



ATTACHMENT 1

TO

April 26, 2023
ANNUAL REPORT OF SYSTEM
RELIABILITY ISSUES

DETAILED CALCULATIONS FOR EACH
HIGH and LOW OFO EVENT

LOW OFO

HIGH OFO

Gas Day	Cycle	OFO Declared	OFO Stage	OFO Tolerance %	Latest On-System Receipts	Latest Off-System Deliveries	Latest Net Receipts	Coefficient for Forecasted Receipts	Forecasted Receipts	Forecasted Send Out	Coefficient for Forecasted Send Out	Calculated Forecasted Send Out	Latest Injections	Latest Withdrawals	Coefficient for Forecasted Net Injections (Withdrawals)	Forecasted Net Injections (Withdrawals)	Forecasted Storage Injection For Balancing	Forecasted Injection Capacity	Maximum Injection Capacity for Load Balancing	Injection Capacity for Load Balancing	% for Load Balancing	Storage Limit For Balancing	Excess Storage Injection For Balancing
10/30/2022	2	HIGH	Stage 3	2	2,316,642	0	2,316,642	0.97	2,247,143	2,052,000	0.98	2,010,960	54,320	0	0.27	14,666	221,517	97,000	817,000	97,000	44	42,680	(178,837)
10/30/2022	3	HIGH	Stage 3.1	2	2,318,147	0	2,318,147	0.97	2,248,603	2,052,000	0.98	2,010,960	54,320	0	0.27	14,666	222,977	97,000	817,000	97,000	44	42,680	(180,297)
11/02/2022	2	HIGH	Stage 3.1	4	2,771,730	0	2,771,730	0.97	2,688,578	2,570,000	0.98	2,518,600	0	0	0.27	0	169,978	164,000	517,000	164,000	69	113,160	(56,818)
11/02/2022	3	HIGH	Stage 3.2	5	2,854,770	0	2,854,770	0.97	2,769,127	2,513,700	0.98	2,463,426	50,000	0	0.27	13,500	292,201	164,000	517,000	164,000	69	113,160	(179,041)
11/03/2022	2	No OFO			2,759,183	0	2,759,183	0.97	2,676,408	2,795,850	0.98	2,739,933	0	0	0.27	0	0	179,000	517,000	179,000	69	123,510	0
11/03/2022	3	HIGH	Stage 3	4	2,740,057	0	2,740,057	0.97	2,657,855	2,806,110	0.98	2,749,988	0	353,160	0.27	(353,160)	261,027	179,000	517,000	179,000	69	123,510	(137,517)
11/04/2022	2	No OFO			2,621,387	0	2,621,387	0.97	2,542,745	2,788,590	0.98	2,732,818	0	204,921	0.27	(204,921)	14,848	180,000	517,000	180,000	69	124,200	0
11/04/2022	3	HIGH	Stage 3	4	2,688,457	0	2,688,457	0.97	2,607,803	2,788,590	0.98	2,732,818	0	275,921	0.27	(275,921)	150,906	180,000	517,000	180,000	69	124,200	(26,706)
11/12/2022	2	HIGH	Stage 3	5	2,753,580	0	2,753,580	0.97	2,670,973	2,582,325	0.98	2,530,679	0	225,000	0.27	(225,000)	365,294	181,000	517,000	181,000	69	124,890	(240,404)
11/12/2022	3	HIGH	Stage 3	5	2,707,194	0	2,707,194	0.97	2,625,978	2,582,325	0.98	2,530,679	13,148	0	0.27	3,550	91,749	181,000	517,000	181,000	69	124,890	0
11/13/2022	2	HIGH	Stage 2	4	2,729,113	0	2,729,113	0.97	2,647,240	2,726,361	0.98	2,671,834	13,307	217,000	0.27	(203,693)	179,099	170,000	517,000	170,000	69	117,300	(61,799)
11/13/2022	3	HIGH	Stage 2	4	2,682,026	0	2,682,026	0.97	2,601,565	2,770,920	0.98	2,715,502	13,307	217,000	0.27	(203,693)	89,756	170,000	517,000	170,000	69	117,300	0
11/16/2022	2	No OFO			2,685,262	0	2,685,262	0.97	2,604,704	2,902,730	0.98	2,844,675	0	322,000	0.27	(322,000)	82,029	170,000	517,000	170,000	69	117,300	0
11/16/2022	3	HIGH	Stage 2	4	2,736,139	0	2,736,139	0.97	2,654,055	2,902,730	0.98	2,844,675	0	322,000	0.27	(322,000)	131,380	170,000	517,000	170,000	69	117,300	(14,080)
11/19/2022	2	HIGH	Stage 2	4	2,551,286	0	2,551,286	0.97	2,474,747	2,698,740	0.98	2,644,765	0	353,000	0.27	(353,000)	182,982	170,000	517,000	170,000	69	117,300	(65,682)
11/19/2022	3	HIGH	Stage 2	4	2,592,454	0	2,592,454	0.97	2,514,680	2,698,740	0.98	2,644,765	5,000	353,000	0.27	(348,000)	217,915	170,000	517,000	170,000	69	117,300	(100,615)
11/24/2022	2	HIGH	Stage 3	6	2,616,708	0	2,616,708	0.97	2,538,207	2,586,985	0.98	2,535,245	10,074	173,000	0.27	(162,926)	165,888	222,000	517,000	222,000	69	153,180	(12,708)
11/24/2022	3	HIGH	Stage 3	6	2,615,208	0	2,615,208	0.97	2,536,752	2,586,985	0.98	2,535,245	15,074	173,000	0.27	(157,926)	159,433	222,000	517,000	222,000	69	153,180	(6,253)
11/25/2022	2	HIGH	Stage 3	6	2,606,246	0	2,606,246	0.97	2,528,059	2,582,500	0.98	2,530,850	10,075	258,414	0.27	(248,339)	245,548	222,000	517,000	222,000	69	153,180	(92,368)
11/25/2022	3	HIGH	Stage 3.1	6	2,643,506	0	2,643,506	0.97	2,564,201	2,582,500	0.98	2,530,850	10,075	258,414	0.27	(248,339)	281,690	222,000	517,000	222,000	69	153,180	(128,510)
11/26/2022	2	No OFO			2,656,135	0	2,656,135	0.97	2,576,451	2,721,348	0.98	2,666,921	10,074	244,917	0.27	(234,843)	144,373	222,000	517,000	222,000	69	153,180	0
11/26/2022	3	HIGH	Stage 3	6	2,624,676	0	2,624,676	0.97	2,545,936	2,636,700	0.98	2,583,966	10,074	244,917	0.27	(234,843)	196,813	222,000	517,000	222,000	69	153,180	(43,633)
11/27/2022	2	HIGH	Stage 3	6	2,660,657	0	2,660,657	0.97	2,580,837	2,729,760	0.98	2,675,165	11,352	327,710	0.27	(316,358)	222,030	222,000	517,000	222,000	69	153,180	(68,850)
11/27/2022	3	HIGH	Stage 3	5	2,669,055	0	2,669,055	0.97	2,588,983	2,797,200	0.98	2,741,256	12,352	327,710	0.27	(315,358)	163,085	222,000	517,000	222,000	69	153,180	(9,905)
11/28/2022	2	HIGH	Stage 3	5	2,679,542	0	2,679,542	0.97	2,599,156	3,064,274	0.98	3,002,989	77	559,371	0.27	(559,294)	155,461	222,000	517,000	222,000	69	153,180	(2,281)
11/28/2022	3	HIGH	Stage 3	5	2,671,570	0	2,671,570	0.97	2,591,423	3,064,274	0.98	3,002,989	77	559,371	0.27	(559,294)	147,728	222,000	517,000	222,000	69	153,180	0
11/30/2022	2	HIGH	Stage 3	5	2,491,548	0	2,491,548	0.97	2,416,802	3,393,162	0.98	3,325,299	0	1,120,000	0.27	(1,120,000)	211,503	263,000	517,000	263,000	69	181,470	(30,033)
11/30/2022	3	HIGH	Stage 3	5	2,568,228	0	2,568,228	0.97	2,491,181	3,393,162	0.98	3,325,299	0	1,140,000	0.27	(1,140,000)	305,882	263,000	517,000	263,000	69	181,470	(124,412)
12/30/2022	2	HIGH	Stage 3.3	13	2,570,654	0	2,570,654	0.97	2,493,534	2,720,000	0.98	2,665,600	16,967	640,703	0.27	(623,736)	451,670	759,000	517,000	517,000	69	356,730	(94,940)
12/30/2022	3	HIGH	Stage 4	10	2,625,242	0	2,625,242	0.97	2,546,485	2,788,000	0.98	2,732,240	116,967	640,703	0.27	(523,736)	337,981	759,000	517,000	517,000	69	356,730	0