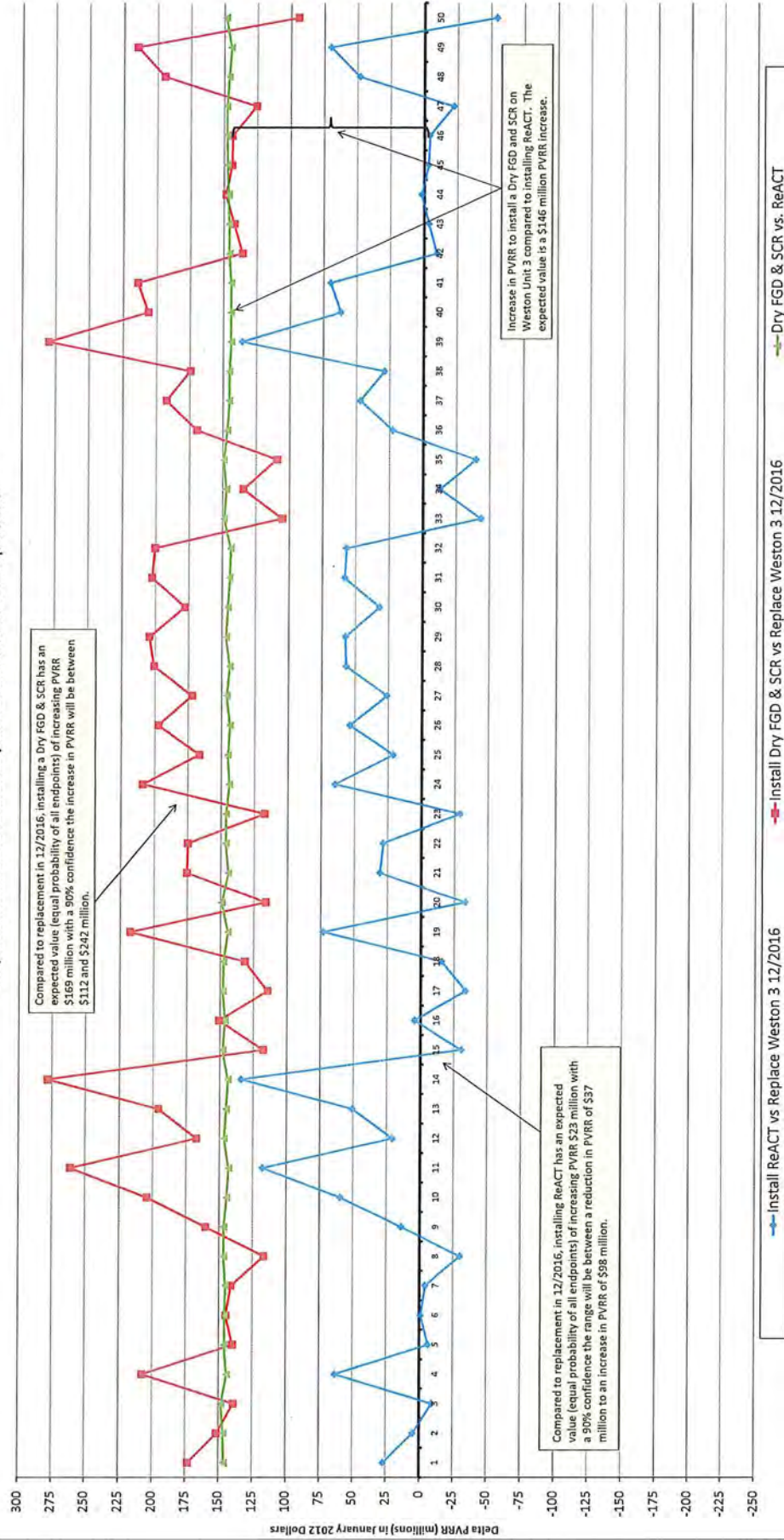* All plans include the reference plan for balance of WPSC portfolio

Compared to replacement in 12/2016, installing a Dry FGD & SCR has an expected value (equal probability of all endpoints) of increasing PVRR $169 million with a 90% confidence the increase in PVRR will be between $112 and $242 million.

Compared to replacement in 12/2016, installing ReACT has an expected value (equal probability of all endpoints) of increasing PVRR $23 million with a 90% confidence the range will be between a reduction in PVRR of $37 million to an increase in PVRR of $98 million.

Increase in PVRR to install a Dry FGD and SCR on Weston Unit 3 compared to installing ReACT. The expected value is a $146 million PVRR increase.

Delta PVRR (millions) in January 2012 Dollars

— Install ReACT vs Replace Weston 3 12/2016   — Install Dry FGD & SCR vs Replace Weston 3 12/2016   — Dry FGD & SCR vs. ReACT

Public Version

Life Cycle Delta PVRR Market Risk Analysis:

Delta PVRR Comparisons ($MM) with the Expected Value and 90 Percent Probability Range of Outcomes
Expected Value assumes equal probability of occurance for all 50 endpoints of stochastic runs

Legend: ○ 5th Percentile   ◆ Expected Value   ◎ 95th Percentile

Public Version
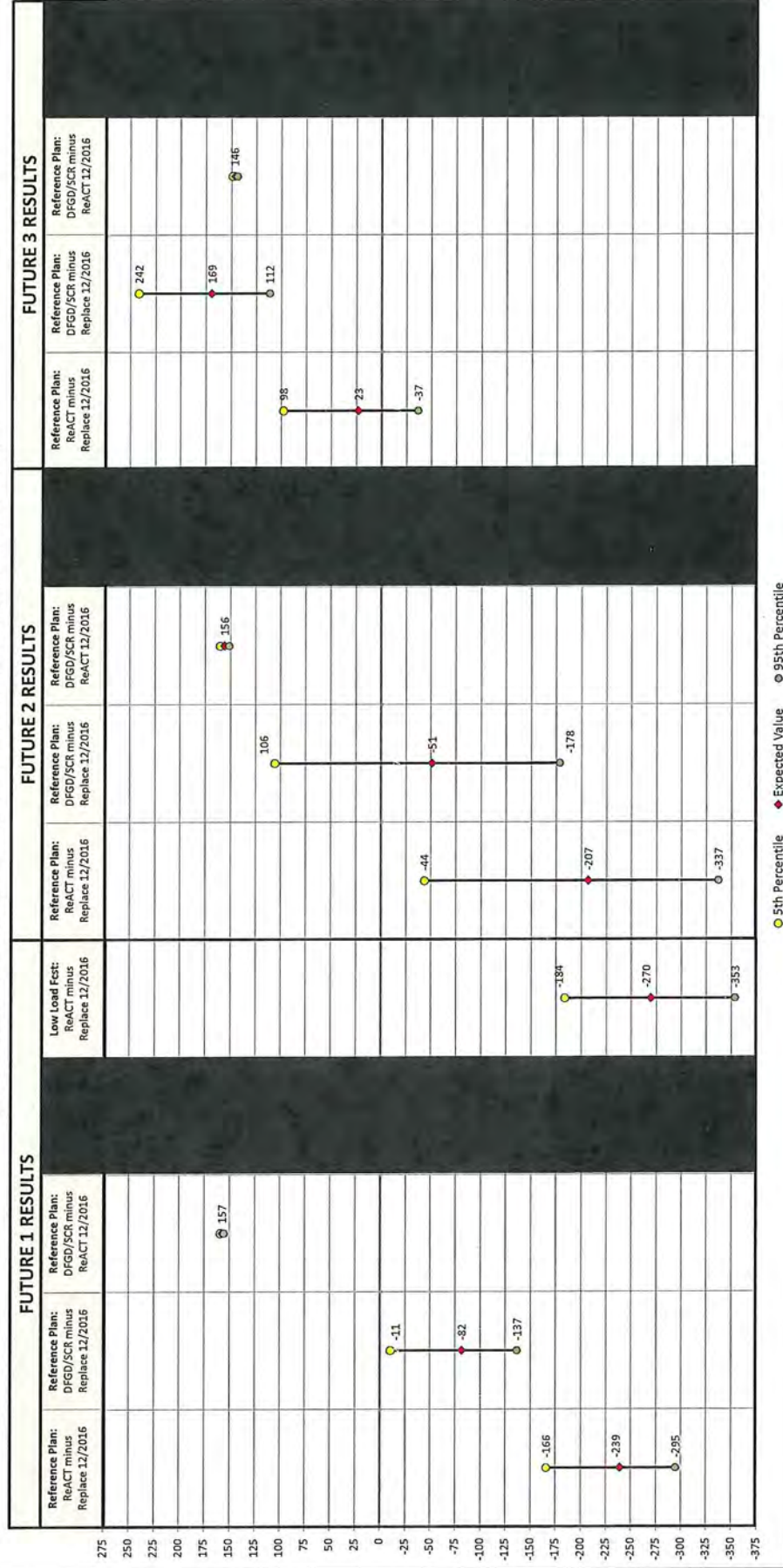
Life Cycle PVRR Comparisons by Endpoint ($MM) Market Risk Analysis

Future 1:

| | Weston 3 Options in Reference Plan: | | | Delta to Replace 12/2016 | |
| | Replace 12/2016 | ReACT 12/2016 | DFGD/SCR 12/2016 | ReACT vs. Replace | DFGD/SCR vs. Replace |
	Case 3	Case 8	Case 11	8 vs 3	11 vs 3
Endpoint 1	11,221	11,035	11,192	-186	-29
Endpoint 2	10,988	10,734	10,892	-254	-96
Endpoint 3	11,404	11,146	11,305	-258	-99
Endpoint 4	11,229	10,990	11,147	-238	-81
Endpoint 5	10,934	10,654	10,812	-280	-122
Endpoint 6	10,857	10,627	10,783	-230	-74
Endpoint 7	10,379	10,128	10,284	-251	-95
Endpoint 8	11,684	11,404	11,562	-280	-122
Endpoint 9	10,481	10,270	10,427	-211	-55
Endpoint 10	11,130	10,849	11,006	-281	-124
Endpoint 11	10,075	9,892	10,047	-183	-26
Endpoint 12	11,079	10,869	11,026	-210	-53
Endpoint 13	11,618	11,461	11,618	-157	0
Endpoint 14	11,159	10,992	11,148	-167	-12
Endpoint 15	11,064	10,772	10,931	-292	-133
Endpoint 16	11,039	10,857	11,014	-182	-26
Endpoint 17	11,159	10,870	11,028	-289	-131
Endpoint 18	11,123	10,899	11,057	-224	-66
Endpoint 19	10,868	10,699	10,855	-169	-13
Endpoint 20	10,799	10,529	10,686	-270	-113
Endpoint 21	10,177	9,899	10,056	-277	-121
Endpoint 22	11,839	11,594	11,753	-244	-86
Endpoint 23	10,940	10,698	10,855	-241	-85
Endpoint 24	10,565	10,373	10,528	-193	-37
Endpoint 25	10,712	10,498	10,654	-214	-58
Endpoint 26	10,625	10,470	10,625	-155	0
Endpoint 27	11,047	10,753	10,911	-294	-136
Endpoint 28	11,301	11,079	11,237	-222	-64
Endpoint 29	10,859	10,595	10,753	-264	-106
Endpoint 30	10,920	10,666	10,823	-254	-97
Endpoint 31	11,218	11,024	11,180	-194	-38
Endpoint 32	10,464	10,299	10,454	-165	-10
Endpoint 33	11,202	10,857	11,016	-345	-185
Endpoint 34	11,100	10,804	10,963	-296	-137
Endpoint 35	11,383	11,093	11,252	-290	-131
Endpoint 36	11,504	11,267	11,425	-237	-79
Endpoint 37	11,191	10,934	11,092	-257	-99
Endpoint 38	11,447	11,225	11,383	-222	-64
Endpoint 39	10,251	10,065	10,219	-186	-32
Endpoint 40	10,793	10,604	10,760	-189	-32
Endpoint 41	11,152	10,944	11,101	-208	-50
Endpoint 42	11,214	10,877	11,035	-337	-179
Endpoint 43	10,304	10,052	10,208	-251	-96
Endpoint 44	11,142	10,859	11,017	-283	-125
Endpoint 45	11,281	11,034	11,191	-248	-90
Endpoint 46	11,230	10,955	11,113	-275	-116
Endpoint 47	10,881	10,602	10,760	-278	-121
Endpoint 48	11,473	11,250	11,409	-223	-64
Endpoint 49	11,526	11,310	11,468	-216	-58
Endpoint 50	10,904	10,620	10,778	-284	-126

Future 2:

| | Weston 3 Options in Reference Plan: | | | Delta to Replace 12/2016 | |
| | Replace 12/2016 | ReACT 12/2016 | DFGD/SCR 12/2016 | ReACT vs. Replace | DFGD/SCR vs. Replace |
	Case 3	Case 8	Case 11	8 vs 3	11 vs 3
Endpoint 1	14,068	13,865	14,022	-203	-46
Endpoint 2	13,837	13,578	13,734	-258	-103
Endpoint 3	14,612	14,365	14,524	-247	-88
Endpoint 4	14,483	14,332	14,488	-151	5
Endpoint 5	13,704	13,402	13,563	-302	-141
Endpoint 6	13,359	13,097	13,255	-262	-105
Endpoint 7	13,050	12,804	12,961	-246	-89
Endpoint 8	14,757	14,441	14,598	-316	-158
Endpoint 9	13,053	12,846	13,003	-207	-51
Endpoint 10	14,686	14,546	14,698	-140	11
Endpoint 11	13,142	13,163	13,313	21	171
Endpoint 12	13,855	13,640	13,794	-215	-61
Endpoint 13	14,691	14,558	14,712	-133	21
Endpoint 14	14,685	14,675	14,825	-10	140
Endpoint 15	13,704	13,363	13,524	-341	-180
Endpoint 16	13,421	13,204	13,361	-218	-60
Endpoint 17	13,978	13,651	13,808	-327	-169
Endpoint 18	14,052	13,804	13,958	-257	-104
Endpoint 19	13,803	13,693	13,847	-111	44
Endpoint 20	13,441	13,094	13,252	-347	-189
Endpoint 21	12,993	12,785	12,941	-209	-53
Endpoint 22	15,039	14,798	14,953	-241	-86
Endpoint 23	13,480	13,142	13,301	-338	-180
Endpoint 24	13,438	13,364	13,516	-74	78
Endpoint 25	13,310	13,098	13,254	-212	-56
Endpoint 26	13,280	13,164	13,319	-116	39
Endpoint 27	14,252	14,044	14,201	-208	-51
Endpoint 28	14,463	14,294	14,448	-169	-14
Endpoint 29	14,149	14,037	14,190	-112	40
Endpoint 30	14,044	13,850	14,005	-194	-39
Endpoint 31	14,386	14,274	14,426	-112	41
Endpoint 32	13,143	13,026	13,179	-116	37
Endpoint 33	14,376	14,046	14,206	-330	-170
Endpoint 34	14,267	14,023	14,182	-244	-85
Endpoint 35	14,318	13,982	14,141	-335	-177
Endpoint 36	14,841	14,609	14,765	-232	-77
Endpoint 37	14,648	14,528	14,683	-120	35
Endpoint 38	14,541	14,336	14,490	-205	-51
Endpoint 39	13,498	13,479	13,626	-20	128
Endpoint 40	13,784	13,669	13,823	-116	39
Endpoint 41	14,313	14,193	14,346	-120	33
Endpoint 42	14,401	14,077	14,235	-324	-166
Endpoint 43	12,868	12,657	12,814	-211	-54
Endpoint 44	14,096	13,837	13,991	-259	-105
Endpoint 45	14,430	14,157	14,315	-273	-116
Endpoint 46	14,505	14,295	14,451	-210	-55
Endpoint 47	13,745	13,454	13,612	-290	-132
Endpoint 48	14,631	14,444	14,598	-188	-34
Endpoint 49	14,898	14,730	14,886	-168	-12
Endpoint 50	13,493	13,159	13,320	-333	-173

Future 3:

| | Weston 3 Options in Reference Plan: | | | Delta to Replace 12/2016 | |
| | Replace 12/2016 | ReACT 12/2016 | DFGD/SCR 12/2016 | ReACT vs. Replace | DFGD/SCR vs. Replace |
	Case 3	Case 8	Case 11	8 vs 3	11 vs 3
Endpoint 1	12,304	12,331	12,477	27	173
Endpoint 2	12,149	12,154	12,301	5	152
Endpoint 3	12,821	12,811	12,960	-9	139
Endpoint 4	12,734	12,797	12,941	63	208
Endpoint 5	12,004	11,998	12,144	-7	140
Endpoint 6	11,744	11,743	11,889	-1	145
Endpoint 7	11,536	11,532	11,677	-4	141
Endpoint 8	12,847	12,817	12,964	-30	117
Endpoint 9	11,577	11,591	11,737	14	160
Endpoint 10	13,053	13,113	13,258	60	205
Endpoint 11	11,801	11,918	12,062	118	261
Endpoint 12	12,142	12,163	12,310	21	167
Endpoint 13	12,870	12,921	13,066	51	196
Endpoint 14	13,005	13,139	13,284	134	278
Endpoint 15	11,996	11,965	12,113	-30	118
Endpoint 16	11,752	11,756	11,902	4	151
Endpoint 17	12,213	12,179	12,327	-34	114
Endpoint 18	12,350	12,334	12,482	-16	132
Endpoint 19	12,170	12,243	12,387	73	218
Endpoint 20	11,774	11,741	11,890	-33	116
Endpoint 21	11,539	11,570	11,714	31	175
Endpoint 22	13,146	13,174	13,320	29	175
Endpoint 23	11,785	11,756	11,903	-29	117
Endpoint 24	11,976	12,041	12,185	65	209
Endpoint 25	11,728	11,750	11,895	21	166
Endpoint 26	11,757	11,810	11,954	54	197
Endpoint 27	12,606	12,632	12,778	26	172
Endpoint 28	12,682	12,739	12,883	57	201
Endpoint 29	12,549	12,607	12,754	57	204
Endpoint 30	12,394	12,426	12,572	32	178
Endpoint 31	12,693	12,751	12,896	58	203
Endpoint 32	11,638	11,695	11,839	57	200
Endpoint 33	12,651	12,608	12,756	-44	105
Endpoint 34	12,568	12,555	12,703	-13	134
Endpoint 35	12,445	12,405	12,554	-40	109
Endpoint 36	13,006	13,029	13,176	23	169
Endpoint 37	13,008	13,055	13,201	47	192
Endpoint 38	12,699	12,728	12,874	29	175
Endpoint 39	12,048	12,184	12,328	136	280
Endpoint 40	12,237	12,299	12,443	62	206
Endpoint 41	12,633	12,703	12,847	70	214
Endpoint 42	12,650	12,640	12,785	-10	136
Endpoint 43	11,496	11,492	11,638	-4	142
Endpoint 44	12,409	12,410	12,557	2	148
Endpoint 45	12,634	12,631	12,778	-3	144
Endpoint 46	12,757	12,753	12,901	-4	144
Endpoint 47	12,080	12,058	12,206	-22	126
Endpoint 48	12,658	12,906	13,053	48	195
Endpoint 49	13,037	13,107	13,252	70	215
Endpoint 50	11,801	11,746	11,895	-54	94

Public Version

Future 1: Annual Delta Revenue Requirements by Endpoint ($MM)
Weston 3 ReACT 12/2016 minus Weston 3 Replace 12/2016
Market Risk Analysis

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Endpoint 1	-0.4	10.0	-28.4	-28.0	-25.7	20.5	12.1	-4.5	-9.4	-4.2	-38.8	-35.3	-1.9	-15.2	-49.0	-29.8	-37.4	-11.3	-18.4	8.1
Endpoint 2	-0.4	10.0	-27.9	-26.3	-25.7	14.5	-10.1	-0.6	3.8	6.7	-19.4	-45.2	-37.0	-40.2	-45.3	-47.1	-66.7	-47.7	-71.3	-25.9
Endpoint 3	-0.4	10.0	-27.6	-28.0	-25.9	9.0	2.2	3.5	-9.5	-18.2	-26.9	-38.0	-26.0	-55.7	-24.7	-44.6	-43.0	-24.7	-36.8	-25.6
Endpoint 4	-0.4	10.0	-27.5	-27.3	-25.3	2.2	13.0	15.8	0.2	12.1	-46.2	-49.7	-28.9	-17.5	-21.9	-16.8	-56.4	-34.1	-10.7	-30.8
Endpoint 5	-0.4	10.0	-26.5	-27.0	-24.6	12.5	11.9	3.7	7.9	-18.0	-30.2	-56.4	-28.9	-32.5	-53.5	-41.3	-37.0	-53.4	-39.0	-39.6
Endpoint 6	-0.4	10.0	-28.2	-27.0	-26.5	15.8	-3.5	-3.6	17.3	-10.6	-18.5	-34.1	-19.3	-41.1	-41.8	-29.9	-33.8	-39.8	-18.6	-9.4
Endpoint 7	-0.4	10.0	-26.1	-27.8	-26.1	19.6	-1.0	11.6	-3.9	-3.9	-19.3	-60.8	-24.0	-30.0	-48.1	-46.9	-32.4	-37.8	-50.2	-22.6
Endpoint 8	-0.4	10.0	-26.6	-27.1	-25.6	14.0	8.5	-3.9	-5.6	-7.4	-34.0	-68.2	-29.3	-14.3	-34.8	-63.6	-36.3	-44.8	-52.5	-29.3
Endpoint 9	-0.4	10.0	-28.9	-27.1	-26.0	22.4	3.6	15.4	3.0	-4.8	-34.0	-27.1	-23.9	-33.5	-58.4	-42.4	-38.4	-43.2	-28.9	-43.7
Endpoint 10	-0.4	10.0	-27.5	-26.9	-26.7	19.3	18.2	17.8	8.2	-6.6	-23.6	-81.2	-16.7	-38.1	-61.2	-49.5	-78.1	-68.3	-82.0	-31.3
Endpoint 11	-0.4	10.0	-25.2	-26.8	-24.3	26.4	15.8	19.6	-17.9	1.4	-20.7	-53.2	-15.2	-33.7	-38.8	-62.7	-40.3	-35.6	-40.7	-23.1
Endpoint 12	-0.4	10.0	-26.9	-27.0	-26.2	22.6	15.3	3.3	-0.3	-1.0	-19.2	-57.2	-26.4	-20.7	-63.5	-50.2	-31.6	-43.8	-50.5	-33.2
Endpoint 13	-0.4	10.0	-27.2	-28.2	-25.8	-0.2	9.0	-5.4	-28.9	-16.4	-10.9	-41.2	-19.1	-25.5	-8.7	-38.2	-22.4	-25.7	-8.4	5.3
Endpoint 14	-0.4	10.0	-26.9	-26.6	-26.2	-1.3	15.1	19.3	8.8	-2.0	-40.4	-58.3	-24.7	-24.7	-45.9	-31.9	-22.4	-9.5	-10.7	-2.4
Endpoint 15	-0.4	10.0	-27.7	-27.5	-26.1	12.7	-4.5	0.2	-1.5	-4.9	-75.8	-48.3	-24.6	-24.4	-60.6	-33.4	-39.9	-37.4	-60.3	-15.9
Endpoint 16	-0.4	10.0	-27.8	-26.9	-26.4	22.7	12.8	10.7	-23.2	2.4	-35.6	-42.1	-63.4	-41.5	-13.5	-19.9	-20.7	-27.4	-31.0	-20.4
Endpoint 17	-0.4	10.0	-27.5	-26.8	-26.1	-3.6	-13.6	2.8	12.8	-15.8	-51.0	-53.0	-55.5	-41.1	-25.3	-35.7	-44.3	-14.5	-17.5	-20.5
Endpoint 18	-0.4	10.0	-27.2	-27.9	-26.3	12.6	10.3	13.5	-3.6	-23.2	-49.9	-34.3	-30.4	-28.8	-39.9	-29.8	-21.2	-30.2	-54.7	-18.4
Endpoint 19	-0.4	10.0	-27.8	-27.0	-26.0	4.9	4.2	11.8	-2.2	5.8	-10.9	-26.1	-21.7	-28.4	-48.4	-56.0	-37.8	-27.7	-55.3	-21.2
Endpoint 20	-0.4	10.0	-27.1	-27.1	-26.3	14.0	3.4	19.9	1.6	-16.4	-33.5	-45.1	-18.3	-35.9	-43.6	-40.5	-33.8	-19.3	-48.9	-25.1
Endpoint 21	-0.4	10.0	-27.3	-27.6	-25.6	20.9	5.2	8.8	0.2	-11.2	-38.3	-47.9	-12.7	-26.6	-44.9	-43.0	-35.4	-35.0	-33.8	-34.1
Endpoint 22	-0.4	10.0	-28.5	-27.5	-25.6	18.3	2.2	-0.6	6.1	3.3	-12.0	-57.2	-48.0	-36.6	-62.9	-30.6	-28.0	-36.0	-55.0	-9.6
Endpoint 23	-0.4	10.0	-28.2	-27.2	-26.0	-13.9	12.9	28.1	7.0	-8.0	-16.7	-51.6	-25.9	-37.0	-48.8	-37.1	-42.7	-31.3	-41.7	-20.5
Endpoint 24	-0.4	10.0	-27.5	-27.4	-25.9	-9.2	10.0	23.8	2.3	-11.6	-30.2	-57.3	-23.0	-33.2	-23.2	-39.5	-23.1	-20.5	-37.0	-8.8
Endpoint 25	-0.4	10.0	-26.5	-28.1	-25.3	20.9	15.3	23.1	4.3	-4.9	-11.5	-22.4	-27.5	-50.9	-39.2	-52.8	-39.0	-42.3	-49.8	-40.5
Endpoint 26	-0.4	10.0	-27.5	-27.8	-26.0	5.4	14.1	20.7	15.8	-13.8	-43.3	-36.4	-13.9	-14.3	-27.8	-19.9	-49.7	-21.3	-12.4	-21.1
Endpoint 27	-0.4	10.0	-28.1	-27.0	-25.2	-1.9	-6.6	-6.3	6.6	2.5	-18.7	-76.8	-30.6	-42.8	-49.9	-49.1	-46.8	-52.4	-35.0	-25.8
Endpoint 28	-0.4	10.0	-27.9	-26.8	-25.4	12.4	1.3	12.4	1.5	-6.5	-15.0	-23.5	-20.3	-42.5	-42.5	-47.9	-49.9	-10.8	-42.0	-43.7
Endpoint 29	-0.4	10.0	-27.4	-27.3	-26.1	18.9	16.6	0.4	-49.6	-20.9	-37.1	-42.4	-46.0	-45.0	-31.9	-22.1	-24.4	-35.0	-40.5	-55.8
Endpoint 30	-0.4	10.0	-27.9	-27.4	-25.7	0.6	-4.8	18.6	5.7	4.5	-11.3	-54.3	-37.3	-28.5	-35.9	-49.4	-44.7	-24.9	-28.9	-32.8
Endpoint 31	-0.4	10.0	-27.9	-27.8	-26.5	24.7	21.4	20.6	-3.0	3.9	-28.9	-36.7	-36.5	-23.0	-29.1	-31.2	-27.0	-10.8	-28.5	-13.2
Endpoint 32	-0.4	10.0	-27.5	-27.6	-26.1	15.1	16.4	24.8	9.7	13.3	-7.4	-36.3	-30.8	-19.8	-31.4	-23.2	-29.3	-31.7	-26.5	-36.4
Endpoint 33	-0.4	10.0	-27.8	-27.7	-26.0	-2.0	0.6	4.6	0.8	-6.2	-31.3	-61.5	-42.5	-39.0	-42.4	-45.7	-72.5	-52.8	-56.1	-65.4
Endpoint 34	-0.4	10.0	-28.0	-27.7	-25.7	9.7	-15.4	23.3	-4.5	2.9	-24.0	-43.4	-31.2	-62.5	-42.1	-32.8	-25.7	-34.1	-30.3	-58.4
Endpoint 35	-0.4	10.0	-27.1	-27.8	-25.7	-0.3	-4.9	-9.6	-12.2	-1.8	-12.1	-27.8	-22.4	-43.6	-48.1	-45.0	-47.6	-41.2	-65.2	-58.4
Endpoint 36	-0.4	10.0	-27.8	-27.1	-26.0	20.8	4.2	26.9	0.0	-5.4	-32.5	-40.3	-18.3	-44.5	-24.3	-32.8	-59.8	-38.3	-33.6	-35.8
Endpoint 37	-0.4	10.0	-27.2	-28.0	-26.1	13.9	-4.5	15.5	-3.7	4.2	-15.9	-32.7	-12.0	-43.6	-43.6	-54.4	-38.2	-31.9	-35.3	-10.5
Endpoint 38	-0.4	10.0	-27.6	-26.9	-25.8	9.4	-11.0	3.3	10.5	-11.9	-47.2	-37.4	-19.5	-20.9	-38.6	-49.4	-31.7	-33.0	-57.0	-68.8
Endpoint 39	-0.4	10.0	-27.9	-27.7	-25.8	22.7	19.1	6.3	5.0	3.8	-21.4	-32.3	-26.3	-28.0	-59.7	-27.6	-19.1	-28.6	-34.6	-45.0
Endpoint 40	-0.4	10.0	-27.4	-26.9	-25.8	7.9	13.9	13.4	1.8	-1.1	-16.9	-43.6	-26.6	-26.2	-17.9	-35.9	-20.5	-26.3	-30.3	-17.7
Endpoint 41	-0.4	10.0	-28.5	-26.9	-25.8	0.7	-1.4	-3.5	4.2	-7.0	-20.1	-41.7	-35.1	-21.3	-21.3	-40.8	-34.4	-23.5	-28.2	-10.6
Endpoint 42	-0.4	10.0	-26.9	-27.8	-25.4	4.9	11.0	19.1	4.6	-25.4	-49.7	-77.9	-25.3	-43.8	-81.4	-87.2	-28.5	-31.1	-52.3	-34.8
Endpoint 43	-0.4	10.0	-27.2	-27.9	-25.0	22.3	-5.1	9.4	1.3	7.1	-73.2	-61.9	-44.0	-29.4	-32.6	-27.1	-35.9	-45.6	-36.0	-15.9
Endpoint 44	-0.4	10.0	-27.8	-27.5	-25.8	10.9	13.4	12.3	-24.0	-17.6	-20.6	-30.0	-27.6	-59.8	-49.1	-71.8	-51.8	-39.3	-69.1	-71.3
Endpoint 45	-0.4	10.0	-27.9	-26.9	-25.7	3.8	17.1	12.4	-14.5	-3.8	-27.0	-62.0	-32.0	-52.9	-44.2	-53.0	-61.0	-26.9	-24.6	-15.6
Endpoint 46	-0.4	10.0	-28.1	-26.9	-26.1	15.7	-4.8	-17.4	-34.1	-0.7	-29.1	-33.6	-28.5	-28.3	-32.2	-26.4	-52.3	-32.7	-36.8	-31.5
Endpoint 47	-0.4	10.0	-25.9	-27.2	-25.6	18.1	-3.5	-16.1	-5.0	-17.3	-48.7	-36.2	-54.9	-47.6	-26.5	-25.6	-27.6	-22.6	-32.2	-36.1
Endpoint 48	-0.4	10.0	-27.7	-27.7	-26.6	1.0	1.9	-10.7	6.8	-16.0	-47.7	-41.3	-16.0	-63.7	-48.5	-36.7	-38.2	-37.7	-47.8	-29.4
Endpoint 49	-0.4	10.0	-27.2	-26.5	-26.2	-2.7	10.0	17.3	2.3	6.1	-47.2	-56.4	-42.5	-59.8	-22.9	-22.5	-24.0	-27.8	-25.3	-22.2
Endpoint 50	-0.4	10.0	-27.5	-25.8	-26.3	22.3	9.3	18.3	-13.6	6.8	-15.2	-51.5	-53.8	-76.2	-45.9	-41.4	-23.1	-34.9	-28.7	-17.3
Expected Value	-0.4	10.0	-27.5	-27.3	-25.9	11.0	5.5	9.0	-2.2	-5.2	-29.8	-46.2	-28.7	-36.7	-40.3	-40.5	-38.1	-32.7	-38.8	-27.6

Public Version

Future 1: Annual Delta Revenue Requirements by Endpoint ($MM)

Weston 3 DFGD & SCR 12/2016 minus Weston 3 Replace 12/2016

Market Risk Analysis

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Endpoint 1	-0.4	10.9	-27.3	-27.9	-25.5	46.6	38.3	21.4	15.5	19.4	-15.7	-14.9	18.3	5.1	-27.8	-9.2	-16.9	7.4	1.1	26.7
Endpoint 2	-0.4	10.9	-26.8	-26.2	-25.6	41.2	16.7	25.1	28.2	29.7	3.2	-25.0	-15.6	-19.0	-24.4	-26.3	-45.9	-27.8	-50.6	-5.8
Endpoint 3	-0.4	10.9	-26.5	-27.9	-25.8	35.7	28.6	29.1	15.4	5.7	-3.9	-17.2	-5.2	-34.3	-4.3	-23.5	-22.3	-5.0	-16.6	-5.6
Endpoint 4	-0.4	10.9	-26.4	-27.2	-25.2	29.4	39.2	41.0	24.8	35.0	-22.8	-29.3	3.5	-7.9	-1.6	3.3	-35.6	-14.5	8.3	-10.9
Endpoint 5	-0.4	10.9	-25.4	-26.9	-24.4	39.1	38.0	29.6	32.4	6.0	-7.0	-36.9	-7.5	-11.1	-32.2	-20.6	-16.6	-33.2	-18.9	-19.3
Endpoint 6	-0.4	10.9	-27.1	-27.0	-26.3	42.1	23.1	22.2	41.1	13.2	4.4	-13.8	1.5	-20.3	-21.1	-9.9	-13.5	-20.1	0.9	10.1
Endpoint 7	-0.4	10.9	-25.0	-27.8	-26.0	45.7	25.5	36.9	23.1	19.6	3.3	-41.3	-3.1	-9.5	-27.4	-26.3	-12.6	-18.3	-29.9	-3.0
Endpoint 8	-0.4	10.9	-25.5	-27.0	-25.4	40.6	34.7	22.0	19.2	16.2	-11.2	-50.9	-7.9	6.3	-14.0	-42.4	-15.8	-24.3	-31.7	-9.1
Endpoint 9	-0.4	10.9	-27.8	-27.1	-25.9	48.5	29.8	40.6	27.5	18.7	-10.9	-6.7	-2.9	-12.9	-37.2	-22.0	-18.1	-23.6	-9.2	-23.6
Endpoint 10	-0.4	10.9	-26.4	-26.9	-26.5	45.7	44.0	43.0	32.6	17.2	-0.8	-62.6	4.2	-16.7	-40.0	-28.6	-57.0	-47.8	-61.0	-11.1
Endpoint 11	-0.4	10.9	-25.1	-26.7	-24.1	52.4	41.8	44.6	7.1	24.7	1.9	-32.2	5.6	-12.7	-18.2	-41.7	-20.0	-15.8	-20.6	-3.4
Endpoint 12	-0.4	10.9	-25.8	-26.9	-26.0	48.8	41.3	29.0	24.4	22.6	3.8	-37.9	-5.1	-0.2	-42.0	-29.3	-11.8	-23.9	-29.8	-12.8
Endpoint 13	-0.4	10.9	-26.1	-28.2	-25.6	26.9	35.3	20.5	-3.6	7.4	11.4	-20.7	2.0	-4.7	11.3	-17.4	-2.6	-5.9	10.8	24.8
Endpoint 14	-0.4	10.9	-25.8	-26.6	-26.0	25.9	41.0	44.4	33.2	21.5	-17.0	-38.9	6.3	-4.0	-25.0	-22.5	-2.5	9.2	8.8	16.9
Endpoint 15	-0.4	10.9	-26.6	-27.5	-25.9	39.3	22.2	25.9	23.3	18.6	-51.9	-27.6	-3.3	-3.6	-39.1	-12.9	-19.5	-17.3	-39.6	3.4
Endpoint 16	-0.4	10.9	-26.7	-26.9	-26.2	48.9	39.1	36.2	2.0	25.8	-12.3	-22.0	-41.3	-20.2	6.4	-0.1	-1.0	-7.4	-11.2	-0.2
Endpoint 17	-0.4	10.9	-26.4	-26.8	-25.9	23.7	13.2	28.5	36.8	8.1	-27.6	-33.9	-3.9	-20.1	-5.1	-15.1	-23.9	4.5	1.8	-0.6
Endpoint 18	-0.4	10.9	-26.1	-27.8	-26.1	39.4	36.3	38.7	21.1	0.6	-26.8	-13.7	-9.3	-8.2	-19.4	-9.5	-1.4	-10.5	-34.2	1.4
Endpoint 19	-0.4	10.9	-26.7	-27.0	-25.8	31.8	30.4	37.3	22.3	29.1	11.5	-5.6	-0.5	-7.6	-27.2	-34.8	-17.3	-7.8	-34.5	-1.2
Endpoint 20	-0.4	10.9	-26.0	-27.0	-26.1	40.6	29.9	45.0	26.2	7.4	-10.4	-25.6	2.4	-15.1	-23.1	-20.1	-13.8	-0.3	-28.8	-5.6
Endpoint 21	-0.4	10.9	-25.8	-27.6	-25.4	47.1	31.7	34.2	24.7	12.4	-15.3	-28.2	-1.9	-6.3	-24.4	-22.5	-15.3	-15.5	-13.9	-13.9
Endpoint 22	-0.4	10.9	-27.4	-27.4	-25.4	44.7	28.8	25.3	30.5	26.5	10.6	-37.1	-26.3	-15.5	-41.3	-10.2	-7.6	-15.8	-34.0	10.0
Endpoint 23	-0.4	10.9	-27.1	-27.2	-25.8	13.4	39.0	52.4	31.3	15.5	5.8	-32.8	-4.9	-16.0	-27.7	-19.1	-22.3	-11.5	-21.8	-1.0
Endpoint 24	-0.4	10.9	-26.4	-27.3	-25.7	18.1	36.3	48.5	26.9	12.2	-7.1	-38.4	-2.0	-12.8	-3.1	-19.1	-3.5	-1.1	-16.8	10.3
Endpoint 25	-0.4	10.9	-25.4	-28.1	-25.2	47.1	41.2	48.0	28.9	18.8	11.0	-5.0	-6.1	-29.2	-18.1	-31.8	-18.5	-22.1	-29.4	-20.2
Endpoint 26	-0.4	10.9	-26.3	-27.8	-25.8	32.5	40.3	45.6	29.8	9.9	-20.2	-17.6	6.6	6.0	-7.4	-0.2	-29.3	-2.3	6.6	-1.2
Endpoint 27	-0.4	10.9	-26.9	-26.9	-25.0	25.2	20.2	19.5	31.0	25.9	3.8	-57.4	-9.4	-21.8	-29.0	-28.2	-26.1	-32.4	-15.3	-6.0
Endpoint 28	-0.4	10.9	-26.8	-26.8	-25.2	39.1	27.8	37.9	26.2	17.3	7.6	-4.2	0.7	-21.0	-21.7	-26.9	-29.3	8.2	-21.5	-23.2
Endpoint 29	-0.4	10.9	-26.3	-27.3	-25.9	45.5	42.6	26.1	-24.0	3.0	-14.0	-21.9	-24.4	-23.9	-11.3	-2.0	-4.3	-15.3	-20.6	-35.3
Endpoint 30	-0.4	10.9	-26.7	-27.4	-25.5	27.7	21.8	43.7	30.2	27.7	10.9	-35.1	-15.9	-7.8	-15.2	-28.6	-24.2	-5.5	-9.1	-12.7
Endpoint 31	-0.4	10.9	-26.8	-27.7	-26.3	50.7	46.9	45.6	21.7	27.3	-5.8	-16.7	-15.1	-0.2	-8.7	-10.9	-10.9	7.9	-8.5	6.4
Endpoint 32	-0.4	10.9	-26.4	-27.5	-26.0	41.5	42.3	49.5	34.0	36.1	14.6	-15.4	-9.8	0.4	-11.2	-3.4	-9.5	-12.1	-6.8	-16.3
Endpoint 33	-0.4	10.9	-26.7	-27.6	-25.9	25.1	27.3	30.1	25.4	17.4	-8.2	-40.7	-20.8	-17.7	-21.3	-24.7	-51.6	-32.7	-35.7	-44.8
Endpoint 34	-0.4	10.9	-26.9	-27.7	-25.6	36.6	11.5	48.2	20.1	26.4	-1.0	-22.8	-9.8	-40.8	-21.2	-24.4	-5.8	-14.4	-10.4	-5.0
Endpoint 35	-0.4	10.9	-26.0	-27.7	-25.6	26.9	21.8	16.3	12.8	21.8	10.3	-7.3	-1.5	-22.6	-27.2	-12.4	-26.9	-21.0	-44.2	-37.8
Endpoint 36	-0.4	10.9	-26.7	-27.0	-25.9	47.0	30.7	51.4	24.5	18.1	-9.4	-20.3	2.4	-23.1	-3.9	-23.0	-38.8	-18.3	-13.6	-15.2
Endpoint 37	-0.4	10.9	-26.1	-27.9	-25.9	40.2	22.1	40.9	21.1	27.5	6.8	-12.2	8.7	-22.4	-22.6	-33.3	-17.9	-11.8	-15.2	8.7
Endpoint 38	-0.4	10.9	-26.5	-26.8	-25.6	36.3	15.9	29.1	34.9	12.0	-23.7	-17.2	1.7	-0.2	-17.6	-28.3	-11.1	-13.2	-36.2	-47.7
Endpoint 39	-0.4	10.9	-26.8	-27.6	-25.6	48.9	44.8	31.8	29.4	27.0	1.4	-12.1	-5.5	-7.8	-38.8	-8.0	0.0	-9.6	-15.3	-25.2
Endpoint 40	-0.4	10.9	-26.3	-26.8	-25.6	34.8	39.7	38.3	26.3	22.4	5.5	-22.7	-5.5	-5.7	2.4	-15.1	-0.7	-6.5	-10.8	2.1
Endpoint 41	-0.4	10.9	-27.4	-26.9	-25.7	27.8	25.3	22.3	28.9	16.8	2.8	-22.4	-13.7	-11.9	-1.0	-19.8	-13.9	-3.5	-8.4	8.8
Endpoint 42	-0.4	10.9	-25.8	-27.7	-25.3	31.7	37.2	44.2	29.0	-1.3	-26.3	-59.1	-4.0	-22.6	-59.7	-65.6	-8.6	-11.7	-32.0	-14.6
Endpoint 43	-0.4	10.9	-26.0	-27.8	-24.8	48.4	21.4	34.8	25.8	30.1	-49.7	-42.9	-22.8	-9.0	-12.4	-7.4	-16.0	-26.0	-16.1	3.4
Endpoint 44	-0.4	10.9	-26.7	-27.4	-25.6	37.7	39.5	37.5	1.1	6.4	2.3	-12.0	-6.0	-37.9	-27.9	-50.4	-31.2	-19.4	-48.3	-50.6
Endpoint 45	-0.4	10.9	-26.8	-26.9	-25.6	30.7	42.8	37.5	10.5	19.7	-4.3	-41.9	-11.1	-31.9	-23.4	-32.2	-40.2	-7.5	-4.9	4.2
Endpoint 46	-0.4	10.9	-27.0	-26.9	-25.9	42.1	22.0	8.6	-8.9	22.9	-6.0	-13.2	-7.2	-7.7	-11.7	-6.2	-31.6	-13.0	-16.9	-11.2
Endpoint 47	-0.4	10.9	-24.8	-27.1	-25.5	44.5	23.2	9.8	19.7	6.5	-25.3	-16.1	-33.2	-26.4	-6.2	-5.4	-7.9	-3.4	-12.2	-16.0
Endpoint 48	-0.4	10.9	-26.6	-27.7	-26.5	28.1	28.5	15.3	31.0	6.3	-24.2	-21.3	4.9	-41.9	-27.1	-15.9	-17.7	-17.5	-27.1	-9.1
Endpoint 49	-0.4	10.9	-26.1	-26.4	-26.0	24.5	36.1	42.4	27.1	29.2	-23.6	-36.7	-20.8	-38.0	-2.5	-2.1	-3.8	-7.7	-5.6	-2.0
Endpoint 50	-0.4	10.9	-26.4	-25.8	-26.1	48.4	35.5	43.4	11.4	30.1	7.6	-31.5	-32.0	-54.4	-24.9	-20.8	-3.5	-14.9	-9.3	2.7
Expected Value	-0.4	10.9	-26.4	-27.2	-25.7	37.7	31.9	34.4	22.5	18.4	-6.8	-26.4	-7.5	-15.8	-19.6	-19.9	-17.8	-13.0	-18.8	-7.6

Public Version

Future 2: Annual Delta Revenue Requirements by Endpoint ($MM)
Weston 3 ReACT 12/2016 minus Weston 3 Replace 12/2016
Market Risk Analysis

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Endpoint 1	-0.4	10.0	-28.6	-27.8	-25.3	4.3	-6.3	-32.9	-50.4	-37.9	-34.6	1.7	25.4	21.2	-48.4	-14.9	-75.3	-33.5	-59.8	5.7
Endpoint 2	-0.4	10.0	-27.8	-26.0	-25.5	-4.1	-37.2	-26.0	-19.3	-14.5	-3.1	-15.8	-30.8	-22.8	-20.2	-44.3	-130.0	-84.0	-151.1	-58.9
Endpoint 3	-0.4	10.0	-27.4	-27.9	-25.6	-11.0	-18.8	-17.6	-43.8	-56.1	-12.4	-3.6	-4.1	-51.5	11.0	-50.4	-76.6	-46.8	-77.4	-37.9
Endpoint 4	-0.4	10.0	-28.0	-27.4	-24.8	-24.5	-4.7	-2.4	-28.5	-7.9	-44.6	-21.5	5.8	1.5	22.2	2.1	-91.1	-44.2	-26.6	-58.8
Endpoint 5	-0.4	10.0	-27.6	-26.8	-23.9	-7.1	-5.1	-18.8	-14.5	-52.7	-18.9	-33.9	-15.1	-22.1	-32.5	-19.2	-53.5	-82.1	-81.9	-66.6
Endpoint 6	-0.4	10.0	-28.0	-27.0	-26.4	-2.8	-29.1	-31.1	0.6	-42.6	-6.3	-1.4	3.3	-16.3	-15.5	-14.6	-74.7	-75.8	-74.1	-53.8
Endpoint 7	-0.4	10.0	-27.2	-27.7	-26.0	4.8	-24.6	-7.0	-32.4	-33.4	-7.8	-45.4	1.9	19.6	-23.2	-37.4	-47.4	-65.3	-104.3	-35.9
Endpoint 8	-0.4	10.0	-27.8	-27.1	-25.0	-3.6	-9.9	-30.1	-36.4	-38.5	-25.1	-55.9	-6.7	27.7	4.5	-78.6	-59.4	-101.0	-115.6	-50.0
Endpoint 9	-0.4	10.0	-28.8	-27.2	-25.7	7.8	-17.2	-2.8	-27.3	-37.7	-36.2	6.2	-9.0	6.7	-67.5	-27.5	-75.6	-79.6	-85.9	-105.2
Endpoint 10	-0.4	10.0	-27.9	-26.8	-26.4	2.7	2.8	0.7	-16.0	-38.1	-10.5	-66.1	15.4	-11.4	-29.5	-28.1	-122.8	-90.8	-139.4	-27.4
Endpoint 11	-0.4	10.0	-26.9	-26.6	-23.8	14.1	-0.4	2.8	-60.3	-22.2	4.3	-19.3	20.2	1.9	5.9	-55.0	-67.5	-53.8	-65.6	-11.0
Endpoint 12	-0.4	10.0	-28.0	-26.7	-25.8	7.5	-2.2	-21.4	-28.7	-31.6	-8.5	-39.1	-13.3	8.1	-87.3	-43.4	-52.0	-76.3	-120.9	-71.5
Endpoint 13	-0.4	10.0	-27.2	-28.3	-25.2	-27.1	-8.8	-33.7	-75.3	-53.4	7.4	-12.1	-3.1	-2.3	20.6	-24.9	-44.4	-39.9	-36.1	3.1
Endpoint 14	-0.4	10.0	-28.2	-26.6	-25.9	-28.9	-0.2	2.6	-15.0	-30.0	-35.5	-31.0	15.2	12.0	-15.1	-8.1	-40.8	-0.3	-16.0	11.6
Endpoint 15	-0.4	10.0	-27.8	-27.5	-26.0	-5.6	-28.6	-23.4	-29.9	-32.6	-84.0	-17.6	-9.0	6.1	-60.5	-13.8	-60.8	-82.0	-137.5	-39.3
Endpoint 16	-0.4	10.0	-28.2	-27.0	-25.9	7.8	-5.8	-10.5	-66.4	-21.2	-32.5	-17.8	-106.3	-31.9	16.9	-5.2	-54.0	-79.0	-97.6	-69.8
Endpoint 17	-0.4	10.0	-29.0	-27.1	-25.9	-31.2	-41.1	-19.2	-49.6	-49.9	-49.2	-28.3	-60.7	0.8	16.6	-20.7	-67.2	-42.6	-49.5	-48.2
Endpoint 18	-0.4	10.0	-28.2	-27.9	-26.0	-6.5	-6.8	-6.3	-38.3	-64.4	-56.2	0.5	-8.3	10.5	-7.4	-19.3	-54.5	-66.5	-116.5	-50.7
Endpoint 19	-0.4	10.0	-27.6	-26.7	-25.7	-16.5	-16.3	-8.5	-32.5	-17.7	9.5	13.9	1.4	0.2	-30.0	-34.6	-65.3	-49.2	-120.8	-44.1
Endpoint 20	-0.4	10.0	-28.0	-26.8	-25.8	-4.8	-18.5	2.3	-31.5	-58.2	-30.0	-23.7	-1.4	-6.1	-23.1	-33.5	-71.1	-43.9	-65.2	-62.0
Endpoint 21	-0.4	10.0	-27.9	-27.6	-25.4	6.5	-15.4	-12.3	-28.5	-45.0	-29.4	-16.8	6.7	25.7	-7.0	-35.9	-57.5	-37.1	-133.4	-43.5
Endpoint 22	-0.4	10.0	-28.3	-27.2	-25.3	1.3	-20.2	-26.0	-18.0	-20.4	9.2	-33.9	-48.9	3.6	-60.6	-0.5	-44.5	-69.2	-104.3	-37.4
Endpoint 23	-0.4	10.0	-28.0	-27.7	-25.4	-43.8	-3.7	16.4	-21.7	-46.2	-7.9	-30.9	-9.0	-26.6	-40.3	-28.7	-86.6	-63.1	-68.2	-46.5
Endpoint 24	-0.4	10.0	-28.2	-27.6	-25.6	-38.8	-4.3	13.2	-23.6	-44.8	-22.7	-39.4	8.0	20.0	19.9	-20.2	-40.4	-54.3	-7.9	-7.9
Endpoint 25	-0.4	10.0	-27.8	-27.9	-24.5	5.1	-1.1	7.5	-23.3	-35.2	6.4	13.8	-13.0	-49.2	-13.2	-55.5	-71.5	-85.7	-114.7	-81.7
Endpoint 26	-0.4	10.0	-27.9	-27.8	-25.7	-18.2	-3.9	4.5	-4.4	-49.5	-41.1	-9.2	9.5	20.2	0.7	-5.2	-92.7	-43.4	-57.9	-49.3
Endpoint 27	-0.4	10.0	-27.9	-26.8	-24.9	-28.0	-31.9	-34.5	-16.6	-22.5	-2.2	-58.4	-0.6	-7.9	-11.1	-35.9	-67.5	-88.9	-70.6	-28.2
Endpoint 28	-0.4	10.0	-28.5	-26.7	-25.0	-7.3	-22.0	-6.5	-24.4	-37.7	2.7	15.6	0.0	-19.8	-10.3	-48.4	-81.9	-25.0	-93.5	-81.6
Endpoint 29	-0.4	10.0	-27.6	-27.2	-26.0	1.7	0.0	-26.2	-107.4	-57.3	-31.8	-8.8	-46.3	-15.6	6.4	-2.0	-56.6	-53.9	-68.1	-78.9
Endpoint 30	-0.4	10.0	-27.8	-27.6	-25.2	-25.2	-30.6	1.5	-22.9	-23.9	9.3	-26.8	-25.1	16.3	6.2	-35.8	-76.9	-45.3	-62.6	-45.4
Endpoint 31	-0.4	10.0	-28.0	-27.6	-26.3	11.5	8.0	4.1	-36.9	-23.3	-24.6	-2.6	-28.8	19.4	18.1	-7.3	-39.6	-25.7	-47.7	-11.4
Endpoint 32	-0.4	10.0	-28.5	-27.1	-25.9	-3.5	-0.4	9.8	-18.2	-7.0	8.6	-8.1	-22.8	24.3	14.4	-5.0	-52.4	-50.3	-72.8	-83.0
Endpoint 33	-0.4	10.0	-27.7	-27.8	-25.6	-27.9	-21.0	-17.7	-24.7	-33.0	-20.7	-34.4	-39.6	-4.5	-10.8	-38.2	-113.8	-79.5	-99.4	-96.9
Endpoint 34	-0.4	10.0	-28.8	-27.5	-25.3	-12.2	-45.0	11.8	-34.8	-20.4	-4.2	-8.0	-5.3	-56.2	9.6	-18.0	-33.5	-32.1	-55.1	-26.2
Endpoint 35	-0.4	10.0	-28.3	-27.5	-25.2	-26.5	-30.4	-36.3	-46.2	-30.2	4.2	7.9	-4.2	-21.5	-27.6	-23.2	-106.4	-80.5	-133.7	-114.4
Endpoint 36	-0.4	10.0	-28.7	-26.5	-25.7	5.0	-18.0	14.1	-31.8	-36.9	-16.8	-5.8	3.5	-31.2	20.6	-27.4	-115.5	-67.7	-94.2	-95.2
Endpoint 37	-0.4	10.0	-27.1	-27.9	-25.7	-4.3	-30.1	-3.2	-38.1	-21.7	2.4	-1.0	12.5	-17.8	-19.2	-48.4	-52.8	-54.0	-57.9	5.7
Endpoint 38	-0.4	10.0	-28.0	-27.3	-25.4	-11.7	-38.2	-19.5	-12.3	-45.7	-42.7	-3.9	3.7	16.0	-10.7	-49.9	-64.1	-70.6	-118.0	-134.0
Endpoint 39	-0.4	10.0	-27.8	-27.6	-25.6	8.8	5.1	-17.1	-24.4	-23.7	-11.7	2.1	-3.3	30.6	-48.3	10.0	-24.5	-23.4	-68.6	-81.1
Endpoint 40	-0.4	10.0	-27.2	-26.9	-25.2	-14.0	-2.7	-5.5	-28.7	-31.7	-4.6	-12.3	-1.1	7.4	12.1	-36.9	-38.0	-41.3	-60.5	-28.6
Endpoint 41	-0.4	10.0	-28.7	-26.6	-25.4	-25.4	-24.2	-28.0	-24.2	-40.4	0.5	-3.7	-25.7	18.8	21.7	-31.7	-45.5	-32.1	-57.7	-18.0
Endpoint 42	-0.4	10.0	-28.1	-27.9	-24.9	-17.1	-5.5	2.2	-18.9	-65.8	-43.2	-55.1	1.8	-4.8	-81.5	-108.2	-34.5	-45.6	-99.9	-54.7
Endpoint 43	-0.4	10.0	-27.1	-27.7	-24.1	7.8	-28.7	-11.5	-30.4	-15.7	-92.8	-42.4	-37.5	20.2	9.1	-3.4	-55.7	-78.8	-77.3	-28.0
Endpoint 44	-0.4	10.0	-27.6	-27.3	-25.3	-9.0	-2.1	-6.3	-67.9	-54.5	-7.8	8.6	-32.0	-69.5	-12.8	-73.0	-68.5	-53.6	-135.8	-138.0
Endpoint 45	-0.4	10.0	-28.8	-26.7	-25.2	-19.3	2.7	-6.8	-55.1	-34.6	-15.0	-43.4	-9.8	-24.8	-9.3	-47.6	-129.8	-55.2	-60.8	-22.9
Endpoint 46	-0.4	10.0	-28.5	-27.0	-25.9	-2.3	-29.8	-48.7	-79.0	-25.5	-15.8	5.0	10.4	22.0	11.0	3.8	-92.0	-45.0	-74.4	-63.0
Endpoint 47	-0.4	10.0	-27.9	-27.0	-25.0	2.2	-25.6	-44.8	-36.4	-54.5	-50.2	-4.6	-71.9	-48.0	19.1	-7.0	-46.0	-45.7	-89.8	-74.8
Endpoint 48	-0.4	10.0	-27.6	-27.6	-26.4	-24.5	-20.8	40.0	-16.6	-55.5	-48.2	-11.7	3.3	-73.5	-23.9	-16.5	-61.7	-72.0	-96.6	-46.8
Endpoint 49	-0.4	10.0	-28.0	-26.8	-25.9	-30.6	-8.9	0.1	-28.1	-19.9	-44.7	-34.7	-38.9	-66.7	23.1	-6.4	-39.5	-54.3	-55.2	-44.8
Endpoint 50	-0.4	10.0	-28.2	-25.8	-26.0	7.7	-9.3	1.9	-52.5	-14.9	1.1	-25.1	-61.0	-93.3	-19.8	-28.8	-43.3	-69.7	-59.4	-34.2
Expected Value	-0.4	10.0	-28.0	-27.2	-25.5	-9.1	-14.7	-11.7	-32.9	-35.6	-20.2	-17.5	-13.3	-8.7	-11.5	-28.5	-66.3	-58.0	-84.8	-51.2

Future 2: Annual Delta Revenue Requirements by Endpoint ($MM)
Weston 3 DFGD & SCR 12/2016 minus Weston 3 Replace 12/2016
Market Risk Analysis

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Endpoint 1	-0.4	10.9	-27.5	-27.7	-25.2	31.4	20.4	-6.7	-24.8	-13.6	-10.5	22.2	46.1	42.2	-26.1	5.6	-51.6	-8.3	-23.5	34.0
Endpoint 2	-0.4	10.9	-26.7	-25.0	-25.4	23.1	-10.1	0.0	6.0	9.5	20.0	4.5	-8.2	-0.5	1.7	-23.0	-105.6	-56.9	-121.2	-31.9
Endpoint 3	-0.4	10.9	-26.3	-27.9	-25.4	16.1	7.9	8.3	-18.3	-31.5	11.1	17.7	17.7	-28.9	31.6	-28.9	-52.3	-19.8	-40.4	-13.0
Endpoint 4	-0.4	10.9	-26.9	-27.3	-24.7	3.1	22.0	23.5	-3.1	16.0	-20.1	-1.0	27.7	23.4	42.6	21.5	-66.7	-17.5	9.3	-34.4
Endpoint 5	-0.4	10.9	-26.5	-26.8	-23.8	20.1	21.5	7.3	10.8	-28.2	5.0	-14.8	7.3	0.2	-10.4	1.6	-30.1	-54.4	-40.6	-35.8
Endpoint 6	-0.4	10.9	-26.8	-27.0	-26.2	24.3	-2.2	-5.0	25.4	-18.2	17.3	19.1	25.2	5.7	6.2	5.3	-51.0	-48.6	-34.6	-25.4
Endpoint 7	-0.4	10.9	-26.1	-27.7	-24.9	31.7	2.3	18.7	-7.0	-9.4	15.5	-26.0	23.6	40.7	-1.6	-16.2	-24.9	-38.1	-68.0	-4.2
Endpoint 8	-0.4	10.9	-26.7	-27.0	-24.9	23.5	16.7	-4.0	-10.9	-14.2	-1.4	-39.7	15.5	48.7	26.0	-56.9	-36.3	-72.9	-82.2	-24.0
Endpoint 9	-0.4	10.9	-27.7	-27.2	-25.6	34.8	9.4	22.8	-2.1	-13.5	-12.2	27.0	13.1	28.2	-45.2	-6.7	-51.9	-52.3	-45.1	-79.8
Endpoint 10	-0.4	10.9	-26.8	-26.8	-26.8	29.7	29.3	26.4	9.4	-13.7	12.9	-47.9	37.0	10.7	-7.6	-7.1	-98.0	-62.6	-110.9	1.6
Endpoint 11	-0.4	10.9	-25.8	-26.5	-23.6	41.0	26.2	28.4	-34.8	1.9	27.0	1.8	40.9	23.5	27.0	-33.5	-44.3	-26.8	-26.8	19.2
Endpoint 12	-0.4	10.9	-26.9	-26.5	-25.7	34.4	24.5	4.6	-3.3	-7.3	15.2	-20.6	9.2	29.9	-64.7	-22.2	-29.6	-48.9	-85.7	-44.4
Endpoint 13	-0.4	10.9	-26.1	-28.2	-25.1	0.4	18.0	-7.5	-49.4	-28.8	30.1	8.3	19.0	19.4	40.9	-3.7	-21.7	-13.0	2.0	30.0
Endpoint 14	-0.4	10.9	-27.1	-26.6	-25.8	-1.3	26.3	28.3	10.3	-5.7	-11.1	-11.7	36.6	33.2	6.4	11.9	-18.7	25.2	19.4	36.8
Endpoint 15	-0.4	10.9	-26.7	-27.5	-25.8	21.6	-1.6	2.6	-4.5	-8.3	-59.3	3.5	13.4	27.8	-38.1	6.6	-37.2	-54.4	-102.3	-8.0
Endpoint 16	-0.4	10.9	-27.1	-26.9	-25.7	34.8	20.9	15.3	-40.5	3.0	-8.5	2.4	-82.9	-9.5	37.5	14.8	-31.5	-51.7	-56.8	-40.5
Endpoint 17	-0.4	10.9	-27.9	-27.1	-25.9	-3.5	-14.1	6.8	20.1	-25.1	-24.9	-9.4	-37.8	22.5	37.2	0.0	-43.4	-16.4	-10.4	-21.0
Endpoint 18	-0.4	10.9	-27.1	-27.9	-25.9	20.7	19.6	19.4	-12.9	-39.9	-32.0	21.5	13.9	31.8	13.8	1.3	-31.8	-39.2	-83.1	-23.0
Endpoint 19	-0.4	10.9	-26.5	-26.6	-25.5	10.7	10.5	17.3	-7.1	6.5	32.2	34.3	23.4	21.9	-7.8	-32.8	-42.0	-22.4	-76.9	-15.3
Endpoint 20	-0.4	10.9	-26.9	-26.7	-25.6	22.3	8.3	27.9	-6.0	-33.7	-5.9	-4.4	20.6	15.6	-1.5	-12.7	-47.6	-17.5	-89.2	-34.8
Endpoint 21	-0.4	10.9	-26.8	-27.5	-25.3	33.3	11.3	13.5	-3.2	-20.7	-5.5	2.7	28.1	46.4	14.4	-15.0	-34.5	-10.7	-27.0	-15.5
Endpoint 22	-0.4	10.9	-27.2	-27.2	-25.1	28.5	6.7	0.1	7.3	3.7	31.9	-13.8	-26.0	25.6	-38.0	19.0	-21.5	-41.6	-102.6	-11.3
Endpoint 23	-0.4	10.9	-26.9	-27.7	-25.2	-16.2	22.9	41.5	3.5	-22.0	15.4	-12.6	13.3	-4.5	-18.2	-8.0	-62.7	-35.7	-69.0	-15.9
Endpoint 24	-0.4	10.9	-27.1	-27.6	-25.4	-11.1	22.4	38.6	1.7	-20.4	1.1	-20.6	29.7	40.8	40.2	0.4	-18.2	-27.5	-31.1	22.3
Endpoint 25	-0.4	10.9	-26.7	-27.9	-24.3	32.1	25.5	33.1	2.0	-10.8	29.2	30.7	9.5	-26.5	8.7	-33.9	-47.7	-58.0	-77.4	-52.6
Endpoint 26	-0.4	10.9	-26.8	-27.7	-25.6	9.3	22.8	30.1	20.7	-25.1	-17.2	10.2	31.0	41.3	22.0	14.6	-68.8	-17.2	-17.0	-20.5
Endpoint 27	-0.4	10.9	-26.8	-26.7	-24.7	-0.5	-4.9	-8.3	8.7	1.8	20.8	-39.0	21.5	14.0	10.8	-14.7	-43.6	-61.0	-31.9	-0.1
Endpoint 28	-0.4	10.9	-27.4	-26.6	-24.9	20.1	5.0	19.5	1.1	-13.2	25.9	34.6	22.1	2.4	11.2	-27.0	-57.8	0.1	-58.2	-59.0
Endpoint 29	-0.4	10.9	-26.5	-27.1	-25.8	28.8	26.6	-0.1	-81.2	-32.8	-7.7	11.9	-23.6	6.4	27.5	17.9	-34.1	-26.6	-31.8	-58.6
Endpoint 30	-0.4	10.9	-26.7	-27.6	-25.0	2.3	-3.7	27.1	2.4	0.3	31.8	-7.9	-2.5	37.3	27.2	-14.5	-53.1	-18.7	-25.8	-19.3
Endpoint 31	-0.4	10.9	-26.9	-27.5	-25.7	38.3	34.3	29.6	-11.4	0.8	-0.5	17.6	-6.3	40.3	39.0	12.5	-17.3	0.0	-13.9	13.8
Endpoint 32	-0.4	10.9	-27.4	-27.0	-25.7	23.6	26.2	35.3	7.1	16.9	31.2	13.2	-0.7	45.5	35.3	14.8	-29.5	-23.2	-34.4	-60.3
Endpoint 33	-0.4	10.9	-26.6	-27.8	-25.4	-0.4	5.9	8.1	-9.3	-8.8	3.2	-13.2	-17.0	17.6	11.1	-16.8	-89.3	-51.7	-61.2	-70.3
Endpoint 34	-0.4	10.9	-27.7	-27.4	-25.1	15.1	-17.9	37.3	-9.3	16.9	19.3	12.8	17.0	33.6	31.0	2.4	-12.1	-6.0	-15.3	3.4
Endpoint 35	-0.4	10.9	-27.2	-27.4	-25.0	1.0	-3.4	-10.2	-20.6	-5.9	27.0	28.4	17.8	0.5	-5.7	-2.9	-82.1	-52.7	-103.8	-93.5
Endpoint 36	-0.4	10.9	-27.6	-26.4	-25.5	32.0	8.8	39.5	-6.4	-12.7	7.0	14.1	24.8	-8.8	40.9	-6.8	-90.8	-40.3	-59.2	-74.1
Endpoint 37	-0.4	10.9	-26.0	-27.8	-25.5	22.7	-3.2	22.6	-12.7	2.5	25.5	19.6	33.9	4.5	2.8	-26.8	-29.5	-26.6	-21.7	32.7
Endpoint 38	-0.4	10.9	-26.9	-27.3	-25.2	15.6	-11.0	6.6	13.0	-21.2	-18.5	16.3	25.7	37.3	11.3	-28.3	-40.5	-43.2	-82.7	-117.8
Endpoint 39	-0.4	10.9	-26.7	-27.5	-25.4	35.7	31.4	8.7	0.8	0.3	12.1	22.4	18.2	51.3	-26.3	28.9	-3.3	2.0	-34.5	-59.5
Endpoint 40	-0.4	10.9	-26.1	-26.8	-25.1	13.3	23.7	20.0	-3.4	-7.5	18.4	8.8	21.0	28.7	32.6	16.1	-16.0	-14.6	-21.3	0.3
Endpoint 41	-0.4	10.9	-27.6	-26.6	-25.3	2.0	2.8	-1.8	1.3	-15.9	23.5	15.8	-3.1	40.0	42.0	-10.6	-22.8	-23.9	-19.3	9.4
Endpoint 42	-0.4	10.9	-27.0	-27.8	-24.7	10.0	21.1	27.9	6.3	-41.3	-19.1	-36.6	23.8	17.2	-58.9	-85.9	-13.3	-19.3	-60.7	-25.7
Endpoint 43	-0.3	10.9	-26.0	-27.7	-24.0	34.7	-1.9	14.2	-5.2	8.1	-68.2	-22.8	-15.1	41.3	30.2	16.3	-32.7	-51.6	-36.5	6.5
Endpoint 44	-0.4	10.9	-26.5	-27.3	-25.2	18.2	24.6	19.6	-42.2	-29.9	15.9	26.5	-9.5	-46.6	9.3	-51.0	-44.6	-27.2	-99.3	-119.3
Endpoint 45	-0.4	10.9	-27.7	-26.5	-25.1	8.0	29.1	18.8	-29.5	-10.4	8.3	-23.2	12.1	-2.8	12.3	-26.2	-105.2	-28.1	-22.1	5.1
Endpoint 46	-0.4	10.9	-27.4	-27.0	-25.7	24.8	-2.8	-22.4	-53.1	-1.2	8.1	26.3	11.9	43.1	31.7	23.0	-57.9	-18.6	-38.6	-37.5
Endpoint 47	-0.4	10.9	-26.8	-27.5	-24.8	29.4	1.3	-18.7	-11.1	-30.1	-25.9	16.2	-48.9	-25.8	39.6	12.8	-23.8	-19.5	-51.2	-49.1
Endpoint 48	-0.4	10.9	-26.9	-26.8	-26.3	2.9	5.1	-13.7	8.6	-31.0	-23.8	8.5	25.2	-50.7	-1.7	4.2	-38.0	-44.3	-62.6	-20.8
Endpoint 49	-0.4	10.9	-27.1	-25.7	-25.7	-3.0	17.9	25.9	-2.6	4.2	-20.4	-14.4	-16.2	-43.8	43.4	13.7	-17.4	-27.1	-18.2	-19.8
Endpoint 50	-0.4	10.9	-26.9	-26.8	-25.8	34.7	17.4	27.7	-26.9	9.2	24.2	-5.0	-38.2	-70.4	2.3	-7.6	-21.2	-42.3	-18.0	-2.9
Expected Value	-0.4	10.9	-26.9	-27.2	-25.3	18.1	12.0	14.1	-7.5	-11.3	3.5	2.3	8.8	13.1	9.9	-7.7	-43.1	-31.0	-48.3	-24.5

Public Version

Future 3: Annual Delta Revenue Requirements by Endpoint ($MM)
Weston 3 ReACT 12/2016 minus Weston 3 Replace 12/2016
Market Risk Analysis

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Endpoint 1	-0.4	10.0	-27.7	-25.0	-23.5	28.8	22.5	10.2	-20.1	-14.7	1.8	11.3	14.0	16.0	-13.5	3.1	-4.5	17.1	13.7	34.6
Endpoint 2	-0.4	10.0	-26.5	-24.5	-23.7	23.9	4.1	11.7	-12.2	-8.4	7.1	3.7	-2.0	-2.2	-9.0	-7.4	-28.6	-0.3	-17.6	2.9
Endpoint 3	-0.4	10.0	-27.0	-27.6	-26.3	19.3	12.1	16.0	-21.7	-24.8	8.3	5.0	2.6	-11.9	-1.2	-5.9	-1.2	10.1	7.5	14.9
Endpoint 4	-0.4	10.0	-27.4	-26.3	-24.1	18.3	22.9	25.0	-10.4	-2.9	3.8	8.3	11.7	8.7	6.1	14.6	0.5	15.3	24.8	26.0
Endpoint 5	-0.4	10.0	-28.6	-27.8	-23.8	23.8	20.5	17.5	-8.6	-23.0	-0.4	-6.1	-3.8	-3.9	-13.3	-0.8	-0.3	-7.7	1.0	12.3
Endpoint 6	-0.4	10.0	-28.0	-27.9	-21.9	25.0	8.5	11.5	-3.9	-20.0	7.2	4.6	2.5	0.3	-13.5	-3.5	-11.4	-1.6	5.5	-13.0
Endpoint 7	-0.4	10.0	-27.4	-26.6	-24.7	26.6	10.3	21.2	-17.2	-16.6	4.0	-9.9	0.1	2.9	-14.6	-9.9	-3.0	1.6	-22.2	16.8
Endpoint 8	-0.4	10.0	-27.2	-24.7	-24.7	23.6	17.7	10.1	-20.1	-17.0	-0.3	-6.1	4.2	11.6	-4.3	-20.9	-1.4	0.3	-8.5	18.2
Endpoint 9	-0.4	10.0	-28.1	-24.5	-24.9	29.3	12.8	21.8	-15.3	-17.3	-2.8	3.1	-1.1	4.0	-33.7	-11.4	-13.4	-8.8	1.4	-1.4
Endpoint 10	-0.4	10.0	-27.5	-24.7	-25.4	27.7	24.7	25.3	-8.5	-11.4	6.9	-8.4	6.7	4.2	-11.9	-3.3	-15.8	2.2	-12.0	23.6
Endpoint 11	-0.4	10.0	-27.7	-23.5	-23.2	37.1	23.9	24.9	-31.2	-12.0	12.1	2.4	6.7	5.5	-5.7	-10.9	1.1	8.9	8.5	24.1
Endpoint 12	-0.4	10.0	-27.7	-25.3	-24.6	29.7	22.8	14.0	-14.4	-9.5	10.8	-4.5	1.0	4.7	-33.4	-12.2	-3.7	-3.9	-5.3	7.6
Endpoint 13	-0.4	10.0	-27.5	-26.0	-24.1	13.6	20.3	8.1	-33.4	-21.1	11.4	7.4	6.6	10.1	5.2	0.7	6.4	11.1	19.0	29.5
Endpoint 14	-0.4	10.0	-26.8	-25.5	-25.5	13.1	22.1	26.4	-5.9	-10.9	4.1	2.2	14.1	16.4	2.1	12.9	16.3	29.9	26.3	40.1
Endpoint 15	-0.4	10.0	-28.0	-27.1	-24.9	24.8	10.3	14.4	-13.1	-15.3	-13.6	0.0	-1.8	-0.1	-28.5	-7.2	-5.7	0.7	-15.0	16.0
Endpoint 16	-0.4	10.0	-27.4	-25.8	-24.4	29.8	20.8	20.9	-31.2	-10.0	-3.5	-0.9	-36.1	-6.4	-3.2	-2.4	0.4	-7.9	-3.3	4.8
Endpoint 17	-0.4	10.0	-28.1	-26.7	-24.3	13.9	4.0	17.0	-8.0	-23.7	-5.7	-1.2	-11.1	3.6	-2.0	0.3	-1.7	11.7	2.1	17.3
Endpoint 18	-0.4	10.0	-27.4	-26.6	-22.8	22.4	18.5	19.6	-20.3	-32.3	-8.4	4.9	-4.6	5.2	-11.0	-5.1	-0.8	7.2	-8.3	16.2
Endpoint 19	-0.4	10.0	-27.5	-26.3	-26.2	16.5	17.1	23.5	-14.1	-7.4	16.4	14.0	5.8	6.7	-12.5	-8.0	0.1	8.3	-2.1	15.4
Endpoint 20	-0.4	10.0	-26.8	-26.8	-26.0	24.1	13.6	25.4	-16.1	-26.6	2.1	-0.6	-1.0	2.2	-14.0	-6.9	-3.9	10.4	-11.9	12.5
Endpoint 21	-0.4	10.0	-27.0	-27.2	-25.0	28.9	15.5	17.9	-16.5	-21.9	-0.3	3.2	5.7	13.5	-7.1	-3.4	1.4	10.7	12.2	21.6
Endpoint 22	-0.4	10.0	-26.4	-27.5	-25.3	27.7	14.2	15.3	-9.1	-8.3	16.5	1.1	-2.2	10.8	-15.1	6.9	5.2	5.1	-3.1	25.9
Endpoint 23	-0.4	10.0	-27.2	-25.9	-23.5	1.8	22.2	29.5	-12.8	-22.5	6.0	-0.5	1.0	-6.1	-18.4	-2.9	-9.6	1.6	-11.6	19.6
Endpoint 24	-0.4	10.0	-27.4	-27.1	-24.7	8.6	21.2	28.0	-14.0	-20.4	0.6	-5.3	4.8	16.3	1.0	-0.6	4.6	7.7	8.9	26.9
Endpoint 25	-0.4	10.0	-27.9	-26.3	-23.3	28.7	23.2	27.9	-12.4	-14.6	10.2	9.6	1.7	-10.1	-11.1	-17.3	-9.7	-5.2	-6.3	0.1
Endpoint 26	-0.4	10.0	-27.9	-26.4	-24.4	18.1	22.0	26.8	-3.9	-20.9	-3.6	4.6	6.1	8.9	-5.0	6.4	-12.1	7.3	6.9	23.1
Endpoint 27	-0.4	10.0	-26.1	-26.4	-23.6	13.2	9.0	8.7	-11.1	-11.1	8.7	-5.6	4.8	4.6	-1.9	0.1	5.7	-8.0	12.7	25.5
Endpoint 28	-0.4	10.0	-23.3	-25.8	-25.5	24.9	16.9	24.2	-10.9	-13.7	12.8	12.4	6.4	0.8	-3.9	-11.2	-1.1	20.9	9.0	18.3
Endpoint 29	-0.4	10.0	-27.6	-26.6	-24.1	27.8	24.8	13.3	-50.3	-29.7	-2.9	5.0	-9.4	3.0	0.7	6.7	-1.6	8.4	11.5	12.3
Endpoint 30	-0.4	10.0	-26.8	-27.4	-25.4	15.2	8.6	24.4	-11.7	-10.3	15.6	3.6	3.0	13.2	0.1	-0.7	-12.9	11.6	10.1	16.7
Endpoint 31	-0.4	10.0	-27.8	-27.3	-23.7	31.4	26.7	25.8	-18.2	-8.1	5.4	9.8	2.0	8.9	3.5	6.8	9.7	25.0	20.4	29.3
Endpoint 32	-0.4	10.0	-28.2	-25.2	-25.6	25.2	21.9	27.9	-9.9	-5.9	13.6	5.8	-1.9	12.0	-0.5	-0.7	0.8	8.9	4.1	9.8
Endpoint 33	-0.4	10.0	-28.0	-27.1	-25.7	11.2	13.6	14.9	-15.3	-18.4	1.0	-1.7	-6.9	3.2	-9.0	-7.7	-19.4	0.5	-2.1	0.6
Endpoint 34	-0.4	10.0	-27.5	-27.0	-25.4	20.3	1.3	27.4	-22.1	-11.3	8.1	4.2	7.4	-6.7	0.3	-0.2	6.9	11.4	9.5	18.1
Endpoint 35	-0.4	10.0	-26.7	-27.5	-25.2	15.1	10.4	8.4	-18.8	-11.7	7.7	5.0	-0.1	-5.2	-13.8	-5.5	-15.9	-4.8	-20.5	-1.1
Endpoint 36	-0.4	10.0	-27.2	-27.3	-24.5	28.3	15.1	30.0	-16.7	-18.0	4.3	6.9	4.3	0.7	6.6	-1.2	-15.6	6.0	7.6	12.9
Endpoint 37	-0.4	10.0	-25.7	-27.4	-26.0	22.8	7.1	24.0	-17.6	-7.7	10.4	4.7	5.7	0.5	-9.5	-4.6	6.1	10.9	14.7	40.2
Endpoint 38	-0.4	10.0	-27.9	-26.0	-24.7	22.2	7.8	18.2	-5.7	-16.8	-3.9	3.1	5.8	6.4	-8.3	-8.7	-1.0	3.3	-9.1	-23.0
Endpoint 39	-0.4	10.0	-27.6	-25.7	-23.9	30.0	24.7	14.9	-11.8	-11.6	7.9	8.7	6.7	21.1	-13.2	10.1	16.1	20.1	17.4	24.1
Endpoint 40	-0.4	10.0	-27.2	-25.9	-23.9	20.6	20.9	20.0	-18.0	-15.2	8.7	5.8	7.0	5.7	-0.4	-0.8	9.1	13.7	7.8	17.8
Endpoint 41	-0.4	10.0	-25.9	-26.9	-25.0	13.6	14.4	13.3	-9.5	-15.1	13.5	9.4	-0.7	19.9	8.4	4.6	8.9	10.5	9.4	22.9
Endpoint 42	-0.4	10.0	-27.2	-26.3	-25.9	15.4	21.6	25.1	-14.2	-29.3	-3.0	-3.1	1.1	1.9	-29.0	-28.7	4.4	9.6	5.0	19.6
Endpoint 43	-0.4	10.0	-27.2	-26.8	-25.4	29.9	7.1	16.5	-16.3	-11.1	-29.0	-10.1	-11.4	3.4	-10.4	-3.4	-5.5	-11.1	1.7	15.2
Endpoint 44	-0.4	10.0	-27.5	-25.7	-25.2	22.8	24.4	23.0	-31.5	-20.2	6.9	7.8	-8.8	-18.4	-8.9	-21.6	-3.8	5.6	-11.2	-17.5
Endpoint 45	-0.4	10.0	-27.5	-25.9	-26.1	15.9	22.7	18.5	-27.5	-15.5	4.0	-7.4	0.5	0.1	-2.6	-5.4	-21.5	10.1	14.2	27.4
Endpoint 46	-0.4	10.0	-27.8	-25.6	-24.3	25.0	8.8	-0.3	-35.6	-11.7	3.3	6.6	-0.7	10.1	1.7	9.7	-10.6	11.3	10.5	16.2
Endpoint 47	-0.4	10.0	-27.4	-26.7	-24.5	26.7	10.1	-2.3	-19.0	-24.8	-7.5	3.9	-21.1	-16.7	-4.1	-2.7	-3.5	7.8	-4.3	12.1
Endpoint 48	-0.4	10.0	-28.0	-26.5	-25.2	16.6	14.8	6.0	-11.1	-21.0	-5.3	3.6	6.0	-14.2	-16.1	3.5	3.2	6.6	2.5	21.7
Endpoint 49	-0.4	10.0	-26.9	-25.7	-24.9	12.8	20.3	26.1	-11.0	-6.8	-0.4	2.3	-1.0	11.8	4.5	8.8	9.1	15.1	17.1	27.8
Endpoint 50	-0.4	10.0	-27.4	-24.8	-24.2	29.7	20.0	26.9	-23.9	-5.9	8.8	-2.4	-15.6	-27.0	-12.2	-11.4	-0.5	-5.4	-1.1	18.0
Expected Value	-0.4	10.0	-27.3	-26.3	-24.7	22.0	16.4	18.9	-16.6	-15.7	3.6	2.4	0.3	2.5	-7.7	-3.2	-2.5	6.4	3.0	16.0

Future 3: Annual Delta Revenue Requirements by Endpoint ($MM)
Weston 3 DFGD & SCR 12/2016 minus Weston 3 Replace 12/2016
Market Risk Analysis

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Endpoint 1	-0.4	10.9	-26.6	-25.0	-23.4	54.6	48.0	35.7	4.6	8.5	23.6	30.8	33.3	35.1	6.5	22.2	14.4	34.8	31.6	52.1
Endpoint 2	-0.4	10.9	-25.4	-24.5	-23.5	49.9	30.4	37.1	11.5	14.3	28.5	22.7	18.4	17.6	10.4	11.9	-8.0	18.2	2.6	20.9
Endpoint 3	-0.4	10.9	-25.9	-27.5	-26.2	45.7	38.2	41.0	2.9	-0.9	29.9	24.5	22.4	8.8	17.8	13.7	17.6	28.0	25.7	32.6
Endpoint 4	-0.4	10.9	-26.3	-26.2	-24.0	44.8	48.3	49.5	13.4	19.2	26.0	27.4	31.2	28.1	24.9	33.1	19.7	33.2	42.5	43.8
Endpoint 5	-0.4	10.9	-27.5	-27.7	-23.7	49.9	46.0	42.6	15.1	0.7	21.3	13.3	15.8	15.5	6.2	17.8	18.0	11.5	18.9	30.1
Endpoint 6	-0.4	10.9	-26.9	-27.8	-21.7	50.9	34.8	36.9	19.4	3.5	28.6	24.2	22.2	20.1	5.9	15.4	7.7	17.3	23.3	5.1
Endpoint 7	-0.4	10.9	-26.3	-26.5	-24.6	52.3	36.5	45.9	7.1	6.5	25.3	8.9	19.8	22.0	5.1	9.3	15.3	19.7	-3.1	34.2
Endpoint 8	-0.4	10.9	-26.1	-24.6	-24.5	49.5	43.5	35.5	4.3	6.1	21.5	10.3	24.0	30.7	14.7	-0.8	17.4	20.0	10.6	36.3
Endpoint 9	-0.4	10.9	-27.0	-24.4	-24.8	55.0	38.6	46.4	8.8	5.9	19.5	22.1	18.7	23.4	-12.8	7.8	5.9	10.5	19.7	17.6
Endpoint 10	-0.4	10.9	-26.4	-24.7	-24.8	53.4	50.1	49.6	15.4	11.9	28.5	10.4	26.1	23.7	8.0	15.7	4.5	21.3	7.7	41.0
Endpoint 11	-0.4	10.9	-26.5	-23.4	-23.1	62.7	49.2	49.2	-6.3	10.9	33.4	22.3	26.2	24.9	13.2	8.7	19.9	26.8	26.2	41.5
Endpoint 12	-0.4	10.9	-26.5	-25.2	-24.5	55.4	48.2	39.0	9.6	13.4	32.6	14.4	21.1	24.1	-12.1	7.6	15.2	15.2	13.9	26.1
Endpoint 13	-0.4	10.9	-26.4	-25.9	-24.0	40.4	45.9	33.6	-8.2	2.4	32.5	26.0	26.3	29.5	24.0	19.5	24.7	29.0	36.6	47.1
Endpoint 14	-0.4	10.9	-25.7	-25.6	-25.3	39.8	47.4	50.7	17.5	11.9	26.2	22.2	33.6	35.8	21.4	31.7	34.7	47.6	44.0	57.5
Endpoint 15	-0.4	10.9	-26.8	-27.0	-24.7	50.8	36.5	39.5	11.0	7.7	9.4	19.7	17.9	19.1	-7.6	11.6	12.9	19.5	4.8	33.5
Endpoint 16	-0.4	10.9	-26.3	-25.8	-24.2	55.4	46.3	45.6	-6.3	12.6	18.5	18.7	-14.0	13.9	15.7	16.2	19.1	10.9	15.1	23.2
Endpoint 17	-0.4	10.9	-27.0	-26.6	-24.2	40.8	30.4	42.0	15.3	-0.4	16.4	18.8	9.8	23.0	16.9	19.1	17.0	29.5	19.9	35.3
Endpoint 18	-0.4	10.9	-26.3	-26.6	-22.7	48.6	44.0	44.3	4.1	-8.4	14.1	24.3	15.4	24.7	8.4	13.9	17.9	25.4	10.7	34.0
Endpoint 19	-0.4	10.9	-26.4	-26.3	-26.0	42.9	42.7	48.1	10.0	15.1	37.7	33.3	25.4	26.0	6.9	11.4	18.8	26.2	17.1	33.2
Endpoint 20	-0.4	10.9	-25.7	-26.7	-25.8	50.2	39.7	49.8	8.2	-2.9	24.1	19.7	18.8	21.7	5.5	12.5	15.0	28.3	7.7	30.5
Endpoint 21	-0.4	10.9	-25.9	-27.1	-24.9	54.6	41.4	42.8	7.6	1.6	21.5	22.2	25.2	32.6	12.1	15.8	19.9	28.5	29.8	39.3
Endpoint 22	-0.4	10.9	-25.3	-27.4	-25.2	53.5	40.1	40.5	14.5	14.2	37.8	19.9	18.3	30.4	4.9	25.6	23.6	23.7	16.3	43.6
Endpoint 23	-0.4	10.9	-26.1	-25.9	-23.4	28.7	47.7	53.4	11.1	1.1	27.4	16.3	20.8	13.8	1.3	16.0	9.6	19.9	7.8	37.4
Endpoint 24	-0.4	10.9	-26.3	-27.0	-24.5	35.6	46.6	52.2	10.0	3.2	22.4	13.4	24.3	35.4	19.8	18.1	22.9	25.9	27.0	44.1
Endpoint 25	-0.4	10.9	-26.8	-26.2	-23.2	54.4	48.6	52.3	11.6	8.6	31.5	27.2	21.7	10.4	8.3	2.5	9.3	14.2	12.8	18.9
Endpoint 26	-0.4	10.9	-26.8	-26.4	-24.3	44.6	47.5	51.0	19.6	2.5	18.5	21.7	25.6	28.2	14.1	25.0	7.7	25.0	24.9	41.1
Endpoint 27	-0.4	10.9	-24.9	-26.4	-23.4	39.8	35.2	34.0	12.6	11.6	30.0	14.2	24.6	24.1	17.5	19.0	24.3	11.1	30.4	43.1
Endpoint 28	-0.4	10.9	-22.1	-25.7	-25.3	50.9	42.6	48.6	12.8	9.6	34.1	31.1	26.0	20.4	15.4	8.0	38.5	38.5	27.2	36.4
Endpoint 29	-0.4	10.9	-26.5	-26.5	-24.0	53.7	50.1	38.5	-24.9	-6.0	19.2	24.7	11.4	22.9	20.0	25.4	16.9	26.5	29.6	30.9
Endpoint 30	-0.4	10.9	-25.7	-27.3	-25.2	41.8	34.9	48.8	12.2	12.4	36.8	21.3	23.1	32.4	19.1	18.2	5.8	29.4	28.1	36.4
Endpoint 31	-0.4	10.9	-26.7	-27.3	-23.5	56.8	51.8	50.1	6.0	14.5	27.1	28.8	22.2	28.1	22.4	25.5	28.0	42.7	38.3	46.9
Endpoint 32	-0.4	10.9	-27.1	-25.1	-25.4	51.1	47.3	52.2	13.9	16.3	34.7	25.8	18.2	31.1	18.3	17.8	19.1	27.1	22.0	28.3
Endpoint 33	-0.4	10.9	-26.9	-27.0	-25.5	38.0	39.7	40.0	8.7	4.7	22.7	18.0	13.4	22.7	10.0	11.2	0.7	18.8	16.3	20.0
Endpoint 34	-0.4	10.9	-26.4	-27.0	-25.3	46.5	27.9	51.7	2.2	11.6	29.7	23.6	27.3	14.0	19.4	18.6	25.1	29.3	27.3	35.7
Endpoint 35	-0.4	10.9	-25.6	-27.4	-25.0	41.8	36.5	33.9	5.5	11.2	28.8	25.7	19.6	14.6	6.1	13.5	3.6	14.2	-0.2	18.3
Endpoint 36	-0.4	10.9	-26.1	-27.2	-24.3	54.1	41.0	54.0	7.4	5.4	26.1	26.5	24.0	21.0	25.6	17.9	5.0	24.5	25.7	31.6
Endpoint 37	-0.4	10.9	-24.6	-27.3	-25.8	48.7	33.4	48.5	6.8	14.9	31.7	24.4	25.2	20.2	9.8	14.8	24.4	29.0	32.6	57.5
Endpoint 38	-0.4	10.9	-26.8	-26.0	-24.5	48.4	34.3	43.2	17.8	6.6	18.1	22.1	25.3	25.3	10.7	10.4	17.4	21.5	9.8	-2.7
Endpoint 39	-0.4	10.9	-26.5	-25.6	-23.7	55.6	49.9	40.0	12.0	11.3	29.4	29.0	26.4	40.2	7.1	28.4	34.2	37.8	35.1	41.9
Endpoint 40	-0.4	10.9	-26.0	-25.9	-23.8	47.0	46.2	44.6	6.0	8.1	30.1	26.2	26.6	24.9	18.5	18.0	27.4	31.5	25.6	35.4
Endpoint 41	-0.4	10.9	-24.8	-26.9	-24.9	40.4	40.2	38.5	14.3	8.0	34.8	28.1	19.0	39.0	27.2	23.5	27.2	28.4	27.2	40.4
Endpoint 42	-0.4	10.9	-26.0	-26.3	-25.7	41.8	47.1	49.5	9.5	-5.4	19.3	14.0	20.7	21.4	-8.2	-7.4	22.5	27.2	23.2	37.2
Endpoint 43	-0.4	10.9	-26.1	-26.8	-25.3	55.4	33.4	41.4	7.9	11.6	-5.4	6.7	9.4	22.5	8.5	15.2	13.0	8.3	19.6	32.7
Endpoint 44	-0.4	10.9	-26.4	-25.7	-25.0	48.8	49.7	47.7	-6.8	3.4	28.3	26.0	11.3	2.2	10.4	-1.4	14.9	23.7	8.0	2.0
Endpoint 45	-0.4	10.9	-26.4	-25.8	-26.0	42.4	48.0	43.2	-2.5	7.6	25.7	12.7	20.4	20.1	16.8	14.0	-1.2	27.9	32.2	45.0
Endpoint 46	-0.4	10.9	-26.7	-25.5	-24.1	50.9	35.1	25.5	-10.6	11.3	24.8	26.3	19.1	29.2	20.6	28.3	8.6	29.3	28.6	34.4
Endpoint 47	-0.4	10.9	-26.3	-26.7	-24.4	52.6	36.4	23.4	5.5	-1.1	15.0	23.3	0.1	3.8	14.7	16.2	15.0	25.7	14.3	30.4
Endpoint 48	-0.4	10.9	-26.9	-26.5	-25.0	43.1	40.7	31.5	12.6	2.7	17.2	22.8	25.7	6.7	3.6	22.3	21.7	25.1	21.3	39.4
Endpoint 49	-0.4	10.9	-25.8	-25.6	-24.8	39.5	45.9	50.3	13.1	15.7	21.6	21.5	19.4	8.9	23.3	27.4	27.5	33.0	34.8	45.4
Endpoint 50	-0.4	10.9	-26.3	-24.7	-24.1	55.2	45.6	51.3	0.8	16.8	30.2	17.7	5.2	-5.2	7.4	7.6	17.8	13.5	16.8	35.9
Expected Value	-0.4	10.9	-26.2	-26.2	-24.5	48.2	42.2	43.7	7.5	7.4	25.3	21.5	20.2	22.2	11.7	15.9	16.3	24.7	21.4	34.1

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 13
Page 13 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 14
Page 14 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 15
Page 15 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 16
Page 16 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 17
Page 17 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 18
Page 18 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 19
Page 19 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 20
Page 20 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 21
Page 21 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 22
Page 22 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 23
Page 23 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 24
Page 24 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 25
Page 25 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 26
Page 26 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 27
Page 27 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 28
Page 28 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 29
Page 29 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 30
Page 30 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 31
Page 31 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 32
Page 32 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 33
Page 33 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 34
Page 34 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 36
Page 36 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 37
Page 37 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 38
Page 38 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 39
Page 39 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 40
Page 40 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 41
Page 41 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 42
Page 42 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 43
Page 43 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 44
Page 44 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 45
Page 45 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.

This is a Confidential Exhibit and is intentially blank.

Public Version

Docket #: 6690-CE-193
Appendix C
Exhibit 47
Page 47 of 47
4-25-2012

This is a Confidential Exhibit and is intentially blank.