

	100	88	87	-84.66	0.34	0.00	0.96
1.04	1.04						
	101	87	90	306.32	0.30	0.00	0.87
0.33	0.33						
	102	88	92	56.51	0.37	0.00	0.64
0.49	0.49						
	103	90	91	253.36	0.08	0.00	0.72
0.23	0.23						
	104	90	92	49.96	0.40	0.00	0.57
0.39	0.39						
	105	92	93	104.47	1.69	0.00	1.19
1.54	1.54						
	106	93	94	7.27	0.00	0.00	0.08
0.01	0.01						
	107	94	14	-70.37	0.96	0.00	0.80
0.74	0.74						
	108	257	96	251.36	0.21	0.00	0.71
0.23	0.23						
	109	296	98	121.17	0.01	0.00	0.34
0.06	0.06						
	110	297	97	21.00	0.04	0.00	0.24
0.08	0.08						
	111	95	168	29.82	0.17	0.00	0.34
0.13	0.13						
	112	255	256	-119.17	0.04	0.00	0.34
0.06	0.06						
	113	99	100	2.00	0.00	0.00	0.01
0.00	0.00						
	114	99	101	11.64	0.03	0.00	0.13
0.03	0.03						
	115	254	102	102.53	0.03	0.00	0.29
0.04	0.04						
	116	101	102	8.64	0.02	0.00	0.10
0.02	0.02						
	117	437	103	93.31	0.05	0.00	0.26
0.04	0.04						
	118	252	253	-89.31	0.02	0.00	0.25
0.03	0.03						
	119	251	106	23.20	0.06	0.00	0.26
0.08	0.08						
	120	152	122	-14.45	0.02	0.00	0.16
0.03	0.03						
	121	263	550	1521.50	0.71	0.00	2.43
1.58	1.58						
	122	106	107	32.42	0.09	0.00	0.37
0.21	0.21						
	123	107	108	0.00	0.00	0.00	0.00
0.00	0.00						
	124	107	109	31.42	0.17	0.00	0.36
0.20	0.20						
	125	109	110	3.00	0.00	0.00	0.03
0.00	0.00						
	126	109	469	24.42	0.11	0.00	0.28
0.10	0.10						

P-TC01962

	127	114	115	2.00	0.00	0.00	0.02
0.00	0.00						
	128	113	114	5.00	0.00	0.00	0.06
0.00	0.00						
	129	112	113	7.00	0.01	0.00	0.08
0.01	0.01						
	130	116	112	-14.42	0.02	0.00	0.16
0.03	0.03						
	131	116	117	-8.85	0.00	0.00	0.10
0.01	0.01						
	132	117	118	-11.85	0.02	0.00	0.13
0.02	0.02						
	133	116	119	21.28	0.05	0.00	0.24
0.07	0.07						
	134	119	155	14.09	0.01	0.00	0.16
0.03	0.03						
	135	119	120	5.19	0.00	0.00	0.06
0.01	0.01						
	136	120	121	1.00	0.00	0.00	0.03
0.00	0.00						
	137	120	122	2.19	0.00	0.00	0.02
0.00	0.00						
	138	122	123	-13.26	0.00	0.00	0.08
0.01	0.01						
	139	123	124	5.00	0.01	0.00	0.13
0.03	0.03						
	140	124	405	3.00	0.00	0.00	0.08
0.01	0.01						
	141	124	126	1.00	0.00	0.00	0.03
0.00	0.00						
	142	123	127	-20.26	0.02	0.00	0.13
0.02	0.02						
	143	127	128	-22.26	0.03	0.00	0.25
0.07	0.07						
	144	129	128	22.26	0.02	0.00	0.25
0.07	0.07						
	145	482	130	13.22	0.01	0.00	0.15
0.03	0.03						
	146	129	131	22.64	0.04	0.00	0.26
0.08	0.08						
	147	131	132	1.00	0.00	0.00	0.01
0.00	0.00						
	148	131	133	20.64	0.01	0.00	0.23
0.07	0.07						
	149	133	135	18.64	0.02	0.00	0.21
0.05	0.05						
	150	135	136	2.00	0.00	0.00	0.02
0.00	0.00						
	151	133	134	1.00	0.00	0.00	0.01
0.00	0.00						
	152	135	137	14.64	0.03	0.00	0.17
0.03	0.03						
	153	137	139	12.64	0.02	0.00	0.14
0.03	0.03						

P-TC01963

	154	139	141	9.64	0.01	0.00	0.11
0.02	0.02						
	155	139	140	1.00	0.00	0.00	0.01
0.00	0.00						
	156	141	313	12.00	0.01	0.00	0.14
0.02	0.02						
	157	142	143	11.00	0.00	0.00	0.12
0.02	0.02						
	158	143	144	4.00	0.00	0.00	0.05
0.00	0.00						
	159	144	145	2.00	0.00	0.00	0.02
0.00	0.00						
	160	146	141	3.36	0.00	0.00	0.04
0.00	0.00						
	161	147	146	7.28	0.00	0.00	0.08
0.01	0.01						
	162	147	148	6.08	0.00	0.00	0.07
0.01	0.01						
	163	148	150	3.08	0.00	0.00	0.03
0.00	0.00						
	164	150	151	1.00	0.00	0.00	0.01
0.00	0.00						
	165	148	149	1.00	0.00	0.00	0.01
0.00	0.00						
	166	147	152	-17.36	0.02	0.00	0.20
0.05	0.05						
	167	152	153	-3.91	0.00	0.00	0.04
0.00	0.00						
	168	155	154	5.91	0.00	0.00	0.07
0.01	0.01						
	169	155	156	6.17	0.00	0.00	0.07
0.01	0.01						
	170	156	157	1.00	0.01	0.00	0.08
0.03	0.03						
	171	156	158	3.17	0.00	0.00	0.04
0.00	0.00						
	172	158	159	3.00	0.22	0.00	0.24
0.22	0.22						
	173	490	160	-4.96	0.00	0.00	0.06
0.00	0.00						
	174	160	161	3.86	0.00	0.00	0.04
0.00	0.00						
	175	161	162	1.86	0.00	0.00	0.02
0.00	0.00						
	176	162	163	0.27	0.00	0.00	0.02
0.00	0.00						
	177	160	164	-11.82	0.01	0.00	0.13
0.02	0.02						
	178	164	165	-13.82	0.02	0.00	0.16
0.03	0.03						
	179	165	406	2.00	0.00	0.00	0.02
0.00	0.00						
	180	167	165	16.82	0.02	0.00	0.19
0.04	0.04						

P-TC01964

	181	267	167	18.82	0.04	0.00	0.21
0.05	0.05						
	182	97	169	20.00	0.06	0.00	0.23
0.07	0.07						
	183	169	170	17.00	0.04	0.00	0.19
0.05	0.05						
	184	170	172	14.00	0.06	0.00	0.16
0.04	0.04						
	185	172	173	10.00	0.02	0.00	0.11
0.02	0.02						
	186	173	174	4.00	0.00	0.00	0.05
0.00	0.00						
	187	177	175	470.63	29.31	0.00	5.34
29.31	29.31						
	188	177	176	-276.60	2.57	0.00	3.14
10.95	10.95						
	189	179	177	196.03	6.37	0.00	2.22
5.79	5.79						
	190	5	179	-2316.85	6.36	0.00	6.57
18.17	18.17						
	191	179	3	-2514.88	21.89	0.00	7.13
21.15	21.15						
	192	2	180	227.31	4.84	0.00	2.58
7.61	7.61						
	193	180	178	285.60	13.65	0.00	3.24
11.62	11.62						
	194	180	181	-59.29	0.33	0.00	0.67
0.63	0.63						
	195	2	183	84.29	1.46	0.00	0.96
1.21	1.21						
	196	181	183	-13.72	3.05	0.00	1.11
5.08	5.08						
	197	181	182	-46.57	0.16	0.00	0.53
0.40	0.40						
	198	183	184	68.57	0.83	0.00	0.78
0.83	0.83						
	199	184	185	39.75	0.21	0.00	0.45
0.30	0.30						
	200	184	185	26.82	0.21	0.00	0.30
0.15	0.15						
	201	185	186	64.57	0.74	0.00	0.73
0.74	0.74						
	202	186	187	52.57	0.70	0.00	0.60
0.51	0.51						
	203	186	188	8.00	0.01	0.00	0.09
0.02	0.02						
	204	188	189	2.00	0.08	0.00	0.16
0.14	0.14						
	205	188	191	2.00	0.00	0.00	0.02
0.00	0.00						
	206	188	190	3.00	0.00	0.00	0.03
0.00	0.00						
	207	190	192	2.00	0.00	0.00	0.02
0.00	0.00						

P-TC01965

	208	259	434	1531.97	4.30	0.00	4.35
8.60	8.60						
	209	193	194	1093.15	8.28	0.00	3.10
4.60	4.60						
	210	194	195	-295.90	17.37	0.00	3.36
12.41	12.41						
	211	195	196	-160.07	1.69	0.00	1.82
3.98	3.98						
	212	195	202	-139.84	1.47	0.00	1.59
3.10	3.10						
	213	269	I-PUMP-5	1.00	0.01	0.00	0.08
0.04	0.04						
	214	202	440	-143.84	0.60	0.00	1.63
2.98	2.98						
	215	204	206	5.00	0.00	0.00	0.06
0.01	0.01						
	216	204	205	-159.84	2.71	0.00	1.81
3.39	3.39						
	217	205	207	-68.64	0.71	0.00	0.78
0.71	0.71						
	218	207	94	-75.64	0.85	0.00	0.86
0.85	0.85						
	219	207	208	5.00	0.00	0.00	0.06
0.01	0.01						
	220	208	209	3.00	0.00	0.00	0.03
0.00	0.00						
	221	194	381	1378.05	0.20	0.00	3.91
7.07	7.07						
	222	210	211	1.00	0.00	0.00	0.01
0.00	0.00						
	223	210	212	359.44	7.40	0.00	2.29
4.23	4.23						
	224	214	213	31.00	0.00	0.00	0.20
0.03	0.03						
	225	212	214	342.80	0.48	0.00	2.19
3.87	3.87						
	226	212	215	-42.97	0.37	0.00	0.49
0.31	0.31						
	227	215	216	199.57	3.75	0.00	2.26
5.29	5.29						
	228	14	95	-72.37	0.19	0.00	0.82
0.93	0.93						
	229	216	219	196.57	1.77	0.00	2.23
5.05	5.05						
	230	219	221	-295.48	1.13	0.00	1.89
2.65	2.65						
	231	219	Riske TK	489.04	3.06	0.00	3.12
6.73	6.73						
	232	221	222	-111.70	0.20	0.00	0.71
0.44	0.44						
	233	222	223	1.00	0.00	0.00	0.01
0.00	0.00						
	234	222	224	-112.70	0.08	0.00	0.72
0.44	0.44						

P-TC01966

	235	224	225	8.00	0.00	0.00	0.05
0.00	0.00						
	236	225	226	1.00	0.00	0.00	0.03
0.00	0.00						
	237	225	227	6.00	0.00	0.00	0.04
0.00	0.00						
	238	227	228	5.00	0.00	0.00	0.03
0.00	0.00						
	239	228	229	1.00	0.00	0.00	0.01
0.00	0.00						
	240	228	230	2.00	0.00	0.00	0.01
0.00	0.00						
	241	224	232	-121.70	1.27	0.00	1.38
2.11	2.11						
	242	232	231	1.00	0.00	0.00	0.01
0.00	0.00						
	243	232	234	-123.70	1.85	0.00	1.40
2.18	2.18						
	244	234	233	1.00	0.00	0.00	0.01
0.00	0.00						
	245	234	235	-125.70	1.71	0.00	1.43
2.24	2.24						
	246	235	236	-126.70	1.03	0.00	1.44
2.28	2.28						
	247	221	237	-184.78	0.89	0.00	1.18
1.11	1.11						
	248	214	404	311.80	2.66	0.00	1.99
2.45	2.45						
	249	271	238	2144.80	3.02	0.00	3.42
2.98	2.98						
	250	551	239	6.00	0.01	0.00	0.07
0.01	0.01						
	251	239	240	1.00	0.00	0.00	0.01
0.00	0.00						
	252	240	241	0.00	0.00	0.00	0.00
0.00	0.00						
	253	237	577	1905.49	3.19	0.00	3.04
2.39	2.39						
	254	FGN-AA	538	6844.65	0.13	0.00	3.11
1.20	1.20						
	255	2	265	2820.66	32.11	0.00	8.00
20.07	20.07						
	256	265	522	3163.25	79.96	0.00	8.97
24.82	24.82						
	257	14	138	1.00	0.00	0.00	0.01
0.00	0.00						
	258	265	27	-342.59	11.83	0.00	3.89
11.83	11.83						
	259	111	220	69.11	0.03	0.00	0.20
0.02	0.02						
	260	196	197	-162.07	1.83	0.00	1.84
4.07	4.07						
	261	197	198	2.00	0.00	0.00	0.02
0.00	0.00						

P-TC01967

	262	197	200	-165.07	1.89	0.00	1.87
4.21	4.21						
	263	200	201	1.00	0.00	0.00	0.01
0.00	0.00						
	264	200	199	-166.07	1.87	0.00	1.88
4.26	4.26						
	265	75	264	0.00	0.00	0.00	0.00
0.00	0.00						
	266	448	217	69.11	0.01	0.00	0.20
0.02	0.02						
	267	62	399	-51.70	0.30	0.00	0.59
0.50	0.50						
	268	509	402	0.00	0.00	0.00	0.00
0.00	0.00						
	269	218	249	-89.61	0.01	0.00	0.25
0.03	0.03						
	270	193	242	308.82	1.78	0.00	1.97
2.40	2.40						
	271	242	243	307.82	1.91	0.00	1.96
2.39	2.39						
	272	243	244	305.82	2.24	0.00	1.95
2.36	2.36						
	273	244	245	4.01	0.00	0.00	0.05
0.00	0.00						
	274	245	246	2.01	0.00	0.00	0.02
0.00	0.00						
	275	246	247	-1.99	0.00	0.00	0.02
0.00	0.00						
	276	247	244	-3.99	0.00	0.00	0.05
0.00	0.00						
	277	217	111	69.11	0.03	0.00	0.20
0.02	0.02						
	278	175	278	0.00	0.00	0.00	0.00
0.00	0.00						
	279	278	279	0.00	0.00	0.00	0.00
0.00	0.00						
	280	278	280	0.00	0.00	0.00	0.00
0.00	0.00						
	281	104	251	24.20	0.01	0.00	0.15
0.03	0.03						
	282	481	252	-88.31	0.02	0.00	0.25
0.03	0.03						
	283	253	103	-91.31	0.04	0.00	0.26
0.03	0.03						
	284	254	99	-102.53	0.02	0.00	0.29
0.04	0.04						
	285	99	255	-119.17	0.03	0.00	0.34
0.06	0.06						
	286	256	98	-120.17	0.04	0.00	0.34
0.06	0.06						
	287	257	91	-252.36	0.15	0.00	0.72
0.23	0.23						
	288	258	51	3.00	0.00	0.00	0.03
0.00	0.00						

P-TC01968

	289	15	259	1581.97	8.67	0.00	4.49
9.13	9.13						
	290	168	268	22.82	0.09	0.00	0.26
0.11	0.11						
	291	218	448	84.29	0.02	0.00	0.24
0.03	0.03						
	292	268	424	20.82	0.00	0.00	0.24
0.09	0.09						
	293	154	153	4.91	0.00	0.00	0.06
0.01	0.01						
	294	93	205	93.20	1.56	0.00	1.06
1.25	1.25						
	295	95	297	-104.19	0.23	0.00	1.18
1.53	1.53						
	296	96	296	250.36	0.07	0.00	0.71
0.23	0.23						
	297	296	297	126.19	0.22	0.00	1.43
2.19	2.19						
	298	260	15	273.77	2.81	0.00	1.75
2.55	2.55						
	299	89	527	-141.91	0.84	0.00	0.91
0.67	0.67						
	300	9	428	272.23	1.33	0.00	3.09
10.25	10.25						
	301	244	284	293.82	4.09	0.00	3.33
8.90	8.90						
	302	271	272	82.01	1.08	0.00	0.93
0.98	0.98						
	303	272	273	82.01	0.28	0.00	0.93
0.98	0.98						
	304	274	273	-1.00	0.00	0.00	0.01
0.00	0.00						
	305	305	426	13.03	0.00	0.00	0.13
0.02	0.02						
	306	306	129	12.03	0.01	0.00	0.14
0.02	0.02						
	307	273	275	2.00	0.00	0.00	0.02
0.00	0.00						
	308	273	276	78.01	0.77	0.00	0.89
0.90	0.90						
	309	276	277	1.00	0.00	0.00	0.01
0.00	0.00						
	310	142	310	-12.00	0.01	0.00	0.14
0.02	0.02						
	311	310	311	0.00	0.00	0.00	0.00
0.00	0.00						
	312	311	312	0.00	0.00	0.00	0.00
0.00	0.00						
	313	310	313	-12.00	0.01	0.00	0.14
0.02	0.02						
	314	313	314	0.00	0.00	0.00	0.00
0.00	0.00						
	315	276	238	75.01	0.89	0.00	0.85
0.83	0.83						

P-TC01969

	316	220	478	55.11	0.03	0.00	0.16
0.01	0.01						
	317	238	575	2170.80	0.94	0.00	3.46
3.04	3.04						
	318	291	292	2.00	0.00	0.00	0.02
0.00	0.00						
	319	291	293	2.00	0.00	0.00	0.02
0.00	0.00						
	320	16	427	189.80	0.82	0.00	2.15
5.45	5.45						
	321	37	64	-67.45	0.27	0.00	0.77
0.69	0.69						
	322	346	I-PUMP-6	6.00	0.00	0.00	0.07
0.01	0.01						
	323	26	32	-130.56	1.59	0.00	1.48
1.98	1.98						
	324	146	150	0.92	0.00	0.00	0.01
0.00	0.00						
	325	25	28	-221.04	2.53	0.00	2.51
7.23	7.23						
	326	215	236	-252.54	1.74	0.00	2.87
7.90	7.90						
	327	6	175	-468.63	34.76	0.00	5.32
24.83	24.83						
	328	182	187	-47.57	0.41	0.00	0.54
0.36	0.36						
	329	102	425	13.85	0.01	0.00	0.16
0.04	0.04						
	330	143	330	6.00	0.01	0.00	0.07
0.01	0.01						
	331	330	331	5.00	0.01	0.00	0.06
0.00	0.00						
	332	331	332	1.00	0.00	0.00	0.01
0.00	0.00						
	333	331	333	2.00	0.00	0.00	0.02
0.00	0.00						
	334	333	334	1.00	0.00	0.00	0.01
0.00	0.00						
	335	144	335	1.00	0.00	0.00	0.01
0.00	0.00						
	336	285	286	2.00	0.00	0.00	0.02
0.00	0.00						
	337	285	287	98.08	2.16	0.00	1.11
1.17	1.17						
	338	248	7	17.00	0.00	0.00	0.11
0.01	0.01						
	339	7	248	-46.14	0.00	0.00	0.13
0.01	0.01						
	340	RobRoy	572	-603.60	0.02	0.00	1.71
1.15	1.15						
	341	340	341	4.00	0.00	0.00	0.05
0.00	0.00						
	342	340	494	111.57	0.02	0.00	0.71
0.36	0.36						

P-TC01970

	343	342	343	19.27	0.06	0.00	0.22
0.06	0.06						
	344	343	344	10.27	0.02	0.00	0.12
0.02	0.02						
	345	342	344	57.87	0.08	0.00	0.37
0.11	0.11						
	346	344	248	63.14	0.03	0.00	0.40
0.13	0.13						
	347	345	570	-23.70	0.13	0.00	0.27
0.08	0.08						
	348	346	347	22.00	0.09	0.00	0.25
0.07	0.07						
	349	347	348	6.00	0.00	0.00	0.07
0.01	0.01						
	350	347	349	4.00	0.00	0.00	0.05
0.00	0.00						
	351	346	350	-5.63	0.00	0.00	0.06
0.01	0.01						
	352	350	351	-15.63	0.03	0.00	0.18
0.04	0.04						
	353	351	352	10.00	0.01	0.00	0.11
0.02	0.02						
	354	351	534	-31.63	0.06	0.00	0.36
0.14	0.14						
	355	345	353	50.34	0.08	0.00	0.32
0.08	0.08						
	356	353	354	44.34	0.06	0.00	0.28
0.07	0.07						
	357	354	355	73.14	0.12	0.00	0.47
0.17	0.17						
	358	57	58	27.36	0.04	0.00	0.31
0.15	0.15						
	359	566	357	12.00	0.03	0.00	0.14
0.02	0.02						
	360	357	358	6.00	0.01	0.00	0.07
0.01	0.01						
	361	355	359	104.06	0.27	0.00	0.66
0.32	0.32						
	362	359	360	9.00	0.02	0.00	0.10
0.01	0.01						
	363	359	361	80.06	0.19	0.00	0.51
0.20	0.20						
	364	355	356	10.00	0.01	0.00	0.11
0.02	0.02						
	365	361	362	65.72	0.11	0.00	0.42
0.14	0.14						
	366	361	370	4.34	0.00	0.00	0.05
0.00	0.00						
	367	362	363	4.00	0.00	0.00	0.05
0.00	0.00						
	368	362	364	47.72	0.06	0.00	0.30
0.08	0.08						
	369	364	365	40.00	0.08	0.00	0.26
0.05	0.05						

P-TC01971

	370	364	366	-12.28	0.01	0.00	0.14
0.02	0.02						
	371	366	367	3.00	0.00	0.00	0.03
0.00	0.00						
	372	366	368	-23.28	0.07	0.00	0.26
0.08	0.08						
	373	368	369	6.00	0.00	0.00	0.07
0.01	0.01						
	374	368	370	-36.28	0.09	0.00	0.41
0.18	0.18						
	375	370	371	-36.94	0.09	0.00	0.42
0.19	0.19						
	376	477	371	101.94	0.52	0.00	0.65
0.31	0.31						
	377	479	371	-55.00	0.06	0.00	0.35
0.10	0.10						
	378	372	373	12.00	0.01	0.00	0.14
0.02	0.02						
	379	22	301	186.80	2.65	0.00	2.12
5.29	5.29						
	380	12	504	1606.01	5.68	0.00	2.56
2.31	2.31						
	381	28	74	-167.54	2.38	0.00	1.90
4.33	4.33						
	382	89	199	167.07	1.84	0.00	1.90
3.68	3.68						
	383	383	529	-1352.18	27.66	0.00	3.84
5.14	5.14						
	384	383	382	941.74	0.05	0.00	2.67
2.63	2.63						
	385	86	510	3448.69	0.04	0.00	4.35
4.04	4.04						
	386	212	237	2111.78	3.14	0.00	3.37
2.89	2.89						
	387	249	261	-162.61	0.09	0.00	0.46
0.10	0.10						
	388	478	477	33.53	0.01	0.00	0.10
0.01	0.01						
	389	567	261	162.61	0.14	0.00	0.46
0.10	0.10						
	390	445	448	3.82	0.00	0.00	0.02
0.00	0.00						
	391	287	375	97.89	0.18	0.00	0.28
0.04	0.04						
	392	266	453	-319.22	0.41	0.00	0.91
0.35	0.35						
	393	282	281	0.00	0.00	0.00	0.00
0.00	0.00						
	394	574	294	17.00	0.00	0.00	0.05
0.00	0.00						
	395	282	307	11.62	0.00	0.00	0.07
0.01	0.01						
	396	288	283	5.00	0.00	0.00	0.03
0.00	0.00						

P-TC01972

	397	288	290	5.00	0.00	0.00	0.06
0.00	0.00						
	398	289	309	11.00	0.00	0.00	0.07
0.00	0.00						
	399	289	295	2.00	0.00	0.00	0.02
0.00	0.00						
	400	400	259	-20.00	0.10	0.00	0.23
0.06	0.06						
	401	68	401	-116.86	0.42	0.00	0.75
0.53	0.53						
	402	9	515	-2164.01	0.05	0.00	3.45
4.02	4.02						
	403	527	529	-537.89	0.33	0.00	1.53
1.24	1.24						
	404	577	271	1905.49	0.26	0.00	3.04
2.39	2.39						
	405	30	303	-301.61	0.11	0.00	0.86
0.44	0.44						
	406	563	304	-4.99	0.00	0.00	0.06
0.00	0.00						
	407	76	407	170.54	0.27	0.00	1.09
1.06	1.06						
	408	407	408	1.00	0.00	0.00	0.01
0.00	0.00						
	409	294	282	11.62	0.00	0.00	0.03
0.00	0.00						
	410	410	57	0.00	0.00	0.00	0.00
0.00	0.00						
	411	294	308	5.38	0.00	0.00	0.06
0.01	0.01						
	412	299	298	2.00	0.00	0.00	0.02
0.00	0.00						
	413	299	300	0.46	0.00	0.00	0.01
0.00	0.00						
	414	307	289	14.00	0.01	0.00	0.09
0.01	0.01						
	415	300	307	3.38	0.00	0.00	0.04
0.00	0.00						
	416	308	299	2.46	0.00	0.00	0.03
0.00	0.00						
	417	300	308	-2.93	0.00	0.00	0.03
0.00	0.00						
	418	309	288	10.00	0.00	0.00	0.06
0.00	0.00						
	419	338	316	-144.57	0.15	0.00	0.92
0.59	0.59						
	420	316	318	-60.39	0.04	0.00	0.39
0.12	0.12						
	421	315	316	92.18	0.27	0.00	0.59
0.26	0.26						
	422	315	336	-193.57	0.27	0.00	1.24
1.01	1.01						
	423	317	320	-94.39	0.03	0.00	0.60
0.27	0.27						

P-TC01973

	424	318	322	-68.39	0.02	0.00	0.44
0.15	0.15						
	425	319	321	-84.39	0.04	0.00	0.54
0.22	0.22						
	426	320	315	-101.39	0.06	0.00	0.65
0.31	0.31						
	427	321	317	-94.39	0.03	0.00	0.60
0.27	0.27						
	428	322	319	-76.39	0.05	0.00	0.49
0.18	0.18						
	429	323	338	316.93	0.10	0.00	0.90
0.35	0.35						
	430	324	323	326.93	0.06	0.00	0.93
0.37	0.37						
	431	325	337	336.93	0.22	0.00	0.96
0.39	0.39						
	432	326	451	222.22	1.00	0.00	1.42
1.31	1.31						
	433	326	374	-222.22	0.68	0.00	1.42
1.31	1.31						
	434	327	452	1101.99	2.60	0.00	3.13
3.52	3.52						
	435	328	236	386.18	0.71	0.00	2.46
3.64	3.64						
	436	328	329	1.00	0.00	0.00	0.01
0.00	0.00						
	437	374	327	-290.22	0.95	0.00	1.85
2.14	2.14						
	438	375	339	-1294.33	0.15	0.00	3.67
4.74	4.74						
	439	327	375	-1392.22	1.69	0.00	3.95
5.43	5.43						
	440	374	377	34.00	0.01	0.00	0.22
0.04	0.04						
	441	376	488	-187.74	0.35	0.00	1.20
0.96	0.96						
	442	376	378	-645.09	0.69	0.00	1.83
1.31	1.31						
	443	378	379	1.00	0.00	0.00	0.00
0.00	0.00						
	444	378	386	-646.09	1.02	0.00	1.83
1.31	1.31						
	445	190	270	0.00	0.00	0.00	0.00
0.00	0.00						
	446	202	269	1.00	0.00	0.00	0.01
0.00	0.00						
	447	380	212	1121.20	10.03	0.00	3.18
3.64	3.64						
	448	336	380	-550.50	0.44	0.00	1.56
0.97	0.97						
	449	381	380	1671.70	3.43	0.00	4.74
7.62	7.62						
	450	381	382	-941.74	0.16	0.00	2.67
2.63	2.63						

P-TC01974

	451	383	384	410.44	0.04	0.00	2.62
4.07	4.07						
	452	385	210	410.44	6.14	0.00	2.62
5.40	5.40						
	453	384	385	410.44	0.09	0.00	2.62
5.40	5.40						
	454	386	387	-491.52	0.35	0.00	1.39
0.79	0.79						
	455	386	388	-154.57	0.14	0.00	0.99
0.67	0.67						
	456	387	381	-648.09	0.87	0.00	1.84
1.32	1.32						
	457	388	387	-155.57	0.20	0.00	0.99
0.68	0.68						
	458	497	390	0.00	0.00	0.00	0.00
0.00	0.00						
	459	390	166	-40.76	0.01	0.00	0.12
0.01	0.01						
	460	390	392	36.76	0.01	0.00	0.10
0.01	0.01						
	461	36	18	2.00	0.00	0.00	0.01
0.00	0.00						
	462	36	395	1.06	0.00	0.00	0.01
0.00	0.00						
	463	392	393	104.00	0.14	0.00	0.66
0.32	0.32						
	464	394	389	1.00	0.00	0.00	0.01
0.00	0.00						
	465	394	396	-2.00	0.00	0.00	0.01
0.00	0.00						
	466	396	27	344.59	6.89	0.00	3.91
16.45	16.45						
	467	395	398	0.06	0.00	0.00	0.00
0.00	0.00						
	468	395	397	1.00	0.00	0.00	0.01
0.00	0.00						
	469	398	411	0.00	0.00	0.00	0.00
0.00	0.00						
	470	170	171	2.00	0.00	0.00	0.02
0.00	0.00						
	471	O-RV-D	306	13.03	0.00	0.00	0.13
0.02	0.02						
	472	O-RV-E	118	13.85	0.01	0.00	0.16
0.04	0.04						
	473	O-RV-A	267	20.82	0.00	0.00	0.24
0.09	0.09						
	474	O-RV-C	112	24.42	0.01	0.00	0.28
0.10	0.10						
	475-XXCV	O-RV-B	25				
	476	22	427	-189.80	0.68	0.00	2.15
5.45	5.45						
	477	FGN-II	430	0.00	0.00	0.00	0.00
0.00	0.00						

P-TC01975

	478	513	531	1617.84	1.41	0.00	3.37
4.49	4.49						
	479	19	36	4.06	0.00	0.00	0.03
0.00	0.00						
	480	403	398	0.94	0.00	0.00	0.01
0.00	0.00						
	481-XXCV	O-RV-1	394				
	482	130	106	11.22	0.02	0.00	0.13
0.02	0.02						
	483	405	125	2.00	0.00	0.00	0.05
0.01	0.01						
	484	516	513	1617.84	0.02	0.00	3.37
4.49	4.49						
	485	McConnell	528	-560.68	0.02	0.00	1.59
1.34	1.34						
	486	405	409	1.00	0.00	0.00	0.01
0.00	0.00						
	487	406	412	1.00	0.00	0.00	0.01
0.00	0.00						
	488	509	538	0.00	0.00	0.00	0.00
0.00	0.00						
	489	530	I-PUMP-7	0.00	0.00	0.00	0.00
0.00	0.00						
	490	413	461	15.00	0.00	0.00	0.04
0.00	0.00						
	491	413	414	1.00	0.00	0.00	0.01
0.00	0.00						
	492	401	416	0.00	0.00	0.00	0.00
0.00	0.00						
	493	70	415	1.00	0.00	0.00	0.01
0.00	0.00						
	494	417	460	-347.22	0.18	0.00	0.98
0.41	0.41						
	495	417	418	1.00	0.00	0.00	0.01
0.00	0.00						
	496	419	417	-346.22	0.30	0.00	0.98
0.41	0.41						
	497-XXCV	430	410				
	498	16	431	0.00	0.00	0.00	0.00
0.00	0.00						
	499-XXCV	O-RV-G	432				
	500	432	810	-6.28	0.01	0.00	0.07
0.01	0.01						
	501	432	33	6.28	0.00	0.00	0.02
0.00	0.00						
	502	419	420	1.00	0.00	0.00	0.01
0.00	0.00						
	503	304	43	-4.99	0.00	0.00	0.06
0.00	0.00						
	504	193	434	-1489.97	1.54	0.00	4.23
6.16	6.16						
	505	434	435	28.00	0.04	0.00	0.18
0.03	0.03						

P-TC01976

	506	176	436	-278.60	2.78	0.00	1.78
1.99	1.99						
	507	436	178	-282.60	14.08	0.00	3.21
8.28	8.28						
	508	102	437	95.31	0.02	0.00	0.27
0.04	0.04						
	509	437	438	2.00	0.00	0.00	0.02
0.00	0.00						
	510	168	439	5.00	0.01	0.00	0.06
0.00	0.00						
	511	440	204	-152.84	0.80	0.00	1.73
2.65	2.65						
	512	440	441	9.00	0.04	0.00	0.10
0.01	0.01						
	513	345	442	-30.64	0.01	0.00	0.20
0.03	0.03						
	514	442	443	29.50	0.03	0.00	0.33
0.13	0.13						
	515	443	444	10.54	0.01	0.00	0.12
0.02	0.02						
	516	444	445	10.54	0.01	0.00	0.12
0.02	0.02						
	517	445	446	-11.28	0.01	0.00	0.13
0.02	0.02						
	518	446	443	-11.28	0.01	0.00	0.13
0.02	0.02						
	519	187	447	2.00	0.00	0.00	0.02
0.00	0.00						
	520	806	33	83.72	0.03	0.00	0.24
0.04	0.04						
	521	421	456	-341.22	0.09	0.00	0.97
0.40	0.40						
	522	421	423	1.00	0.00	0.00	0.01
0.00	0.00						
	523	449	421	-340.22	0.27	0.00	0.97
0.40	0.40						
	524	450	326	0.00	0.00	0.00	0.00
0.00	0.00						
	525	451	328	387.18	1.19	0.00	2.47
3.65	3.65						
	526	451	452	-165.02	0.04	0.00	0.47
0.10	0.10						
	527	449	463	1.00	0.00	0.00	0.01
0.00	0.00						
	528	452	212	933.97	4.04	0.00	2.65
2.59	2.59						
	529	50	266	-319.22	0.00	0.00	0.91
0.35	0.35						
	530	453	470	-324.22	0.13	0.00	0.92
0.37	0.37						
	531	454	455	12.00	0.00	0.00	0.08
0.01	0.01						
	532	454	449	-339.22	0.17	0.00	0.96
0.40	0.40						

P-TC01977

	533	456	457	2.00	0.00	0.00	0.01
0.00	0.00						
	534	457	458	1.00	0.00	0.00	0.01
0.00	0.00						
	535	457	459	1.00	0.00	0.00	0.01
0.00	0.00						
	536	456	419	-345.22	0.17	0.00	0.98
0.41	0.41						
	537	502	462	-501.20	2.17	0.00	1.42
0.82	0.82						
	538	460	413	46.00	0.00	0.00	0.13
0.01	0.01						
	539	82	462	-306.40	0.25	0.00	0.87
0.33	0.33						
	540	464	52	46.04	0.03	0.00	0.29
0.07	0.07						
	541	464	465	0.00	0.00	0.00	0.00
0.00	0.00						
	542	466	50	-286.22	0.21	0.00	0.81
0.40	0.40						
	543	466	467	1.00	0.00	0.00	0.01
0.00	0.00						
	544	468	258	3.00	0.00	0.00	0.03
0.00	0.00						
	545	468	492	1.00	0.00	0.00	0.01
0.00	0.00						
	546	475	493	1.00	0.00	0.00	0.01
0.00	0.00						
	547	166	489	-40.76	0.00	0.00	0.12
0.01	0.01						
	548	287	489	112.00	0.08	0.00	0.32
0.05	0.05						
	549	489	392	71.24	0.02	0.00	0.20
0.02	0.02						
	550	454	470	325.22	0.10	0.00	0.92
0.43	0.43						
	551	470	471	1.00	0.00	0.00	0.00
0.00	0.00						
	552	453	472	4.00	0.00	0.00	0.01
0.00	0.00						
	553	472	473	3.00	0.00	0.00	0.01
0.00	0.00						
	554	473	474	1.00	0.00	0.00	0.01
0.00	0.00						
	555	473	475	2.00	0.00	0.00	0.01
0.00	0.00						
	556	475	476	1.00	0.00	0.00	0.00
0.00	0.00						
	557	354	477	-34.80	0.02	0.00	0.22
0.04	0.04						
	558	477	478	-13.59	0.01	0.00	0.09
0.01	0.01						
	559	479	480	8.00	0.01	0.00	0.09
0.01	0.01						

P-TC01978

	560	479	372	28.00	0.04	0.00	0.18
0.03	0.03						
	561	481	104	27.20	0.00	0.00	0.08
0.00	0.00						
	562	482	305	13.03	0.00	0.00	0.15
0.03	0.03						
	563	484	482	26.25	0.00	0.00	0.30
0.10	0.10						
	564	481	483	61.11	0.02	0.00	0.17
0.02	0.02						
	565	483	484	61.11	0.02	0.00	0.17
0.02	0.02						
	566	484	485	34.87	0.00	0.00	0.10
0.01	0.01						
	567	O-RV-H	486	34.87	0.00	0.00	0.10
0.01	0.01						
	568	486	487	34.87	0.00	0.00	0.10
0.01	0.01						
	569	487	129	34.87	0.00	0.00	0.10
0.01	0.01						
	570	494	342	110.57	0.16	0.00	0.71
0.36	0.36						
	571	173	503	2.00	0.00	0.00	0.02
0.00	0.00						
	572	284	488	189.74	1.04	0.00	1.21
0.98	0.98						
	573	494	496	1.00	0.00	0.00	0.00
0.00	0.00						
	574	495	552	1.00	0.00	0.00	0.01
0.00	0.00						
	575	575	263	1521.50	0.76	0.00	2.43
1.58	1.58						
	576	575	551	571.57	0.55	0.00	1.62
1.04	1.04						
	577	575	551	77.74	0.55	0.00	0.88
1.04	1.04						
	578	495	498	1.00	0.00	0.00	0.01
0.00	0.00						
	579	404	271	321.31	3.45	0.00	2.05
2.59	2.59						
	580	340	524	-118.57	0.23	0.00	0.76
0.41	0.41						
	581	522	105	3163.25	1.02	0.00	8.97
24.82	24.82						
	582	574	495	2.00	0.00	0.00	0.01
0.00	0.00						
	583	499	23	10.00	0.03	0.00	0.11
0.02	0.02						
	584	336	325	356.93	0.26	0.00	1.01
0.44	0.44						
	585	337	324	336.93	0.05	0.00	0.96
0.39	0.39						
	586	500	302	176.80	0.33	0.00	2.01
4.78	4.78						

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	587	339	376	-832.83	2.05	0.00	5.32
15.10	15.10						
	588	339	338	-461.50	0.43	0.00	1.31
0.70	0.70						
	589	500	499	-176.80	1.97	0.00	2.01
4.78	4.78						
	590	501	500	0.00	0.00	0.00	0.00
0.00	0.00						
	591	158	163	0.73	0.00	0.00	0.01
0.00	0.00						
	592	158	490	-2.56	0.00	0.00	0.03
0.00	0.00						
	593	490	162	-0.60	0.00	0.00	0.01
0.00	0.00						
	594	490	491	3.00	0.00	0.00	0.03
0.00	0.00						
	595	504	16	204.80	0.08	0.00	0.58
0.21	0.21						
	596	536	530	0.00	0.00	0.00	0.00
0.00	0.00						
	597	508	2	3532.39	18.91	0.00	7.36
14.37	14.37						
	599	510	508	3532.39	0.43	0.00	7.36
14.37	14.37						
	600	808	807	0.00	0.00	0.00	0.00
0.00	0.00						
	601	552	573	1.00	0.00	0.00	0.01
0.00	0.00						
	602	237	404	14.51	0.00	0.00	0.09
0.01	0.01						
	603	70	502	-104.98	0.73	0.00	1.19
1.32	1.32						
	604	502	460	396.22	0.40	0.00	1.12
0.53	0.53						
	605	461	553	0.00	0.00	0.00	0.00
0.00	0.00						
	606	455	554	10.00	0.00	0.00	0.06
0.00	0.00						
	607	554	555	9.00	0.00	0.00	0.06
0.00	0.00						
	608	555	556	5.43	0.00	0.00	0.03
0.00	0.00						
	609	556	557	4.43	0.00	0.00	0.05
0.00	0.00						
	610	557	558	2.00	0.00	0.00	0.02
0.00	0.00						
	611	557	559	2.43	0.00	0.00	0.03
0.00	0.00						
	612	559	560	0.43	0.00	0.00	0.00
0.00	0.00						
	613	560	555	-3.57	0.00	0.00	0.04
0.00	0.00						
	614	441	561	4.00	0.00	0.00	0.05
0.00	0.00						

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	615	561	562	4.00	0.00	0.00	0.05
0.00	0.00						
	616	574	238	-19.00	0.00	0.00	0.12
0.01	0.01						
	617	303	563	-48.11	0.16	0.00	0.55
0.31	0.31						
	618	564	39	-318.61	0.10	0.00	0.90
0.49	0.49						
	619	563	809	-44.12	0.02	0.00	0.28
0.07	0.07						
	620	566	355	48.93	0.24	0.00	0.56
0.32	0.32						
	621	535McConnell		1252.44	0.20	0.00	3.55
4.46	4.46						
	622	567	570	220.62	0.10	0.00	0.35
0.04	0.04						
	623	566	568	103.62	0.04	0.00	0.29
0.04	0.04						
	624	550	534	390.43	0.05	0.00	0.40
0.04	0.04						
	625	570	566	164.55	0.16	0.00	0.47
0.10	0.10						
	626	568	477	103.62	0.05	0.00	0.29
0.04	0.04						
	627	477	569	0.00	0.00	0.00	0.00
0.00	0.00						
	628	570	346	32.37	0.00	0.00	0.09
0.01	0.01						
	629	RobRoy	571	-1023.21	0.02	0.00	1.04
0.26	0.26						
	630	533	535	2352.01	10.27	0.00	6.67
19.02	19.02						
	631	572	524	-524.73	0.54	0.00	1.49
0.89	0.89						
	632	571	550	-1131.07	0.17	0.00	1.16
0.31	0.31						
	633	571	572	78.87	0.00	0.00	0.22
0.03	0.03						
	634	287	580	28.00	0.15	0.00	0.32
0.16	0.16						
	635	287	581	-141.80	3.50	0.00	1.61
3.18	3.18						
	636	581	582	-153.80	1.48	0.00	1.75
3.69	3.69						
	637	583	582	157.80	5.62	0.00	1.79
3.87	3.87						
	638	35	583	162.80	3.08	0.00	1.85
4.10	4.10						
	641	511	1	3312.26	2.30	0.00	6.90
12.76	12.76						
	642	511	510	83.70	0.00	0.00	0.24
0.03	0.03						
	643	413	521	30.00	0.00	0.00	0.09
0.00	0.00						

0.17	644	515	516	-273.06	0.00	0.00	0.57
	0.17						
12.70	645	8	I-PUMP-3	1890.96	0.04	0.00	5.36
	12.70						
12.70	646	429	I-PUMP-4	1890.90	0.04	0.00	5.36
	12.70						
8.35	647	514	429	1507.35	0.04	0.00	4.28
	8.35						
0.00	648	514	I-PUMP-8	0.00	0.00	0.00	0.00
	0.00						
0.00	649	262	519	3.00	0.00	0.00	0.03
	0.00						
0.35	650	428	531	272.23	0.05	0.00	0.77
	0.35						
0.01	651	262	517	7.00	0.00	0.00	0.08
	0.01						
0.00	652	517	520	4.00	0.00	0.00	0.00
	0.00						
0.00	653	517	518	2.00	0.00	0.00	0.02
	0.00						
0.00	654	519	505	1.00	0.00	0.00	0.01
	0.00						
0.00	655	520	512	2.00	0.00	0.00	0.02
	0.00						
0.00	656	521	262	30.00	0.00	0.00	0.09
	0.00						
24.82	657	528	105	-3163.25	0.55	0.00	8.97
	24.82						
1.30	658	551	524	643.31	0.54	0.00	1.82
	1.30						
4.96	659	532	McConnell	392.08	0.21	0.00	2.50
	4.96						
18.69	660	523	525	-2352.01	0.52	0.00	6.67
	18.69						
17.88	661	528	8	2274.50	0.38	0.00	6.45
	17.88						
4.69	662	523	533	2352.01	0.71	0.00	3.75
	4.69						
0.69	663	84	527	-395.98	0.07	0.00	1.12
	0.69						
8.35	664	526	514	1507.35	0.33	0.00	4.28
	8.35						
0.37	665	526	528	-328.07	0.01	0.00	0.93
	0.37						
0.59	666	532	535	420.31	0.02	0.00	1.19
	0.59						
6.39	667	535	526	1519.88	0.19	0.00	4.31
	6.39						
0.11	668	342	534	27.43	0.00	0.00	0.31
	0.11						
0.04	669	567	534	-386.23	0.00	0.00	0.39
	0.04						
0.70	670	536	I-PUMP-11	2857.73	0.01	0.00	2.03
	0.70						

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	671	537	536	2857.73	0.00	0.00	1.30
0.24	0.24						
	672	537	I-PUMP-10	2857.74	0.01	0.00	2.03
0.70	0.70						
	673	538	537	5715.48	0.01	0.00	2.59
0.86	0.86						
	674	538	I-PUMP-2	1129.17	0.06	0.00	3.20
3.68	3.68						
	675	402	I-PUMP-1	0.00	0.00	0.00	0.00
0.00	0.00						
	676-CV	O-PUMP-7	540	0.00	0.00	0.00	0.00
0.00	0.00						
	677-CV	O-PUMP-11	539	2857.73	0.04	0.00	3.60
2.85	2.85						
	678-CV	O-PUMP-10	541	2857.74	0.04	0.00	3.60
2.85	2.85						
	679-CV	O-PUMP-2	542	1129.17	0.06	0.00	3.20
3.68	3.68						
	680	540	86	3448.69	0.61	0.00	4.35
4.04	4.04						
	681	540	539	-3448.69	0.04	0.00	4.35
4.04	4.04						
	682	48	511	3395.96	0.63	0.00	4.28
3.93	3.93						
	683	541	539	590.96	0.00	0.00	0.75
0.15	0.15						
	684	541	542	2266.79	0.02	0.00	2.86
1.86	1.86						
	685	542	48	3395.96	0.04	0.00	4.28
3.93	3.93						
	839	808	810	12.28	0.00	0.00	0.08
0.01	0.01						
	840	810	433	0.00	0.00	0.00	0.00
0.00	0.00						
	841	809	564	-50.12	0.03	0.00	0.32
0.08	0.08						
	898	218	443	-5.68	0.00	0.00	0.04
0.00	0.00						
	899	806	808	18.28	0.02	0.00	0.12
0.02	0.02						
	X-213-CV	O-PUMP-5	203	1.00	0.01	0.00	0.08
0.04	0.04						
	X-322-CV	O-PUMP-6	291	6.00	0.00	0.00	0.07
0.01	0.01						
	X-478-CV	O-PUMP-4	516	1890.90	0.09	0.00	7.72
30.86	30.86						
	X-489-CV	O-PUMP-1	48	0.00	0.00	0.00	0.00
0.00	0.00						
	X-649-CV	O-PUMP-8	513	0.00	0.00	0.00	0.00
0.00	0.00						
	X-8-CV	O-PUMP-3	515	1890.96	0.09	0.00	7.72
30.86	30.86						
	Z-469	411	I-RV-1	0.00	0.00	0.00	0.00
0.00	0.00						

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	Z-471	426	I-RV-D	13.03	0.00	0.00	0.00
0.00	0.00						
	Z-472	425	I-RV-E	13.85	0.00	0.00	0.00
0.00	0.00						
	Z-473	424	I-RV-A	20.82	0.00	0.00	0.00
0.00	0.00						
	Z-474	469	I-RV-C	24.42	0.00	0.00	0.00
0.00	0.00						
	Z-475	422	I-RV-B	0.00	0.00	0.00	0.00
0.00	0.00						
	Z-499	431	I-RV-G	0.00	0.00	0.00	0.00
0.00	0.00						
	Z-567	485	I-RV-H	34.87	0.00	0.00	0.00
0.00	0.00						

P U M P / L O S S E L E M E N T R E S U L T S

INCREMTL	TOTAL	#PUMPS	INLET #PUMPS	OUTLET NPSH	PUMP HEAD	EFFIC- ENCY	USEFUL POWER	COST
NAME	FLOWRATE	SERIES	HEAD	HEAD	HEAD			
COST	PARALLEL	Avail.						
	gpm	ft	ft	ft	ft	%	Hp	\$

Device "PUMP-1" is closed								
PUMP-1	0.00	89.87	352.64	0.0	75.00	0.	0.0	
0.0 **	** 123.1							
PUMP-10	2857.74	89.85	352.74	262.9	75.00	190.	0.0	
0.0 **	** 123.0							
PUMP-11	2857.73	89.85	352.73	262.9	75.00	190.	0.0	
0.0 **	** 123.0							
PUMP-2	1129.17	89.81	352.73	262.9	75.00	75.	0.0	
0.0 **	** 122.9							
PUMP-3	1890.96	28.61	288.10	259.5	75.00	124.	0.0	
0.0 **	** 61.4							
PUMP-4	1890.90	28.61	288.10	259.5	75.00	124.	0.0	
0.0 **	** 61.4							
PUMP-5	1.00	126.71	236.71	110.0	75.00	0.	0.0	
0.0 **	** 159.9							
PUMP-6	6.00	117.04	237.04	120.0	75.00	0.	0.0	
0.0 **	** 150.2							
Device "PUMP-7" is closed								
PUMP-7	0.00	89.86	352.65	0.0	75.00	0.	0.0	
0.0 **	** 123.1							
Device "PUMP-8" is closed								
PUMP-8	0.00	28.69	287.99	0.0	75.00	0.	0.0	
0.0 **	** 61.9							

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N O D E R E S U L T S

NODE	NODE	NODE	EXTERNAL	HYDRAULIC	NODE	PRESSURE
NAME	TITLE	DEMAND	GRADE	ELEVATION	HEAD	
psi		gpm	ft	ft	ft	

136.81	1	0.00	999.71	684.00	315.71	
144.15	2	1.00	982.66	650.00	332.66	
144.30	3	1.00	973.00	640.00	333.00	
120.31	4	2.00	957.63	680.00	277.63	
93.06	5	3.00	944.74	730.00	214.74	
65.29	6	4.00	880.68	730.00	150.68	
104.88	7	0.00	1072.03	830.00	242.03	
12.41	8	0.00	868.65	840.00	28.65	
124.78	9	0.00	1127.95	840.00	287.95	
94.03	10	0.00	1126.98	910.00	216.98	
68.89	11	2.00	1126.98	968.00	158.98	
93.89	12	4.00	1126.67	910.00	216.67	
124.22	13	6.00	1126.65	840.00	286.65	
94.61	14	1.00	1123.34	905.00	218.34	
130.73	15	93.00	1120.67	819.00	301.67	
141.22	16	1.00	1120.90	795.00	325.90	
121.70	17	3.00	1120.86	840.00	280.86	
121.70	18	2.00	1120.85	840.00	280.85	
119.10	19	1.00	1120.85	846.00	274.85	
142.07	20	3.00	1120.85	793.00	327.85	
145.54	21	1.00	1120.85	785.00	335.85	

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147.07	22	3.00	1119.40	780.00	339.40
132.76	23	6.00	1116.37	810.00	306.37
137.09	24	4.00	1116.37	800.00	316.37
102.23	25	4.00	988.91	753.00	235.91
101.80	26	1.00	989.92	755.00	234.92
109.36	27	2.00	962.38	710.00	252.38
106.79	28	3.00	991.44	745.00	246.44
102.68	29	1.00	991.95	755.00	236.95
99.21	30	8.00	991.94	763.00	228.94
98.27	31	49.00	991.78	765.00	226.78
98.15	32	1.00	991.50	765.00	226.50
98.26	33	90.00	991.75	765.00	226.75
166.54	34	12.00	1109.33	725.00	384.33
141.43	35	1.00	1106.39	780.00	326.39
122.14	36	1.00	1120.85	839.00	281.85
101.53	37	3.00	992.30	758.00	234.30
117.99	38	2.00	992.29	720.00	272.29
105.02	39	29.00	992.36	750.00	242.36
113.66	40	4.00	992.29	730.00	262.29
118.83	41	2.00	992.23	718.00	274.23
116.66	42	2.00	992.22	723.00	269.22
117.96	43	2.00	992.22	720.00	272.22
130.96	44	3.00	992.21	690.00	302.21
111.03	45	2.00	992.22	736.00	256.22
113.63	46	2.00	992.22	730.00	262.22
117.10	47	1.00	992.22	722.00	270.22
152.81	48	0.00	1002.64	650.00	352.64

	49	29.00	992.87	715.00	277.87
120.41					
	50	29.00	993.25	675.00	318.25
137.91					
	51	3.00	993.24	660.00	333.24
144.40					
	52	1.00	993.58	660.00	333.58
144.55					
	53	1.00	993.41	680.00	313.41
135.81					
	54	1.00	993.48	710.00	283.48
122.84					
	55	1.00	993.62	720.00	273.62
118.57					
	56	3.00	993.63	715.00	278.63
120.74					
	57	2.00	993.75	690.00	303.75
131.63					
	58	1.00	993.72	690.00	303.72
131.61					
	59	1.00	993.64	722.00	271.64
117.71					
	60	2.00	993.44	742.00	251.44
108.96					
	61	2.00	993.30	745.00	248.30
107.60					
	62	2.00	992.78	750.00	242.78
105.20					
	63	2.00	992.59	758.00	234.59
101.66					
	64	1.00	992.57	745.00	247.57
107.28					
	65	1.00	992.78	742.00	250.78
108.67					
	66	2.00	993.31	719.00	274.31
118.87					
	67	2.00	993.47	705.00	288.47
125.01					
	68	2.00	993.86	650.00	343.86
149.01					
	69	1.00	993.90	680.00	313.90
136.02					
	70	2.00	994.75	640.00	354.75
153.72					
	71	4.00	992.56	735.00	257.56
111.61					
	72	2.00	992.56	710.00	282.56
122.44					
	73	2.00	992.56	682.00	310.56
134.58					
	74	1.00	993.82	736.00	257.82
111.72					
	75	0.00	994.71	731.00	263.71
114.27					

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119.11	76	1.00	995.86	721.00	274.86
123.87	77	2.00	995.86	710.00	285.86
136.78	78	3.00	995.64	680.00	315.64
153.76	79	2.00	994.84	640.00	354.84
150.30	80	1.00	994.84	648.00	346.84
139.18	81	2.00	996.19	675.00	321.19
128.87	82	2.00	997.40	700.00	297.40
119.93	83	2.00	996.76	720.00	276.76
162.56	84	2.00	1125.15	750.00	375.15
173.40	85	1.00	1125.15	725.00	400.15
152.55	86	0.00	1002.04	650.00	352.04
121.24	87	2.00	1124.78	845.00	279.78
114.59	88	1.00	1124.45	860.00	264.45
155.73	89	2.00	1124.38	765.00	359.38
127.61	90	3.00	1124.48	830.00	294.48
140.57	91	1.00	1124.40	800.00	324.40
112.27	92	2.00	1124.08	865.00	259.08
96.37	93	4.00	1122.38	900.00	222.38
98.96	94	2.00	1122.38	894.00	228.38
94.70	95	2.00	1123.53	905.00	218.53
129.59	96	1.00	1124.04	825.00	299.04
96.95	97	1.00	1123.72	900.00	223.72
94.89	98	1.00	1123.97	905.00	218.97
188.00	99	3.00	1123.85	690.00	433.85
188.00	100	2.00	1123.85	690.00	433.85
198.82	101	3.00	1123.82	665.00	458.82
205.31	102	2.00	1123.80	650.00	473.80

183.62	103	2.00	1123.74	700.00	423.74
101.25	104	3.00	1123.66	890.00	233.66
12.81	105	0.00	869.57	840.00	29.57
102.09	106	2.00	1123.59	888.00	235.59
103.35	107	1.00	1123.49	885.00	238.49
114.18	108	0.00	1123.49	860.00	263.49
109.77	109	4.00	1123.32	870.00	253.32
166.10	110	3.00	1123.32	740.00	383.32
117.80	111	0.00	1071.85	800.00	271.85
91.00	112	3.00	989.99	780.00	209.99
90.99	113	2.00	989.99	780.00	209.99
90.99	114	3.00	989.98	780.00	209.98
90.99	115	2.00	989.98	780.00	209.98
134.32	116	2.00	989.97	680.00	309.97
147.32	117	3.00	989.97	650.00	339.97
156.00	118	2.00	989.99	630.00	359.99
149.47	119	2.00	989.92	645.00	344.92
108.30	120	2.00	989.92	740.00	249.92
110.46	121	1.00	989.92	735.00	254.92
103.96	122	1.00	989.92	750.00	239.92
103.96	123	2.00	989.92	750.00	239.92
97.46	124	1.00	989.91	765.00	224.91
108.30	125	2.00	989.91	740.00	249.91
81.00	126	1.00	989.91	803.00	186.91
106.14	127	2.00	989.94	745.00	244.94
95.32	128	0.00	989.97	770.00	219.97
69.33	129	2.00	990.00	830.00	160.00

P-TC01989

109.90	130	2.00	1123.60	870.00	253.60
77.98	131	1.00	989.96	810.00	179.96
108.32	132	1.00	989.96	740.00	249.96
99.64	133	1.00	989.95	760.00	229.95
99.64	134	1.00	989.95	760.00	229.95
116.97	135	2.00	989.93	720.00	269.93
142.97	136	2.00	989.93	660.00	329.93
108.29	137	2.00	989.90	740.00	249.90
132.31	138	1.00	1123.34	818.00	305.34
147.28	139	2.00	989.88	650.00	339.88
147.28	140	1.00	989.88	650.00	339.88
160.28	141	1.00	989.87	620.00	369.87
134.26	142	1.00	989.84	680.00	309.84
112.60	143	1.00	989.84	730.00	259.84
99.60	144	1.00	989.84	760.00	229.84
62.76	145	2.00	989.84	845.00	144.84
125.61	146	3.00	989.88	700.00	289.88
114.78	147	4.00	989.88	725.00	264.88
71.45	148	2.00	989.88	825.00	164.88
64.95	149	1.00	989.88	840.00	149.88
86.61	150	3.00	989.88	790.00	199.88
90.95	151	1.00	989.88	780.00	209.88
103.96	152	1.00	989.90	750.00	239.90
112.62	153	1.00	989.90	730.00	259.90
136.46	154	1.00	989.90	675.00	314.90
168.96	155	2.00	989.91	600.00	389.91
160.29	156	2.00	989.90	620.00	369.90

	157	1.00	989.89	600.00	389.89
168.95	158	2.00	989.90	635.00	354.90
153.79	159	3.00	989.68	635.00	354.68
153.69	160	3.00	989.90	745.00	244.90
106.12	161	2.00	989.90	722.00	267.90
116.09	162	1.00	989.90	660.00	329.90
142.96	163	1.00	989.90	670.00	319.90
138.62	164	2.00	989.91	750.00	239.91
103.96	165	1.00	989.93	770.00	219.93
95.30	166	0.00	1092.64	785.00	307.64
133.31	167	2.00	989.95	825.00	164.95
71.48	168	2.00	1123.36	905.00	218.36
94.62	169	3.00	1123.67	910.00	213.67
92.59	170	1.00	1123.62	870.00	253.62
109.90	171	2.00	1123.62	905.00	218.62
94.74	172	4.00	1123.57	780.00	343.57
148.88	173	4.00	1123.55	890.00	233.55
101.20	174	4.00	1123.55	890.00	233.55
101.20	175	2.00	915.43	700.00	215.43
93.35	176	2.00	947.31	700.00	247.31
107.17	177	2.00	944.74	680.00	264.74
114.72	178	3.00	964.17	750.00	214.17
92.81	179	2.00	951.11	660.00	291.11
126.15	180	1.00	977.83	730.00	247.83
107.39	181	1.00	978.16	730.00	248.16
107.53	182	1.00	978.32	730.00	248.32
107.60	183	2.00	981.21	685.00	296.21
128.36					

P-TC01991

156.16	184	2.00	980.38	620.00	360.38
186.41	185	2.00	980.17	550.00	430.17
158.35	186	4.00	979.43	614.00	365.43
109.95	187	3.00	978.73	725.00	253.73
160.08	188	1.00	979.42	610.00	369.42
155.71	189	2.00	979.34	620.00	359.34
147.08	190	1.00	979.42	640.00	339.42
186.08	191	2.00	979.42	550.00	429.42
160.08	192	2.00	979.42	610.00	369.42
119.67	193	88.00	1106.16	830.00	276.16
107.41	194	11.00	1097.88	850.00	247.88
85.48	195	4.00	1115.25	918.00	197.25
103.54	196	2.00	1116.94	878.00	238.94
118.63	197	1.00	1118.77	845.00	273.77
125.13	198	2.00	1118.77	830.00	288.77
148.43	199	1.00	1122.54	780.00	342.54
136.79	200	0.00	1120.67	805.00	315.67
130.29	201	1.00	1120.67	820.00	300.67
80.91	202	3.00	1116.72	930.00	186.72
96.07	203	1.00	1226.71	1005.00	221.71
83.68	204	2.00	1118.12	925.00	193.12
93.52	205	2.00	1120.82	905.00	215.82
133.51	206	5.00	1118.11	810.00	308.11
86.46	207	2.00	1121.53	922.00	199.53
104.66	208	2.00	1121.53	880.00	241.53
103.79	209	3.00	1121.53	882.00	239.53
91.70	210	50.00	1091.61	880.00	211.61

	211	1.00	1091.61	890.00	201.61
87.36	212	3.00	1084.21	908.00	176.21
76.36	213	31.00	1083.73	909.00	174.73
75.72	214	0.00	1083.73	909.00	174.73
75.72	215	10.00	1084.58	945.00	139.58
60.49	216	3.00	1080.83	953.00	127.83
55.39	217	0.00	1071.88	800.00	271.88
117.81	218	11.00	1071.90	810.00	261.90
113.49	219	3.00	1079.06	970.00	109.06
47.26	220	14.00	1071.82	866.00	205.82
89.19	221	1.00	1080.19	960.00	120.19
52.08	222	0.00	1080.38	960.00	120.38
52.17	223	1.00	1080.38	880.00	200.38
86.83	224	1.00	1080.47	960.00	120.47
52.20	225	1.00	1080.47	960.00	120.47
52.20	226	1.00	1080.47	900.00	180.47
78.20	227	1.00	1080.47	890.00	190.47
82.54	228	2.00	1080.46	900.00	180.46
78.20	229	1.00	1080.46	830.00	250.46
108.53	230	2.00	1080.46	850.00	230.46
99.87	231	1.00	1081.74	860.00	221.74
96.09	232	1.00	1081.74	960.00	121.74
52.75	233	1.00	1083.59	920.00	163.59
70.89	234	1.00	1083.59	950.00	133.59
57.89	235	1.00	1085.30	950.00	135.30
58.63	236	7.00	1086.32	925.00	161.32
69.91	237	7.00	1081.08	947.00	134.08
58.10					

P-TC01993

53.99	238	30.00	1074.60	950.00	124.60
53.34	239	5.00	1073.09	950.00	123.09
88.01	240	1.00	1073.09	870.00	203.09
66.34	241	0.00	1073.09	920.00	153.09
112.40	242	1.00	1104.39	845.00	259.39
109.41	243	2.00	1102.47	850.00	252.47
95.43	244	4.00	1100.23	880.00	220.23
84.60	245	2.00	1100.23	905.00	195.23
97.60	246	4.00	1100.23	875.00	225.23
99.76	247	2.00	1100.23	870.00	230.23
	248	0.00	1072.03		
113.49	249	73.00	1071.91	810.00	261.91
144.55	250	1.00	993.58	660.00	333.58
88.25	251	1.00	1123.65	920.00	203.65
157.59	252	1.00	1123.67	760.00	363.67
127.27	253	2.00	1123.69	830.00	293.69
148.99	254	0.00	1123.83	780.00	343.83
214.02	255	0.00	1123.88	630.00	493.88
140.37	256	1.00	1123.92	800.00	323.92
160.01	257	1.00	1124.25	755.00	369.25
144.40	258	0.00	993.24	660.00	333.24
126.53	259	30.00	1112.00	820.00	292.00
102.04	260	0.00	1123.48	888.00	235.48
104.87	261	0.00	1072.00	830.00	242.00
154.73	262	20.00	995.07	638.00	357.07
48.06	263	0.00	1072.90	962.00	110.90
116.87	264	0.00	994.71	725.00	269.71

P-TC01994

102.07	265	0.00	950.55	715.00	235.55
137.91	266	0.00	993.25	675.00	318.25
65.00	267	2.00	990.00	840.00	150.00
122.75	268	2.00	1123.27	840.00	283.27
54.91	269	0.00	1116.72	990.00	126.72
108.08	270	0.00	979.42	730.00	249.42
56.17	271	0.00	1077.62	948.00	129.62
57.00	272	0.00	1076.54	945.00	131.54
72.05	273	1.00	1076.26	910.00	166.26
80.71	274	1.00	1076.26	890.00	186.26
65.55	275	2.00	1076.26	925.00	151.26
69.55	276	2.00	1075.49	915.00	160.49
84.71	277	1.00	1075.49	880.00	195.49
73.85	278	0.00	915.43	745.00	170.43
73.85	279	0.00	915.43	745.00	170.43
72.55	280	0.00	915.43	748.00	167.43
53.13	281	0.00	1074.60	952.00	122.60
53.13	282	0.00	1074.60	952.00	122.60
109.89	283	5.00	1074.58	821.00	253.58
84.99	284	2.00	1096.14	900.00	196.14
106.11	285	2.00	1094.88	850.00	244.88
100.48	286	2.00	1094.88	863.00	231.88
87.85	287	2.00	1092.72	890.00	202.72
93.85	288	0.00	1074.58	858.00	216.58
63.52	289	1.00	1074.59	928.00	146.59
113.79	290	5.00	1074.58	812.00	262.58
73.25	291	2.00	1192.04	1023.00	169.04

P-TC01995

71.08	292	2.00	1192.04	1028.00	164.04
81.05	293	2.00	1192.04	1005.00	187.04
53.13	294	0.00	1074.60	952.00	122.60
99.06	295	2.00	1074.59	846.00	228.59
97.06	296	3.00	1123.98	900.00	223.98
103.46	297	1.00	1123.76	885.00	238.76
55.72	298	2.00	1074.60	946.00	128.60
54.86	299	0.00	1074.60	948.00	126.60
53.99	300	0.00	1074.60	950.00	124.60
158.93	301	0.00	1116.76	750.00	366.76
157.78	302	0.00	1114.11	750.00	364.11
98.39	303	15.00	992.05	765.00	227.05
113.63	304	0.00	992.21	730.00	262.21
105.56	305	0.00	1123.61	880.00	243.61
47.67	306	1.00	990.01	880.00	110.01
53.56	307	1.00	1074.60	951.00	123.60
53.99	308	0.00	1074.60	950.00	124.60
75.65	309	1.00	1074.59	900.00	174.59
112.60	310	0.00	989.85	730.00	259.85
106.10	311	0.00	989.85	745.00	244.85
95.27	312	0.00	989.85	770.00	219.85
138.61	313	0.00	989.86	670.00	319.86
129.94	314	0.00	989.86	690.00	299.86
89.50	315	0.00	1093.54	887.00	206.54
90.03	316	8.00	1093.27	885.50	207.77
81.44	317	0.00	1093.45	905.50	187.95
79.65	318	8.00	1093.31	909.50	183.81

	319	8.00	1093.37	917.50	175.87
76.21					
	320	7.00	1093.48	895.50	197.98
85.79					
	321	10.00	1093.41	910.50	182.91
79.26					
	322	8.00	1093.33	914.00	179.33
77.71					
	323	10.00	1093.22	876.00	217.22
94.13					
	324	10.00	1093.28	880.00	213.28
92.42					
	325	20.00	1093.55	882.50	211.05
91.46					
	326	0.00	1089.22	910.00	179.22
77.66					
	327	0.00	1090.86	891.00	199.86
86.60					
	328	0.00	1087.03	942.00	145.03
62.85					
	329	1.00	1087.03	942.00	145.03
62.85					
	330	1.00	989.83	698.00	291.83
126.46					
	331	2.00	989.82	673.00	316.82
137.29					
	332	1.00	989.82	729.00	260.82
113.02					
	333	1.00	989.82	650.00	339.82
147.26					
	334	1.00	989.82	692.00	297.82
129.06					
	335	1.00	989.84	778.00	211.84
91.80					
	336	0.00	1093.81	870.00	223.81
96.98					
	337	0.00	1093.33	880.00	213.33
92.44					
	338	0.00	1093.12	876.00	217.12
94.09					
	339	0.00	1092.69	870.00	222.69
96.50					
	340	3.00	1072.32	950.00	122.32
53.01					
	341	4.00	1072.32	950.00	122.32
53.01					
	342	6.00	1072.15	890.00	182.15
78.93					
	343	9.00	1072.08	860.00	212.08
91.90					
	344	5.00	1072.06	830.00	242.06
104.89					
	345	4.00	1071.91	950.00	121.91
52.83					

P-TC01997

50.72	346	10.00	1072.05	955.00	117.05
52.85	347	12.00	1071.96	950.00	121.96
52.85	348	6.00	1071.96	950.00	121.96
61.52	349	4.00	1071.96	930.00	141.96
91.89	350	10.00	1072.05	860.00	212.05
70.24	351	6.00	1072.08	910.00	162.08
70.23	352	10.00	1072.07	910.00	162.07
57.13	353	6.00	1071.83	940.00	131.83
57.10	354	6.00	1071.77	940.00	131.77
58.78	355	8.00	1071.64	936.00	135.64
87.37	356	10.00	1071.63	870.00	201.63
57.14	357	6.00	1071.86	940.00	131.86
124.30	358	6.00	1071.85	785.00	286.85
76.43	359	15.00	1071.37	895.00	176.37
119.75	360	9.00	1071.35	795.00	276.35
80.68	361	10.00	1071.18	885.00	186.18
102.30	362	14.00	1071.07	835.00	236.07
100.13	363	4.00	1071.07	840.00	231.07
118.74	364	20.00	1071.01	797.00	274.01
123.90	365	40.00	1070.93	785.00	285.93
117.44	366	8.00	1071.02	800.00	271.02
123.94	367	3.00	1071.02	785.00	286.02
110.97	368	7.00	1071.09	815.00	256.09
87.14	369	6.00	1071.09	870.00	201.09
111.01	370	5.00	1071.18	815.00	256.18
104.55	371	10.00	1071.26	830.00	241.26
118.80	372	16.00	1071.17	797.00	274.17

P-TC01998

	373	12.00	1071.16	785.00	286.16
124.00	374	34.00	1089.91	895.00	194.91
84.46	375	0.00	1092.54	870.00	222.54
96.44	376	0.00	1094.74	905.00	189.74
82.22	377	34.00	1089.90	881.00	208.90
90.52	378	0.00	1095.43	865.00	230.43
99.85	379	1.00	1095.43	865.00	230.43
99.85	380	0.00	1094.25	870.00	224.25
97.17	381	0.00	1097.67	845.00	252.67
109.49	382	0.00	1097.84	850.00	247.84
107.40	383	0.00	1097.89	850.00	247.89
107.42	384	0.00	1097.84	850.00	247.84
107.40	385	0.00	1097.75	850.00	247.75
107.36	386	0.00	1096.45	859.00	237.45
102.90	387	1.00	1096.80	843.00	253.80
109.98	388	1.00	1096.60	850.00	246.60
106.86	389	1.00	969.27	720.00	249.27
108.02	390	4.00	1092.63	748.00	344.63
149.34	391	1.00	1106.39	785.00	321.39
139.27	392	4.00	1092.62	770.00	322.62
139.80	393	104.00	1092.48	773.00	319.48
138.44	394	1.00	969.27	732.00	237.27
102.82	395	0.00	1120.85	822.00	298.85
129.50	396	0.00	969.27	733.00	236.27
102.38	397	1.00	1120.85	809.00	311.85
135.14	398	1.00	1120.85	820.00	300.85
130.37	399	0.00	993.08	740.00	253.08
109.67					

P-TC01999

87.49	400	20.00	1111.91	910.00	201.91
157.85	401	4.00	994.28	630.00	364.28
38.94	402	0.00	739.87	650.00	89.87
132.97	403	1.00	1120.85	814.00	306.85
57.23	404	5.00	1081.07	949.00	132.07
99.63	405	0.00	989.91	760.00	229.91
108.30	406	1.00	989.93	740.00	249.93
115.09	407	1.00	995.59	730.00	265.59
117.26	408	1.00	995.59	725.00	270.59
99.63	409	1.00	989.91	760.00	229.91
131.63	410	0.00	993.75	690.00	303.75
134.70	411	0.00	1120.85	810.00	310.85
147.30	412	1.00	989.93	650.00	339.93
153.87	413	0.00	995.08	640.00	355.08
166.87	414	1.00	995.08	610.00	385.08
	415	1.00	994.75		
	416	0.00	994.28		
	417	0.00	994.90		
	418	1.00	994.90		
	419	0.00	994.60		
	420	1.00	994.59		
	421	0.00	994.33		
150.74	422	0.00	1120.85	773.00	347.85
	423	1.00	994.33		
122.75	424	0.00	1123.27	840.00	283.27
209.64	425	0.00	1123.79	640.00	483.79
105.56	426	0.00	1123.61	880.00	243.61
143.90	427	0.00	1120.08	788.00	332.08
124.20	428	0.00	1126.62	840.00	286.62
12.41	429	0.00	868.64	840.00	28.64
82.33	430	0.00	880.00	690.00	190.00

P-TC02000

	431	0.00	1120.90	775.00	345.90
149.89					
	432	0.00	991.75	775.00	216.75
93.92					
	433	0.00	991.76	760.00	231.76
100.43					
	434	14.00	1107.70	780.00	327.70
142.00					
	435	28.00	1107.67	860.00	247.67
107.32					
	436	4.00	950.09	750.00	200.09
86.71					
	437	0.00	1123.78	660.00	463.78
200.97					
	438	2.00	1123.78	770.00	353.78
153.31					
	439	5.00	1123.35	770.00	353.35
153.12					
	440	0.00	1117.32	920.00	197.32
85.50					
	441	5.00	1117.28	900.00	217.28
94.16					
	442	3.00	1071.93	920.00	151.93
65.83					
	443	2.00	1071.90	920.00	151.90
65.82					
	444	0.00	1071.89	920.00	151.89
65.82					
	445	18.00	1071.89	920.00	151.89
65.82					
	446	0.00	1071.89	920.00	151.89
65.82					
	447	2.00	978.73	740.00	238.73
103.45					
	448	19.00	1071.89	860.00	211.89
91.82					
	449	0.00	994.06		
	450	0.00	1089.22	935.00	154.22
66.83					
	451	0.00	1088.22	900.00	188.22
81.56					
	452	3.00	1088.26	910.00	178.26
77.24					
	453	1.00	993.66	660.00	333.66
144.59					
	454	2.00	993.89	660.00	333.89
144.69					
	455	2.00	993.89	630.00	363.89
157.68					
	456	2.00	994.42	655.00	339.42
147.08					
	457	0.00	994.42	660.00	334.42
144.92					

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144.92	458	1.00	994.42	660.00	334.42
131.92	459	1.00	994.42	690.00	304.42
158.20	460	3.00	995.08	630.00	365.08
151.70	461	15.00	995.08	645.00	350.08
133.31	462	0.00	997.65	690.00	307.65
	463	1.00	994.06		
	464	0.00	993.62		
	465	0.00	993.62		
126.98	466	0.00	993.03	700.00	293.03
	467	1.00	993.03		
	468	0.00	993.25		
109.72	469	0.00	1123.21	870.00	253.21
148.98	470	0.00	993.79	650.00	343.79
148.98	471	1.00	993.79	650.00	343.79
148.92	472	1.00	993.66	650.00	343.66
148.92	473	0.00	993.66	650.00	343.66
148.92	474	1.00	993.66	650.00	343.66
148.92	475	0.00	993.66	650.00	343.66
148.92	476	1.00	993.66	650.00	343.66
54.51	477	14.00	1071.79	946.00	125.79
56.24	478	8.00	1071.80	942.00	129.80
56.85	479	19.00	1071.20	940.00	131.20
56.85	480	8.00	1071.20	940.00	131.20
101.25	481	0.00	1123.66	890.00	233.66
109.90	482	0.00	1123.61	870.00	253.61
101.68	483	0.00	1123.64	889.00	234.64
109.90	484	0.00	1123.61	870.00	253.61
109.90	485	0.00	1123.61	870.00	253.61
52.00	486	0.00	990.00	870.00	120.00

	487	0.00	990.00	816.00	174.00
75.40					
	488	2.00	1095.09	904.00	191.09
82.81					
	489	0.00	1092.64	785.00	307.64
133.31					
	490	0.00	989.90	662.00	327.90
142.09					
	491	3.00	989.90	670.00	319.90
138.62					
	492	1.00	993.24		
	493	1.00	993.66	650.00	343.66
148.92					
	494	0.00	1072.31	950.00	122.31
53.00					
	495	0.00	1074.60		
	496	1.00	1072.31	910.00	162.31
70.33					
	497	0.00	1092.63	748.00	344.63
149.34					
	498	1.00	1074.60	940.00	134.60
58.33					
	499	0.00	1116.41	726.00	390.41
169.18					
	500	0.00	1114.43	722.00	392.43
170.05					
	501	0.00	1114.43	760.00	354.43
153.59					
	502	0.00	995.48	610.00	385.48
167.04					
	503	2.00	1123.55	886.00	237.55
102.94					
	504	0.00	1120.99	819.00	301.99
130.86					
	505	1.00	995.07	594.00	401.07
173.80					
	508	0.00	1001.57	684.00	317.57
137.62					
	509	0.00	739.87	650.00	89.87
38.94					
	510	0.00	1002.00	650.00	352.00
152.54					
	511	0.00	1002.01	650.00	352.01
152.54					
	512	2.00	995.07	647.00	348.07
150.83					
	513	0.00	1127.99	840.00	287.99
124.79					
	514	0.00	868.69	840.00	28.69
12.43					
	515	0.00	1128.01	840.00	288.01
124.80					
	516	0.00	1128.01	840.00	288.01
124.80					

154.95	517	1.00	995.07	637.50	357.57
154.30	518	2.00	995.07	639.00	356.07
162.53	519	2.00	995.07	620.00	375.07
154.21	520	2.00	995.07	639.20	355.87
193.73	521	0.00	995.07	548.00	447.07
13.25	522	0.00	870.59	840.00	30.59
65.08	523	0.00	880.18	730.00	150.18
48.78	524	0.00	1072.56	960.00	112.56
65.30	525	0.00	880.70	730.00	150.70
12.57	526	0.00	869.01	840.00	29.01
166.93	527	0.00	1125.22	740.00	385.22
12.58	528	0.00	869.02	840.00	29.02
171.40	529	0.00	1125.54	730.00	395.54
38.94	530	0.00	739.86	650.00	89.86
124.18	531	0.00	1126.57	840.00	286.57
12.66	532	0.00	869.21	840.00	29.21
64.77	533	0.00	879.47	730.00	149.47
78.93	534	0.00	1072.14	890.00	182.14
12.65	535	0.00	869.20	840.00	29.20
38.94	536	0.00	739.86	650.00	89.86
38.94	537	0.00	739.86	650.00	89.86
38.94	538	0.00	739.87	650.00	89.87
152.83	539	0.00	1002.69	650.00	352.69
152.82	540	0.00	1002.65	650.00	352.65
152.83	541	0.00	1002.69	650.00	352.69
152.83	542	0.00	1002.67	650.00	352.67
48.62	550	0.00	1072.19	960.00	112.19

	551	0.00	1073.10	962.00	111.10
48.14	552	0.00	1074.60	962.00	112.60
48.79	553	0.00	995.08	700.00	295.08
127.87	554	1.00	993.89	616.00	377.89
163.75	555	0.00	993.88	646.00	347.88
150.75	556	1.00	993.88	539.00	454.88
197.12	557	0.00	993.88	643.00	350.88
152.05	558	2.00	993.88	654.00	339.88
147.28	559	2.00	993.88	646.00	347.88
150.75	560	4.00	993.88	676.00	317.88
137.75	561	0.00	1117.28	900.00	217.28
94.15	562	4.00	1117.28	864.00	253.28
109.75	563	1.00	992.21	760.00	232.21
100.62	564	0.00	992.26	755.00	237.26
102.81	566	0.00	1071.88	960.00	111.88
48.48	567	3.00	1072.14	890.00	182.14
78.93	568	0.00	1071.84	936.00	135.84
58.86	569	0.00	1071.79	946.00	125.79
54.51	570	0.00	1072.05	955.00	117.05
50.72	571	29.00	1072.02	1025.00	47.02
20.38	572	0.00	1072.02	1025.00	47.02
20.38	573	1.00	1074.60	962.00	112.60
48.79	574	0.00	1074.60	952.00	122.60
53.13	575	0.00	1073.65	950.00	123.65
53.58	577	0.00	1077.88	940.00	137.88
59.75	580	28.00	1092.57	825.00	267.57
115.95	581	12.00	1096.22	850.00	246.22
106.69					

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117.73	582	4.00	1097.69	826.00	271.69
138.80	583	5.00	1103.31	783.00	320.31
99.14	806	16.00	991.78	763.00	228.78
108.66	807	0.00	991.76	741.00	250.76
107.36	808	6.00	991.76	744.00	247.76
104.97	809	6.00	992.23	750.00	242.23
121.66	810	6.00	991.76	711.00	280.76
39.00	FGN-AA	----	740.00	650.00	90.00
82.33	FGN-II	----	880.00	690.00	190.00
12.57	McConnell	----	869.00	840.00	29.00
38.94	I-PUMP-1	0.00	739.87	650.00	89.87
38.93	I-PUMP-10	0.00	739.85	650.00	89.85
38.93	I-PUMP-11	0.00	739.85	650.00	89.85
38.92	I-PUMP-2	0.00	739.81	650.00	89.81
12.40	I-PUMP-3	0.00	868.61	840.00	28.61
12.40	I-PUMP-4	0.00	868.61	840.00	28.61
54.91	I-PUMP-5	0.00	1116.71	990.00	126.71
102.72	O-PUMP-6	0.00	1192.04	955.00	237.04
38.94	I-PUMP-7	0.00	739.86	650.00	89.86
12.43	I-PUMP-8	0.00	868.69	840.00	28.69
32.93	Riske TK	----	1076.00	1000.00	76.00
20.37	RobRoy	----	1072.00	1025.00	47.00
34.00	O-RV-1	----	868.46	790.00	78.46
65.00	O-RV-A	----	990.00	840.00	150.00
46.37	O-RV-B	----	880.01	773.00	107.01
52.00	O-RV-C	----	990.00	870.00	120.00
47.67	O-RV-D	----	990.01	880.00	110.01

P-TC02006

O-RV-E	----	990.01	640.00	350.01
151.67				
O-RV-G	----	880.00	775.00	105.00
45.50				
O-RV-H	----	990.00	870.00	120.00
52.00				
I-RV-1	0.00	1120.85	790.00	330.85
143.37				
I-RV-A	0.00	1123.27	840.00	283.27
122.75				
I-RV-B	0.00	1120.85	773.00	347.85
150.74				
I-RV-C	0.00	1123.21	870.00	253.21
109.72				
I-RV-D	0.00	1123.61	880.00	243.61
105.56				
I-RV-E	0.00	1123.79	640.00	483.79
209.64				
I-RV-G	0.00	1120.90	775.00	345.90
149.89				
I-RV-H	0.00	1123.61	870.00	253.61
109.90				
I-PUMP-6	0.00	1072.04	955.00	117.04
50.72				
O-PUMP-7	0.00	1002.65	650.00	352.65
152.82				
O-PUMP-11	0.00	1002.73	650.00	352.73
152.85				
O-PUMP-10	0.00	1002.74	650.00	352.74
152.85				
O-PUMP-2	0.00	1002.73	650.00	352.73
152.85				
O-PUMP-5	0.00	1226.71	990.00	236.71
102.58				
O-PUMP-4	0.00	1128.10	840.00	288.10
124.84				
O-PUMP-1	0.00	1002.64	650.00	352.64
152.81				
O-PUMP-8	0.00	1127.99	840.00	287.99
124.79				
O-PUMP-3	0.00	1128.10	840.00	288.10
124.84				

M A X I M U M A N D M I N I M U M V A L U E S

P R E S S U R E S

JUNCTION NUMBER	MAXIMUM PRESSURES psi
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JUNCTION NUMBER	MINIMUM PRESSURES psi
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P-TC02007

255	214.02	I-PUMP-4	12.40
425	209.64	I-PUMP-3	12.40
I-RV-E	209.64	429	12.41
102	205.31	8	12.41
437	200.97	514	12.43
101	198.82	I-PUMP-8	12.43
556	197.12	McConnell Ta	12.57
521	193.73	526	12.57
99	188.00	528	12.58
100	188.00	535	12.65

REGULATING VALVE REPORT

VALVE LABEL	VALVE TYPE	VALVE SETTING psi or gpm	VALVE STATUS	UPSTREAM PRESSURE psi	DOWNSTREAM PRESSURE psi	THROUGH FLOW gpm
RV-1	PRV-1	34.00	ACTIVATED	143.37	34.00	0.00
RV-A	PRV-1	65.00	ACTIVATED	122.75	65.00	20.82
RV-B	PRV-1	46.37	ACTIVATED	150.74	46.37	0.00
RV-C	PRV-1	52.00	ACTIVATED	109.72	52.00	24.42
RV-D	PRV-1	47.67	ACTIVATED	105.56	47.67	13.03
RV-E	PRV-1	151.67	ACTIVATED	209.64	151.67	13.85
RV-G	PRV-1	45.50	ACTIVATED	149.89	45.50	0.00
RV-H	PRV-1	52.00	ACTIVATED	109.90	52.00	34.87

SUMMARY OF INFLOWS AND OUTFLOWS

(+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE gpm	NODE TITLE
FGN-AA	6844.65	
FGN-II	0.00	
McConnell T	-2545.80	
Riske TK	-489.04	
RobRoy	-1626.80	

NET SYSTEM INFLOW = 6844.65
 NET SYSTEM OUTFLOW = -4661.64
 NET SYSTEM DEMAND = 2183.00

TANK STATUS REPORT (time = 0.0000 hours)

P-TC02008

PROJECTED DEPTH ft	TANK NAME (*)	NET FLOW gpm	WATER ELEVATION ft	TANK DEPTH ft	TANK VOLUME gals	TANK VOLUME %	TANK STATUS
20.00	McConnell T(1)	2545.80	869.00	9.00	72393.	45.0	FILLING
29.21	Riske TK(1)	489.04	1076.00	26.00	137489.	86.7	FILLING
23.62	RobRoy(1)	1626.80	1072.00	22.00	766399.	73.3	FILLING

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

P-TC02009

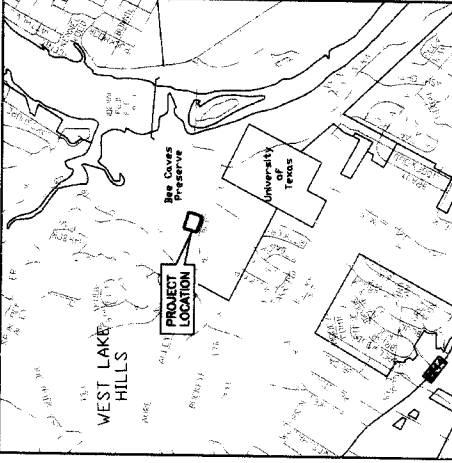
TRAVIS COUNTY WATER CONTROL & IMPROVEMENT DISTRICT NO. 10

PUMP STATION NO. 1 IMPROVEMENTS

BOARD OF DIRECTORS

PRESIDENT - CLIF W. DRUMMOND
 VICE-PRESIDENT - CHARLES L. BARKER
 SECRETARY-TREASURER - HARVEY L. FORD
 HOLLIS BOEHME
 JOHN L. STAHN
 MANAGER - PAUL S. WAKEFIELD

APPROVALS



Robert O. Walworth, P.E.
 CONSULTANT ENGINEER
 DATE 4/19/05

[Signature]
 W.C.I.D. NO. 10
 DATE 4.20.2005

Charles R. Hansen III
 CITY OF AUSTIN WATER & WASTEWATER DEPT.
 DATE 11/3/05

SITE ADDRESS: 3618 1/2 RED BUD TRAIL
 AUSTIN, TEXAS 78746
 LEGAL DESCRIPTION: WILKINSON SPARKS SURVEY NO. 4
 ABSTRACT NO. 21
 AUSTIN, TRAVIS COUNTY, TEXAS

DANNENBAUM ENGINEERING CORPORATION

3409 EXECUTIVE CENTER DRIVE, SUITE 129

AUSTIN, TEXAS 78731-1619

(512) 345-8505

APRIL, 2005

RECORD DRAWING

OWNER: W.C.I.D. NO. 10
 5450 BEE CAVES ROAD
 SUITE 201
 AUSTIN, TEXAS 78746

DATE	REVISION	MADE	CHKD	APPRD

DEC. JOB NO. 7008-21

SHEET NUMBER	DESCRIPTION	SHEET NUMBER	DESCRIPTION
1	INDEX SHEET	92	PUMP MOTOR "P-7" CONTROL SCHEMATIC (SHEET 4 OF 5)
2	GENERAL NOTES	93	CONTROL VALVE "CV-4" CONTROL SCHEMATIC (SHEET 5 OF 5)
3	EROSION CONTROL	94	CONTROL VALVE "CV-5" CONTROL SCHEMATIC
4	PUMP - PLAN AND SECTION	95	CONTROL VALVE "CV-6" CONTROL SCHEMATIC
5	COA - EROSION CONTROL DETAILS	96	FIELD CONTROL STATION FRONT ELEVATION AND DETAILS
6	MECHANICAL DETAILS	97	MAIN CONTROL PANEL "MCP-001" INTERIOR ELEVATION
7	ELECTRICAL BUILDING	98	MAIN CONTROL PANEL "MCP-001" NAMEPLATE SCHEDULE (SHEET 1 OF 3)
8	PAVING & STRUCTURAL DETAILS	99	MAIN CONTROL PANEL "MCP-001" NAMEPLATE SCHEDULE (SHEET 2 OF 3)
9	STRUCTURAL NOTES	100	MAIN CONTROL PANEL "MCP-001" NAMEPLATE SCHEDULE (SHEET 3 OF 3)
10	CONCRETE NOTES	101	INSTRUMENT POWER WIRING SCHEMATIC (SHEET 1 OF 5)
11	ELECTRICAL AND INSTRUMENTATION SYMBOLS LEGEND (SHEET 1 OF 3)	102	INSTRUMENT POWER WIRING SCHEMATIC (SHEET 2 OF 5)
12	ELECTRICAL AND INSTRUMENTATION SYMBOLS LEGEND (SHEET 2 OF 3)	103	INSTRUMENT POWER WIRING SCHEMATIC (SHEET 3 OF 5)
13	DETAILED 480V MOTOR CONTROL CENTER ONE-LINE DIAGRAM - EXISTING (SHEET 1 OF 2)	104	INSTRUMENT POWER WIRING SCHEMATIC (SHEET 4 OF 5)
14	DETAILED 480V MOTOR CONTROL CENTER ONE-LINE DIAGRAM - EXISTING (SHEET 2 OF 2)	105	INSTRUMENT POWER WIRING SCHEMATIC (SHEET 5 OF 5)
15	DETAILED 480V DISTRIBUTION SYSTEM ONE-LINE DIAGRAM - EXISTING (SHEET 1 OF 2)	106	PLC ARCHITECTURE
16	DETAILED 480V DISTRIBUTION SYSTEM ONE-LINE DIAGRAM - EXISTING (SHEET 2 OF 2)	107	PUMP STATION GENERAL PLC I/O WIRING SCHEMATIC (SHEET 1 OF 3)
17	OVERALL 480V ONE-LINE DIAGRAM AND "SWBD-001B" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	108	PUMP STATION GENERAL PLC I/O WIRING SCHEMATIC (SHEET 2 OF 3)
18	480V MOTOR CONTROL CENTER "MCC-001A" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	109	PUMP STATION GENERAL PLC I/O WIRING SCHEMATIC (SHEET 3 OF 3)
19	480V MOTOR CONTROL CENTER "MCC-001B" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	110	PUMPING UNIT "P-4" PLC I/O WIRING SCHEMATIC (SHEET 1 OF 4)
20	480V MOTOR CONTROL CENTER "MCC-001C" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	111	PUMPING UNIT "P-4" PLC I/O WIRING SCHEMATIC (SHEET 2 OF 4)
21	480V MOTOR CONTROL CENTER "MCC-001D" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	112	PUMPING UNIT "P-4" PLC I/O WIRING SCHEMATIC (SHEET 3 OF 4)
22	480V MOTOR CONTROL CENTER "MCC-001E" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	113	PUMPING UNIT "P-4" PLC I/O WIRING SCHEMATIC (SHEET 4 OF 4)
23	480V MOTOR CONTROL CENTER "MCC-001F" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	114	PUMPING UNIT "P-5" PLC I/O WIRING SCHEMATIC (SHEET 1 OF 4)
24	480V MOTOR CONTROL CENTER "MCC-001G" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	115	PUMPING UNIT "P-5" PLC I/O WIRING SCHEMATIC (SHEET 2 OF 4)
25	480V MOTOR CONTROL CENTER "MCC-001H" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	116	PUMPING UNIT "P-5" PLC I/O WIRING SCHEMATIC (SHEET 3 OF 4)
26	480V MOTOR CONTROL CENTER "MCC-001I" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	117	PUMPING UNIT "P-5" PLC I/O WIRING SCHEMATIC (SHEET 4 OF 4)
27	480V MOTOR CONTROL CENTER "MCC-001J" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	118	PUMPING UNIT "P-6" PLC I/O WIRING SCHEMATIC (SHEET 1 OF 4)
28	480V MOTOR CONTROL CENTER "MCC-001K" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	119	PUMPING UNIT "P-6" PLC I/O WIRING SCHEMATIC (SHEET 2 OF 4)
29	480V MOTOR CONTROL CENTER "MCC-001L" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	120	PUMPING UNIT "P-6" PLC I/O WIRING SCHEMATIC (SHEET 3 OF 4)
30	480V MOTOR CONTROL CENTER "MCC-001M" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	121	PUMPING UNIT "P-6" PLC I/O WIRING SCHEMATIC (SHEET 4 OF 4)
31	480V MOTOR CONTROL CENTER "MCC-001N" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	122	PUMPING UNIT "P-7" PLC I/O WIRING SCHEMATIC (SHEET 1 OF 4)
32	480V MOTOR CONTROL CENTER "MCC-001O" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	123	PUMPING UNIT "P-7" PLC I/O WIRING SCHEMATIC (SHEET 2 OF 4)
33	480V MOTOR CONTROL CENTER "MCC-001P" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	124	PUMPING UNIT "P-7" PLC I/O WIRING SCHEMATIC (SHEET 3 OF 4)
34	480V MOTOR CONTROL CENTER "MCC-001Q" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	125	PUMPING UNIT "P-7" PLC I/O WIRING SCHEMATIC (SHEET 4 OF 4)
35	480V MOTOR CONTROL CENTER "MCC-001R" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	126	480V SWITCHBOARD POWER MONITORING UNIT (PMU) WIRING SCHEMATIC
36	480V MOTOR CONTROL CENTER "MCC-001S" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	127	480V MOTOR CONTROL CENTER BUS POTENTIAL TRANSFORMER WIRING SCHEMATIC
37	480V MOTOR CONTROL CENTER "MCC-001T" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	128	PUMP MOTOR NO. 4 "P-4" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
38	480V MOTOR CONTROL CENTER "MCC-001U" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	129	PUMP MOTOR NO. 5 "P-5" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
39	480V MOTOR CONTROL CENTER "MCC-001V" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	130	PUMP MOTOR NO. 6 "P-6" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
40	480V MOTOR CONTROL CENTER "MCC-001W" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	131	PUMP MOTOR NO. 7 "P-7" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
41	480V MOTOR CONTROL CENTER "MCC-001X" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	132	PUMP MOTOR NO. 8 "P-8" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
42	480V MOTOR CONTROL CENTER "MCC-001Y" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	133	PUMP MOTOR NO. 9 "P-9" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
43	480V MOTOR CONTROL CENTER "MCC-001Z" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	134	PUMP MOTOR NO. 10 "P-10" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
44	480V MOTOR CONTROL CENTER "MCC-001A" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	135	PUMP MOTOR NO. 11 "P-11" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
45	480V MOTOR CONTROL CENTER "MCC-001B" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	136	PUMP MOTOR NO. 12 "P-12" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
46	480V MOTOR CONTROL CENTER "MCC-001C" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	137	PUMP MOTOR NO. 13 "P-13" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
47	480V MOTOR CONTROL CENTER "MCC-001D" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	138	PUMP MOTOR NO. 14 "P-14" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
48	480V MOTOR CONTROL CENTER "MCC-001E" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	139	PUMP MOTOR NO. 15 "P-15" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
49	480V MOTOR CONTROL CENTER "MCC-001F" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	140	PUMP MOTOR NO. 16 "P-16" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
50	480V MOTOR CONTROL CENTER "MCC-001G" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	141	PUMP MOTOR NO. 17 "P-17" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
51	480V MOTOR CONTROL CENTER "MCC-001H" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	142	PUMP MOTOR NO. 18 "P-18" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
52	480V MOTOR CONTROL CENTER "MCC-001I" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	143	PUMP MOTOR NO. 19 "P-19" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
53	480V MOTOR CONTROL CENTER "MCC-001J" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	144	PUMP MOTOR NO. 20 "P-20" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
54	480V MOTOR CONTROL CENTER "MCC-001K" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	145	PUMP MOTOR NO. 21 "P-21" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
55	480V MOTOR CONTROL CENTER "MCC-001L" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	146	PUMP MOTOR NO. 22 "P-22" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
56	480V MOTOR CONTROL CENTER "MCC-001M" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	147	PUMP MOTOR NO. 23 "P-23" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
57	480V MOTOR CONTROL CENTER "MCC-001N" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	148	PUMP MOTOR NO. 24 "P-24" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
58	480V MOTOR CONTROL CENTER "MCC-001O" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	149	PUMP MOTOR NO. 25 "P-25" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
59	480V MOTOR CONTROL CENTER "MCC-001P" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	150	PUMP MOTOR NO. 26 "P-26" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
60	480V MOTOR CONTROL CENTER "MCC-001Q" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	151	PUMP MOTOR NO. 27 "P-27" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
61	480V MOTOR CONTROL CENTER "MCC-001R" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	152	PUMP MOTOR NO. 28 "P-28" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
62	480V MOTOR CONTROL CENTER "MCC-001S" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	153	PUMP MOTOR NO. 29 "P-29" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
63	480V MOTOR CONTROL CENTER "MCC-001T" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	154	PUMP MOTOR NO. 30 "P-30" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
64	480V MOTOR CONTROL CENTER "MCC-001U" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	155	PUMP MOTOR NO. 31 "P-31" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
65	480V MOTOR CONTROL CENTER "MCC-001V" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	156	PUMP MOTOR NO. 32 "P-32" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
66	480V MOTOR CONTROL CENTER "MCC-001W" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	157	PUMP MOTOR NO. 33 "P-33" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
67	480V MOTOR CONTROL CENTER "MCC-001X" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	158	PUMP MOTOR NO. 34 "P-34" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
68	480V MOTOR CONTROL CENTER "MCC-001Y" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	159	PUMP MOTOR NO. 35 "P-35" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
69	480V MOTOR CONTROL CENTER "MCC-001Z" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	160	PUMP MOTOR NO. 36 "P-36" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
70	480V MOTOR CONTROL CENTER "MCC-001A" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	161	PUMP MOTOR NO. 37 "P-37" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
71	480V MOTOR CONTROL CENTER "MCC-001B" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)	162	PUMP MOTOR NO. 38 "P-38" MOTOR MANAGEMENT RELAY INSTRUMENT WIRING SCHEMATIC
72	480V MOTOR CONTROL CENTER "MCC-001C" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)		
73	480V MOTOR CONTROL CENTER "MCC-001D" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)		
74	480V MOTOR CONTROL CENTER "MCC-001E" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)		
75	480V MOTOR CONTROL CENTER "MCC-001F" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)		
76	480V MOTOR CONTROL CENTER "MCC-001G" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)		
77	480V MOTOR CONTROL CENTER "MCC-001H" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)		
78	480V MOTOR CONTROL CENTER "MCC-001I" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)		
79	480V MOTOR CONTROL CENTER "MCC-001J" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)		
80	480V MOTOR CONTROL CENTER "MCC-001K" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)		
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87	480V MOTOR CONTROL CENTER "MCC-001R" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)		
88	480V MOTOR CONTROL CENTER "MCC-001S" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)		
89	480V MOTOR CONTROL CENTER "MCC-001T" DETAILED ONE-LINE DIAGRAM (SHEET 1 OF 2)		
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RECORD DRAWING

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