

Baseline Emissions

Nixon Unit 1	2006 (tons/yr)	Average 2006 - 2008			(lb/MMBtu)	Uncontrolled	
		2007	2008	Average		(tons/year)	(lb/MMBtu)
NOx	2390.1	2137.0	2542.9	2356.7	0.258	n/a	n/a
	0.259	0.256	0.259	0.26			
SO2	3878	4043	4443	4121.4	0.453	n/a	n/a
PM	89	82	89	86.8	0.002	17365.3	1.915 from APENs
PM10	89	82	89	86.8	0.002	17354.0	1.914 from APENs
FRPP Turbine 1							
NOx	153.0	176	150	159.6	0.041	1499.1	0.320
SO2	3	3	2	2.9	0.001	15.9	0.003
PM	5	5.8	4.3	4.9	0.001	30.9	0.007 from APENs
PM10	4.5	5.8	4.3	4.9	0.001	8.9	0.002 from APENs
FRPP Turbine 2							
NOx	124.2	139.4	180.1	147.9	0.009	1499.1	0.320
SO2	2.7	3.1	2.6	2.8	0.001	15.9	0.003
PM	4.7	5.4	4.6	4.9	0.018	30.9	0.007 from APENs
PM10	4.7	5.4	4.6	4.9	0.018	8.9	0.002 from APENs

Used data from CAMD query for Unit 1; APCD APEN data for FRPP turbines

Heat Input (MMBtu/year)	2006	2007	2008 Average	
Nixon Unit 1	18290067.33	16577021.97	19547111.54	18138066.94
FRPP Turbine 1	8686949.482	11157540.68	8263606.405	9369365.523
FRPP Turbine 2	532175.945	615321.66	521385.043	556294.216

Nixon Unit 1				
Uncontrolled AP-42 Emission Factors	NOx (lb/ton)	SO2 (lb/ton)	PM (lb/ton)	PM10 (lb/ton)
	7.2	7.70	49.90	11.48
convert to lb/MMBtu	0.411	0.440	2.851	0.656
Controlled (%)	37.3%	n/a	99.9%	99.7%

divide by 26 lb/MMBtu as directed in AP-42

FRPP Turbine 1				
Uncontrolled AP-42 Emission Factors	NOx	SO2	PM	PM10
lb/MMBtu	0.320	0.003	0.007	0.002
Controlled (%)	89.4%	82.6%	85.3%	45.1%

Table 3.1.1 in AP-42

FRPP Turbine 2				
Uncontrolled AP-42 Emission Factors	NOx	SO2	PM	PM10
lb/MMBtu	0.320	0.003	0.007	0.002
Controlled (%)	90.1%	82.6%	n/a	n/a

Table 3.1.1 in AP-42

Hypothesis: Apply SCR to FRPP turbines

Control efficiency	90%
Turbine 1 NOx resultant emissions	16.0
Additional Annual NOx reduction	143.6
Turbine 2 NOx resultant emissions	14.8
Additional Annual NOx reduction	133.1
TOTAL NOX reductions	276.7

Unit 1	2006			2007			2008			Average			
	Fuel Heating Value	% Sulfur	% Ash	Fuel Heating Value	% Sulfur	% Ash	Fuel Heating Value	% Sulfur	% Ash	Fuel Heating Value	% Sulfur	% Ash	
	8703		0.215	4.919	8821	0.235	5.176	8732	0.22	4.885	8752	0.22	4.99

FACILITY NAME	OP YEAR	OP DATE	SUM OP TIME	SO2 Daily Average (lb/MMBtu)	SO2 30-day Rolling (lb/MMBtu)	SO2 MASS	NOx Daily Average (lb/MMBtu)	NOx 30-day Rolling (lb/MMBtu)	NOx MASS	HEAT INPUT
Ray D Nixon	2006	1/1/2006	24	0.436	12.168	0.255	7.114	55860.3		
Ray D Nixon	2006	1/2/2006	24	0.425	11.956	0.249	6.991	56242.8		
Ray D Nixon	2006	1/3/2006	24	0.432	11.807	0.263	7.398	56248.4		
Ray D Nixon	2006	1/4/2006	24	0.417	11.699	0.261	7.334	56155		
Ray D Nixon	2006	1/5/2006	24	0.408	11.519	0.257	7.265	56130.8		
Ray D Nixon	2006	1/6/2006	24	0.412	11.699	0.257	7.31	5629.4		
Ray D Nixon	2006	1/7/2006	24	0.424	11.721	0.247	6.839	55354.6		
Ray D Nixon	2006	1/8/2006	18 75	0.424	11.716	0.244	5.229	43069.65		
Ray D Nixon	2006	1/9/2006	0	0						
Ray D Nixon	2006	1/10/2006	0	0						
Ray D Nixon	2006	1/11/2006	0	0						
Ray D Nixon	2006	1/12/2006	0	0						
Ray D Nixon	2006	1/13/2006	0	0						
Ray D Nixon	2006	1/14/2006	0	0						
Ray D Nixon	2006	1/15/2006	0	0						
Ray D Nixon	2006	1/16/2006	0	0						
Ray D Nixon	2006	1/17/2006	0	0						
Ray D Nixon	2006	1/18/2006	0	0						
Ray D Nixon	2006	1/19/2006	2 25	0.317	10.155	0.224	0.111	978.175		
Ray D Nixon	2006	1/20/2006	24	0.426	10.692	0.237	6.054	50251		
Ray D Nixon	2006	1/21/2006	24	0.431	12.431	0.258	7.364	57750.8		
Ray D Nixon	2006	1/22/2006	24	0.471	11.486	0.261	7.122	5706.5		
Ray D Nixon	2006	1/23/2006	24	0.510	14.425	0.268	7.59	56645.6		
Ray D Nixon	2006	1/24/2006	24	0.510	14.446	0.255	7.216	56649.9		
Ray D Nixon	2006	1/25/2006	24	0.510	14.44	0.268	7.542	56838.8		
Ray D Nixon	2006	1/26/2006	24	0.514	14.38	0.27	7.548	56006.3		
Ray D Nixon	2006	1/27/2006	24	0.490	14.63	0.274	7.676	56034.2		
Ray D Nixon	2006	1/28/2006	24	0.433	12.051	0.257	7.148	55621.4		
Ray D Nixon	2006	1/29/2006	24	0.439	12.287	0.269	7.531	55971.5		
Ray D Nixon	2006	1/30/2006	24	0.435	12.028	0.257	7.158	56034.2		
Ray D Nixon	2006	1/31/2006	24	0.448	12.513	0.258	7.837	55840.6		
Ray D Nixon	2006	2/1/2006	24	0.445	14.379	0.276	8.060	55973.5		
Ray D Nixon	2006	2/2/2006	24	0.445	14.465	0.273	8.260	55953.8		
Ray D Nixon	2006	2/3/2006	24	0.449	12.52	0.259	7.229	55823.1		
Ray D Nixon	2006	2/4/2006	24	0.428	14.888	0.265	8.060	55735.8		
Ray D Nixon	2006	2/5/2006	24	0.449	12.071	0.260	7.366	56032.9		
Ray D Nixon	2006	2/6/2006	24	0.423	11.857	0.268	7.542	56190		
Ray D Nixon	2006	2/7/2006	24	0.459	12.886	0.278	8.263	56106		
Ray D Nixon	2006	2/8/2006	24	0.554	15.488	0.264	8.264	59393.1		
Ray D Nixon	2006	2/9/2006	24	0.547	15.246	0.298	8.347	55719		
Ray D Nixon	2006	2/10/2006	24	0.530	14.709	0.276	7.673	55840.6		
Ray D Nixon	2006	2/11/2006	24	0.547	15.314	0.275	7.688	55953.3		
Ray D Nixon	2006	2/12/2006	24	0.540	15.068	0.284	7.916	55768.2		
Ray D Nixon	2006	2/13/2006	24	0.503	14.054	0.281	8.268	55843.6		
Ray D Nixon	2006	2/14/2006	24	0.447	12.449	0.277	7.368	57177.4		
Ray D Nixon	2006	2/15/2006	24	0.410	11.393	0.263	6.269	55570.5		
Ray D Nixon	2006	2/16/2006	24	0.411	14.448	0.271	7.269	55723.6		
Ray D Nixon	2006	2/17/2006	24	0.466	14.433	0.264	7.369	55964.2		
Ray D Nixon	2006	2/18/2006	24	0.426	12.228	0.277	7.071	55938.7		
Ray D Nixon	2006	2/19/2006	24	0.427	14.888	0.276	7.272	55954.6		
Ray D Nixon	2006	2/20/2006	24	0.468	13.502	0.273	8.291	56265.8		
Ray D Nixon	2006	2/21/2006	24	0.430	14.431	0.253	6.793	53152.8		
Ray D Nixon	2006	2/22/2006	24	0.511	14.666	0.273	7.273	56060.9		
Ray D Nixon	2006	2/23/2006	24	0.508	17.166	0.274	8.075	57891.8		
Ray D Nixon	2006	2/24/2006	24	0.462	14.689	0.289	8.275	55927.2		
Ray D Nixon	2006	2/25/2006	24	0.462	12.015	0.253	6.275	51168.4		
Ray D Nixon	2006	2/26/2006	24	0.403	14.973	0.246	6.274	51168.4		
Ray D Nixon	2006	2/27/2006	24	0.408	14.611	0.236	6.273	50222.9		
Ray D Nixon	2006	2/28/2006	24	0.413	12.268	0.243	6.272	51296.6		
Ray D Nixon	2006	3/1/2006	24	0.417	12.247	0.249	6.272	51296.6		
Ray D Nixon	2006	3/2/2006	24	0.441	12.242	0.241	6.270	50997.8		
Ray D Nixon	2006	3/3/2006	24	0.414	12.186	0.246	6.269	51296.6		
Ray D Nixon	2006	3/4/2006	24	0.422	14.616	0.257	6.269	51296.6		
Ray D Nixon	2006	3/5/2006	24	0.455	12.43	0.266	6.269	51296.6		
Ray D Nixon	2006	3/6/2006	24	0.501	14.526	0.274	6.270	51296.6		
Ray D Nixon	2006	3/7/2006	24	0.529	14.134	0.29	6.271	51296.6		
Ray D Nixon	2006	3/8/2006	24	0.613	17.311	0.34	6.273	59191		
Ray D Nixon	2006	3/9/2006	24	0.477	13.946	0.274	6.273	51296.6		
Ray D Nixon	2006	3/10/2006	24	0.479	14.998	0.262	6.272	51296.6		
Ray D Nixon	2006	3/11/2006	24	0.467	14.618	0.25	6.271	5265		
Ray D Nixon	2006	3/12/2006	24	0.475	14.888	0.261	6.270	5265		
Ray D Nixon	2006	3/13/2006	24	0.460	13.555	0.248	6.269	51296.6		
Ray D Nixon	2006	3/14/2006	24	0.427	12.545	0.246	6.267	51296.6		
Ray D Nixon	2006	3/15/2006	24	0.434	14.611	0.249	6.266	51296.6		
Ray D Nixon	2006	3/16/2006	24	0.438	14.209	0.251	6.266	51296.6		
Ray D Nixon	2006	3/17/2006	24	0.433	14.811	0.242	6.264	51296.6		
Ray D Nixon	2006	3/18/2006	24	0.447	13.261	0.246	6.263	51296.6		
Ray D Nixon	2006	3/19/2006	24	0.445	13.16	0.237	6.263	51296.6		
Ray D Nixon	2006	3/20/2006	24	0.426	14.535	0.246	6.262	51296.6		
Ray D Nixon	2006	3/21/2006	24	0.454	14.074	0.233	6.261	51296.6		
Ray D Nixon	2006	3/22/2006	24	0.490	14.533	0.268	6.261	51296.6		
Ray D Nixon	2006	3/23/2006	24	0.466	14.851	0.284	6.262	51296.6		
Ray D Nixon	2006	3/24/2006	24	0.459	14.907	0.287	6.262	51296.6		
Ray D Nixon	2006	3/25/2006	24	0.422	14.862	0.274	6.261	51296.6		
Ray D Nixon	2006	3/26/2006	24	0.448	12.172	0.261	6.260	51296.6		
Ray D Nixon	2006	3/27/2006	24	0.421	14.915	0.28	6.261	51296.6		
Ray D Nixon	2006	3/28/2006	24	0.438	14.688	0.271	6.262	51296.6		
Ray D Nixon	2006	3/29/2006	24	0.436	14.89	0.267	6.264	51296.6		
Ray D Nixon	2006	3/30/2006	0 25	0.232	6.450	0.007	0.234	6.263	0.007	60.425
Ray D Nixon	2006	3/31/2006	0 25	0.008	0.444	0.002	0.009	0.257	0.009	0.2475
Ray D Nixon	2006	4/1/2006	24	0.418	14.030	0.257	6.261	51296.6		
Ray D Nixon	2006	4/2/2006	24	0.435	14.030	0.257	6.261	51296.6		
Ray D Nixon	2006	4/3/2006	24	0.411	12.021	0.253	6.258	51296.6		
Ray D Nixon	2006	4/4/2006	24	0.424	14.111	0.279	6.258	51296.6		
Ray D Nixon	2006	4/5/2006	24	0.437	14.111	0.279	6.258	51296.6		
Ray D Nixon	2006	4/6/2006	24	0.429	12.202	0.279	6.258	51296.6		
Ray D Nixon	2006	4/7/2006	24	0.406	14.026	0.273	6.255	51296.6		
Ray D Nixon	2006	4/8/2006	24	0.414	14.919	0.258	6.255	51296.6		
Ray D Nixon	2006	4/9/2006	24	0.380	14.015	0.253	6.254	51296.6		
Ray D Nixon	2006	4/10/2006	24	0.383	14.015	0.253	6.254	51296.6		
Ray D Nixon	2006	4/11/2006	24	0.400	14.015	0.253	6.254	51296.6		
Ray D Nixon	2006	4/12/2006	24	0.396	14.015	0.253	6.254	51296.6		
Ray D Nixon	2006	4/13/2006	24	0.408	14.015	0.253	6.254	51296.6		
Ray D Nixon	2006	4/14/2006	24	0.413	14.015	0.253	6.254	51296.6		
Ray D Nixon	2006	4/15/2006	24	0.412	14.015	0.253	6.254	51296.6		
Ray D Nixon	2006	4/16/2006	24	0.402	14.015	0.253	6.254	51296.6		
Ray D Nixon	2006	4/17/2006	24	0.435	14.015	0.253	6.254	51296.6		
Ray D Nixon	2006	4/18/2006	24	0.429	14.015	0.253	6.254	51296.6		
Ray D Nixon	2006	4/19/2006	24	0.416	14.015	0.253	6.254	51296.6		
Ray D Nixon	2006	4/20/2006	24	0.417	14.015	0.253	6.254	51296.6		
Ray D Nixon	2006	4/21/2006	24	0.418	14.015	0.253	6.254	51296.6		
Ray D Nixon	2006	4/22/2006	1	0.317	3.988	0.008	0.119	2.959	0.048	505.4
Ray D Nixon	2006	4/23/2006	0	0.393	0	0	0	0	0	0
Ray D Nixon	2006	4/24/2006	14	0.398	3.392	0.155	0.229	0.257	2.176	17821.8
Ray D Nixon	2006	4/25/2006	24	0.421	3.392	0.155	0.229	0.257	2.176	17821.8
Ray D Nixon	2006	4/26/2006	24	0.427	3.391	0.194	0.267	0.256	7.452	55888.2
Ray D Nixon	2006	4/27/2006	24	0.432	3.391	0.1796	0.267	0.256	7.417	55888.2
Ray D Nixon	2006	4/28/2006	24	0.420	3.391	0.1856	0.27	0.255	7.608	56409.1
Ray D Nixon	2006	4/29/2006	24	0.411	3.390	0.2084	0.264	0.257	7.909	55888.2
Ray D Nixon	2006	4/30/2006	24	0.519	3.398	0.4469	0.274	0.264	7.636	55775.2
Ray D Nixon	2									

Ray D Nixon	2006	6/26/2006	24	0.395	0.404	11.252	0.252	0.261	7.174	56988.2
Ray D Nixon	2006	6/27/2006	24	0.402	0.404	11.302	0.264	0.261	7.224	56989.9
Ray D Nixon	2006	6/28/2006	24	0.410	0.404	11.618	0.263	0.261	7.472	56992.9
Ray D Nixon	2006	6/29/2006	24	0.412	0.404	11.714	0.261	0.261	7.42	56990.7
Ray D Nixon	2006	6/30/2006	24	0.404	0.404	11.626	0.258	0.262	7.322	56994.2
Ray D Nixon	2006	7/1/2006	24	0.422	0.403	11.984	0.243	0.262	6.901	56992.6
Ray D Nixon	2006	7/2/2006	24	0.418	0.403	11.888	0.239	0.261	6.793	56984.3
Ray D Nixon	2006	7/3/2006	24	0.413	0.404	11.713	0.245	0.261	6.975	56986.1
Ray D Nixon	2006	7/4/2006	24	0.406	0.405	11.507	0.251	0.261	7.116	56984.7
Ray D Nixon	2006	7/5/2006	24	0.405	0.405	11.547	0.257	0.261	7.21	56999.5
Ray D Nixon	2006	7/6/2006	24	0.403	0.405	11.531	0.257	0.260	7.355	57043.7
Ray D Nixon	2006	7/7/2006	24	0.429	0.404	12.295	0.264	0.260	7.569	57020.8
Ray D Nixon	2006	7/8/2006	24	0.404	0.404	12.993	0.269	0.260	7.698	57068
Ray D Nixon	2006	7/9/2006	24	0.470	0.404	13.412	0.264	0.260	7.543	57072.4
Ray D Nixon	2006	7/10/2006	24	0.481	0.407	13.665	0.265	0.260	7.519	56825
Ray D Nixon	2006	7/11/2006	24	0.469	0.409	13.186	0.269	0.260	7.44	56835.4
Ray D Nixon	2006	7/12/2006	24	0.411	0.411	12.155	0.269	0.260	7.575	56937.8
Ray D Nixon	2006	7/13/2006	24	0.412	0.412	11.648	0.267	0.259	7.53	56940.7
Ray D Nixon	2006	7/14/2006	24	0.414	0.411	11.707	0.266	0.259	7.51	56954.8
Ray D Nixon	2006	7/15/2006	24	0.408	0.410	11.451	0.26	0.259	7.3	56933.2
Ray D Nixon	2006	7/16/2006	24	0.402	0.411	11.375	0.263	0.259	7.023	56932.2
Ray D Nixon	2006	7/17/2006	24	0.403	0.412	11.25	0.251	0.259	6.996	55786.8
Ray D Nixon	2006	7/18/2006	24	0.447	0.412	11.538	0.247	0.258	6.958	56909.7
Ray D Nixon	2006	7/19/2006	24	0.418	0.413	11.797	0.247	0.257	6.958	56426.9
Ray D Nixon	2006	7/20/2006	24	0.446	0.414	12.613	0.252	0.257	7.126	56605.9
Ray D Nixon	2006	7/21/2006	24	0.451	0.416	12.686	0.249	0.257	6.987	56936.2
Ray D Nixon	2006	7/22/2006	24	0.439	0.419	12.493	0.261	0.257	7.419	56861.9
Ray D Nixon	2006	7/23/2006	24	0.449	0.420	12.675	0.267	0.257	7.522	56451.7
Ray D Nixon	2006	7/24/2006	18.25	0.463	0.422	8.741	0.248	0.257	5.091	5775.1
Ray D Nixon	2006	7/25/2006	0	0	0.425				0.258	
Ray D Nixon	2006	7/26/2006	0	0	0.426				0.258	
Ray D Nixon	2006	7/27/2006	0	0	0.427				0.258	
Ray D Nixon	2006	7/28/2006	0	0	0.428				0.258	
Ray D Nixon	2006	7/29/2006	21.25	0.460	0.428	9.435	0.232	0.257	5.339	41009.075
Ray D Nixon	2006	7/30/2006	24	0.433	0.430	12.241	0.258	0.257	7.294	56526
Ray D Nixon	2006	7/31/2006	24	0.427	0.431	12.044	0.267	0.258	7.525	56936.1
Ray D Nixon	2006	8/1/2006	24	0.435	0.431	12.217	0.261	0.259	7.47	56930.1
Ray D Nixon	2006	8/2/2006	24	0.434	0.432	12.237	0.258	0.259	7.279	56842.4
Ray D Nixon	2006	8/3/2006	24	0.463	0.433	13.052	0.267	0.260	7.524	56903.8
Ray D Nixon	2006	8/4/2006	24	0.475	0.435	13.405	0.26	0.260	7.33	56846.1
Ray D Nixon	2006	8/5/2006	24	0.475	0.438	13.429	0.247	0.260	6.967	56949.7
Ray D Nixon	2006	8/6/2006	24	0.470	0.460	13.213	0.267	0.259	6.958	56843.2
Ray D Nixon	2006	8/7/2006	24	0.449	0.442	12.743	0.252	0.259	7.164	56740.7
Ray D Nixon	2006	8/8/2006	24	0.410	0.442	12.146	0.258	0.258	7.138	56794.2
Ray D Nixon	2006	8/9/2006	24	0.402	0.439	11.959	0.276	0.259	7.988	56568.6
Ray D Nixon	2006	8/10/2006	24	0.401	0.436	11.384	0.263	0.259	7.472	56833.4
Ray D Nixon	2006	8/11/2006	24	0.414	0.414	11.687	0.256	0.258	7.284	56903
Ray D Nixon	2006	8/12/2006	24	0.399	0.433	11.37	0.26	0.258	7.392	56958.9
Ray D Nixon	2006	8/13/2006	23	0.397	0.432	10.766	0.257	0.258	6.978	54249.4
Ray D Nixon	2006	8/14/2006	0	0	0.432				0.257	
Ray D Nixon	2006	8/15/2006	0	0	0.433				0.257	
Ray D Nixon	2006	8/16/2006	0	0	0.434				0.257	
Ray D Nixon	2006	8/17/2006	0	0	0.435				0.258	
Ray D Nixon	2006	8/18/2006	0	0	0.437				0.258	
Ray D Nixon	2006	8/19/2006	0	0	0.438				0.259	
Ray D Nixon	2006	8/20/2006	0	0	0.437				0.259	
Ray D Nixon	2006	8/21/2006	0	0	0.436				0.259	
Ray D Nixon	2006	8/22/2006	0	0	0.435				0.258	
Ray D Nixon	2006	8/23/2006	0	0	0.435				0.258	
Ray D Nixon	2006	8/24/2006	18.25	0.003	0.414	0.001	0.056	0.046	0.02	638.5
Ray D Nixon	2006	8/25/2006	24	0.357	0.408	8.289	0.261	0.247	6.264	46450.9
Ray D Nixon	2006	8/26/2006	24	0.354	0.406	10.018	0.265	0.248	7.49	56584.7
Ray D Nixon	2006	8/27/2006	24	0.368	0.403	10.349	0.261	0.249	7.329	56917.9
Ray D Nixon	2006	8/28/2006	24	0.366	0.401	10.328	0.258	0.250	7.283	56405.5
Ray D Nixon	2006	8/29/2006	24	0.362	0.396	10.303	0.259	0.250	7.308	56845.7
Ray D Nixon	2006	8/30/2006	24	0.362	0.393	10.306	0.251	0.249	7.136	56897.4
Ray D Nixon	2006	8/31/2006	24	0.363	0.390	10.313	0.252	0.249	7.154	56880.7
Ray D Nixon	2006	9/1/2006	24	0.366	0.386	10.947	0.246	0.248	6.98	56838.8
Ray D Nixon	2006	9/2/2006	24	0.406	0.384	11.504	0.238	0.246	6.675	56658.4
Ray D Nixon	2006	9/3/2006	24	0.394	0.381	11.171	0.256	0.246	7.277	56777.1
Ray D Nixon	2006	9/4/2006	24	0.399	0.377	11.348	0.261	0.247	6.827	56884.2
Ray D Nixon	2006	9/5/2006	24	0.398	0.393	11.324	0.256	0.247	7.283	56892
Ray D Nixon	2006	9/6/2006	24	0.417	0.389	11.885	0.258	0.247	7.338	56972.6
Ray D Nixon	2006	9/7/2006	24	0.415	0.388	11.766	0.259	0.247	7.364	56846.1
Ray D Nixon	2006	9/8/2006	24	0.416	0.388	11.754	0.258	0.246	6.733	56470.8
Ray D Nixon	2006	9/9/2006	24	0.369	0.389	11.663	0.262	0.245	6.424	56725.9
Ray D Nixon	2006	9/10/2006	24	0.399	0.389	11.331	0.258	0.246	7.314	56773.8
Ray D Nixon	2006	9/11/2006	24	0.399	0.369	11.265	0.251	0.245	7.145	56939.8
Ray D Nixon	2006	9/12/2006	24	0.388	0.369	11.051	0.259	0.245	6.172	57272.6
Ray D Nixon	2006	9/13/2006	24	0.413	0.388	11.813	0.248	0.245	7.083	57199.9
Ray D Nixon	2006	9/14/2006	24	0.425	0.387	12.057	0.254	0.245	7.21	56746.3
Ray D Nixon	2006	9/15/2006	24	0.405	0.373	11.397	0.262	0.246	7.385	56294.7
Ray D Nixon	2006	9/16/2006	24	0.415	0.374	11.724	0.267	0.247	7.531	56697.9
Ray D Nixon	2006	9/17/2006	24	0.378	0.378	12.416	0.261	0.248	6.454	56795.1
Ray D Nixon	2006	9/18/2006	24	0.425	0.378	12.088	0.261	0.248	7.439	56902.7
Ray D Nixon	2006	9/19/2006	24	0.428	0.380	12.171	0.259	0.249	7.35	56841.5
Ray D Nixon	2006	9/20/2006	24	0.424	0.382	12.047	0.263	0.249	7.07	56846
Ray D Nixon	2006	9/21/2006	24	0.429	0.383	12.047	0.253	0.249	7.117	56743.9
Ray D Nixon	2006	9/22/2006	24	0.421	0.385	12.022	0.259	0.249	7.37	56971.3
Ray D Nixon	2006	9/23/2006	24	0.410	0.386	11.857	0.258	0.256	7.455	57018.8
Ray D Nixon	2006	9/24/2006	24	0.401	0.400	11.609	0.239	0.255	6.938	57905.5
Ray D Nixon	2006	9/25/2006	18.25	0.002	0.411	0.001	0.056	0.046	0.02	638.5
Ray D Nixon	2006	9/26/2006	18.25	0.385	0.403	8.675	0.169	0.251	2.272	19091.225
Ray D Nixon	2006	9/27/2006	24	0.402	0.403	11.38	0.274	0.251	7.878	57456.6
Ray D Nixon	2006	9/28/2006	24	0.389	0.404	11.07	0.264	0.252	7.332	56985
Ray D Nixon	2006	9/29/2006	24	0.373	0.405	10.542	0.272	0.252	7.688	56523.1
Ray D Nixon	2006	9/30/2006	24	0.406	0.406	10.363	0.275	0.253	7.703	56935.8
Ray D Nixon	2006	10/1/2006	24	0.371	0.406	10.461	0.277	0.254	7.615	56441.8
Ray D Nixon	2006	10/2/2006	24	0.370	0.405	10.506	0.272	0.255	7.718	56474.6
Ray D Nixon	2006	10/3/2006	24	0.373	0.404	10.584	0.274	0.256	7.766	57001.6
Ray D Nixon	2006	10/4/2006	24	0.380	0.403	10.87	0.277	0.256	7.931	57231.4
Ray D Nixon	2006	10/5/2006	24	0.389	0.403	11.224	0.28	0.257	7.99	57044.5
Ray D Nixon	2006	10/6/2006	24	0.391	0.403	11.195	0.274	0.257	7.845	57205.1
Ray D Nixon	2006	10/7/2006	24	0.398	0.402	11.297	0.256	0.257	7.249	56703.8
Ray D Nixon	2006	10/8/2006	24	0.419	0.401	11.856	0.26	0.258	7.365	56937.3
Ray D Nixon	2006	10/9/2006	24	0.434	0.401	12.326	0.252	0.258	7.156	56850.1
Ray D Nixon	2006	10/10/2006	24	0.438	0.402	12.569	0.256	0.258	7.339	57890
Ray D Nixon	2006	10/11/2006	24	0.449	0.403	12.83	0.253	0.258	7.228	57374.1
Ray D Nixon	2006	10/12/2006	24	0.443	0.405	12.725	0.269	0.258	7.733	57406.3
Ray D Nixon	2006	10/13/2006	24	0.436	0.407	12.489	0.259	0.259	7.458	57451.1
Ray D Nixon	2006	10/14/2006	24	0.441	0.408	12.54	0.273	0.259	7	

Ray D Nixon	2006	12/26/2006	24	0.436	0.406	12.298	0.27	0.259	7.603	56417.6
Ray D Nixon	2006	12/27/2006	24	0.447	0.407	12.207	0.263	0.259	7.254	56047
Ray D Nixon	2006	12/28/2006	24	0.447	0.408	12.333	0.263	0.259	7.314	56051
Ray D Nixon	2006	12/29/2006	24	0.448	0.409	12.717	0.243	0.258	6.881	56749.2
Ray D Nixon	2006	12/30/2006	24	0.441	0.411	12.353	0.241	0.258	6.757	56986.7
Ray D Nixon	2006	12/31/2006	24	0.433	0.412	12.285	0.241	0.257	6.812	56936.6
Ray D Nixon	2007	1/1/2007	24	0.435	0.413	12.28	0.241	0.256	6.808	56513
Ray D Nixon	2007	1/2/2007	24	0.435	0.414	12.341	0.244	0.256	6.644	56714.1
Ray D Nixon	2007	1/3/2007	24	0.436	0.416	12.206	0.248	0.256	6.939	56213.8
Ray D Nixon	2007	1/4/2007	24	0.439	0.418	12.071	0.235	0.256	7.168	56203.1
Ray D Nixon	2007	1/5/2007	24	0.416	0.417	11.692	0.23	0.256	7.042	56230.9
Ray D Nixon	2007	1/6/2007	24	0.418	0.420	11.77	0.23	0.256	7.042	56237.5
Ray D Nixon	2007	1/7/2007	24	0.411	0.415	11.762	0.23	0.255	7.071	56373.2
Ray D Nixon	2007	1/8/2007	24	0.421	0.421	11.922	0.235	0.254	6.643	56600.4
Ray D Nixon	2007	1/9/2007	24	0.430	0.422	12.171	0.238	0.253	6.742	56666.9
Ray D Nixon	2007	1/10/2007	24	0.439	0.423	12.414	0.233	0.252	6.585	56685.9
Ray D Nixon	2007	1/11/2007	24	0.434	0.424	12.15	0.24	0.251	6.776	55956.1
Ray D Nixon	2007	1/12/2007	24	0.422	0.425	12.004	0.23	0.255	6.481	56479.7
Ray D Nixon	2007	1/13/2007	24	0.424	0.426	12.042	0.235	0.249	6.69	56848.6
Ray D Nixon	2007	1/14/2007	24	0.436	0.426	12.375	0.238	0.248	6.77	56825.2
Ray D Nixon	2007	1/15/2007	24	0.431	0.427	12.272	0.232	0.247	6.606	56957.3
Ray D Nixon	2007	1/16/2007	24	0.452	0.427	12.909	0.258	0.247	7.379	57151.4
Ray D Nixon	2007	1/17/2007	24	0.461	0.428	12.096	0.268	0.248	7.025	56802.7
Ray D Nixon	2007	1/18/2007	24	0.440	0.429	12.747	0.255	0.247	7.235	56794.7
Ray D Nixon	2007	1/19/2007	24	0.433	0.431	12.301	0.265	0.247	7.524	56822.7
Ray D Nixon	2007	1/20/2007	24	0.432	0.432	15.963	0.242	0.251	5.922	56922.1
Ray D Nixon	2007	1/21/2007	24	0.466	0.437	22.737	0.274	0.258	12.429	52492.7
Ray D Nixon	2007	1/22/2007	24	0.401	0.433	20.981	0.391	0.263	10.269	52174.1
Ray D Nixon	2007	1/23/2007	24	0.394	0.466	21.133	0.373	0.267	9.866	52309.4
Ray D Nixon	2007	1/24/2007	24	0.477	0.478	18.526	0.296	0.268	8.104	54708.6
Ray D Nixon	2007	1/25/2007	24	0.436	0.486	17.425	0.284	0.269	7.771	54758.5
Ray D Nixon	2007	1/26/2007	24	0.623	0.493	17.095	0.305	0.270	8.38	54877
Ray D Nixon	2007	1/27/2007	24	0.618	0.499	16.938	0.328	0.272	8.985	54824.1
Ray D Nixon	2007	1/28/2007	24	0.504	0.551	15.133	0.306	0.275	8.407	54948.7
Ray D Nixon	2007	1/29/2007	24	0.547	0.508	15.096	0.307	0.277	8.474	55222.8
Ray D Nixon	2007	1/30/2007	24	0.527	0.511	14.499	0.279	0.278	7.883	54992
Ray D Nixon	2007	1/31/2007	24	0.515	0.515	15.558	0.285	0.278	7.786	54695.3
Ray D Nixon	2007	2/1/2007	24	0.589	0.519	16.116	0.288	0.281	7.877	54762.8
Ray D Nixon	2007	2/2/2007	24	0.514	0.514	15.751	0.256	0.282	7.238	56377.8
Ray D Nixon	2007	2/3/2007	24	0.408	0.523	11.58	0.258	0.282	7.321	56741.4
Ray D Nixon	2007	2/4/2007	24	0.401	0.523	11.38	0.265	0.282	7.511	56735.3
Ray D Nixon	2007	2/5/2007	24	0.394	0.522	11.439	0.242	0.282	6.807	56551.4
Ray D Nixon	2007	2/6/2007	24	0.453	0.521	12.438	0.252	0.282	7.02	55754.5
Ray D Nixon	2007	2/7/2007	24	0.588	0.523	16.129	0.273	0.283	7.489	54800.4
Ray D Nixon	2007	2/8/2007	24	0.565	0.528	15.467	0.265	0.284	7.334	55380.4
Ray D Nixon	2007	2/9/2007	24	0.605	0.533	16.627	0.298	0.286	8.182	54993.2
Ray D Nixon	2007	2/10/2007	24	0.446	0.538	15.883	0.261	0.287	7.361	54909.2
Ray D Nixon	2007	2/11/2007	24	0.422	0.539	11.817	0.245	0.288	6.862	54053.7
Ray D Nixon	2007	2/12/2007	24	0.484	0.539	13.42	0.273	0.289	7.55	55491.8
Ray D Nixon	2007	2/13/2007	24	0.485	0.541	13.635	0.273	0.29	7.48	54384.1
Ray D Nixon	2007	2/14/2007	24	0.473	0.542	13.33	0.261	0.291	7.349	56321.2
Ray D Nixon	2007	2/15/2007	24	0.440	0.544	12.497	0.257	0.291	7.281	56752.4
Ray D Nixon	2007	2/16/2007	24	0.448	0.543	12.682	0.256	0.292	7.252	56666.8
Ray D Nixon	2007	2/17/2007	24	0.443	0.543	12.51	0.26	0.291	7.35	56509.6
Ray D Nixon	2007	2/18/2007	24	0.445	0.542	12.599	0.26	0.29	7.371	56551.7
Ray D Nixon	2007	2/19/2007	24	0.444	0.543	12.423	0.273	0.288	7.574	55958
Ray D Nixon	2007	2/20/2007	24	0.452	0.539	12.688	0.266	0.281	7.459	56117.5
Ray D Nixon	2007	2/21/2007	24	0.444	0.525	12.474	0.254	0.277	7.122	56238.1
Ray D Nixon	2007	2/22/2007	24	0.405	0.513	11.438	0.232	0.272	6.553	56549
Ray D Nixon	2007	2/23/2007	24	0.412	0.500	11.682	0.247	0.270	6.48	56507.2
Ray D Nixon	2007	2/24/2007	24	0.418	0.491	11.7	0.244	0.269	6.833	56021.2
Ray D Nixon	2007	2/25/2007	24	0.416	0.484	11.792	0.241	0.267	6.85	56791
Ray D Nixon	2007	2/26/2007	24	0.452	0.477	12.796	0.237	0.264	6.705	56609.4
Ray D Nixon	2007	2/27/2007	24	0.434	0.471	12.274	0.222	0.261	6.262	56728.1
Ray D Nixon	2007	2/28/2007	24	0.431	0.467	12.135	0.231	0.258	6.493	56200.4
Ray D Nixon	2007	2/29/2007	24	0.444	0.464	12.14	0.231	0.257	6.553	56772.2
Ray D Nixon	2007	3/2/2007	24	0.425	0.460	12.102	0.238	0.255	6.488	56003.9
Ray D Nixon	2007	3/3/2007	24	0.416	0.456	11.86	0.219	0.253	6.28	57305.3
Ray D Nixon	2007	3/4/2007	24	0.412	0.450	11.836	0.222	0.252	6.359	57408.9
Ray D Nixon	2007	3/5/2007	24	0.416	0.450	11.883	0.247	0.251	7.073	57129.8
Ray D Nixon	2007	3/6/2007	24	0.427	0.450	12.078	0.252	0.251	7.148	56956.2
Ray D Nixon	2007	3/7/2007	24	0.475	0.451	13.255	0.252	0.251	7.039	55798.3
Ray D Nixon	2007	3/8/2007	24	0.587	0.453	16.342	0.246	0.251	6.955	55828.1
Ray D Nixon	2007	3/9/2007	24	0.563	0.458	15.724	0.247	0.250	6.897	55893.7
Ray D Nixon	2007	3/10/2007	24	0.564	0.457	15.641	0.243	0.249	6.756	55501
Ray D Nixon	2007	3/11/2007	24	0.546	0.457	15.212	0.236	0.247	6.588	55747.7
Ray D Nixon	2007	3/12/2007	24	0.533	0.455	14.897	0.22	0.246	6.149	55889.9
Ray D Nixon	2007	3/13/2007	24	0.535	0.458	14.922	0.24	0.246	6.697	55830.1
Ray D Nixon	2007	3/14/2007	24	0.530	0.462	14.71	0.229	0.244	6.338	55468
Ray D Nixon	2007	3/15/2007	24	0.523	0.463	14.585	0.227	0.243	6.334	55755.9
Ray D Nixon	2007	3/16/2007	24	0.529	0.465	15.098	0.246	0.242	6.805	55833.1
Ray D Nixon	2007	3/17/2007	24	0.438	0.467	12.245	0.245	0.242	6.854	55892.2
Ray D Nixon	2007	3/18/2007	24	0.418	0.467	11.747	0.238	0.242	7.248	56185.7
Ray D Nixon	2007	3/19/2007	24	0.417	0.466	14.236	0.278	0.242	7.621	55099.8
Ray D Nixon	2007	3/20/2007	24	0.764	0.468	20.311	0.353	0.245	9.39	53209.4
Ray D Nixon	2007	3/21/2007	24	0.741	0.479	19.778	0.359	0.248	9.57	53384.3
Ray D Nixon	2007	3/22/2007	24	0.750	0.489	20.014	0.355	0.251	9.478	53361.1
Ray D Nixon	2007	3/23/2007	24	0.709	0.489	19.068	0.315	0.253	8.465	53789.4
Ray D Nixon	2007	3/24/2007	24	0.775	0.507	15.477	0.278	0.255	7.491	53868
Ray D Nixon	2007	3/25/2007	24	0.578	0.513	15.535	0.294	0.257	7.91	53712.8
Ray D Nixon	2007	3/26/2007	24	0.572	0.519	15.525	0.294	0.258	7.987	54265.1
Ray D Nixon	2007	3/27/2007	24	0.524	0.514	17.306	0.347	0.262	6.998	54193.7
Ray D Nixon	2007	3/28/2007	24	0.774	0.511	20.471	0.381	0.267	10.073	52914.3
Ray D Nixon	2007	3/29/2007	24	0.788	0.542	21.013	0.391	0.272	10.436	53138.1
Ray D Nixon	2007	3/30/2007	24	0.790	0.544	20.438	0.361	0.277	9.432	53722
Ray D Nixon	2007	3/31/2007	5.25	0.605	0.566	0.796	0.287	0.278	0.356	26311.175
Ray D Nixon	2007	4/1/2007	0	0	0.517	0	0	0.280	0	0
Ray D Nixon	2007	4/2/2007	0	0	0.577	0	0	0.282	0	0
Ray D Nixon	2007	4/3/2007	0	0	0.582	0	0	0.285	0	0
Ray D Nixon	2007	4/4/2007	0	0	0.589	0	0	0.286	0	0
Ray D Nixon	2007	4/5/2007	0	0	0.595	0	0	0.287	0	0
Ray D Nixon	2007	4/6/2007	0	0	0.602	0	0	0.289	0	0
Ray D Nixon	2007	4/7/2007	0	0	0.607	0	0	0.291	0	0
Ray D Nixon	2007	4/8/2007	0	0	0.608	0	0	0.293	0	0
Ray D Nixon	2007	4/9/2007	0	0	0.610	0	0	0.295	0	0
Ray D Nixon	2007	4/10/2007	0	0	0.613	0	0	0.298	0	0
Ray D Nixon	2007	4/11/2007	0	0	0.616	0	0	0.302	0	0
Ray D Nixon	2007	4/12/2007	0	0	0.620	0	0	0.306	0	0
Ray D Nixon	2007	4/13/2007	0	0	0.625	0	0	0.310	0	0
Ray D Nixon	2007	4/14/2007	0	0	0.631	0	0	0.315	0	0
Ray D										

Ray D Mission	2007	6/27/2007	24	0.423	0.518	11.706	0.245	0.347	6.776	55290.8
Ray D Mission	2007	6/28/2007	24	0.426	0.514	11.961	0.24	0.246	6.72	55017.8
Ray D Mission	2007	6/29/2007	24	0.408	0.504	11.203	0.245	0.251	6.776	55402.2
Ray D Mission	2007	6/30/2007	24	0.416	0.494	11.551	0.252	0.251	6.889	55473.1
Ray D Mission	2007	7/1/2007	24	0.491	0.491	11.225	0.247	0.251	6.808	55335.2
Ray D Mission	2007	7/2/2007	24	0.505	0.491	11.883	0.251	0.251	6.957	55340.9
Ray D Mission	2007	7/3/2007	24	0.462	0.491	11.659	0.257	0.263	7.067	55063.4
Ray D Mission	2007	7/4/2007	24	0.432	0.492	11.443	0.24	0.232	7.145	54886.1
Ray D Mission	2007	7/5/2007	24	0.435	0.483	11.9	0.248	0.252	6.795	54713.7
Ray D Mission	2007	7/6/2007	24	0.434	0.461	11.827	0.242	0.232	6.578	54637.8
Ray D Mission	2007	7/7/2007	24	0.437	0.478	11.784	0.243	0.250	6.553	53957.6
Ray D Mission	2007	7/8/2007	24	0.436	0.470	11.777	0.267	0.250	7.208	53981
Ray D Mission	2007	7/9/2007	24	0.463	0.463	11.785	0.265	0.251	7.202	54366.1
Ray D Mission	2007	7/10/2007	24	0.432	0.462	11.794	0.259	0.251	7.064	54661.5
Ray D Mission	2007	7/11/2007	24	0.436	0.462	11.87	0.258	0.251	7.026	54484.4
Ray D Mission	2007	7/12/2007	24	0.438	0.462	11.9	0.262	0.251	7.105	54521.3
Ray D Mission	2007	7/13/2007	24	0.439	0.463	12.01	0.25	0.251	6.844	54684.9
Ray D Mission	2007	7/14/2007	24	0.436	0.462	11.904	0.259	0.251	7.057	54549.5
Ray D Mission	2007	7/15/2007	24	0.424	0.462	11.622	0.245	0.251	6.714	54868.8
Ray D Mission	2007	7/16/2007	24	0.419	0.460	11.471	0.244	0.251	6.696	54801.7
Ray D Mission	2007	7/17/2007	24	0.418	0.459	11.399	0.245	0.251	7.072	54970.9
Ray D Mission	2007	7/18/2007	24	0.420	0.459	11.542	0.251	0.251	6.895	54990
Ray D Mission	2007	7/19/2007	24	0.418	0.460	11.499	0.252	0.251	6.952	55024.3
Ray D Mission	2007	7/20/2007	24	0.438	0.460	11.513	0.248	0.251	6.876	54861.3
Ray D Mission	2007	7/21/2007	24	0.475	0.461	12.322	0.254	0.251	7.078	55734.6
Ray D Mission	2007	7/22/2007	24	0.473	0.462	12.029	0.243	0.251	6.696	55081.2
Ray D Mission	2007	7/23/2007	24	0.468	0.458	12.625	0.243	0.252	6.573	53992
Ray D Mission	2007	7/24/2007	24	0.469	0.453	12.937	0.234	0.252	7.288	55145.5
Ray D Mission	2007	7/25/2007	24	0.464	0.448	12.42	0.261	0.252	7.221	55294.4
Ray D Mission	2007	7/26/2007	24	0.474	0.443	12.43	0.26	0.252	6.715	53146.9
Ray D Mission	2007	7/27/2007	24	0.460	0.462	12.775	0.268	0.253	7.454	55333.6
Ray D Mission	2007	7/28/2007	24	0.454	0.443	12.504	0.26	0.254	7.167	55128.8
Ray D Mission	2007	7/29/2007	24	0.463	0.444	12.8	0.261	0.254	7.123	55335.2
Ray D Mission	2007	7/30/2007	24	0.466	0.446	12.934	0.259	0.254	7.181	54465.2
Ray D Mission	2007	7/31/2007	24	0.470	0.448	13.046	0.257	0.255	7.143	55562.1
Ray D Mission	2007	8/1/2007	24	0.466	0.447	12.841	0.256	0.255	7.053	55053.2
Ray D Mission	2007	8/2/2007	24	0.461	0.446	12.686	0.246	0.255	7.261	54982.7
Ray D Mission	2007	8/3/2007	24	0.455	0.446	12.457	0.267	0.255	7.311	54725.9
Ray D Mission	2007	8/4/2007	24	0.467	0.447	12.834	0.265	0.256	7.212	54937.4
Ray D Mission	2007	8/5/2007	24	0.466	0.448	12.682	0.272	0.257	7.396	54439.9
Ray D Mission	2007	8/6/2007	24	0.482	0.449	13.178	0.269	0.258	7.352	54639.1
Ray D Mission	2007	8/7/2007	24	0.471	0.451	13.084	0.263	0.257	7.046	54871.4
Ray D Mission	2007	8/8/2007	24	0.474	0.452	13.014	0.251	0.257	6.944	54919.3
Ray D Mission	2007	8/9/2007	24	0.441	0.454	12.494	0.241	0.256	6.578	54605.1
Ray D Mission	2007	8/10/2007	24	0.450	0.453	12.301	0.252	0.256	6.878	54619.7
Ray D Mission	2007	8/11/2007	24	0.455	0.454	12.459	0.253	0.256	6.921	54748.8
Ray D Mission	2007	8/12/2007	24	0.454	0.454	12.124	0.247	0.256	6.774	54834.3
Ray D Mission	2007	8/13/2007	24	0.488	0.456	13.221	0.238	0.255	6.458	54135.4
Ray D Mission	2007	8/14/2007	24	0.480	0.457	13.145	0.241	0.255	6.586	54729.8
Ray D Mission	2007	8/15/2007	24	0.474	0.459	13.078	0.244	0.255	6.946	54976.8
Ray D Mission	2007	8/16/2007	24	0.485	0.461	13.312	0.241	0.255	6.6	54883.3
Ray D Mission	2007	8/17/2007	24	0.487	0.463	13.378	0.242	0.255	6.921	54909.8
Ray D Mission	2007	8/18/2007	24	0.485	0.465	13.065	0.249	0.255	6.805	54711.5
Ray D Mission	2007	8/19/2007	24	0.464	0.468	12.616	0.246	0.255	6.706	54424.6
Ray D Mission	2007	8/20/2007	24	0.469	0.469	11.8	0.255	0.255	7.014	55034
Ray D Mission	2007	8/21/2007	24	0.422	0.467	11.678	0.263	0.255	7.273	55314.1
Ray D Mission	2007	8/22/2007	24	0.435	0.465	11.489	0.256	0.256	7.1	55046.3
Ray D Mission	2007	8/23/2007	24	0.417	0.464	11.566	0.254	0.255	7.028	55046.9
Ray D Mission	2007	8/24/2007	24	0.419	0.462	11.882	0.258	0.255	6.989	54140.2
Ray D Mission	2007	8/25/2007	24	0.454	0.461	12.486	0.263	0.256	7.298	54924.6
Ray D Mission	2007	8/26/2007	24	0.452	0.460	12.375	0.264	0.256	7.218	54711.7
Ray D Mission	2007	8/27/2007	24	0.463	0.460	12.637	0.254	0.255	6.923	54609.4
Ray D Mission	2007	8/28/2007	24	0.469	0.460	12.812	0.265	0.256	7.243	54873.6
Ray D Mission	2007	8/29/2007	24	0.489	0.461	13.105	0.275	0.256	7.38	53825.3
Ray D Mission	2007	8/30/2007	10.5	0.472	0.461	12.635	0.266	0.254	1.486	11164.475
Ray D Mission	2007	8/31/2007	21	0.481	0.461	12.767	0.251	0.254	4.741	36004.1
Ray D Mission	2007	9/1/2007	24	0.476	0.462	12.424	0.262	0.254	6.826	53217.3
Ray D Mission	2007	9/2/2007	24	0.461	0.462	12.975	0.263	0.253	6.834	53007.6
Ray D Mission	2007	9/3/2007	24	0.469	0.463	12.241	0.266	0.253	6.949	52245.5
Ray D Mission	2007	9/4/2007	24	0.481	0.463	12.58	0.257	0.253	6.714	53232.7
Ray D Mission	2007	9/5/2007	24	0.478	0.463	12.796	0.267	0.253	7.14	54276.8
Ray D Mission	2007	9/6/2007	24	0.474	0.463	12.848	0.269	0.253	7.292	54276.8
Ray D Mission	2007	9/7/2007	24	0.464	0.463	12.482	0.263	0.254	7.006	53703.4
Ray D Mission	2007	9/8/2007	24	0.454	0.462	12.276	0.259	0.254	6.995	54027
Ray D Mission	2007	9/9/2007	24	0.450	0.464	12.346	0.265	0.255	7.258	54849.4
Ray D Mission	2007	9/10/2007	24	0.464	0.463	12.485	0.254	0.255	7.023	53123.5
Ray D Mission	2007	9/11/2007	24	0.458	0.463	12.232	0.275	0.256	7.332	53403.8
Ray D Mission	2007	9/12/2007	24	0.452	0.463	11.694	0.257	0.256	6.652	53752.6
Ray D Mission	2007	9/13/2007	24	0.451	0.462	11.866	0.25	0.257	6.587	53997
Ray D Mission	2007	9/14/2007	24	0.448	0.461	11.811	0.264	0.257	6.964	52749.4
Ray D Mission	2007	9/15/2007	24	0.439	0.460	11.597	0.266	0.258	7.023	52774
Ray D Mission	2007	9/16/2007	24	0.451	0.458	11.906	0.273	0.258	7.202	52760.9
Ray D Mission	2007	9/17/2007	24	0.459	0.457	12.388	0.272	0.259	7.35	53885.7
Ray D Mission	2007	9/18/2007	24	0.466	0.459	11.444	0.246	0.259	6.018	53886.4
Ray D Mission	2007	9/19/2007	24	0.457	0.456	11.891	0.255	0.259	6.655	51989.3
Ray D Mission	2007	9/20/2007	24	0.460	0.457	11.658	0.239	0.258	6.066	50373.9
Ray D Mission	2007	9/21/2007	24	0.457	0.458	12.285	0.261	0.259	7.08	53784.8
Ray D Mission	2007	9/22/2007	24	0.463	0.460	12.403	0.251	0.258	6.748	53873.7
Ray D Mission	2007	9/23/2007	24	0.465	0.461	11.536	0.258	0.258	6.93	53555.3
Ray D Mission	2007	9/24/2007	24	0.503	0.463	13.444	0.282	0.259	7.527	53422.8
Ray D Mission	2007	9/25/2007	24	0.498	0.465	13.537	0.262	0.259	7.113	53454.1
Ray D Mission	2007	9/26/2007	24	0.477	0.467	12.955	0.249	0.259	6.764	53443.9
Ray D Mission	2007	9/27/2007	24	0.425	0.467	11.543	0.255	0.259	6.931	54106.1
Ray D Mission	2007	9/28/2007	24	0.434	0.466	11.878	0.248	0.258	6.87	53705.7
Ray D Mission	2007	9/29/2007	24	0.438	0.464	11.43	0.245	0.259	6.505	53769.6
Ray D Mission	2007	9/30/2007	24	0.435	0.463	10.646	0.227	0.259	5.568	48976.8
Ray D Mission	2007	10/1/2007	24	0.461	0.465	11.697	0.253	0.258	6.535	53373.9
Ray D Mission	2007	10/2/2007	24	0.494	0.460	11.399	0.262	0.258	7.109	54298.1
Ray D Mission	2007	10/3/2007	24	0.495	0.461	11.455	0.257	0.258	7.001	54414.4
Ray D Mission	2007	10/4/2007	24	0.484	0.462	11.552	0.248	0.258	6.774	53823.9
Ray D Mission	2007	10/5/2007	24	0.483	0.462	11.913	0.244	0.257	6.613	54036.1
Ray D Mission	2007	10/6/2007	24	0.482	0.463	12.039	0.248	0.256	6.801	54760.1
Ray D Mission	2007	10/7/2007	24	0.489	0.463	12.079	0.238	0.256	6.861	53099
Ray D Mission	2007	10/8/2007	24	0.490	0.464	13.116	0.228	0.255	6.107	53558.7
Ray D Mission	2007	10/9/2007	24	0.465	0.463	12.981	0.253	0.255	6.424	53723.7
Ray D Mission	2007	10/10/2007	24	0.453	0.466	12.283	0.236	0.255	7.047	54250.2
Ray D Mission	2007	10/11/2007	24	0.423	0.466	11.405	0.258	0.254	6.977	53946.5

Ray D Mission	2007	12/7/2007	24	0.515	0.509	14.142	0.257	0.257	7.064	54904.9
Ray D Mission	2007	12/20/2007	24	0.489	0.500	11.542	0.246	0.246	6.792	55226.2
Ray D Mission	2007	12/29/2007	24	0.472	0.511	13.011	0.254	0.255	6.984	55079.8
Ray D Mission	2007	12/30/2007	24	0.457	0.510	12.579	0.258	0.255	7.099	55042.9
Ray D Mission	2007	01/01/2008	24	0.510	0.510	12.773	0.249	0.255	6.831	54982
Ray D Mission	2008	1/1/2008	24	0.444	0.510	12.539	0.238	0.254	6.73	54642.1
Ray D Mission	2008	1/2/2008	24	0.461	0.509	11.147	0.256	0.254	7.32	57082
Ray D Mission	2008	1/3/2008	24	0.397	0.509	11.301	0.252	0.254	7.193	57128
Ray D Mission	2008	1/4/2008	24	0.427	0.507	12.034	0.254	0.254	7.183	56138.3
Ray D Mission	2008	1/4/2008	24	0.444	0.506	12.286	0.245	0.253	6.79	54020.9
Ray D Mission	2008	1/6/2008	24	0.448	0.505	10.788	0.229	0.252	5.57	48129.6
Ray D Mission	2008	1/7/2008	24	0.463	0.504	12.677	0.249	0.252	6.807	54727.6
Ray D Mission	2008	1/8/2008	24	0.501	0.501	12.871	0.247	0.253	6.843	53372.4
Ray D Mission	2008	1/9/2008	24	0.441	0.499	12.347	0.271	0.254	7.572	55971.8
Ray D Mission	2008	1/10/2008	24	0.446	0.485	12.539	0.267	0.253	7.525	56430.7
Ray D Mission	2008	1/11/2008	24	0.459	0.480	12.787	0.254	0.252	7.068	54746.4
Ray D Mission	2008	1/12/2008	24	0.446	0.485	12.411	0.259	0.251	6.654	55708.7
Ray D Mission	2008	1/13/2008	24	0.465	0.480	12.999	0.24	0.250	6.719	55917.5
Ray D Mission	2008	1/14/2008	24	0.469	0.476	12.956	0.236	0.250	6.523	55256
Ray D Mission	2008	1/15/2008	24	0.467	0.472	13.052	0.247	0.250	6.9	55886.4
Ray D Mission	2008	1/16/2008	24	0.442	0.468	12.426	0.227	0.250	5.999	55008.7
Ray D Mission	2008	1/17/2008	24	0.450	0.463	12.487	0.277	0.251	7.699	55527.5
Ray D Mission	2008	1/18/2008	24	0.446	0.460	12.228	0.252	0.251	6.902	54779.8
Ray D Mission	2008	1/19/2008	24	0.437	0.460	11.93	0.25	0.252	6.821	54642.9
Ray D Mission	2008	1/20/2008	24	0.453	0.460	12.584	0.254	0.252	7.043	55502.2
Ray D Mission	2008	1/21/2008	24	0.459	0.460	12.038	0.279	0.250	5.082	54776.2
Ray D Mission	2008	1/22/2008	24	0.459	0.461	12.889	0.24	0.249	6.732	56121.2
Ray D Mission	2008	1/23/2008	24	0.459	0.460	12.41	0.244	0.249	6.709	54904.6
Ray D Mission	2008	1/24/2008	24	0.461	0.459	12.71	0.224	0.248	6.186	55132.8
Ray D Mission	2008	1/25/2008	24	0.447	0.457	12.504	0.234	0.247	6.716	55972.9
Ray D Mission	2008	1/26/2008	24	0.414	0.455	11.542	0.241	0.247	6.765	55716.3
Ray D Mission	2008	1/27/2008	24	0.411	0.452	11.567	0.251	0.247	7.059	56352.1
Ray D Mission	2008	1/28/2008	24	0.429	0.449	11.88	0.263	0.247	7.277	55330.9
Ray D Mission	2008	1/29/2008	24	0.448	0.448	11.672	0.259	0.247	6.959	54669.2
Ray D Mission	2008	1/30/2008	24	0.432	0.446	12.185	0.249	0.247	7.029	56474.6
Ray D Mission	2008	1/31/2008	24	0.453	0.445	12.801	0.252	0.248	7.117	56495.3
Ray D Mission	2008	2/1/2008	24	0.464	0.446	13.12	0.25	0.248	7.071	56806.4
Ray D Mission	2008	2/2/2008	24	0.464	0.446	13.141	0.257	0.248	7.269	56641.9
Ray D Mission	2008	2/3/2008	24	0.469	0.448	13.188	0.266	0.248	7.479	56245.5
Ray D Mission	2008	2/4/2008	24	0.488	0.449	13.779	0.262	0.249	7.413	56527.9
Ray D Mission	2008	2/5/2008	24	0.520	0.451	14.838	0.251	0.249	7.159	57025.6
Ray D Mission	2008	2/6/2008	24	0.463	0.453	14.823	0.262	0.250	7.087	56332.4
Ray D Mission	2008	2/7/2008	24	0.471	0.455	14.933	0.237	0.252	8.179	56048.3
Ray D Mission	2008	2/8/2008	24	0.462	0.462	13.078	0.446	0.258	11.42	55142.6
Ray D Mission	2008	2/9/2008	24	0.508	0.462	13.003	0.424	0.263	10.864	55250.4
Ray D Mission	2008	2/10/2008	24	0.837	0.493	21.708	0.41	0.268	10.614	53865.8
Ray D Mission	2008	2/11/2008	24	0.505	0.505	16.065	0.324	0.271	5.487	54773.5
Ray D Mission	2008	2/12/2008	24	0.920	0.510	20.577	0.444	0.278	11.383	51265.8
Ray D Mission	2008	2/13/2008	24	0.967	0.525	24.917	0.456	0.285	11.754	51124.3
Ray D Mission	2008	2/14/2008	24	0.600	0.542	16.253	0.302	0.287	8.19	54782.9
Ray D Mission	2008	2/15/2008	24	0.549	0.546	14.997	0.291	0.288	7.944	54939.8
Ray D Mission	2008	2/16/2008	24	0.589	0.550	16.673	0.286	0.288	8.002	54025.9
Ray D Mission	2008	2/17/2008	24	0.538	0.554	15.828	0.286	0.289	7.715	53908.1
Ray D Mission	2008	2/18/2008	24	0.584	0.559	15.702	0.291	0.291	7.825	53809.9
Ray D Mission	2008	2/19/2008	24	0.564	0.554	15.655	0.279	0.293	7.671	54980
Ray D Mission	2008	2/20/2008	24	0.515	0.567	14.161	0.278	0.295	7.627	54967.6
Ray D Mission	2008	2/21/2008	24	0.484	0.569	13.317	0.282	0.296	7.212	55071.9
Ray D Mission	2008	2/22/2008	24	0.484	0.572	13.109	0.279	0.297	7.224	54949.4
Ray D Mission	2008	2/23/2008	24	0.521	0.571	14.044	0.287	0.299	7.757	53934.6
Ray D Mission	2008	2/24/2008	24	0.573	0.573	15.582	0.296	0.301	8.023	54296.1
Ray D Mission	2008	2/25/2008	24	0.437	0.577	12.098	0.257	0.301	7.129	54340
Ray D Mission	2008	2/26/2008	24	0.419	0.578	11.652	0.243	0.301	6.767	55044.8
Ray D Mission	2008	2/27/2008	24	0.435	0.578	11.86	0.255	0.301	7.018	54936.6
Ray D Mission	2008	2/28/2008	24	0.465	0.578	12.575	0.244	0.300	6.986	54036
Ray D Mission	2008	2/29/2008	24	0.547	0.580	14.551	0.264	0.301	7.518	53179.6
Ray D Mission	2008	3/1/2008	24	0.544	0.584	14.402	0.266	0.301	7.322	53244.7
Ray D Mission	2008	3/2/2008	24	0.495	0.586	13.7	0.263	0.302	7.282	53129.2
Ray D Mission	2008	3/3/2008	24	0.567	0.587	13.889	0.252	0.302	7.185	53754.5
Ray D Mission	2008	3/4/2008	24	0.473	0.588	13.183	0.24	0.301	6.696	53763.9
Ray D Mission	2008	3/5/2008	24	0.461	0.588	12.904	0.241	0.300	6.751	53904.1
Ray D Mission	2008	3/6/2008	24	0.462	0.587	13.017	0.238	0.300	6.874	53971.1
Ray D Mission	2008	3/7/2008	24	0.458	0.585	12.818	0.236	0.299	6.6	56005.9
Ray D Mission	2008	3/8/2008	24	0.460	0.583	12.688	0.25	0.296	6.936	54920.3
Ray D Mission	2008	3/9/2008	24	0.446	0.576	12.368	0.241	0.290	6.704	55641.9
Ray D Mission	2008	3/10/2008	24	0.448	0.560	12.47	0.248	0.284	6.905	55645.2
Ray D Mission	2008	3/11/2008	24	0.545	0.559	12.683	0.254	0.279	7.023	53701.7
Ray D Mission	2008	3/12/2008	24	0.457	0.533	12.569	0.257	0.277	7.064	55050
Ray D Mission	2008	3/13/2008	24	0.462	0.528	12.852	0.269	0.271	7.479	54689.4
Ray D Mission	2008	3/14/2008	24	0.471	0.513	13.073	0.263	0.264	7.289	55001.1
Ray D Mission	2008	3/15/2008	24	0.452	0.496	12.553	0.264	0.263	7.338	55497.6
Ray D Mission	2008	3/16/2008	24	0.462	0.482	12.053	0.273	0.263	7.637	54939.3
Ray D Mission	2008	3/17/2008	24	0.430	0.488	12.009	0.276	0.262	7.71	55797.6
Ray D Mission	2008	3/18/2008	24	0.431	0.483	12.027	0.258	0.261	7.197	55803.2
Ray D Mission	2008	3/19/2008	24	0.477	0.477	11.848	0.24	0.258	6.657	53557
Ray D Mission	2008	3/20/2008	24	0.440	0.472	12.138	0.246	0.258	6.805	53424.4
Ray D Mission	2008	3/21/2008	24	0.458	0.468	12.241	0.244	0.257	6.884	54767.8
Ray D Mission	2008	3/22/2008	24	0.457	0.466	12.568	0.239	0.256	6.577	53081.4
Ray D Mission	2008	3/23/2008	24	0.458	0.466	12.59	0.246	0.255	6.765	54952.4
Ray D Mission	2008	3/24/2008	24	0.447	0.465	12.246	0.245	0.254	6.701	54765.8
Ray D Mission	2008	3/25/2008	24	0.427	0.462	11.879	0.262	0.253	7.303	55661.8
Ray D Mission	2008	3/26/2008	24	0.433	0.467	11.914	0.241	0.252	6.625	55025.7
Ray D Mission	2008	3/27/2008	24	0.437	0.461	11.993	0.253	0.252	6.949	54946
Ray D Mission	2008	3/28/2008	24	0.427	0.458	11.709	0.248	0.252	6.822	54897.6
Ray D Mission	2008	3/29/2008	24	0.418	0.458	11.735	0.261	0.253	7.323	56087.7
Ray D Mission	2008	3/30/2008	24	0.456	0.456	11.48	0.262	0.253	7.204	54914.2
Ray D Mission	2008	3/31/2008	24	0.421	0.452	11.558	0.259	0.253	7.107	54883.2
Ray D Mission	2008	4/1/2008	24	0.448	0.455	11.575	0.241	0.252	6.653	54903.6
Ray D Mission	2008	4/2/2008	24	0.430	0.446	11.528	0.246	0.251	6.593	53564.7
Ray D Mission	2008	4/3/2008	24	0.424	0.444	11.549	0.246	0.252	6.691	54449.1
Ray D Mission	2008	4/4/2008	24	0.432	0.442	11.509	0.239	0.252	6.712	54402.9
Ray D Mission	2008	4/5/2008	24	0.438	0.441	11.678	0.247	0.252	6.732	54601.9
Ray D Mission	2008	4/6/2008	24	0.460	0.440	11.029	0.251	0.252	6.709	53706.3
Ray D Mission	2008	4/7/2008	24	0.467	0.439	12.682	0.246	0.252	6.668	54909.6
Ray D Mission	2008	4/8/2008	24	0.477	0.440	12.961	0.25	0.252	6.8	54329.2
Ray D Mission	2008	4/9/2008	24	0.441	0.441	12.756	0.26	0.253	7.09	54551.9
Ray D Mission	2008	4/10/2008	24	0.473	0.442	12.979	0.257	0.253	7.041	54884.7
Ray D Mission	2008	4/11/2008	24	0.474	0.442	12.85	0.247	0.252	6.583	54676.4
Ray D Mission	2008</									

Ray D Mission	2008	6/7/2008	24	0.429	0.442	8.974	0.237	0.253	5.654	46480.3
Ray D Mission	2008	6/7/2008	24	0.441	0.441	11.915	0.247	0.253	6.79	56180.7
Ray D Mission	2008	6/9/2008	24	0.424	0.439	11.822	0.243	0.253	6.79	55912.1
Ray D Mission	2008	6/9/2008	24	0.434	0.439	12.206	0.246	0.253	6.922	56337.9
Ray D Mission	2008	7/1/2008	24	0.439	0.441	11.993	0.249	0.252	6.782	56425.4
Ray D Mission	2008	7/1/2008	24	0.443	0.440	10.982	0.233	0.252	6.357	49532.4
Ray D Mission	2008	7/3/2008	24	0.439	0.440	12.392	0.236	0.252	7.331	56475.1
Ray D Mission	2008	7/4/2008	24	0.442	0.442	11.469	0.246	0.252	7.425	56311
Ray D Mission	2008	7/5/2008	24	0.452	0.440	12.631	0.236	0.252	7.28	55902.1
Ray D Mission	2008	7/6/2008	24	0.440	0.446	12.882	0.246	0.252	7.13	56277
Ray D Mission	2008	7/7/2008	24	0.429	0.440	11.985	0.254	0.252	7.089	55809.9
Ray D Mission	2008	7/8/2008	24	0.421	0.439	11.725	0.267	0.253	7.448	55720.1
Ray D Mission	2008	7/9/2008	24	0.439	0.439	11.529	0.263	0.253	7.332	55884.7
Ray D Mission	2008	7/10/2008	24	0.411	0.438	11.539	0.257	0.252	7.197	56120.9
Ray D Mission	2008	7/11/2008	24	0.438	0.437	11.53	0.262	0.252	7.395	56025.4
Ray D Mission	2008	7/12/2008	24	0.384	0.436	10.728	0.24	0.252	6.726	55931.5
Ray D Mission	2008	7/13/2008	24	0.403	0.435	10.49	0.24	0.252	6.772	56274.7
Ray D Mission	2008	7/14/2008	24	0.383	0.432	10.774	0.247	0.252	6.946	56239.9
Ray D Mission	2008	7/15/2008	24	0.383	0.431	10.63	0.255	0.252	7.08	55576.4
Ray D Mission	2008	7/16/2008	24	0.373	0.430	10.539	0.254	0.252	7.154	56494
Ray D Mission	2008	7/17/2008	24	0.371	0.427	10.617	0.246	0.252	7.065	55162.3
Ray D Mission	2008	7/18/2008	24	0.372	0.424	10.163	0.25	0.252	6.852	54634.4
Ray D Mission	2008	7/19/2008	24	0.382	0.421	8.701	0.244	0.252	5.843	45287.8
Ray D Mission	2008	7/20/2008	24	0.421	0.419	11.402	0.244	0.252	6.828	54516.9
Ray D Mission	2008	7/21/2008	24	0.421	0.417	11.834	0.254	0.253	7.149	56242.5
Ray D Mission	2008	7/22/2008	24	0.414	0.417	11.665	0.268	0.253	7.555	56387.2
Ray D Mission	2008	7/23/2008	24	0.412	0.416	11.489	0.269	0.253	7.498	55709
Ray D Mission	2008	7/24/2008	24	0.429	0.415	12.028	0.262	0.253	7.355	56136.8
Ray D Mission	2008	7/25/2008	24	0.469	0.415	13.058	0.259	0.254	7.208	56085.5
Ray D Mission	2008	7/26/2008	24	0.475	0.416	13.274	0.254	0.254	7.099	55866.1
Ray D Mission	2008	7/27/2008	24	0.474	0.418	13.063	0.262	0.255	7.244	55277.6
Ray D Mission	2008	7/28/2008	24	0.442	0.419	12.384	0.271	0.255	7.596	55993.9
Ray D Mission	2008	7/29/2008	24	0.417	0.420	11.761	0.258	0.256	7.566	56438.9
Ray D Mission	2008	7/30/2008	24	0.419	0.419	11.841	0.26	0.257	7.281	56075.4
Ray D Mission	2008	7/31/2008	24	0.432	0.419	12.216	0.273	0.258	7.737	56611.9
Ray D Mission	2008	8/1/2008	24	0.415	0.419	11.672	0.254	0.258	7.134	56023.7
Ray D Mission	2008	8/2/2008	24	0.418	0.418	11.624	0.253	0.257	7.137	56324.5
Ray D Mission	2008	8/3/2008	24	0.408	0.417	11.489	0.247	0.257	6.951	56333.3
Ray D Mission	2008	8/4/2008	24	0.407	0.416	11.597	0.257	0.257	7.27	56125.3
Ray D Mission	2008	8/5/2008	24	0.422	0.414	11.935	0.258	0.256	7.301	56335.6
Ray D Mission	2008	8/6/2008	24	0.432	0.413	12.343	0.263	0.257	7.503	57025.8
Ray D Mission	2008	8/7/2008	24	0.442	0.413	12.713	0.263	0.257	7.694	57881.1
Ray D Mission	2008	8/8/2008	24	0.443	0.414	12.703	0.266	0.257	7.643	57766.7
Ray D Mission	2008	8/9/2008	24	0.436	0.415	12.466	0.263	0.257	7.525	57288.2
Ray D Mission	2008	8/10/2008	24	0.431	0.416	12.323	0.264	0.257	7.545	5749.9
Ray D Mission	2008	8/11/2008	24	0.426	0.417	12.004	0.254	0.258	7.179	56420.7
Ray D Mission	2008	8/12/2008	24	0.418	0.418	12.071	0.268	0.258	7.576	56938.8
Ray D Mission	2008	8/13/2008	24	0.423	0.420	11.891	0.26	0.259	7.306	56235.8
Ray D Mission	2008	8/14/2008	24	0.430	0.421	12.104	0.258	0.259	7.264	56114.3
Ray D Mission	2008	8/15/2008	24	0.450	0.423	12.694	0.264	0.259	7.43	56376.1
Ray D Mission	2008	8/16/2008	24	0.454	0.425	12.859	0.269	0.260	7.624	56667.1
Ray D Mission	2008	8/17/2008	24	0.448	0.428	12.964	0.27	0.261	7.675	56831.7
Ray D Mission	2008	8/18/2008	24	0.458	0.431	13.827	0.265	0.261	7.513	56623.2
Ray D Mission	2008	8/19/2008	24	0.444	0.433	12.247	0.269	0.262	7.41	55509.8
Ray D Mission	2008	8/20/2008	24	0.464	0.434	14.061	0.268	0.263	7.458	55488.6
Ray D Mission	2008	8/21/2008	24	0.461	0.435	12.944	0.259	0.262	7.282	56215.8
Ray D Mission	2008	8/22/2008	24	0.465	0.437	13.174	0.264	0.262	7.482	56666.6
Ray D Mission	2008	8/23/2008	24	0.457	0.438	12.995	0.261	0.262	7.426	56815.1
Ray D Mission	2008	8/24/2008	24	0.443	0.439	12.579	0.267	0.262	7.297	56773
Ray D Mission	2008	8/25/2008	24	0.438	0.439	12.538	0.267	0.263	7.44	57223.3
Ray D Mission	2008	8/26/2008	24	0.450	0.437	12.832	0.272	0.263	7.767	57026.6
Ray D Mission	2008	8/27/2008	24	0.437	0.436	12.47	0.278	0.263	7.948	57115
Ray D Mission	2008	8/28/2008	24	0.431	0.436	12.294	0.263	0.263	7.449	57033.6
Ray D Mission	2008	8/29/2008	24	0.435	0.437	12.355	0.271	0.263	7.714	56856.8
Ray D Mission	2008	8/30/2008	24	0.458	0.437	13.025	0.263	0.263	7.463	56811.4
Ray D Mission	2008	8/31/2008	24	0.512	0.438	14.143	0.261	0.263	7.212	55225.1
Ray D Mission	2008	9/1/2008	24	0.501	0.441	14.125	0.265	0.264	7.479	56384.6
Ray D Mission	2008	9/2/2008	24	0.444	0.444	13.769	0.255	0.264	7.074	56335.1
Ray D Mission	2008	9/3/2008	24	0.487	0.447	13.43	0.269	0.264	7.419	55190.2
Ray D Mission	2008	9/4/2008	24	0.467	0.450	12.987	0.274	0.265	7.633	55631.3
Ray D Mission	2008	9/5/2008	22:03	0.451	0.458	13.466	0.241	0.264	7.922	56192.3
Ray D Mission	2008	9/6/2008	24	0.442	0.452	12.852	0.274	0.263	4.917	39170.9
Ray D Mission	2008	9/7/2008	24	0.456	0.452	12.355	0.26	0.265	7.051	54228
Ray D Mission	2008	9/8/2008	24	0.462	0.453	12.622	0.264	0.263	7.196	54657.9
Ray D Mission	2008	9/9/2008	24	0.455	0.453	12.488	0.258	0.263	7.096	54906.9
Ray D Mission	2008	9/10/2008	24	0.454	0.454	11.848	0.266	0.263	7.366	55311.3
Ray D Mission	2008	9/11/2008	24	0.430	0.454	11.922	0.265	0.263	7.363	55468.6
Ray D Mission	2008	9/12/2008	24	0.430	0.454	11.983	0.271	0.264	7.549	55655.7
Ray D Mission	2008	9/13/2008	24	0.459	0.455	11.963	0.27	0.264	7.332	55752.9
Ray D Mission	2008	9/14/2008	24	0.437	0.455	12.046	0.26	0.264	7.175	55151
Ray D Mission	2008	9/15/2008	24	0.440	0.454	12.287	0.263	0.264	7.351	55615.9
Ray D Mission	2008	9/16/2008	24	0.428	0.454	11.992	0.257	0.263	7.205	56037.3
Ray D Mission	2008	9/17/2008	24	0.431	0.453	11.992	0.263	0.263	7.32	55640.5
Ray D Mission	2008	9/18/2008	24	0.431	0.452	12.068	0.257	0.263	7.198	55988
Ray D Mission	2008	9/19/2008	24	0.432	0.452	12.063	0.268	0.263	7.489	55886.6
Ray D Mission	2008	9/20/2008	24	0.442	0.451	12.491	0.263	0.263	7.363	55900.5
Ray D Mission	2008	9/21/2008	24	0.445	0.450	12.42	0.266	0.263	7.577	55777
Ray D Mission	2008	9/22/2008	24	0.447	0.450	12.293	0.273	0.263	7.604	55645.7
Ray D Mission	2008	9/23/2008	24	0.439	0.449	12.073	0.281	0.264	7.739	55130.1
Ray D Mission	2008	9/24/2008	24	0.424	0.449	11.721	0.268	0.264	7.41	55249.2
Ray D Mission	2008	9/25/2008	24	0.414	0.449	11.58	0.27	0.264	7.556	55878.5
Ray D Mission	2008	9/26/2008	24	0.434	0.447	11.963	0.26	0.263	7.175	55192.3
Ray D Mission	2008	9/27/2008	24	0.450	0.447	12.524	0.258	0.263	7.182	55601.9
Ray D Mission	2008	9/28/2008	24	0.448	0.448	12.373	0.266	0.263	7.415	55791.1
Ray D Mission	2008	9/29/2008	24	0.436	0.448	12.03	0.274	0.264	7.581	55188.2
Ray D Mission	2008	9/30/2008	24	0.423	0.448	11.705	0.271	0.264	7.515	55364.2
Ray D Mission	2008	10/1/2008	24	0.445	0.445	12.961	0.273	0.264	7.579	55480.1
Ray D Mission	2008	10/2/2008	24	0.486	0.444	13.772	0.273	0.265	7.392	54574.7
Ray D Mission	2008	10/3/2008	24	0.462	0.443	13.401	0.273	0.265	7.59	55649.9
Ray D Mission	2008	10/4/2008	24	0.477	0.443	13.192	0.273	0.265	7.53	55314.7
Ray D Mission	2008	10/5/2008	24	0.441	0.443	12.609	0.266	0.266	7.315	54908.9
Ray D Mission	2008	10/6/2008	24	0.439	0.444	12.078	0.264	0.266	7.256	55111.6
Ray D Mission	2008	10/7/2008	24	0.443	0.443	12.286	0.256	0.266	7.09	54661.6
Ray D Mission	2008	10/8/2008	24	0.438	0.443	12.175	0.259	0.266	7.201	55572.3
Ray D Mission	2008	10/9/2008	24	0.442	0.442	11.747	0.258	0.266	6.946	53772.4
Ray D Mission	2008	10/10/2008	24	0.440	0.442	11.995	0.256	0.266	6.982	54529.9
Ray D Mission	2008	10/11/2008	24	0.446	0.442	12.308	0.258	0.265	7.12	55243
Ray D Mission	2008									

Ray D Nixon	2008	12/27/2008	24	0.435	0.446	12.262	0.264	0.265	7.451	56381.4
Ray D Nixon	2008	12/28/2008	24	0.427	0.445	12.082	0.259	0.265	7.252	56371.1
Ray D Nixon	2008	12/29/2008	24	0.427	0.443	12.172	0.263	0.265	7.483	56370.7
Ray D Nixon	2008	12/30/2008	24	0.426	0.442	11.641	0.24	0.264	6.564	56359.3
Ray D Nixon	2008	12/31/2008	24	0.431	0.440	12.146	0.246	0.264	6.929	56339.5

CSU NIXON SO2 COST ANALYSIS

Alternative	Control Efficiency (%)	Resultant Emissions		
		Unit 1		
		(tons/year)	Annual Average (lb/MMBtu)	30-day Rolling Average (lb/MMBtu)
Baseline	---	4,121	0.453	
DSI	60	1,649	0.181	0.190
Dry FGD (LSD) @ 78% control	78	907	0.100	0.105
Dry FGD (LSD) @ 84.5% control	84.5	639	0.070	0.074

UNIT 1				
Alternative	Emissions Reduction (tpy)	Annualized Cost (\$)	Cost Effectiveness (\$/ton)	Incremental Cost (\$/ton)
Baseline	0	\$0	\$0	---
DSI	2,472.8	\$4,938,692	\$1,997	\$1,997
Dry FGD (LSD) @ 78% control	3,214.7	\$12,036,604	\$3,744	\$9,568
Dry FGD (LSD) @ 84.5% control	3,482.5	\$14,125,453	\$4,056	\$7,797

Control Method	Unit(s)	Proposed Limit (@ 98 th Percentile Impact)	98 th Percentile Impact Improvement	98 th Percentile Improvement from Maximum	Cost Effectiveness
		(deciviews)	(deciviews)	(%)	(\$/deciview)
Max 24-hr SO ₂ rates	1	0.914			---
DSI @ 0.18 lb/MMBtu	1	0.48	0.44	48%	\$11,249,869
LSD @ 0.10 lb/MMBtu	1	0.46	0.46	50%	\$26,454,076
LSD @ 0.070 lb/MMBtu	1	0.42	0.50	55%	\$28,307,522

Max 24-hr SO₂ rates 0.96719412 lb/MMBtu

SO ₂ BART Control Limit	Unit(s)	Class I Area Affected	3-year totals			3-year totals		
			Pre-Control Days >0.5 dv	Post-Control Days >0.5 dv	Δdays	Pre-Control Days >1.0 dv	Post-Control Days >1.0 dv	Δdays
Max 24-hr SO ₂ rates	1	RMNP	17	---	---	6	---	---
DSI @ 0.19 lb/MMBtu	1		17	6	11	6	1	5
LSD @ 0.10 lb/MMBtu	1		17	6	11	6	1	5
LSD @ 0.08 lb/MMBtu	1		17	6	11	6	1	5

CSU Nixon DSI COSTS (based on CENC and CSU-Drake cost estimates)

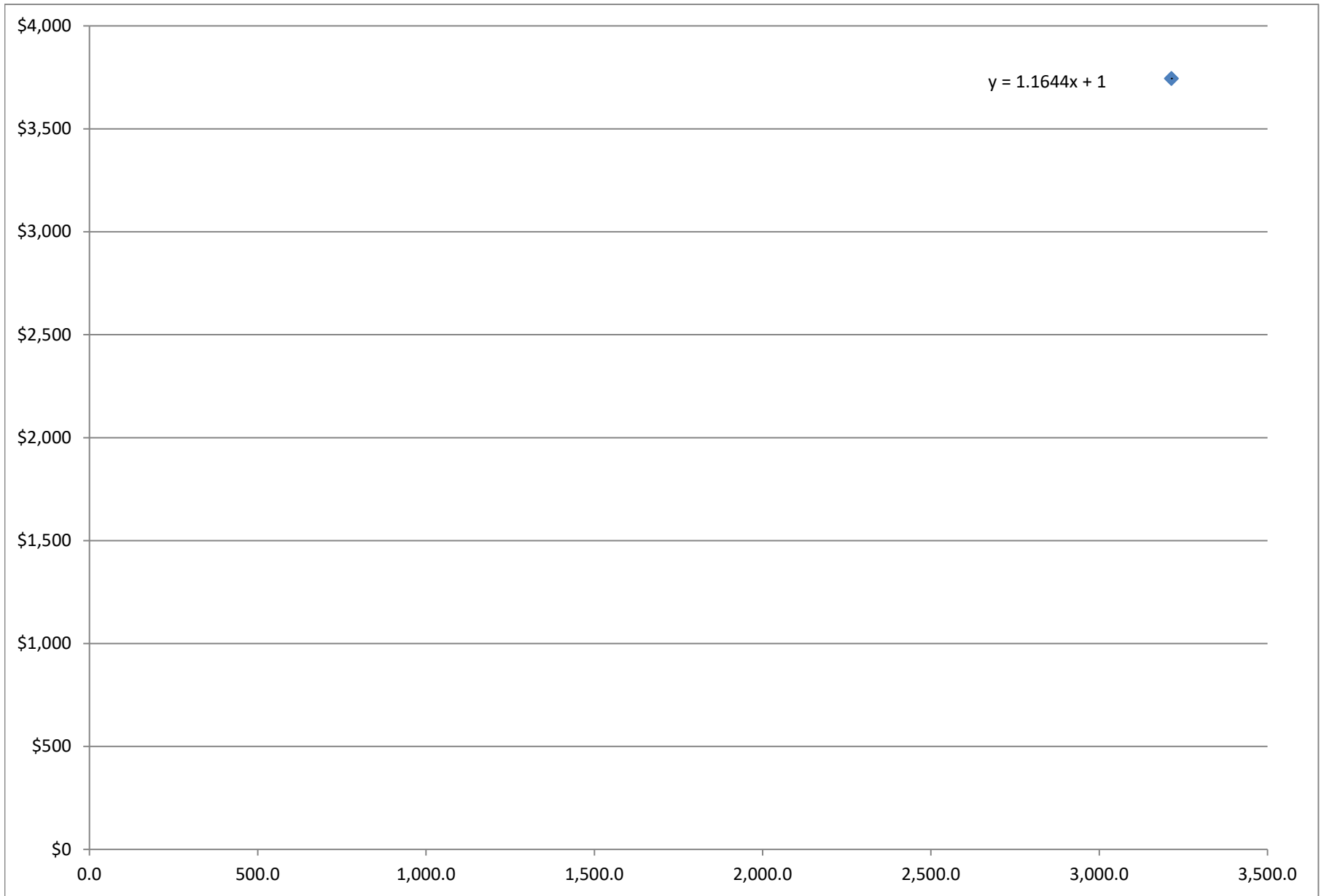
DIVISION'S CALCULATIONS

Capital Costs				
Trona - DSI				
SCALING		SIZE	CAPITAL COSTS	
CEN Boiler 4		35	\$ 6,111,180	
CEN Boiler 5		65	\$ 6,111,180	
Drake Unit 5		51	\$ 6,000,000	rough estimate based on comparison to similarly sized DSI systems; informal estimate by DSI vendor, order of magnitude estimate for BOP
Nixon Unit 1		225	\$ 21,154,085	BASED ON SCALING FROM CEN BOILER 5
Mercury removal capital costs			\$ 850,000	previously provided to APCD in BART analysis for Drake power plant - ASSUME SAME FOR NIXON
TOTAL CAPITAL COSTS			\$ 22,004,085	
O&M Costs				
Annual Trona Costs		\$	516,488	Calculated based on SO2 controlled and injection ratios from PCC Industries and cost of Trona (\$125-130/ton)
Annual Disposal Costs				
Annual Electrical Costs				
Operating Labor				
Supervisor				
Maintenance Labor				
Maintenance Materials		\$	2,200,408	estimated as 10% of capital cost
Overhead				
Property Tax				
Insurance				
Administration				
Mercury removal cost		\$	225,000	previously provided to APCD in BART analysis for Drake power plant - ASSUME SAME FOR NIXON
Capital Recovery		\$	1,996,796	7%, 20 years
Original Annualized Costs		\$	4,938,692	
COMPARISON (Annualized to total)			22%	

CSU semi-dry FGD COSTS

PROVIDED IN SO2 FEASIBILITY SUBMITTAL (February 20, 2009)

	CAPITAL COSTS		Nixon Unit 1	
Reagent Feed System		\$	13,350,000	
SO2 Removal System		\$	26,040,000	
Flue Gas System		\$	14,760,000	
Solids Handling		\$	1,770,000	
General Support Equipment		\$	1,390,000	
Miscellaneous Equipment		\$	2,210,000	
subtotal		\$	59,520,000	
Engineering & Project Management		\$	11,900,000	
Contingencies		\$	12,600,000	
Preproduction Costs		\$	2,240,000	
Inventory Capital		\$	50,000	
Initial Catalyst and Chemicals		\$	-	
Prepaid Royalties (Owner's Cost)		\$	1,110,000	
Market Demand Escalation		\$	8,740,000	
TOTAL CAPITAL COST		\$	96,160,000	
	O&M COSTS			
TOTAL FIXED O&M COSTS		\$	2,650,000	
TOTAL VARIABLE O&M COSTS		\$	1,340,000	
Capital Recovery		\$	8,046,604	5.5%, 20 years
TOTAL ANNUALIZED COST		\$	12,036,604	



CSU NIXON NOx COST ANALYSIS

Alternative	Control Efficiency (%)	Resultant Emissions			0.214	UNIT 1				
		Unit 1				Alternative	Emissions Reduction (tpy)	Annualized Cost (\$)	Cost Effectiveness (\$/ton)	Incremental Cost (\$/ton)
		Annual Emissions (tons/year)	Annual Average (lb/MMBtu)	30-day rolling (lb/MMBtu)						
Baseline	---	2,357	0.258		Baseline	0	\$0	\$0	---	
Ultra-low NOx burners (ULNBs)	20	1,885	0.206	0.24	Ultra-low NOx burners (ULNBs)	471	\$567,000	\$1,203	\$1,203	
Overfire air (OFA)	25	1,768	0.194	0.22	Overfire air (OFA)	589	\$403,000	\$684	(\$1,392)	
Selective Non-Catalytic Reduction (SNCR)	30	1,650	0.181	0.21	Ultra-low NOx burners (ULNBs) + OFA	707	\$970,000	\$1,372	\$4,812	
Ultra-low NOx burners (ULNBs) + OFA	30	1,650	0.181	0.21	Selective Non-Catalytic Reduction (SNCR)	707	\$3,226,877	\$4,564	---	
ULNB+SCR	73	636	0.070	0.080	ULNB+SCR	1,720.4	\$11,007,000	\$6,398	\$7,677	
Selective Catalytic Reduction (SCR)	73	636	0.070	0.080	Selective Catalytic Reduction (SCR)	1,720	\$11,010,000	\$6,400	---	

	SNCR Scaling	MW	Annual Cost
Drake Unit 7		142	\$2,018,575
Nixon Unit 1		227	\$3,226,877

Control Method	Unit(s)	Proposed Limit (@ 98 th Percentile Impact) (deciviews)	Cost Effectiveness		
			98 th Percentile Impact Improvement (deciviews)	98 th Percentile Improvement from Maximum (%)	(\$/deciview)
Max 24-hour NOx rates	1	0.91	---	---	---
ULNBs @ 0.21 lb/MMBtu	1	0.77	0.15	16%	\$3,831,081
OFA @ 0.19 lb/MMBtu	1	0.76	0.15	17%	\$2,616,883
ULNBs+OFA @ 0.18 lb/MMBtu	1	0.75	0.16	18%	\$6,024,845
SNCR @ 0.18 lb/MMBtu	1	0.75	0.16	18%	\$20,042,714
SCR @ 0.07 lb/MMBtu	1	0.68	0.24	26%	\$46,639,831

Max 24-hour NOx rates 0.4740 lb/MMBtu

NOx RP Control Scenario	Unit(s)	Class 1 Area Affected	3-year totals		Adays	3-year totals		Adays
			Pre-Control Days >=0.5 dv	Post-Control Days >=0.5 dv		Pre-Control Days >1.0 dv	Post-Control Days >1.0 dv	
			Max 24-hour NOx rates	1		RMNP	17	
ULNBs @ 0.21 lb/MMBtu	1	17	15	2	6		4	2
OFA @ 0.19 lb/MMBtu	1	17	15	2	6		4	2
SNCR @ 0.18 lb/MMBtu	1	17	15	5	6		4	2
SCR @ 0.07 lb/MMBtu	1	17	12	12	6		3	3