

**CCOS EMISSION REDUCTIONS BY RULE, v2.11**  
 December 8, 2003

Page 1 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
AV	ARB	TRAINS	TRAINS EPA MOU	2000	NOX		3.45040404	0.99	0.03450404
AV	ARB	TRAINS	TRAINS EPA MOU	2001	NOX		3.50452632	0.95	0.175226316
AV	ARB	TRAINS	TRAINS EPA MOU	2002	NOX		3.5558427	0.89	0.391142697
AV	ARB	TRAINS	TRAINS EPA MOU	2003	NOX		3.61268293	0.82	0.650282927
AV	ARB	TRAINS	TRAINS EPA MOU	2004	NOX		3.66947368	0.76	0.880673684
AV	ARB	TRAINS	TRAINS EPA MOU	2005	PM	1	0.088541667	0.96	0.003541667
AV	ARB	TRAINS	TRAINS EPA MOU	2005	NOX		3.72617647	0.68	1.19237647
AV	ARB	TRAINS	TRAINS EPA MOU	2005	TOG	0.8785	0.178125	0.96	0.007125
AV	ARB	TRAINS	TRAINS EPA MOU	2006	PM	1	0.089891304	0.92	0.007191304
AV	ARB	TRAINS	TRAINS EPA MOU	2006	NOX		3.78571429	0.63	1.40071429
AV	ARB	TRAINS	TRAINS EPA MOU	2006	TOG	0.8785	0.180967742	0.93	0.012667742
AV	ARB	TRAINS	TRAINS EPA MOU	2007	PM	1	0.091348315	0.89	0.010048315
AV	ARB	TRAINS	TRAINS EPA MOU	2007	NOX		3.84525424	0.59	1.57655424
AV	ARB	TRAINS	TRAINS EPA MOU	2007	TOG	0.8785	0.183888889	0.9	0.018388889
AV	ARB	TRAINS	TRAINS EPA MOU	2008	PM	1	0.092790698	0.86	0.012990698
AV	ARB	TRAINS	TRAINS EPA MOU	2008	NOX		3.90473684	0.57	1.67903684
AV	ARB	TRAINS	TRAINS EPA MOU	2008	TOG	0.8785	0.186666667	0.87	0.024266667
AV	ARB	TRAINS	TRAINS EPA MOU	2009	PM	1	0.094285714	0.84	0.015085714
AV	ARB	TRAINS	TRAINS EPA MOU	2009	NOX		3.96690909	0.55	1.78510909
AV	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	0.189642857	0.84	0.030342857
AV	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	0.095731707	0.82	0.017231707
AV	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		4.03185185	0.54	1.85465185
AV	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	0.192804878	0.82	0.034704878
AV	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	0.098607595	0.79	0.020707595
AV	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		4.15339623	0.53	1.95209623
AV	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	0.198625	0.8	0.039725
AV	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	0.1032	0.75	0.0258
AV	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		4.3454902	0.51	2.1292902
AV	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	0.207763158	0.76	0.049863158
AV	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	0.108028169	0.71	0.031328169
AV	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		4.54833333	0.48	2.36513333
AV	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	0.21739726	0.73	0.05869726
AV	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.111449275	0.69	0.034549275
AV	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		4.68893617	0.47	2.48513617
AV	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	0.224142857	0.7	0.067242857
AV	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.847163296	2.83639851	0.955260692	0.126898507
AV	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.846935599	2.96191103	0.951817923	0.142711025
AV	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.843639449	3.08050533	0.930269449	0.214805334
AV	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.847871892	3.19912512	0.860547774	0.446125119
AV	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.847288599	3.31901733	0.857271813	0.473717326
AV	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.851929305	3.40266463	0.814009107	0.632864635
AV	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.851903891	3.5225489	0.813587002	0.656648903
AV	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.851891797	3.64019108	0.813446308	0.679091085
AV	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.851827737	3.7592282	0.813172236	0.702328201
AV	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.851789734	3.87689118	0.812790418	0.725791176
AV	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.851719386	3.99409257	0.812600094	0.748492571
AV	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.851726876	4.42609967	0.794401451	0.909999672
AV	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.851703994	4.92438783	0.796119261	1.00398783
AV	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.851703301	5.42340291	0.797561987	1.09790291

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 2 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
AV	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.851714803	5.75486827	0.798558679	1.15926827
AV	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.713266533	0.255821918	0.876	0.031721918
AV	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.713266533	0.255821918	0.876	0.031721918
AV	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.713266533	0.255821918	0.876	0.031721918
AV	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.713266533	0.255821918	0.876	0.031721918
AV	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.713266533	0.255821918	0.876	0.031721918
AV	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.713266533	0.255821918	0.876	0.031721918
AV	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.713266533	0.255821918	0.876	0.031721918
AV	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.713266533	0.255821918	0.876	0.031721918
AV	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.713266533	0.255821918	0.876	0.031721918
AV	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.713266533	0.255821918	0.876	0.031721918
AV	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.713266533	0.255821918	0.876	0.031721918
AV	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	CO		0.006428571	0.98	0.000128571
AV	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO		0.006427015	0.918	0.000527015
AV	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		0.006378132	0.878	0.000778132
AV	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		0.006372549	0.816	0.001172549
AV	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		0.006443299	0.776	0.001443299
AV	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.006478873	0.71	0.001878873
AV	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.006372549	0.612	0.002472549
AV	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.006352087	0.551	0.002852087
AV	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.006470588	0.51	0.003170588
AV	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.081743869	0.734	0.021743869
AV	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.083410853	0.645	0.029610853
AV	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.084324324	0.555	0.037524324
AV	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.085407725	0.466	0.045607725
AV	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.086933333	0.375	0.054333333
AV	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.088	0.375	0.055
AV	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.090933333	0.375	0.056833333
AV	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.095466667	0.375	0.059666667
AV	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.099466667	0.375	0.062166667
AV	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.1024	0.375	0.064
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2000	NOX		0.026723224	0.943	0.001523224
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2000	TOG	0.0914	0.039891892	0.925	0.002991892
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2001	NOX		0.027783669	0.943	0.001583669
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2001	TOG	0.0914	0.041513514	0.925	0.003113514
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2002	NOX		0.028356481	0.864	0.003856481
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2002	TOG	0.0914	0.04222488	0.836	0.00692488
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2003	NOX		0.028969697	0.825	0.005069697
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2003	TOG	0.0914	0.04323641	0.791	0.00903641
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2004	NOX		0.029575758	0.825	0.005175758
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2004	TOG	0.0914	0.044121365	0.791	0.009221365
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2005	NOX		0.03002681	0.746	0.00762681
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2005	TOG	0.0914	0.044793153	0.701	0.013393153
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2006	NOX		0.030697051	0.746	0.007797051
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2006	TOG	0.0914	0.045791726	0.701	0.013691726
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2007	NOX		0.031099196	0.746	0.007899196
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2007	TOG	0.0914	0.04636234	0.701	0.01386234
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2008	NOX		0.031419458	0.627	0.011719458
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2008	TOG	0.0914	0.046737213	0.567	0.020237213

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 3 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2009	NOX		0.031738437	0.627	0.011838437
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2009	TOG	0.0914	0.047266314	0.567	0.020466314
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2010	NOX		0.03229927	0.548	0.01459927
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2010	TOG	0.0914	0.04790795	0.478	0.02500795
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2012	NOX		0.033394161	0.548	0.015094161
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2012	TOG	0.0914	0.04958159	0.478	0.02588159
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2015	NOX		0.035036496	0.548	0.015836496
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2015	TOG	0.0914	0.05209205	0.478	0.02719205
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2018	NOX		0.036313869	0.548	0.016413869
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2018	TOG	0.0914	0.053974895	0.478	0.028174895
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2020	NOX		0.037226277	0.548	0.016826277
AV	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2020	TOG	0.0914	0.055230126	0.478	0.028830126
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2000	NOX		0.180864865	0.925	0.013564865
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2000	TOG	0.8785	0.022426869	0.923	0.001726869
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2001	NOX		0.180756757	0.925	0.013556757
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2001	TOG	0.8785	0.022426869	0.923	0.001726869
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2002	NOX		0.180263158	0.836	0.029563158
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2002	TOG	0.8785	0.022463768	0.828	0.003863768
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2003	NOX		0.180253165	0.79	0.037853165
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2003	TOG	0.8785	0.022564103	0.78	0.004964103
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2004	NOX		0.179873418	0.79	0.037773418
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2004	TOG	0.8785	0.022564103	0.78	0.004964103
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2005	NOX		0.179315264	0.701	0.053615264
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2005	TOG	0.8785	0.022481752	0.685	0.007081752
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2006	NOX		0.178887304	0.701	0.053487304
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2006	TOG	0.8785	0.022481752	0.685	0.007081752
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2007	NOX		0.17874465	0.701	0.05344465
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2007	TOG	0.8785	0.022481752	0.685	0.007081752
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2008	NOX		0.17840708	0.565	0.07760708
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2008	TOG	0.8785	0.022509225	0.542	0.010309225
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2009	NOX		0.17840708	0.565	0.07760708
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2009	TOG	0.8785	0.022693727	0.542	0.010393727
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2010	NOX		0.177987421	0.477	0.093087421
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2010	TOG	0.8785	0.02264574	0.446	0.01254574
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2012	NOX		0.177987421	0.477	0.093087421
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2012	TOG	0.8785	0.02264574	0.446	0.01254574
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2015	NOX		0.178825996	0.477	0.093525996
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2015	TOG	0.8785	0.02309417	0.446	0.01279417
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2018	NOX		0.178616352	0.477	0.093416352
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2018	TOG	0.8785	0.02309417	0.446	0.01279417
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2020	NOX		0.178616352	0.477	0.093416352
AV	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2020	TOG	0.8785	0.02309417	0.446	0.01279417
AV	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.101736973	0.403	0.060736973
AV	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.104218362	0.403	0.062218362
AV	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.106699752	0.403	0.063699752
AV	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.109181141	0.403	0.065181141
AV	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.111662531	0.403	0.066662531
AV	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.113895782	0.403	0.067995782
AV	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.115384615	0.403	0.068884615

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 4 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
AV	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.116873449	0.403	0.069773449
AV	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.118610422	0.403	0.070810422
AV	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.120347395	0.403	0.071847395
AV	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.124317618	0.403	0.074217618
AV	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.130272953	0.403	0.077772953
AV	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.135980149	0.403	0.081180149
AV	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.139702233	0.403	0.083402233
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		0.499897225	0.973	0.013497225
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.046110485	0.887	0.005210485
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		0.520863309	0.973	0.014063309
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.048027057	0.887	0.005427057
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		0.541875682	0.917	0.044975682
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.049924585	0.663	0.016824585
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		0.562696629	0.89	0.061896629
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.0518111594	0.552	0.0232111594
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		0.583707865	0.89	0.064207865
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.053985507	0.552	0.024185507
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		0.604796163	0.834	0.100396163
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.055792683	0.328	0.037492683
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		0.625779376	0.834	0.103879376
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.057621951	0.328	0.038721951
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		0.64676259	0.834	0.10736259
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.059756098	0.328	0.040156098
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		0.667745803	0.834	0.110845803
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.061890244	0.328	0.041590244
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		0.688729017	0.834	0.114329017
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.063414634	0.328	0.042614634
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		0.709832134	0.834	0.117832134
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.06554878	0.328	0.04404878
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		0.76882494	0.834	0.12762494
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.071036585	0.328	0.047736585
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		0.857194245	0.834	0.142294245
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.078963415	0.328	0.053063415
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		0.945803357	0.834	0.157003357
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.087195122	0.328	0.058595122
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		1.00479616	0.834	0.166796163
AV	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.092682927	0.328	0.062282927
BA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2000	NOX		15.0375313	0.99106693	0.134331313
BA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2001	NOX		15.2217842	0.955183689	0.682184211
BA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2002	NOX		15.3974834	0.89908199	1.55388338
BA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2003	NOX		15.5942406	0.834712014	2.57754063
BA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2004	NOX		15.7891842	0.778089598	3.50378421
BA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2005	PM	1	0.312698864	0.963227037	0.011498864
BA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2005	NOX		15.9856894	0.703128886	4.74568944
BA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2005	TOG	0.8785	0.647291667	0.96	0.025891667
BA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2006	PM	1	0.31671827	0.927322571	0.02301827
BA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2006	NOX		16.1952747	0.655184934	5.58437473
BA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2006	TOG	0.8785	0.657526882	0.93	0.046026882
BA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2007	PM	1	0.320528548	0.899139878	0.032328548

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 5 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
BA	ARB	TRAINS	TRAINS EPA MOU	2007	NOX		16.4026414	0.616199535	6.2953414
BA	ARB	TRAINS	TRAINS EPA MOU	2007	TOG	0.8785	0.668	0.9	0.0668
BA	ARB	TRAINS	TRAINS EPA MOU	2008	PM	1	0.324387437	0.870872197	0.041887437
BA	ARB	TRAINS	TRAINS EPA MOU	2008	NOX		16.6118693	0.595465796	6.72006933
BA	ARB	TRAINS	TRAINS EPA MOU	2008	TOG	0.8785	0.678275862	0.87	0.088175862
BA	ARB	TRAINS	TRAINS EPA MOU	2009	PM	1	0.328689249	0.852476924	0.048489249
BA	ARB	TRAINS	TRAINS EPA MOU	2009	NOX		16.8295187	0.574704492	7.15751872
BA	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	0.689047619	0.84	0.110247619
BA	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	0.332870935	0.833055611	0.055570935
BA	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		17.0597256	0.56318022	7.45202557
BA	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	0.700365854	0.82	0.126065854
BA	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	0.342096687	0.80357399	0.067196687
BA	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		17.5336709	0.550221346	7.88627089
BA	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	0.7215	0.8	0.1443
BA	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	0.356444928	0.764774525	0.083844928
BA	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		18.2813457	0.52641092	8.65784569
BA	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	0.755	0.76	0.1812
BA	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	0.371715461	0.725016923	0.102215461
BA	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		19.0709149	0.495015581	9.63051486
BA	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	0.79	0.73	0.2133
BA	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.382338831	0.704610619	0.112938831
BA	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		19.6180502	0.483901301	10.1248502
BA	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	0.814714286	0.7	0.244414286
BA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.847603616	58.8011736	0.955401	2.62247356
BA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.847305618	59.5882646	0.951905554	2.86586457
BA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.844070057	60.3622031	0.930544233	4.19250309
BA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.848361458	61.1085527	0.861236237	8.47965271
BA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.847766678	61.8641223	0.857838081	8.79472233
BA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.852377285	62.5916133	0.805326742	12.1849133
BA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.852378515	62.9951235	0.805376625	12.2603235
BA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.852319576	63.4009761	0.805101169	12.3567761
BA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.852249243	63.7941868	0.804806873	12.4521868
BA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.852197376	64.1920676	0.804613435	12.5422676
BA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.852141837	64.5984233	0.804329229	12.6400233
BA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.852143628	65.2309414	0.80438974	12.7598414
BA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.852144423	66.2081298	0.804525066	12.9420298
BA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.852145245	67.1227924	0.804673019	13.1108924
BA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.852151394	67.6945114	0.804774256	13.2157114
BA	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.713176649	5.78961187	0.876	0.717911872
BA	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.713176649	5.78961187	0.876	0.717911872
BA	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.713176649	5.78961187	0.876	0.717911872
BA	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.713176649	5.78961187	0.876	0.717911872
BA	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.713176649	5.78961187	0.876	0.717911872
BA	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.713176649	5.78961187	0.876	0.717911872
BA	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.713176649	5.78961187	0.876	0.717911872
BA	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.713176649	5.78961187	0.876	0.717911872
BA	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.713176649	5.78961187	0.876	0.717911872
BA	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.713176649	5.78961187	0.876	0.717911872
BA	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.713176649	5.78961187	0.876	0.717911872

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 6 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
BA	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2003	TOG	0.979055854	22.2996694	0.975566855	0.544851064
BA	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2004	TOG	0.979712964	22.3954042	0.975414789	0.550595745
BA	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2005	TOG	0.979811496	22.4999786	0.975250189	0.556870213
BA	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2006	TOG	0.980503764	22.5957947	0.97510062	0.562621277
BA	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2007	TOG	0.980593176	22.6917522	0.974952189	0.568378723
BA	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2008	TOG	0.981345925	22.7874818	0.974805316	0.574123404
BA	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2009	TOG	0.981434188	22.8835457	0.974659205	0.579887234
BA	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2010	TOG	0.982229424	22.979139	0.974514905	0.585625532
BA	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2012	TOG	0.982401533	23.1708411	0.974229349	0.59712766
BA	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2015	TOG	0.982653649	23.4586071	0.973809459	0.614393617
BA	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2018	TOG	0.982905522	23.7546709	0.973388078	0.632157447
BA	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2020	TOG	0.983064788	23.9464794	0.973120643	0.643665957
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	PM	0.96	0.02982983	0.999	0.00002983
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	NOX		0.436236236	0.999	0.000436236
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	PM	0.96	0.029789368	0.997	0.000089368
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	NOX		0.435871743	0.998	0.000871743
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	PM	0.96	0.029879276	0.994	0.000179276
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	NOX		0.435879397	0.995	0.002179397
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	PM	0.96	0.029828109	0.989	0.000328109
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	NOX		0.435584677	0.992	0.003484677
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	PM	0.96	0.029806714	0.983	0.000506714
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	NOX		0.435663627	0.987	0.005663627
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	PM	0.96	0.029846154	0.975	0.000746154
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	NOX		0.435575943	0.981	0.008275943
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	PM	0.96	0.029820864	0.949	0.001520864
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	NOX		0.435796046	0.961	0.016996046
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	PM	0.96	0.02987013	0.924	0.00227013
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	NOX		0.435774947	0.942	0.025274947
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	PM	0.96	0.029955457	0.898	0.003055457
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	NOX		0.435791757	0.922	0.033991757
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	PM	0.96	0.029816514	0.872	0.003816514
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	NOX		0.435658915	0.903	0.042258915
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	PM	0.96	0.029787234	0.846	0.004587234
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	NOX		0.435294118	0.884	0.050494118
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	PM	0.96	0.029811321	0.795	0.006111321
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	NOX		0.435329341	0.835	0.071829341
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	PM	0.96	0.029805014	0.718	0.008405014
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	NOX		0.435059761	0.753	0.107459761
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	PM	0.96	0.029797192	0.641	0.010697192
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	NOX		0.435151515	0.66	0.147951515
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	PM	0.96	0.029830508	0.59	0.012230508
BA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	NOX		0.434966216	0.592	0.177466216
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2005	CO		1.56687039	0.725267392	0.430470388
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2005	PM	0.658698942	0.219747299	0.73129454	0.059047299
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2005	NOX		4.44919768	0.761463131	1.06129768
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2005	TOG	0.687289384	0.567958179	0.757978345	0.137458179
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	CO		1.56713679	0.691133031	0.48403679
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	PM	0.658376758	0.219532013	0.699670166	0.065932013
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	NOX		4.44925808	0.731627598	1.19405808

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 7 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	TOG	0.687222862	0.567791069	0.718750298	0.159691069
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO		1.56736093	0.655688158	0.539660928
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	PM	0.658806602	0.219866234	0.661311186	0.074466234
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	NOX		4.44931748	0.70208521	1.32551748
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	TOG	0.687312562	0.567977073	0.678372452	0.182677073
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		1.56709569	0.621659549	0.592895689
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	PM	0.658147196	0.219788075	0.624692673	0.082488075
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	NOX		4.44909568	0.672631073	1.45649568
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	TOG	0.68730697	0.567989646	0.641560991	0.203589646
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		1.56690508	0.586761771	0.64750508
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	PM	0.659006832	0.219685285	0.586293251	0.090885285
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX		4.44903941	0.643082638	1.58793941
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	TOG	0.687264845	0.568062266	0.602398752	0.225862266
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		1.56725607	0.552366659	0.701556072
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	PM	0.657843266	0.219765299	0.540576699	0.100965299
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		4.44940783	0.613384995	1.72020783
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	TOG	0.687372856	0.568064351	0.560323843	0.249764351
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		1.56715114	0.506141353	0.773951142
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	PM	0.658036891	0.219680555	0.486160462	0.112880555
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		4.44936965	0.56697919	1.92666965
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	TOG	0.687294392	0.567721387	0.502535234	0.282421387
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		1.5670778	0.43686408	0.882477797
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	PM	0.65808427	0.220048379	0.404456512	0.131048379
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		4.44928068	0.49697921	2.23808068
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	TOG	0.687196571	0.568179561	0.415713651	0.331979561
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		1.56747591	0.394583417	0.948975907
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	PM	0.658154369	0.219972466	0.327768295	0.147872466
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		4.44930923	0.446069243	2.46460923
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.687270337	0.567947404	0.354962447	0.366347404
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		1.56721894	0.366317675	0.993118944
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	PM	0.658105428	0.219530823	0.276954275	0.158730823
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		4.44909518	0.411993883	2.61609518
BA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	TOG	0.687340146	0.56781162	0.314540939	0.38921162
BA	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2012	TOG	0.987598371	0.300996337	0.937885169	0.018696337
BA	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2015	TOG	0.987589601	0.299440137	0.937750037	0.018640137
BA	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2018	TOG	0.987598212	0.298239025	0.937838366	0.018539025
BA	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2020	TOG	0.987603907	0.29751721	0.937760878	0.01851721
BA	BA_AQMD	8- 2	MISCELLANEOUS OPERATIONS	2001	TOG	0.983339148	0.28993135	0.874	0.03653135
BA	BA_AQMD	8- 2	MISCELLANEOUS OPERATIONS	2002	TOG	0.983356357	0.293363844	0.874	0.036963844
BA	BA_AQMD	8- 2	MISCELLANEOUS OPERATIONS	2003	TOG	0.983333885	0.297139588	0.874	0.037439588
BA	BA_AQMD	8- 2	MISCELLANEOUS OPERATIONS	2004	TOG	0.983369734	0.300915332	0.874	0.037915332
BA	BA_AQMD	8- 2	MISCELLANEOUS OPERATIONS	2005	TOG	0.983366392	0.305034325	0.874	0.038434325
BA	BA_AQMD	8- 2	MISCELLANEOUS OPERATIONS	2006	TOG	0.983294556	0.308924485	0.874	0.038924485
BA	BA_AQMD	8- 2	MISCELLANEOUS OPERATIONS	2007	TOG	0.983249432	0.312242563	0.874	0.039342563
BA	BA_AQMD	8- 2	MISCELLANEOUS OPERATIONS	2008	TOG	0.983211345	0.315675057	0.874	0.039775057
BA	BA_AQMD	8- 2	MISCELLANEOUS OPERATIONS	2009	TOG	0.983149821	0.319679634	0.874	0.040279634
BA	BA_AQMD	8- 2	MISCELLANEOUS OPERATIONS	2010	TOG	0.983012956	0.323226545	0.874	0.040726545
BA	BA_AQMD	8- 2	MISCELLANEOUS OPERATIONS	2012	TOG	0.983055788	0.328146453	0.874	0.041346453
BA	BA_AQMD	8- 2	MISCELLANEOUS OPERATIONS	2015	TOG	0.982970995	0.335697941	0.874	0.042297941

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 8 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
BA	BA_AQMD	8- 2	MISCELLANEOUS OPERATIONS	2018	TOG	0.982895635	0.343363844	0.874	0.043263844
BA	BA_AQMD	8- 2	MISCELLANEOUS OPERATIONS	2020	TOG	0.982849114	0.348512586	0.874	0.043912586
BA	BA_AQMD	8- 3	ARCHITECTURAL COATING	2000	TOG	0.978791955	22.0120465	0.982584693	0.38334655
BA	BA_AQMD	8- 3	ARCHITECTURAL COATING	2001	TOG	0.978884596	22.1078465	0.982660159	0.38334655
BA	BA_AQMD	8- 3	ARCHITECTURAL COATING	2002	TOG	0.979497877	22.2037184	0.94880054	1.13681838
BA	BA_AQMD	8- 3	ARCHITECTURAL COATING	2003	TOG	0.979055854	22.2996694	0.949020842	1.13681838
BA	BA_AQMD	8- 3	ARCHITECTURAL COATING	2004	TOG	0.979712964	22.3954042	0.915004507	1.90350841
BA	BA_AQMD	8- 3	ARCHITECTURAL COATING	2005	TOG	0.979811496	22.4999786	0.915399546	1.90350841
BA	BA_AQMD	8- 3	ARCHITECTURAL COATING	2006	TOG	0.980503764	22.5957947	0.882412923	2.65697347
BA	BA_AQMD	8- 3	ARCHITECTURAL COATING	2007	TOG	0.980593176	22.6917522	0.882910167	2.65697347
BA	BA_AQMD	8- 3	ARCHITECTURAL COATING	2008	TOG	0.981345925	22.7874818	0.849757053	3.42365843
BA	BA_AQMD	8- 3	ARCHITECTURAL COATING	2009	TOG	0.981434188	22.8835457	0.850387764	3.42365843
BA	BA_AQMD	8- 3	ARCHITECTURAL COATING	2010	TOG	0.982229424	22.979139	0.818221498	4.17711345
BA	BA_AQMD	8- 3	ARCHITECTURAL COATING	2012	TOG	0.982401533	23.1708411	0.819725429	4.17711345
BA	BA_AQMD	8- 3	ARCHITECTURAL COATING	2015	TOG	0.982653649	23.4586071	0.821936851	4.17711345
BA	BA_AQMD	8- 3	ARCHITECTURAL COATING	2018	TOG	0.982905522	23.7546709	0.824156122	4.17711345
BA	BA_AQMD	8- 3	ARCHITECTURAL COATING	2020	TOG	0.983064788	23.9464794	0.825564611	4.17711345
BA	BA_AQMD	8- 5	STORAGE OF ORGANIC LIQUIDS	2000	TOG	0.895986474	5.20540874	0.961403849	0.20090874
BA	BA_AQMD	8- 5	STORAGE OF ORGANIC LIQUIDS	2001	TOG	0.897442969	5.1851201	0.93590889	0.332320101
BA	BA_AQMD	8- 5	STORAGE OF ORGANIC LIQUIDS	2002	TOG	0.897860084	5.24839196	0.935734228	0.33729196
BA	BA_AQMD	8- 5	STORAGE OF ORGANIC LIQUIDS	2003	TOG	0.898185317	5.31198945	0.935562853	0.342289447
BA	BA_AQMD	8- 5	STORAGE OF ORGANIC LIQUIDS	2004	TOG	0.898499986	5.38290251	0.935554747	0.346902513
BA	BA_AQMD	8- 5	STORAGE OF ORGANIC LIQUIDS	2005	TOG	0.898787878	5.45450251	0.935465698	0.352002513
BA	BA_AQMD	8- 5	STORAGE OF ORGANIC LIQUIDS	2006	TOG	0.898982871	5.52513317	0.935325873	0.357333166
BA	BA_AQMD	8- 5	STORAGE OF ORGANIC LIQUIDS	2007	TOG	0.899032363	5.60683065	0.935376922	0.362330653
BA	BA_AQMD	8- 5	STORAGE OF ORGANIC LIQUIDS	2008	TOG	0.89919477	5.67781256	0.935236932	0.367712563
BA	BA_AQMD	8- 5	STORAGE OF ORGANIC LIQUIDS	2009	TOG	0.899490473	5.7569201	0.935187549	0.373120101
BA	BA_AQMD	8- 5	STORAGE OF ORGANIC LIQUIDS	2010	TOG	0.899613035	5.82975075	0.935082859	0.378450754
BA	BA_AQMD	8- 5	STORAGE OF ORGANIC LIQUIDS	2012	TOG	0.900090669	5.98397085	0.934914313	0.389470854
BA	BA_AQMD	8- 5	STORAGE OF ORGANIC LIQUIDS	2015	TOG	0.900792042	6.22756734	0.934698846	0.406667337
BA	BA_AQMD	8- 5	STORAGE OF ORGANIC LIQUIDS	2018	TOG	0.901345301	6.47503266	0.934419997	0.424632663
BA	BA_AQMD	8- 5	STORAGE OF ORGANIC LIQUIDS	2020	TOG	0.901803879	6.6490804	0.934309653	0.436780402
BA	BA_AQMD	8- 7	GASOLINE DISPENSING FACILITIES (PHASEI AND II)	2001	TOG	0.703045276	9.66702966	0.99799011	0.019429665
BA	BA_AQMD	8- 7	GASOLINE DISPENSING FACILITIES (PHASEI AND II)	2002	TOG	0.702638506	9.65847412	0.997455693	0.02457412
BA	BA_AQMD	8- 7	GASOLINE DISPENSING FACILITIES (PHASEI AND II)	2003	TOG	0.702379988	9.65865088	0.996547046	0.033350879
BA	BA_AQMD	8- 7	GASOLINE DISPENSING FACILITIES (PHASEI AND II)	2004	TOG	0.702249361	9.65676054	0.996296838	0.035760544
BA	BA_AQMD	8- 7	GASOLINE DISPENSING FACILITIES (PHASEI AND II)	2005	TOG	0.702249361	9.65676054	0.996296838	0.035760544
BA	BA_AQMD	8- 7	GASOLINE DISPENSING FACILITIES (PHASEI AND II)	2006	TOG	0.702249361	9.65676054	0.996296838	0.035760544
BA	BA_AQMD	8- 7	GASOLINE DISPENSING FACILITIES (PHASEI AND II)	2007	TOG	0.702352157	9.66123798	0.996187033	0.03683798
BA	BA_AQMD	8- 7	GASOLINE DISPENSING FACILITIES (PHASEI AND II)	2008	TOG	0.702358342	9.66150429	0.996180275	0.036904292
BA	BA_AQMD	8- 7	GASOLINE DISPENSING FACILITIES (PHASEI AND II)	2009	TOG	0.702364527	9.6617706	0.996173517	0.036970603
BA	BA_AQMD	8- 7	GASOLINE DISPENSING FACILITIES (PHASEI AND II)	2010	TOG	0.702367619	9.66190376	0.996170138	0.037003759
BA	BA_AQMD	8- 7	GASOLINE DISPENSING FACILITIES (PHASEI AND II)	2012	TOG	0.702377599	9.66238652	0.996161764	0.037086521
BA	BA_AQMD	8- 7	GASOLINE DISPENSING FACILITIES (PHASEI AND II)	2015	TOG	0.702377599	9.66238652	0.996161764	0.037086521
BA	BA_AQMD	8- 7	GASOLINE DISPENSING FACILITIES (PHASEI AND II)	2018	TOG	0.702393761	9.66313559	0.996146634	0.037235594
BA	BA_AQMD	8- 7	GASOLINE DISPENSING FACILITIES (PHASEI AND II)	2020	TOG	0.702399944	9.66340191	0.996139878	0.037301906
BA	BA_AQMD	8- 16	SOLVENT CLEANING OPERATIONS	2000	TOG	0.267140647	12.0665427	0.976940975	0.278242706
BA	BA_AQMD	8- 16	SOLVENT CLEANING OPERATIONS	2001	TOG	0.258282861	12.0609021	0.94208542	0.698502079
BA	BA_AQMD	8- 16	SOLVENT CLEANING OPERATIONS	2002	TOG	0.261262208	12.0520125	0.941336563	0.707012471

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 9 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
BA	BA_AQMD	8- 16	SOLVENT CLEANING OPERATIONS	2003	TOG	0.251468061	12.0464125	0.905124246	1.14291247
BA	BA_AQMD	8- 16	SOLVENT CLEANING OPERATIONS	2004	TOG	0.254430048	12.0341005	0.903997768	1.15530051
BA	BA_AQMD	8- 16	SOLVENT CLEANING OPERATIONS	2005	TOG	0.257674884	12.0584387	0.902504901	1.17563868
BA	BA_AQMD	8- 16	SOLVENT CLEANING OPERATIONS	2006	TOG	0.260656331	12.0390659	0.901456981	1.1863659
BA	BA_AQMD	8- 16	SOLVENT CLEANING OPERATIONS	2007	TOG	0.263944683	12.0378137	0.900229912	1.20101374
BA	BA_AQMD	8- 16	SOLVENT CLEANING OPERATIONS	2008	TOG	0.26666008	12.0075723	0.899282533	1.20937226
BA	BA_AQMD	8- 16	SOLVENT CLEANING OPERATIONS	2009	TOG	0.269787905	12.0217695	0.89792938	1.22706947
BA	BA_AQMD	8- 16	SOLVENT CLEANING OPERATIONS	2010	TOG	0.272850543	12.0249247	0.896654265	1.24272468
BA	BA_AQMD	8- 16	SOLVENT CLEANING OPERATIONS	2012	TOG	0.278273096	11.9678758	0.894653333	1.26077583
BA	BA_AQMD	8- 16	SOLVENT CLEANING OPERATIONS	2015	TOG	0.286257501	11.8878468	0.891608057	1.28854682
BA	BA_AQMD	8- 16	SOLVENT CLEANING OPERATIONS	2018	TOG	0.294293302	11.8100723	0.88853817	1.31637226
BA	BA_AQMD	8- 16	SOLVENT CLEANING OPERATIONS	2020	TOG	0.299852591	11.7606842	0.886394006	1.33608422
BA	BA_AQMD	8- 20	GRAPHIC ARTS PRINTING AND COATING OPERATIONS	2001	TOG	0.996906264	4.20964465	0.837766674	0.682944654
BA	BA_AQMD	8- 20	GRAPHIC ARTS PRINTING AND COATING OPERATIONS	2002	TOG	0.996911503	4.23954933	0.837872076	0.687349332
BA	BA_AQMD	8- 20	GRAPHIC ARTS PRINTING AND COATING OPERATIONS	2003	TOG	0.996927239	4.27304971	0.837855922	0.692849706
BA	BA_AQMD	8- 20	GRAPHIC ARTS PRINTING AND COATING OPERATIONS	2004	TOG	0.996937009	4.31030744	0.837828867	0.69900744
BA	BA_AQMD	8- 20	GRAPHIC ARTS PRINTING AND COATING OPERATIONS	2005	TOG	0.996919843	4.34454857	0.837854599	0.704448569
BA	BA_AQMD	8- 20	GRAPHIC ARTS PRINTING AND COATING OPERATIONS	2006	TOG	0.996918032	4.37698863	0.837859156	0.70968863
BA	BA_AQMD	8- 20	GRAPHIC ARTS PRINTING AND COATING OPERATIONS	2007	TOG	0.996915748	4.40826889	0.837947978	0.714368888
BA	BA_AQMD	8- 20	GRAPHIC ARTS PRINTING AND COATING OPERATIONS	2008	TOG	0.996930523	4.44127651	0.837934768	0.719776506
BA	BA_AQMD	8- 20	GRAPHIC ARTS PRINTING AND COATING OPERATIONS	2009	TOG	0.996923506	4.47844871	0.83783476	0.726248709
BA	BA_AQMD	8- 20	GRAPHIC ARTS PRINTING AND COATING OPERATIONS	2010	TOG	0.996925468	4.50463705	0.837847746	0.730437051
BA	BA_AQMD	8- 20	GRAPHIC ARTS PRINTING AND COATING OPERATIONS	2012	TOG	0.996928267	4.56720486	0.837864759	0.740504859
BA	BA_AQMD	8- 20	GRAPHIC ARTS PRINTING AND COATING OPERATIONS	2015	TOG	0.996918909	4.67038292	0.837811389	0.757482917
BA	BA_AQMD	8- 20	GRAPHIC ARTS PRINTING AND COATING OPERATIONS	2018	TOG	0.996908795	4.77135724	0.837832885	0.773757238
BA	BA_AQMD	8- 20	GRAPHIC ARTS PRINTING AND COATING OPERATIONS	2020	TOG	0.996899529	4.83822581	0.837848451	0.784525807
BA	BA_AQMD	8- 45	MOTOR VEHICLE & MOBILE EQPMT. COATING OPERATION	2002	TOG	0.96492479	2.37189474	0.95	0.118594737
BA	BA_AQMD	8- 45	MOTOR VEHICLE & MOBILE EQPMT. COATING OPERATION	2003	TOG	0.964927445	2.41210526	0.95	0.120605263
BA	BA_AQMD	8- 45	MOTOR VEHICLE & MOBILE EQPMT. COATING OPERATION	2004	TOG	0.9649211	2.45223214	0.896	0.255032143
BA	BA_AQMD	8- 45	MOTOR VEHICLE & MOBILE EQPMT. COATING OPERATION	2005	TOG	0.964939051	2.49441964	0.896	0.259419643
BA	BA_AQMD	8- 45	MOTOR VEHICLE & MOBILE EQPMT. COATING OPERATION	2006	TOG	0.964922207	2.54006696	0.896	0.264166964
BA	BA_AQMD	8- 45	MOTOR VEHICLE & MOBILE EQPMT. COATING OPERATION	2007	TOG	0.964936486	2.58660714	0.896	0.269007143
BA	BA_AQMD	8- 45	MOTOR VEHICLE & MOBILE EQPMT. COATING OPERATION	2008	TOG	0.964925119	2.63303571	0.896	0.273835714
BA	BA_AQMD	8- 45	MOTOR VEHICLE & MOBILE EQPMT. COATING OPERATION	2009	TOG	0.964916865	2.67946429	0.896	0.278664286
BA	BA_AQMD	8- 45	MOTOR VEHICLE & MOBILE EQPMT. COATING OPERATION	2010	TOG	0.964922265	2.72589286	0.896	0.283492857
BA	BA_AQMD	8- 45	MOTOR VEHICLE & MOBILE EQPMT. COATING OPERATION	2012	TOG	0.964934097	2.81104911	0.896	0.292349107
BA	BA_AQMD	8- 45	MOTOR VEHICLE & MOBILE EQPMT. COATING OPERATION	2015	TOG	0.964931286	2.93872768	0.896	0.305627679
BA	BA_AQMD	8- 45	MOTOR VEHICLE & MOBILE EQPMT. COATING OPERATION	2018	TOG	0.964923712	3.06171875	0.896	0.31841875
BA	BA_AQMD	8- 45	MOTOR VEHICLE & MOBILE EQPMT. COATING OPERATION	2020	TOG	0.964917196	3.14397321	0.896	0.326973214
BA	BA_AQMD	9- 6	NOX EMISSIONS FROM NATURAL GAS-FIRED WATER HTRS	2000	NOX		7.45257393	0.913	0.648373932
BA	BA_AQMD	9- 6	NOX EMISSIONS FROM NATURAL GAS-FIRED WATER HTRS	2001	NOX		7.54786418	0.913	0.656664184
BA	BA_AQMD	9- 6	NOX EMISSIONS FROM NATURAL GAS-FIRED WATER HTRS	2002	NOX		7.63599509	0.814	1.42029509
BA	BA_AQMD	9- 6	NOX EMISSIONS FROM NATURAL GAS-FIRED WATER HTRS	2003	NOX		7.73128492	0.716	2.19568492
BA	BA_AQMD	9- 6	NOX EMISSIONS FROM NATURAL GAS-FIRED WATER HTRS	2004	NOX		7.82667598	0.716	2.22277598
BA	BA_AQMD	9- 6	NOX EMISSIONS FROM NATURAL GAS-FIRED WATER HTRS	2005	NOX		7.92178771	0.716	2.24978771
BA	BA_AQMD	9- 6	NOX EMISSIONS FROM NATURAL GAS-FIRED WATER HTRS	2006	NOX		7.97318436	0.716	2.26438436
BA	BA_AQMD	9- 6	NOX EMISSIONS FROM NATURAL GAS-FIRED WATER HTRS	2007	NOX		8.02472067	0.716	2.27902067
BA	BA_AQMD	9- 6	NOX EMISSIONS FROM NATURAL GAS-FIRED WATER HTRS	2008	NOX		8.07583799	0.716	2.29353799
BA	BA_AQMD	9- 6	NOX EMISSIONS FROM NATURAL GAS-FIRED WATER HTRS	2009	NOX		8.12723464	0.716	2.30813464

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 10 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
BA	BA_AQMD	9- 6	NOX EMISSIONS FROM NATURAL GAS-FIRED WATER HTRS	2010	NOX		8.17863128	0.716	2.32273128
BA	BA_AQMD	9- 6	NOX EMISSIONS FROM NATURAL GAS-FIRED WATER HTRS	2012	NOX		8.25209497	0.716	2.34359497
BA	BA_AQMD	9- 6	NOX EMISSIONS FROM NATURAL GAS-FIRED WATER HTRS	2015	NOX		8.37681564	0.716	2.37901564
BA	BA_AQMD	9- 6	NOX EMISSIONS FROM NATURAL GAS-FIRED WATER HTRS	2018	NOX		8.49399441	0.716	2.41229441
BA	BA_AQMD	9- 6	NOX EMISSIONS FROM NATURAL GAS-FIRED WATER HTRS	2020	NOX		8.5674581	0.716	2.4331581
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2000	CO		5.64939024	0.984	0.090390244
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2000	NOX		13.4471992	0.742987432	3.4560992
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2001	CO		5.72713415	0.984	0.091634146
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2001	NOX		13.6566243	0.742987418	3.50992427
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2002	CO		5.8125	0.984	0.093
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2002	NOX		13.8490912	0.742987378	3.55939125
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2003	CO		5.90630081	0.984	0.094500813
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2003	NOX		14.0945845	0.742987493	3.6224845
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2004	CO		5.98363821	0.984	0.095738211
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2004	NOX		14.2894723	0.74298755	3.67257227
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2005	CO		6.09075203	0.984	0.097452033
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2005	NOX		14.5176053	0.742987551	3.73120529
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2006	CO		6.18180894	0.984	0.098908943
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2006	NOX		14.7295881	0.742987511	3.78568811
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2007	CO		6.28130081	0.984	0.100500813
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2007	NOX		14.9472226	0.74298753	3.8416226
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2008	CO		6.37144309	0.984	0.101943089
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2008	NOX		15.1695668	0.742987598	3.89876681
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2009	CO		6.45111789	0.984	0.103217886
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2009	NOX		15.4017348	0.742987732	3.95843479
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2010	CO		6.57337398	0.984	0.105173984
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2010	NOX		15.6348476	0.742987734	4.01834762
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2012	CO		6.76981707	0.984	0.108317073
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2012	NOX		16.1102263	0.742987703	4.14052626
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2015	CO		7.09075203	0.984	0.113452033
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2015	NOX		16.8465749	0.742987824	4.32977486
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2018	CO		7.41646341	0.984	0.118663415
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2018	NOX		17.6329933	0.742987863	4.53189329
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2020	CO		7.64878049	0.984	0.122380488
BA	BA_AQMD	9- 7	NOX EMS FROM INST. BOILERS, HTRS, AND STEAM GEN	2020	NOX		18.15521	0.742987826	4.66610999
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2000	CO		4.29651332	0.984	0.068744213
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2000	NOX		4.97996189	0.819	0.901373102
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2001	CO		4.34364449	0.968	0.138996624
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2001	NOX		5.04468011	0.638	1.8261742
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2002	CO		4.39012331	0.968	0.140483946
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2002	NOX		5.0973719	0.638	1.84524863
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2003	CO		4.44619523	0.968	0.142278248
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2003	NOX		5.14501268	0.638	1.86249459
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2004	CO		4.48738184	0.968	0.143596219
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2004	NOX		5.20358899	0.638	1.88369921
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2005	CO		4.53833899	0.968	0.145226848
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2005	NOX		5.26039707	0.638	1.90426374
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2006	CO		4.59267193	0.968	0.146965502
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2006	NOX		5.31550263	0.638	1.92421195

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 11 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2007	CO		4.63970849	0.968	0.148470672
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2007	NOX		5.37898798	0.638	1.94719365
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2008	CO		4.6903926	0.968	0.150092563
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2008	NOX		5.44024806	0.638	1.9693698
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2009	CO		4.74525235	0.968	0.151848075
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2009	NOX		5.49934029	0.638	1.99076118
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2010	CO		4.79353792	0.968	0.153393213
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2010	NOX		5.55509187	0.638	2.01094326
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2012	CO		4.90322891	0.968	0.156903325
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2012	NOX		5.68096591	0.638	2.05650966
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2015	CO		5.06486145	0.968	0.162075566
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2015	NOX		5.87157315	0.638	2.12550948
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2018	CO		5.23232985	0.968	0.167434555
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2018	NOX		6.06667712	0.638	2.19613712
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2020	CO		5.34651373	0.968	0.171088439
BA	BA_AQMD	9- 8	NOX AND CO EMS FROM IC ENGINES	2020	NOX		6.20401254	0.638	2.24585254
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2000	CO		2.76869919	0.984	0.044299187
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2000	NOX		3.14656577	0.859	0.443665774
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2001	CO		2.79886364	0.968	0.089563636
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2001	NOX		3.18122392	0.719	0.893923922
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2002	CO		2.82634298	0.968	0.090442975
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2002	NOX		3.21251739	0.719	0.902717385
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2003	CO		2.85609504	0.968	0.091395041
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2003	NOX		3.24687065	0.719	0.912370654
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2004	CO		2.88657025	0.968	0.092370248
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2004	NOX		3.28080668	0.719	0.921906676
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2005	CO		2.91394628	0.968	0.093246281
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2005	NOX		3.31223922	0.719	0.930739221
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2006	CO		2.94411157	0.968	0.09421157
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2006	NOX		3.34631433	0.719	0.940314325
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2007	CO		2.97427686	0.968	0.09517686
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2007	NOX		3.38080668	0.719	0.950006676
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2008	CO		3.0071281	0.968	0.096228099
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2008	NOX		3.41821975	0.719	0.96051975
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2009	CO		3.03708678	0.968	0.097186777
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2009	NOX		3.45243394	0.719	0.970133936
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2010	CO		3.06725207	0.968	0.098152066
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2010	NOX		3.48636996	0.719	0.979669958
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2012	CO		3.13295455	0.968	0.100254545
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2012	NOX		3.56119611	0.719	1.00069611
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2015	CO		3.22913223	0.968	0.103332231
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2015	NOX		3.67023644	0.719	1.03133644
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2018	CO		3.33047521	0.968	0.106575207
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2018	NOX		3.78581363	0.719	1.06381363
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2020	CO		3.39896694	0.968	0.108766942
BA	BA_AQMD	9- 9	STATIONARY GAS TURBINES >0.3 MW	2020	NOX		3.86369958	0.719	1.08569958
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2000	CO		6.05474974	0.979	0.127149745
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2000	NOX		32.1688836	0.842	5.08268361
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2001	CO		6.13152401	0.958	0.257524008

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 12 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2001	NOX		32.5816058	0.685	10.2632058
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2002	CO		6.21160043	0.931	0.42860043
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2002	NOX		33.0201663	0.481	17.1374663
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2003	CO		6.28893805	0.904	0.603738053
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2003	NOX		33.4321429	0.28	24.0711429
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2004	CO		6.36869469	0.904	0.61139469
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2004	NOX		33.8714286	0.28	24.3874286
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2005	CO		6.4494469	0.904	0.619146903
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2005	NOX		34.3103571	0.28	24.7034571
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2006	CO		6.52997788	0.904	0.626877876
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2006	NOX		34.7485714	0.28	25.0189714
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2007	CO		6.6130531	0.904	0.634853097
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2007	NOX		35.1928571	0.28	25.3388571
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2008	CO		6.69347345	0.904	0.642573451
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2008	NOX		35.6310714	0.28	25.6543714
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2009	CO		6.77964602	0.904	0.650846018
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2009	NOX		36.1028571	0.28	25.9940571
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2010	CO		6.86570796	0.904	0.659107965
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2010	NOX		36.5725	0.28	26.3322
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2012	CO		7.04026549	0.904	0.675865487
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2012	NOX		37.5185714	0.28	27.0133714
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2015	CO		7.31061947	0.904	0.701819469
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2015	NOX		38.9935714	0.28	28.0753714
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2018	CO		7.58971239	0.904	0.728612389
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2018	NOX		40.5042857	0.28	29.1630857
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2020	CO		7.78285398	0.904	0.747153982
BA	BA_AQMD	9- 10	NOX/CO FROM BOILERS/GENERATORS-REFINERIES	2020	NOX		41.5664286	0.28	29.9278286
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2000	PM	0.981039347	0.469369369	0.111	0.417269369
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2001	PM	0.980263204	0.469421488	0.121	0.412621488
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2002	PM	0.980357944	0.469298246	0.114	0.415798246
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2002	NOX		12.9148036	0.794	2.66044954
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2003	PM	0.980934116	0.469491525	0.118	0.414091525
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2003	NOX		12.9157164	0.624	4.85630937
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2004	PM	0.980378345	0.469714286	0.175	0.387514286
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2004	NOX		12.9163239	0.491	6.57440885
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2005	PM	0.980360861	0.469014085	0.213	0.369114085
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2005	NOX		12.916792	0.399	7.76299198
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2006	PM	0.98081784	0.469162996	0.227	0.3626662996
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2006	NOX		12.9177268	0.437	7.27268017
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2007	PM	0.980775025	0.468720379	0.211	0.369820379
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2007	NOX		12.9184038	0.387	7.91898152
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2008	PM	0.980360861	0.469014085	0.213	0.369114085
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2008	NOX		12.9191525	0.397	7.79024898
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2009	PM	0.980525359	0.468609865	0.223	0.364109865
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2009	NOX		12.9201173	0.42	7.49366802
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2010	PM	0.980823797	0.468510638	0.235	0.358410638
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2010	NOX		12.9202498	0.451	7.09321711
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2012	PM	0.980835753	0.46893617	0.235	0.35873617
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2012	NOX		12.921875	0.452	7.0811875

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 13 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2015	PM	0.980835753	0.46893617	0.235	0.35873617
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2015	NOX		12.9245048	0.453	7.06970415
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2018	PM	0.980446942	0.469198312	0.237	0.357998312
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2018	NOX		12.9269923	0.454	7.05813777
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2020	PM	0.980446942	0.469198312	0.237	0.357998312
BA	BA_AQMD	EMSSCALE	Power Plant Emission Scalers	2020	NOX		12.9285108	0.455	7.04603839
BA	BA_AQMD	GAS_SCALE	Composite Emission Scalers for Gas Marketing	2000	TOG	1	15.6367399	0.993627832	0.099639938
BA	BA_AQMD	GAS_SCALE	Composite Emission Scalers for Gas Marketing	2001	TOG	1	15.6366087	0.853842434	2.28540866
BA	BA_AQMD	GAS_SCALE	Composite Emission Scalers for Gas Marketing	2002	TOG	1	15.6369984	0.759915664	3.75419837
BA	BA_AQMD	GAS_SCALE	Composite Emission Scalers for Gas Marketing	2003	TOG	1	15.636424	0.66830498	5.18652397
BA	BA_AQMD	GAS_SCALE	Composite Emission Scalers for Gas Marketing	2004	TOG	1	15.6367212	0.588844675	6.42912117
BA	BA_AQMD	GAS_SCALE	Composite Emission Scalers for Gas Marketing	2005	TOG	1	15.6366236	0.518826841	7.52392356
BA	BA_AQMD	GAS_SCALE	Composite Emission Scalers for Gas Marketing	2006	TOG	1	15.6369082	0.463416419	8.39050821
BA	BA_AQMD	GAS_SCALE	Composite Emission Scalers for Gas Marketing	2007	TOG	1	15.6365564	0.412104803	9.19265639
BA	BA_AQMD	GAS_SCALE	Composite Emission Scalers for Gas Marketing	2008	TOG	1	15.6364579	0.41325216	9.17465788
BA	BA_AQMD	GAS_SCALE	Composite Emission Scalers for Gas Marketing	2009	TOG	1	15.6365979	0.415250174	9.1434979
BA	BA_AQMD	GAS_SCALE	Composite Emission Scalers for Gas Marketing	2010	TOG	1	15.6365313	0.418334467	9.09523134
BA	BA_AQMD	GAS_SCALE	Composite Emission Scalers for Gas Marketing	2012	TOG	1	15.6365313	0.418334467	9.09523134
BA	BA_AQMD	GAS_SCALE	Composite Emission Scalers for Gas Marketing	2015	TOG	1	15.6370891	0.425123881	8.98938908
BA	BA_AQMD	GAS_SCALE	Composite Emission Scalers for Gas Marketing	2018	TOG	1	15.6370891	0.425123881	8.98938908
BA	BA_AQMD	GAS_SCALE	Composite Emission Scalers for Gas Marketing	2020	TOG	1	15.6364701	0.432597635	8.87217013
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2000	PM	0.935	1.05589474	0.95	0.052794737
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2000	TOG	0.4385	1.17086294	0.985	0.017562944
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2001	PM	0.935	1.05487933	0.953	0.049579328
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2001	TOG	0.4385	1.16941057	0.984	0.018710569
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2002	PM	0.935	1.03455556	0.9	0.103455556
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2002	TOG	0.4385	1.14715026	0.965	0.040150259
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2003	PM	0.935	1.03554817	0.903	0.100448173
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2003	TOG	0.4385	1.14824017	0.966	0.039040166
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2004	PM	0.935	1.00548425	0.857	0.143784247
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2004	TOG	0.4385	1.11503198	0.938	0.069131983
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2005	PM	0.935	1.00662791	0.86	0.140927907
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2005	TOG	0.4385	1.11629393	0.939	0.06809393
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2006	PM	0.935	0.981942715	0.803	0.193442715
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2006	TOG	0.4385	1.08875546	0.916	0.091455459
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2007	PM	0.935	0.978678304	0.802	0.193778304
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2007	TOG	0.4385	1.08521358	0.913	0.094413582
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2008	PM	0.935	0.934528552	0.753	0.230828552
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2008	TOG	0.4385	1.03658257	0.872	0.132682569
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2009	PM	0.935	0.930359521	0.751	0.231659521
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2009	TOG	0.4385	1.03168203	0.868	0.136182028
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2010	PM	0.935	0.888616715	0.694	0.271916715
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2010	TOG	0.4385	0.985404101	0.829	0.168504101
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2012	PM	0.935	0.885260116	0.692	0.272660116
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2012	TOG	0.4385	0.981961259	0.826	0.170861259
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2015	PM	0.935	0.881277213	0.689	0.274077213
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2015	TOG	0.4385	0.977007299	0.822	0.173907299
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2018	PM	0.935	0.877874818	0.687	0.274774818
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2018	TOG	0.4385	0.973658537	0.82	0.175258537

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 14 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2020	PM	0.935	0.876934307	0.685	0.276234307
BA	BA_AQMD	WOODSTOVES	EPA NSPS FOR WOODSTOVES	2020	TOG	0.4385	0.972371638	0.818	0.176971638
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2002	CO		3.80977881	0.859	0.537178813
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2002	TOG	0.9219	0.424721604	0.449	0.234021604
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2003	CO		2.73154831	0.859	0.385148312
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2003	TOG	0.9219	0.304231626	0.449	0.167631626
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2004	CO		2.35855646	0.859	0.332556461
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2004	TOG	0.9219	0.263028953	0.449	0.144928953
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2005	CO		2.04693878	0.833	0.341838776
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2005	TOG	0.9219	0.228134557	0.327	0.153534557
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2006	CO		1.9939976	0.833	0.332997599
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2006	TOG	0.9219	0.221406728	0.327	0.149006728
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2007	CO		1.91848739	0.833	0.320387395
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2007	TOG	0.9219	0.213149847	0.327	0.143449847
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2008	CO		1.84381753	0.833	0.307917527
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2008	TOG	0.9219	0.205198777	0.327	0.138098777
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2009	CO		1.79087635	0.833	0.299076351
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2009	TOG	0.9219	0.199082569	0.327	0.133982569
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2010	CO		1.73997599	0.833	0.29057599
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2010	TOG	0.9219	0.193577982	0.327	0.130277982
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2012	CO		1.61536615	0.833	0.269766146
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2012	TOG	0.9219	0.179510703	0.327	0.120810703
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2015	CO		1.43313325	0.833	0.239333253
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2015	TOG	0.9219	0.159327217	0.327	0.107227217
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2018	CO		1.24861945	0.833	0.208519448
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2018	TOG	0.9219	0.13883792	0.327	0.09343792
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2020	CO		1.1242497	0.833	0.1877497
BA	ARBNORTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2020	TOG	0.9219	0.125076453	0.327	0.084176453
ED	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.84572297	1.38965217	0.95455541	0.063152174
ED	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.845790918	1.43264426	0.950125609	0.07145226
ED	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.842501292	1.48224718	0.928517202	0.105955175
ED	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.846550721	1.5324958	0.858528941	0.216803804
ED	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.845916396	1.58147784	0.855334146	0.228785843
ED	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.850644043	1.61611737	0.812683548	0.302725372
ED	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.8506258	1.6621112	0.811072085	0.314019203
ED	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.850442522	1.7025765	0.811060178	0.321684502
ED	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.850491042	1.74585738	0.811573737	0.328965381
ED	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.850342881	1.78984401	0.810792446	0.338652007
ED	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.850329555	1.83487355	0.810514707	0.347681552
ED	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.850412445	1.90477106	0.811064402	0.359879058
ED	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.850312053	2.01188803	0.811025252	0.380196033
ED	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.850259085	2.11600838	0.810862572	0.400216383
ED	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.85018422	2.18586637	0.8102929	0.414674369
ED	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.713429671	0.13196347	0.876	0.01636347
ED	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.713429671	0.13196347	0.876	0.01636347
ED	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.713429671	0.13196347	0.876	0.01636347
ED	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.713429671	0.13196347	0.876	0.01636347
ED	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.713429671	0.13196347	0.876	0.01636347
ED	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.713429671	0.13196347	0.876	0.01636347

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 15 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
ED	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.713429671	0.13196347	0.876	0.01636347
ED	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.713429671	0.13196347	0.876	0.01636347
ED	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.713429671	0.13196347	0.876	0.01636347
ED	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.713429671	0.13196347	0.876	0.01636347
ED	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.713429671	0.13196347	0.876	0.01636347
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	PM	0.96	0.006006006	0.999	0.000006006
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	NOX		0.086534447	0.999	0.000086534
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	PM	0.96	0.006018054	0.997	0.000018054
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	NOX		0.086393805	0.998	0.000172788
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	PM	0.96	0.006036217	0.994	0.000036217
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	NOX		0.08627685	0.995	0.000431384
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	PM	0.96	0.006066734	0.989	0.000066734
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	NOX		0.086070959	0.992	0.000688568
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	PM	0.96	0.006002035	0.983	0.000102035
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	NOX		0.086129458	0.987	0.001119683
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	PM	0.96	0.006051282	0.975	0.000151282
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	NOX		0.086037234	0.981	0.001634707
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	PM	0.96	0.006006322	0.949	0.000306322
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	NOX		0.085888738	0.961	0.003349661
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	PM	0.96	0.005952381	0.924	0.000452381
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	NOX		0.085615491	0.942	0.004965698
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	PM	0.96	0.006013363	0.898	0.000613363
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	NOX		0.085714286	0.922	0.006685714
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	PM	0.96	0.005963303	0.872	0.000763303
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	NOX		0.085425685	0.903	0.008286291
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	PM	0.96	0.006028369	0.846	0.000928369
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	NOX		0.08539823	0.884	0.009906195
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	PM	0.96	0.00591195	0.795	0.00121195
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	NOX		0.08515625	0.835	0.014050781
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	PM	0.96	0.005988858	0.718	0.001688858
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	NOX		0.08492201	0.753	0.020975737
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	PM	0.96	0.005928237	0.641	0.002128237
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	NOX		0.08458498	0.66	0.028758893
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	PM	0.96	0.005932203	0.59	0.002432203
ED	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	NOX		0.084361233	0.592	0.034419383
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO		0.02780666	0.92423903	0.00210666
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		0.027789116	0.885238678	0.003189116
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	NOX		0.079193757	0.960934336	0.003093757
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		0.027887155	0.846267757	0.004287155
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX		0.079269172	0.908297615	0.007269172
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	TOG	0.690603488	0.00971797	0.884958515	0.00111797
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		0.027896927	0.770694219	0.006396927
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	PM	0.714675	0.004298351	0.744471573	0.001098351
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		0.079243027	0.869477134	0.010343027
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	TOG	0.690603488	0.00971797	0.884958515	0.00111797
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.027903683	0.723918767	0.007703683
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	PM	0.714675	0.004298351	0.744471573	0.001098351
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		0.079310148	0.805697649	0.015410148
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	TOG	0.690512329	0.009681191	0.754039447	0.002381191

**CCOS EMISSION REDUCTIONS BY RULE, v2.11**  
 December 8, 2003

Page 16 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.027839234	0.653753614	0.009639234
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	PM	0.714675	0.004298351	0.744471573	0.001098351
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		0.079207913	0.710787571	0.022907913
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	TOG	0.690372727	0.009880911	0.556628855	0.004380911
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.027867755	0.584905391	0.011567755
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	PM	0.716184211	0.004209498	0.451360269	0.002309498
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		0.079245519	0.639783806	0.028545519
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.690529167	0.00981893	0.488851635	0.00501893
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.027636364	0.539144737	0.012736364
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	PM	0.7193	0.003303303	0.333	0.002203303
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		0.079394237	0.591982517	0.032394237
ED	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	TOG	0.690640909	0.009925408	0.443306717	0.005525408
ED	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2012	TOG	0.974868394	0.024236422	0.796322159	0.004936422
ED	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2015	TOG	0.974886567	0.025237323	0.796439463	0.005137323
ED	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2018	TOG	0.974873934	0.026495624	0.796357913	0.005395624
ED	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2020	TOG	0.974918894	0.027239125	0.796648208	0.005539125
ED	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.044277929	0.734	0.011777929
ED	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.045271318	0.645	0.016071318
ED	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.046126126	0.555	0.020526126
ED	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.046995708	0.466	0.025095708
ED	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.048	0.375	0.03
ED	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.048266667	0.375	0.030166667
ED	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.049866667	0.375	0.031166667
ED	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.053066667	0.375	0.033166667
ED	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.056533333	0.375	0.035333333
ED	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.058933333	0.375	0.036833333
ED	ED_APCD	238	Gasoline Transfer and Dispensing	2001	TOG	1	0.065580737	0.496979696	0.032988442
ED	ED_APCD	238	Gasoline Transfer and Dispensing	2002	TOG	1	0.066729705	0.45661936	0.03625963
ED	ED_APCD	238	Gasoline Transfer and Dispensing	2003	TOG	1	0.069047842	0.456678369	0.037515186
ED	ED_APCD	238	Gasoline Transfer and Dispensing	2004	TOG	1	0.070577036	0.456729978	0.038342388
ED	ED_APCD	238	Gasoline Transfer and Dispensing	2005	TOG	1	0.072895173	0.456782355	0.039597944
ED	ED_APCD	238	Gasoline Transfer and Dispensing	2006	TOG	1	0.074440597	0.456815461	0.040434982
ED	ED_APCD	238	Gasoline Transfer and Dispensing	2007	TOG	1	0.07521331	0.456831503	0.0408535
ED	ED_APCD	238	Gasoline Transfer and Dispensing	2008	TOG	1	0.076758734	0.456862619	0.041690538
ED	ED_APCD	238	Gasoline Transfer and Dispensing	2009	TOG	1	0.078304159	0.456892508	0.042527575
ED	ED_APCD	238	Gasoline Transfer and Dispensing	2010	TOG	1	0.079076871	0.456907013	0.042946094
ED	ED_APCD	238	Gasoline Transfer and Dispensing	2012	TOG	1	0.08215149	0.456974748	0.044610334
ED	ED_APCD	238	Gasoline Transfer and Dispensing	2015	TOG	1	0.086787764	0.457049657	0.047121446
ED	ED_APCD	238	Gasoline Transfer and Dispensing	2018	TOG	1	0.092825681	0.456699816	0.050432209
ED	ED_APCD	238	Gasoline Transfer and Dispensing	2020	TOG	1	0.096044081	0.45718846	0.052133836
ED	ED_APCD	239	Residential Water Heaters	2002	NOX		0.014844534	0.997	0.000044534
ED	ED_APCD	239	Residential Water Heaters	2003	NOX		0.015045135	0.997	0.000045135
ED	ED_APCD	239	Residential Water Heaters	2004	NOX		0.015245737	0.997	0.000045737
ED	ED_APCD	239	Residential Water Heaters	2005	NOX		0.015492958	0.994	0.000092958
ED	ED_APCD	239	Residential Water Heaters	2006	NOX		0.015794769	0.994	0.000094769
ED	ED_APCD	239	Residential Water Heaters	2007	NOX		0.016096579	0.994	0.000096579
ED	ED_APCD	239	Residential Water Heaters	2008	NOX		0.016297787	0.994	0.000097787
ED	ED_APCD	239	Residential Water Heaters	2009	NOX		0.016498994	0.994	0.000098994
ED	ED_APCD	239	Residential Water Heaters	2010	NOX		0.016700201	0.994	0.000100201

**CCOS EMISSION REDUCTIONS BY RULE, v2.11**  
 December 8, 2003

Page 17 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
ED	ED_APDC	239	Residential Water Heaters	2012	NOX		0.017203219	0.994	0.000103219
ED	ED_APDC	239	Residential Water Heaters	2015	NOX		0.017907445	0.994	0.000107445
ED	ED_APDC	239	Residential Water Heaters	2018	NOX		0.018812877	0.994	0.000112877
ED	ED_APDC	239	Residential Water Heaters	2020	NOX		0.019315895	0.994	0.000115895
ED	ED_APDC	240	Polyester Resin Operations	2001	TOG	1	0.004606742	0.89	0.000506742
ED	ED_APDC	240	Polyester Resin Operations	2002	TOG	1	0.004831461	0.89	0.000531461
ED	ED_APDC	240	Polyester Resin Operations	2003	TOG	1	0.00505618	0.89	0.00055618
ED	ED_APDC	240	Polyester Resin Operations	2004	TOG	1	0.005393258	0.89	0.000593258
ED	ED_APDC	240	Polyester Resin Operations	2005	TOG	1	0.005617978	0.89	0.000617978
ED	ED_APDC	240	Polyester Resin Operations	2006	TOG	1	0.005842697	0.89	0.000642697
ED	ED_APDC	240	Polyester Resin Operations	2007	TOG	1	0.006067416	0.89	0.000667416
ED	ED_APDC	240	Polyester Resin Operations	2008	TOG	1	0.006292135	0.89	0.000692135
ED	ED_APDC	240	Polyester Resin Operations	2009	TOG	1	0.006404494	0.89	0.000704494
ED	ED_APDC	240	Polyester Resin Operations	2010	TOG	1	0.006629213	0.89	0.000729213
ED	ED_APDC	240	Polyester Resin Operations	2012	TOG	1	0.006966292	0.89	0.000766292
ED	ED_APDC	240	Polyester Resin Operations	2015	TOG	1	0.00752809	0.89	0.00082809
ED	ED_APDC	240	Polyester Resin Operations	2018	TOG	1	0.008089888	0.89	0.000889888
ED	ED_APDC	240	Polyester Resin Operations	2020	TOG	1	0.008426966	0.89	0.000926966
ED	ED_APDC	CARL_MOYER	Carl Moyer Ag Pump Reductions	2000	NOX		0.086534447	0.958	0.003634447
ED	ED_APDC	CARL_MOYER	Carl Moyer Ag Pump Reductions	2001	NOX		0.086393805	0.906	0.008121018
ED	ED_APDC	CARL_MOYER	Carl Moyer Ag Pump Reductions	2002	NOX		0.08627685	0.842	0.013631742
ED	ED_APDC	CARL_MOYER	Carl Moyer Ag Pump Reductions	2003	NOX		0.086070959	0.767	0.020054534
ED	ED_APDC	CARL_MOYER	Carl Moyer Ag Pump Reductions	2004	NOX		0.086129458	0.767	0.020068164
ED	ED_APDC	CARL_MOYER	Carl Moyer Ag Pump Reductions	2005	NOX		0.086037234	0.767	0.020046676
ED	ED_APDC	CARL_MOYER	Carl Moyer Ag Pump Reductions	2006	NOX		0.085888738	0.767	0.020012076
ED	ED_APDC	CARL_MOYER	Carl Moyer Ag Pump Reductions	2007	NOX		0.085615491	0.767	0.019948409
ED	ED_APDC	CARL_MOYER	Carl Moyer Ag Pump Reductions	2008	NOX		0.085714286	0.767	0.019971429
ED	ED_APDC	CARL_MOYER	Carl Moyer Ag Pump Reductions	2009	NOX		0.085425685	0.767	0.019904185
ED	ED_APDC	CARL_MOYER	Carl Moyer Ag Pump Reductions	2010	NOX		0.08539823	0.767	0.019897788
ED	ED_APDC	CARL_MOYER	Carl Moyer Ag Pump Reductions	2012	NOX		0.08515625	0.767	0.019841406
ED	ED_APDC	CARL_MOYER	Carl Moyer Ag Pump Reductions	2015	NOX		0.08492201	0.767	0.019786828
ED	ED_APDC	CARL_MOYER	Carl Moyer Ag Pump Reductions	2018	NOX		0.08458498	0.767	0.0197083
ED	ED_APDC	CARL_MOYER	Carl Moyer Ag Pump Reductions	2020	NOX		0.084361233	0.767	0.019656167
ED	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2000	TOG	1	0.056630435	0.92	0.004530435
ED	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2001	TOG	1	0.05923913	0.92	0.00473913
ED	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2002	TOG	1	0.060602094	0.764	0.014302094
ED	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2003	TOG	1	0.062426901	0.684	0.019726901
ED	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2004	TOG	1	0.063596491	0.684	0.020096491
ED	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2005	TOG	1	0.0657119697	0.528	0.031019697
ED	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2006	TOG	1	0.067045455	0.528	0.031645455
ED	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2007	TOG	1	0.067992424	0.528	0.032092424
ED	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2008	TOG	1	0.069520548	0.292	0.049220548
ED	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2009	TOG	1	0.070547945	0.292	0.049947945
ED	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2010	TOG	1	0.071212121	0.132	0.061812121
ED	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2012	TOG	1	0.073484848	0.132	0.063784848
ED	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2015	TOG	1	0.076515152	0.132	0.066415152
ED	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2018	TOG	1	0.081060606	0.132	0.070360606
ED	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2020	TOG	1	0.087878788	0.132	0.076278788
ED	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.054980737	0.395632633	0.03228564

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 18 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
ED	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.056015419	0.395628758	0.033854108
ED	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.057950903	0.395607758	0.035025076
ED	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.059224995	0.395679638	0.03579087
ED	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.061160479	0.39565813	0.036961838
ED	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.062450801	0.395644533	0.037742483
ED	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.063095963	0.395637942	0.038132806
ED	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.064386285	0.395625158	0.038913451
ED	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.065676608	0.395612875	0.039694096
ED	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.066321769	0.395606913	0.040084419
ED	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.068886184	0.39565736	0.041630858
ED	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.072757152	0.395622386	0.043972794
ED	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.077902211	0.395645867	0.047080523
ED	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.080482857	0.395625158	0.048641814
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		1.14059609	0.973	0.030796095
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.127508455	0.887	0.014408455
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		1.16320658	0.973	0.031406578
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.130101466	0.887	0.014701466
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		1.18636859	0.917	0.098468593
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.132579186	0.663	0.044679186
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		1.20898876	0.89	0.132988764
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.135144928	0.552	0.060544928
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		1.23235955	0.89	0.135559551
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.137862319	0.552	0.061762319
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		1.2559952	0.834	0.208495204
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.14054878	0.328	0.09444878
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		1.27482014	0.834	0.211620144
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.142987805	0.328	0.096087805
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		1.2942446	0.834	0.214844604
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.144512195	0.328	0.097112195
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		1.31366906	0.834	0.218069065
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.147256098	0.328	0.098956098
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		1.33309353	0.834	0.221293525
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.149085366	0.328	0.100185366
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		1.35323741	0.834	0.22463741
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.15152439	0.328	0.10182439
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		1.39268585	0.834	0.231185851
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.155792683	0.328	0.104692683
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		1.45431655	0.834	0.241416547
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.1625	0.328	0.1092
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		1.51606715	0.834	0.251667146
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.169512195	0.328	0.113912195
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		1.55899281	0.834	0.258792806
ED	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.174390244	0.328	0.117190244
FR	ARB	TRAINS	TRAINS EPA MOU	2000	NOX		3.37359596	0.990100783	0.03339596
FR	ARB	TRAINS	TRAINS EPA MOU	2001	NOX		3.4254	0.950487534	0.1696
FR	ARB	TRAINS	TRAINS EPA MOU	2002	NOX		3.47464458	0.890853706	0.379244577
FR	ARB	TRAINS	TRAINS EPA MOU	2003	NOX		3.52907845	0.821375903	0.630378451
FR	ARB	TRAINS	TRAINS EPA MOU	2004	NOX		3.58347368	0.761691097	0.853973684
FR	ARB	TRAINS	TRAINS EPA MOU	2005	PM	1	0.076540404	0.960277136	0.003040404

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 19 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
FR	ARB	TRAINS	TRAINS EPA MOU	2005	NOX		3.63790797	0.682150296	1.15630797
FR	ARB	TRAINS	TRAINS EPA MOU	2005	TOG	0.8785	0.130880682	0.960416757	0.005180682
FR	ARB	TRAINS	TRAINS EPA MOU	2006	PM	1	0.077772288	0.920636409	0.006172288
FR	ARB	TRAINS	TRAINS EPA MOU	2006	NOX		3.69500611	0.632339957	1.35850611
FR	ARB	TRAINS	TRAINS EPA MOU	2006	TOG	0.8785	0.133000978	0.930820226	0.009200978
FR	ARB	TRAINS	TRAINS EPA MOU	2007	PM	1	0.079141252	0.890812291	0.008641252
FR	ARB	TRAINS	TRAINS EPA MOU	2007	NOX		3.75203199	0.592425652	1.52923199
FR	ARB	TRAINS	TRAINS EPA MOU	2007	TOG	0.8785	0.134956916	0.901028295	0.013356916
FR	ARB	TRAINS	TRAINS EPA MOU	2008	PM	1	0.080256533	0.860989096	0.011156533
FR	ARB	TRAINS	TRAINS EPA MOU	2008	NOX		3.8091833	0.572353659	1.6289833
FR	ARB	TRAINS	TRAINS EPA MOU	2008	TOG	0.8785	0.13702205	0.871392596	0.01762205
FR	ARB	TRAINS	TRAINS EPA MOU	2009	PM	1	0.081554983	0.841150321	0.012954983
FR	ARB	TRAINS	TRAINS EPA MOU	2009	NOX		3.86886631	0.55228065	1.73216631
FR	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	0.13913353	0.841637528	0.02203353
FR	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	0.082698171	0.821058065	0.014798171
FR	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		3.93132307	0.542133008	1.80002307
FR	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	0.141300813	0.821651323	0.025200813
FR	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	0.08519526	0.791123826	0.01779526
FR	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		4.04886076	0.531853311	1.89546076
FR	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	0.145559211	0.801735593	0.028859211
FR	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	0.089052174	0.751244996	0.022152174
FR	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		4.23478646	0.511501588	2.06868646
FR	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	0.152246746	0.761921047	0.036246746
FR	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	0.093350214	0.711299925	0.026950214
FR	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		4.43092391	0.481366876	2.29802391
FR	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	0.159200913	0.731779722	0.042700913
FR	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.096196902	0.691290457	0.029696902
FR	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		4.5672531	0.471267949	2.4148531
FR	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	0.164113965	0.701951234	0.048913965
FR	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.842817635	1.22507062	0.953985821	0.056370619
FR	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.842988163	1.24974977	0.950430264	0.061949766
FR	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.842318623	1.30211315	0.929949902	0.091213154
FR	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.846361139	1.33155938	0.859593661	0.186959377
FR	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.845751902	1.36230112	0.856932422	0.194901122
FR	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.85035911	1.38083917	0.811680333	0.260039174
FR	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.850347967	1.40517013	0.81214365	0.263970133
FR	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.850412738	1.4316062	0.812164685	0.268906202
FR	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.850277146	1.45550072	0.812297775	0.273200724
FR	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.850236838	1.48439615	0.811238968	0.280196149
FR	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.85017847	1.5060165	0.811412092	0.284016502
FR	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.850169256	1.5530375	0.810733805	0.293937498
FR	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.850209112	1.61923429	0.81124764	0.305634294
FR	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.850181183	1.69185677	0.811652634	0.318656765
FR	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.850203716	1.74222289	0.810918055	0.329422894
FR	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.714040018	0.123515982	0.876	0.015315982
FR	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.714040018	0.123515982	0.876	0.015315982
FR	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.714040018	0.123515982	0.876	0.015315982
FR	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.714040018	0.123515982	0.876	0.015315982
FR	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.714040018	0.123515982	0.876	0.015315982

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 20 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
FR	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.714040018	0.123515982	0.876	0.015315982
FR	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.714040018	0.123515982	0.876	0.015315982
FR	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.714040018	0.123515982	0.876	0.015315982
FR	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.714040018	0.123515982	0.876	0.015315982
FR	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.714040018	0.123515982	0.876	0.015315982
FR	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.714040018	0.123515982	0.876	0.015315982
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	PM	0.96	0.244144144	0.999	0.000244144
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	NOX		3.30041754	0.999	0.003300418
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	PM	0.96	0.244132397	0.997	0.000732397
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	NOX		3.3	0.998	0.0066
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	PM	0.96	0.244064386	0.994	0.001464386
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	NOX		3.30238663	0.995	0.016511933
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	PM	0.96	0.244186047	0.989	0.002686047
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	NOX		3.29960578	0.992	0.026396846
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	PM	0.96	0.24415056	0.983	0.00415056
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	NOX		3.30211361	0.987	0.042927477
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	PM	0.96	0.244102564	0.975	0.006102564
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	NOX		3.30359043	0.981	0.062768218
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	PM	0.96	0.244151739	0.949	0.012451739
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	NOX		3.30352782	0.961	0.128837585
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	PM	0.96	0.244155844	0.924	0.018555844
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	NOX		3.30082988	0.942	0.191448133
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	PM	0.96	0.244209354	0.898	0.024909354
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	NOX		3.30523338	0.922	0.257808204
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	PM	0.96	0.244380734	0.872	0.031280734
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	NOX		3.3025974	0.903	0.320351948
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	PM	0.96	0.244444444	0.846	0.037644444
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	NOX		3.30235988	0.884	0.383073746
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	PM	0.96	0.244402516	0.795	0.050102516
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	NOX		3.30625	0.835	0.54553125
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	PM	0.96	0.244428969	0.718	0.068928969
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	NOX		3.30693241	0.753	0.816812305
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	PM	0.96	0.244617785	0.641	0.087817785
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	NOX		3.3083004	0.66	1.12482213
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	PM	0.96	0.244745763	0.59	0.100345763
FR	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	NOX		3.30638767	0.592	1.34900617
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO		0.014192849	0.923	0.001092849
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	TOG	0.7168	0.005375	0.8	0.001075
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		0.014184397	0.846	0.002184397
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	NOX		0.039915523	0.947	0.002115523
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	TOG	0.7168	0.005375	0.8	0.001075
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		0.014184397	0.846	0.002184397
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX		0.039956569	0.921	0.003156569
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	TOG	0.7168	0.005375	0.8	0.001075
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		0.014174252	0.769	0.003274252
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		0.039976959	0.868	0.005276959
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	TOG	0.7168	0.005375	0.8	0.001075
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.014144272	0.707	0.004144272
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	PM	0.6942	0.002	0.8	0.0004

**CCOS EMISSION REDUCTIONS BY RULE, v2.11**  
 December 8, 2003

Page 21 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		0.04	0.805	0.0078
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	TOG	0.7168	0.005277778	0.72	0.001477778
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.014146341	0.615	0.005446341
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	PM	0.6942	0.002	0.5	0.001
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		0.039943741	0.711	0.011543741
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	TOG	0.7168	0.005333333	0.6	0.002133333
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.014235501	0.569	0.006135501
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	PM	0.6942	0.002	0.5	0.001
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		0.039873418	0.632	0.014673418
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.7168	0.005416667	0.48	0.002816667
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.014126394	0.538	0.006526394
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	PM	0.6942	0.002	0.5	0.001
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		0.039896373	0.579	0.016796373
FR	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	TOG	0.7168	0.00525	0.4	0.00315
FR	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2012	TOG	0.984909184	0.013086475	0.748864776	0.003286475
FR	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2015	TOG	0.984982178	0.013457326	0.750520583	0.003357326
FR	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2018	TOG	0.984832381	0.013999028	0.750052083	0.003499028
FR	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2020	TOG	0.98485566	0.014166252	0.7482572	0.003566252
FR	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.030790191	0.734	0.008190191
FR	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.031317829	0.645	0.011117829
FR	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.031891892	0.555	0.014191892
FR	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.03304721	0.466	0.01764721
FR	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.0336	0.375	0.021
FR	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.0336	0.375	0.021
FR	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.034666667	0.375	0.021666667
FR	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.036533333	0.375	0.022833333
FR	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.038133333	0.375	0.023833333
FR	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.038666667	0.375	0.024166667
FR	FR_AQMD	3.15	Architectural Coatings	2003	TOG	0.978767332	0.53888625	0.855468106	0.07788625
FR	FR_AQMD	3.15	Architectural Coatings	2004	TOG	0.979795186	0.546397565	0.79831981	0.110197565
FR	FR_AQMD	3.15	Architectural Coatings	2005	TOG	0.979812899	0.553656507	0.7981483	0.111756507
FR	FR_AQMD	3.15	Architectural Coatings	2006	TOG	0.979852883	0.560578909	0.798103519	0.113178909
FR	FR_AQMD	3.15	Architectural Coatings	2007	TOG	0.979870356	0.566004299	0.798050476	0.114304299
FR	FR_AQMD	3.15	Architectural Coatings	2008	TOG	0.979877318	0.57179047	0.798019597	0.11549047
FR	FR_AQMD	3.15	Architectural Coatings	2009	TOG	0.979907182	0.577445995	0.798169879	0.116545995
FR	FR_AQMD	3.15	Architectural Coatings	2010	TOG	0.979938313	0.583640828	0.798264921	0.117740828
FR	FR_AQMD	3.15	Architectural Coatings	2012	TOG	0.979964051	0.593890385	0.798127081	0.119890385
FR	FR_AQMD	3.15	Architectural Coatings	2015	TOG	0.980015293	0.609400479	0.798325594	0.122900479
FR	FR_AQMD	3.15	Architectural Coatings	2018	TOG	0.980049261	0.626992272	0.798414944	0.126392272
FR	FR_AQMD	3.15	Architectural Coatings	2020	TOG	0.980045256	0.637635747	0.798418222	0.128535747
FR	FR_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2000	NOX		3.30041754	0.958	0.138617537
FR	FR_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2001	NOX		3.3	0.906	0.3102
FR	FR_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2002	NOX		3.30238663	0.842	0.521777088
FR	FR_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2003	NOX		3.29960578	0.767	0.768808147
FR	FR_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2004	NOX		3.30211361	0.767	0.76939247
FR	FR_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2005	NOX		3.30359043	0.767	0.769736569
FR	FR_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2006	NOX		3.30352782	0.767	0.769721981
FR	FR_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2007	NOX		3.30082988	0.767	0.769093361
FR	FR_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2008	NOX		3.30523338	0.767	0.770119378

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 22 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
FR	FR_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2009	NOX		3.3025974	0.767	0.769505195
FR	FR_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2010	NOX		3.30235988	0.767	0.769449853
FR	FR_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2012	NOX		3.30625	0.767	0.77035625
FR	FR_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2015	NOX		3.30693241	0.767	0.770515251
FR	FR_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2018	NOX		3.3083004	0.767	0.770833992
FR	FR_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2020	NOX		3.30638767	0.767	0.770388326
FR	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2000	TOG	1	0.047763864	0.559	0.021063864
FR	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2001	TOG	1	0.048658318	0.559	0.021458318
FR	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2002	TOG	1	0.050805009	0.559	0.022405009
FR	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2003	TOG	1	0.050805009	0.559	0.022405009
FR	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2004	TOG	1	0.051699463	0.559	0.022799463
FR	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2005	TOG	1	0.053488372	0.559	0.023588372
FR	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2006	TOG	1	0.054382826	0.559	0.023982826
FR	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2007	TOG	1	0.055456172	0.559	0.024456172
FR	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2008	TOG	1	0.057781753	0.559	0.025481753
FR	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2009	TOG	1	0.058676208	0.559	0.025876208
FR	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2010	TOG	1	0.058676208	0.559	0.025876208
FR	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2012	TOG	1	0.060286225	0.559	0.026586225
FR	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2015	TOG	1	0.063506261	0.559	0.028006261
FR	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2018	TOG	1	0.066189624	0.559	0.029189624
FR	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2020	TOG	1	0.067084079	0.559	0.029584079
FR	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2000	TOG	1	0.024563758	0.745	0.006263758
FR	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.025170068	0.294	0.017770068
FR	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.026190476	0.294	0.018490476
FR	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.026190476	0.294	0.018490476
FR	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.026530612	0.294	0.018730612
FR	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.027891156	0.294	0.019691156
FR	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.028231293	0.294	0.019931293
FR	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.028571429	0.294	0.020171429
FR	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.029931973	0.294	0.021131973
FR	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.030272109	0.294	0.021372109
FR	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.030272109	0.294	0.021372109
FR	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.031292517	0.294	0.022092517
FR	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.032653061	0.294	0.023053061
FR	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.034353741	0.294	0.024253741
FR	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.035034014	0.294	0.024734014
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		0.801336074	0.973	0.021636074
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.088951522	0.887	0.010051522
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		0.817163412	0.973	0.022063412
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.090755355	0.887	0.010255355
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		0.833151581	0.917	0.069151581
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.092458522	0.663	0.031158522
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		0.849550562	0.89	0.093450562
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.094202899	0.552	0.042202899
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		0.865617978	0.89	0.095217978
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.096014493	0.552	0.043014493
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		0.882254197	0.834	0.146454197
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.098170732	0.328	0.065970732
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		0.895683453	0.834	0.148683453

**CCOS EMISSION REDUCTIONS BY RULE, v2.11**  
 December 8, 2003

Page 23 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.099695122	0.328	0.066995122
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		0.908992806	0.834	0.150892806
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.101219512	0.328	0.068019512
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		0.922781775	0.834	0.153181775
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.102439024	0.328	0.068839024
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		0.936570743	0.834	0.155470743
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.103963415	0.328	0.069863415
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		0.950479616	0.834	0.157779616
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.105792683	0.328	0.071092683
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		0.97793765	0.834	0.16233765
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.108536585	0.328	0.072936585
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		1.02158273	0.834	0.169582734
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.113414634	0.328	0.076214634
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		1.06498801	0.834	0.17678801
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.118292683	0.328	0.079492683
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		1.09508393	0.834	0.181783933
FR	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.121646341	0.328	0.081746341
NS	ARB	TRAINS	TRAINS EPA MOU	2000	NOX		0.298686869	0.99	0.002986869
NS	ARB	TRAINS	TRAINS EPA MOU	2001	NOX		0.303368421	0.95	0.015168421
NS	ARB	TRAINS	TRAINS EPA MOU	2002	NOX		0.307865169	0.89	0.033865169
NS	ARB	TRAINS	TRAINS EPA MOU	2003	NOX		0.312804878	0.82	0.056304878
NS	ARB	TRAINS	TRAINS EPA MOU	2004	NOX		0.317631579	0.76	0.076231579
NS	ARB	TRAINS	TRAINS EPA MOU	2005	PM	1	0.021458333	0.96	0.000858333
NS	ARB	TRAINS	TRAINS EPA MOU	2005	NOX		0.322647059	0.68	0.103247059
NS	ARB	TRAINS	TRAINS EPA MOU	2005	TOG	0.8785	0.0146875	0.96	0.0005875
NS	ARB	TRAINS	TRAINS EPA MOU	2006	PM	1	0.021847826	0.92	0.001747826
NS	ARB	TRAINS	TRAINS EPA MOU	2006	NOX		0.327777778	0.63	0.121277778
NS	ARB	TRAINS	TRAINS EPA MOU	2006	TOG	0.8785	0.014946237	0.93	0.001046237
NS	ARB	TRAINS	TRAINS EPA MOU	2007	PM	1	0.022134831	0.89	0.002434831
NS	ARB	TRAINS	TRAINS EPA MOU	2007	NOX		0.332881356	0.59	0.136481356
NS	ARB	TRAINS	TRAINS EPA MOU	2007	TOG	0.8785	0.015222222	0.9	0.001522222
NS	ARB	TRAINS	TRAINS EPA MOU	2008	PM	1	0.02255814	0.86	0.00315814
NS	ARB	TRAINS	TRAINS EPA MOU	2008	NOX		0.338070175	0.57	0.145370175
NS	ARB	TRAINS	TRAINS EPA MOU	2008	TOG	0.8785	0.015402299	0.87	0.002002299
NS	ARB	TRAINS	TRAINS EPA MOU	2009	PM	1	0.022857143	0.84	0.003657143
NS	ARB	TRAINS	TRAINS EPA MOU	2009	NOX		0.343454545	0.55	0.154554545
NS	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	0.015714286	0.84	0.002514286
NS	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	0.023292683	0.82	0.004192683
NS	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		0.349074074	0.54	0.160574074
NS	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	0.01597561	0.82	0.00287561
NS	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	0.023924051	0.79	0.005024051
NS	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		0.359622642	0.53	0.169022642
NS	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	0.016375	0.8	0.003275
NS	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	0.025066667	0.75	0.006266667
NS	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		0.37627451	0.51	0.18437451
NS	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	0.017236842	0.76	0.004136842
NS	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	0.026197183	0.71	0.007597183
NS	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		0.39375	0.48	0.20475
NS	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	0.017945205	0.73	0.004845205

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 24 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
NS	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.027101449	0.69	0.008401449
NS	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		0.405957447	0.47	0.215157447
NS	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	0.018571429	0.7	0.005571429
NS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.842557761	0.499304392	0.953526562	0.023204392
NS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.842762637	0.509352426	0.950029833	0.025452426
NS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.842065315	0.530754558	0.929431491	0.037454558
NS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.846392746	0.544076429	0.858886684	0.076776429
NS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.845554611	0.556082065	0.854190469	0.081082065
NS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.849757375	0.562614813	0.811034457	0.106314813
NS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.849835588	0.571799914	0.811822438	0.107599914
NS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.849828756	0.582184708	0.810567495	0.110284708
NS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.849867834	0.591654791	0.810776837	0.111954791
NS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.849844016	0.600635104	0.810974912	0.113535104
NS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.849685202	0.609740103	0.810181251	0.115740103
NS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.849742617	0.625137074	0.810382268	0.118537074
NS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.849670882	0.649036024	0.809046001	0.123936024
NS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.849442017	0.671568622	0.810490517	0.127268622
NS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.849881029	0.688678624	0.80981169	0.130978624
NS	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.7128	0.051141553	0.876	0.006341553
NS	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.7128	0.051141553	0.876	0.006341553
NS	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.7128	0.051141553	0.876	0.006341553
NS	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.7128	0.051141553	0.876	0.006341553
NS	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.7128	0.051141553	0.876	0.006341553
NS	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.7128	0.051141553	0.876	0.006341553
NS	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.7128	0.051141553	0.876	0.006341553
NS	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.7128	0.051141553	0.876	0.006341553
NS	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.7128	0.051141553	0.876	0.006341553
NS	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.7128	0.051141553	0.876	0.006341553
NS	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.7128	0.051141553	0.876	0.006341553
NS	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2003	TOG	0.978624919	0.216740573	0.855400525	0.031340573
NS	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2004	TOG	0.979707017	0.219627823	0.798168454	0.044327823
NS	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2005	TOG	0.97971135	0.221849742	0.798288058	0.044749742
NS	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2006	TOG	0.979741321	0.223759456	0.798178558	0.045159456
NS	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2007	TOG	0.97974	0.22563379	0.797752854	0.04563379
NS	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2008	TOG	0.979777729	0.227426754	0.797619438	0.046026754
NS	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2009	TOG	0.979812377	0.22886872	0.797837295	0.04626872
NS	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2010	TOG	0.979779632	0.231340517	0.797957931	0.046740517
NS	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2012	TOG	0.979810963	0.235578576	0.797610732	0.047678576
NS	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2015	TOG	0.97986228	0.241921032	0.797780987	0.048921032
NS	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2018	TOG	0.979898596	0.249840736	0.798108441	0.050440736
NS	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2020	TOG	0.979894014	0.255319765	0.798214741	0.051519765
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	PM	0.96	0.016416416	0.999	0.000016416
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	NOX		0.234034034	0.999	0.000234034
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	PM	0.96	0.016449348	0.997	0.000049348
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	NOX		0.234268537	0.998	0.000468537
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	PM	0.96	0.016498994	0.994	0.000098994
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	NOX		0.234673367	0.995	0.001173367
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	PM	0.96	0.016481294	0.989	0.000181294
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	NOX		0.234879032	0.992	0.001879032

**CCOS EMISSION REDUCTIONS BY RULE, v2.11**  
 December 8, 2003

Page 25 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	PM	0.96	0.016581892	0.983	0.000281892
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	NOX		0.235359676	0.987	0.003059676
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	PM	0.96	0.016615385	0.975	0.000415385
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	NOX		0.23567788	0.981	0.00447788
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	PM	0.96	0.016649104	0.949	0.000849104
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	NOX		0.236108221	0.961	0.009208221
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	PM	0.96	0.016666667	0.924	0.001266667
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	NOX		0.23641189	0.942	0.01371189
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	PM	0.96	0.016592428	0.898	0.001692428
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	NOX		0.236876356	0.922	0.018476356
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	PM	0.96	0.016743119	0.872	0.002143119
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	NOX		0.237209302	0.903	0.023009302
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	PM	0.96	0.016666667	0.846	0.002566667
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	NOX		0.237330317	0.884	0.027530317
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	PM	0.96	0.01672956	0.795	0.00342956
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	NOX		0.238203593	0.835	0.039303593
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	PM	0.96	0.016852368	0.718	0.004752368
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	NOX		0.239176627	0.753	0.059076627
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	PM	0.96	0.016848674	0.641	0.006048674
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	NOX		0.240454545	0.66	0.081754545
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	PM	0.96	0.016949153	0.59	0.006949153
NS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	NOX		0.241047297	0.592	0.098347297
NS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO		0.010123735	0.889	0.001123735
NS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	NOX		0.031120332	0.964	0.001120332
NS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		0.010123735	0.889	0.001123735
NS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	NOX		0.031108719	0.929	0.002208719
NS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		0.010123735	0.889	0.001123735
NS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX		0.031155193	0.857	0.004455193
NS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		0.010025707	0.778	0.002225707
NS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		0.031181486	0.821	0.005581486
NS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.010081744	0.734	0.002681744
NS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		0.031151832	0.764	0.007351832
NS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	TOG	0.7273	0.003344867	0.867	0.000444867
NS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.010044978	0.667	0.003344978
NS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		0.031222386	0.679	0.010022386
NS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	TOG	0.7273	0.003298351	0.667	0.001098351
NS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.01	0.6	0.004
NS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		0.031107492	0.614	0.012007492
NS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.7273	0.003426124	0.467	0.001826124
NS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.010071942	0.556	0.004471942
NS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		0.03117338	0.571	0.01337338
NS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	TOG	0.7273	0.003303303	0.333	0.002203303
NS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.039373297	0.734	0.010473297
NS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.040155039	0.645	0.014255039
NS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.040540541	0.555	0.018040541
NS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.041201717	0.466	0.022001717
NS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.041866667	0.375	0.026166667
NS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.042133333	0.375	0.026333333
NS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.043733333	0.375	0.027333333

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 26 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
NS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.045866667	0.375	0.028666667
NS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.048533333	0.375	0.030333333
NS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.050133333	0.375	0.031333333
NS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.049620253	0.395	0.030020253
NS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.050632911	0.395	0.030632911
NS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.05164557	0.395	0.03124557
NS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.052405063	0.395	0.031705063
NS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.053417722	0.395	0.032317722
NS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.05443038	0.395	0.03293038
NS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.054936709	0.395	0.033236709
NS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.055949367	0.395	0.033849367
NS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.056708861	0.395	0.034308861
NS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.05721519	0.395	0.03461519
NS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.059493671	0.395	0.035993671
NS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.062531646	0.395	0.037831646
NS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.065822785	0.395	0.039822785
NS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.068101266	0.395	0.041201266
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		0.263412127	0.973	0.007112127
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.029763247	0.887	0.003363247
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		0.268653649	0.973	0.007253649
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.030326945	0.887	0.003426945
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		0.274045802	0.917	0.022745802
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.03107089	0.663	0.01047089
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		0.279325843	0.89	0.030725843
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.031521739	0.552	0.014121739
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		0.284606742	0.89	0.031306742
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.032246377	0.552	0.014446377
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		0.290047962	0.834	0.048147962
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.032621951	0.328	0.021921951
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		0.294484412	0.834	0.048884412
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.033231707	0.328	0.022331707
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		0.298920863	0.834	0.049620863
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.033841463	0.328	0.022741463
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		0.303477218	0.834	0.050377218
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.034146341	0.328	0.022946341
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		0.308033573	0.834	0.051133573
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.035060976	0.328	0.023560976
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		0.312589928	0.834	0.051889928
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.035365854	0.328	0.023765854
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		0.321582734	0.834	0.053382734
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.036280488	0.328	0.024380488
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		0.335851319	0.834	0.055751319
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.037804878	0.328	0.025404878
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		0.350239808	0.834	0.058139808
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.039634146	0.328	0.026634146
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		0.360071942	0.834	0.059771942
NS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.04054878	0.328	0.02724878
SB	ARB	TRAINS	TRAINS EPA MOU	2000	NOX		2.25030303	0.99	0.02250303
SB	ARB	TRAINS	TRAINS EPA MOU	2001	NOX		2.28557895	0.95	0.114278947

**CCOS EMISSION REDUCTIONS BY RULE, v2.11**  
December 8, 2003

Page 27 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SB	ARB	TRAINS	TRAINS EPA MOU	2002	NOX		2.31910112	0.89	0.255101124
SB	ARB	TRAINS	TRAINS EPA MOU	2003	NOX		2.35621951	0.82	0.424119512
SB	ARB	TRAINS	TRAINS EPA MOU	2004	NOX		2.39315789	0.76	0.574357895
SB	ARB	TRAINS	TRAINS EPA MOU	2005	PM	1	0.050416667	0.96	0.002016667
SB	ARB	TRAINS	TRAINS EPA MOU	2005	NOX		2.43029412	0.68	0.777694118
SB	ARB	TRAINS	TRAINS EPA MOU	2005	TOG	0.8785	0.088125	0.96	0.003525
SB	ARB	TRAINS	TRAINS EPA MOU	2006	PM	1	0.051195652	0.92	0.004095652
SB	ARB	TRAINS	TRAINS EPA MOU	2006	NOX		2.46904762	0.63	0.913547619
SB	ARB	TRAINS	TRAINS EPA MOU	2006	TOG	0.8785	0.089569892	0.93	0.006269892
SB	ARB	TRAINS	TRAINS EPA MOU	2007	PM	1	0.052022472	0.89	0.005722472
SB	ARB	TRAINS	TRAINS EPA MOU	2007	NOX		2.50779661	0.59	1.02819661
SB	ARB	TRAINS	TRAINS EPA MOU	2007	TOG	0.8785	0.091	0.9	0.0091
SB	ARB	TRAINS	TRAINS EPA MOU	2008	PM	1	0.052790698	0.86	0.007390698
SB	ARB	TRAINS	TRAINS EPA MOU	2008	NOX		2.54666667	0.57	1.09506667
SB	ARB	TRAINS	TRAINS EPA MOU	2008	TOG	0.8785	0.092413793	0.87	0.012013793
SB	ARB	TRAINS	TRAINS EPA MOU	2009	PM	1	0.053690476	0.84	0.008590476
SB	ARB	TRAINS	TRAINS EPA MOU	2009	NOX		2.58727273	0.55	1.16427273
SB	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	0.093809524	0.84	0.015009524
SB	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	0.054512195	0.82	0.009812195
SB	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		2.62944444	0.54	1.20954444
SB	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	0.095365854	0.82	0.017165854
SB	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	0.056202532	0.79	0.011802532
SB	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		2.70886792	0.53	1.27316792
SB	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	0.09825	0.8	0.01965
SB	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	0.0588	0.75	0.0147
SB	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		2.83411765	0.51	1.38871765
SB	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	0.102763158	0.76	0.024663158
SB	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	0.061549296	0.71	0.017849296
SB	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		2.96645833	0.48	1.54255833
SB	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	0.107671233	0.73	0.029071233
SB	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.063478261	0.69	0.019678261
SB	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		3.05808511	0.47	1.62078511
SB	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	0.111	0.7	0.0333
SB	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.847101333	3.60382574	0.955234868	0.161325736
SB	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.846887494	3.64946943	0.951754787	0.176069428
SB	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.84358259	3.71418149	0.930326105	0.258781493
SB	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.847837164	3.77929497	0.860557332	0.526994973
SB	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.847234901	3.84318775	0.857361184	0.54818775
SB	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.851750874	3.86456811	0.813751993	0.719768107
SB	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.851738722	3.92380824	0.813877694	0.730308238
SB	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.851671685	3.98423321	0.813381103	0.743533206
SB	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.851626509	4.14133833	0.793753067	0.854138328
SB	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.851591349	4.20267053	0.793543052	0.867670529
SB	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.851501991	4.26157552	0.793298155	0.880875523
SB	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.85148027	4.39490089	0.794147601	0.904700893
SB	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.85151024	4.59473773	0.794931119	0.942237725
SB	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.851528226	4.8474686	0.795920575	0.989268605
SB	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.851490083	5.01666142	0.796386216	1.02146142
SB	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.713163235	0.359246575	0.876	0.044546575

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 28 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SB	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.713163235	0.359246575	0.876	0.044546575
SB	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.713163235	0.359246575	0.876	0.044546575
SB	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.713163235	0.359246575	0.876	0.044546575
SB	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.713163235	0.359246575	0.876	0.044546575
SB	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.713163235	0.359246575	0.876	0.044546575
SB	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.713163235	0.359246575	0.876	0.044546575
SB	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.713163235	0.359246575	0.876	0.044546575
SB	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.713163235	0.359246575	0.876	0.044546575
SB	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.713163235	0.359246575	0.876	0.044546575
SB	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.713163235	0.359246575	0.876	0.044546575
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	PM	0.96	0.118118118	0.999	0.000118118
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	NOX		1.62822823	0.999	0.001628228
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	PM	0.96	0.120160481	0.997	0.000360481
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	NOX		1.65581162	0.998	0.003311623
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	PM	0.96	0.1222334	0.994	0.0007334
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	NOX		1.68532663	0.995	0.008426633
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	PM	0.96	0.124368049	0.989	0.001368049
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	NOX		1.71310484	0.992	0.013704839
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	PM	0.96	0.126449644	0.983	0.002149644
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	NOX		1.74255319	0.987	0.022653191
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	PM	0.96	0.128512821	0.975	0.003212821
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	NOX		1.77104995	0.981	0.033649949
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	PM	0.96	0.130558483	0.949	0.006658483
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	NOX		1.80031217	0.961	0.070212175
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	PM	0.96	0.132575758	0.924	0.010075758
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	NOX		1.82887473	0.942	0.106074735
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	PM	0.96	0.134743875	0.898	0.013743875
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	NOX		1.85824295	0.922	0.14494295
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	PM	0.96	0.136926606	0.872	0.017526606
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	NOX		1.88693245	0.903	0.183032447
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	PM	0.96	0.139007092	0.846	0.021407092
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	NOX		1.91414027	0.884	0.222040271
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	PM	0.96	0.143144654	0.795	0.029344654
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	NOX		1.97233533	0.835	0.325435329
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	PM	0.96	0.149303621	0.718	0.042103621
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	NOX		2.05790173	0.753	0.508301726
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	PM	0.96	0.155694228	0.641	0.055894228
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	NOX		2.14560606	0.66	0.729506061
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	PM	0.96	0.159830508	0.59	0.065530508
SB	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	NOX		2.20202703	0.592	0.898427027
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2005	CO		0.063451777	0.985	0.000951777
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	CO		0.063471778	0.939	0.003871778
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	TOG	0.6694	0.023173278	0.958	0.000973278
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO		0.063534676	0.894	0.006734676
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	PM	0.6042	0.008333333	0.9	0.000833333
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	NOX		0.177074689	0.964	0.006374689
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	TOG	0.6694	0.023227917	0.917	0.001927917
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		0.063443396	0.848	0.009643396
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	PM	0.6042	0.008333333	0.9	0.000833333

**CCOS EMISSION REDUCTIONS BY RULE, v2.11**  
December 8, 2003

Page 29 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	NOX		0.177031419	0.923	0.013631419
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	TOG	0.6694	0.0232	0.875	0.0029
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		0.063511831	0.803	0.012511831
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	PM	0.6042	0.00825	0.8	0.00165
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX		0.17707151	0.881	0.02107151
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	TOG	0.6694	0.023169268	0.833	0.003869268
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		0.063456464	0.758	0.015356464
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	PM	0.6042	0.00825	0.8	0.00165
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		0.17702381	0.84	0.02832381
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	TOG	0.6694	0.0232	0.75	0.0058
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.063558106	0.697	0.019258106
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	PM	0.6042	0.008333333	0.72	0.002333333
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		0.177061856	0.776	0.039661856
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	TOG	0.6694	0.023279649	0.683	0.007379649
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.063531353	0.606	0.025031353
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	PM	0.6042	0.008333333	0.6	0.003333333
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		0.177058824	0.68	0.056658824
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	TOG	0.6694	0.023156089	0.583	0.009656089
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.063468635	0.542	0.029068635
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	PM	0.6042	0.008333333	0.48	0.004333333
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		0.176960784	0.612	0.068660784
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.6694	0.023188406	0.483	0.011988406
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.0634	0.5	0.0317
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	PM	0.6042	0.00825	0.4	0.00495
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		0.17707231	0.567	0.07667231
SB	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	TOG	0.6694	0.023261391	0.417	0.013561391
SB	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.108876812	0.734	0.028961232
SB	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.111134021	0.645	0.039452577
SB	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.112230216	0.555	0.049942446
SB	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.114	0.466	0.060876
SB	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.115602837	0.375	0.072251773
SB	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.117375887	0.375	0.073359929
SB	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.120212766	0.375	0.075132979
SB	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.124822695	0.375	0.078014184
SB	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.129078014	0.375	0.080673759
SB	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.132624113	0.375	0.082890071
SB	SB_APCD	316	STORAGE AND TRANSFER OF GASOLINE	2005	TOG	1	0.693798093	0.347422738	0.45275686
SB	SB_APCD	316	STORAGE AND TRANSFER OF GASOLINE	2006	TOG	1	0.707168711	0.347566158	0.461380799
SB	SB_APCD	316	STORAGE AND TRANSFER OF GASOLINE	2007	TOG	1	0.713899715	0.347614174	0.465738056
SB	SB_APCD	316	STORAGE AND TRANSFER OF GASOLINE	2008	TOG	1	0.719105857	0.348408069	0.468563574
SB	SB_APCD	316	STORAGE AND TRANSFER OF GASOLINE	2009	TOG	1	0.736289132	0.347481733	0.480442109
SB	SB_APCD	316	STORAGE AND TRANSFER OF GASOLINE	2010	TOG	1	0.746816475	0.347581504	0.487236881
SB	SB_APCD	316	STORAGE AND TRANSFER OF GASOLINE	2012	TOG	1	0.764388398	0.347614003	0.498676287
SB	SB_APCD	316	STORAGE AND TRANSFER OF GASOLINE	2015	TOG	1	0.792918257	0.347674171	0.517241059
SB	SB_APCD	316	STORAGE AND TRANSFER OF GASOLINE	2018	TOG	1	0.821373156	0.347559414	0.535897183
SB	SB_APCD	316	STORAGE AND TRANSFER OF GASOLINE	2020	TOG	1	0.843148314	0.347615732	0.550056696
SB	SB_APCD	321	SOLVENT CLEANING OPERATIONS	2005	TOG	0.587691293	0.464270858	0.581341679	0.194370858
SB	SB_APCD	321	SOLVENT CLEANING OPERATIONS	2006	TOG	0.587704227	0.48424296	0.581319757	0.20274296
SB	SB_APCD	321	SOLVENT CLEANING OPERATIONS	2007	TOG	0.58743269	0.499404882	0.581291875	0.209104882

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 30 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SB	SB_APCD	321	SOLVENT CLEANING OPERATIONS	2008	TOG	0.587681709	0.515451222	0.581238315	0.215851222
SB	SB_APCD	321	SOLVENT CLEANING OPERATIONS	2009	TOG	0.58745312	0.532126875	0.581252356	0.222826875
SB	SB_APCD	321	SOLVENT CLEANING OPERATIONS	2010	TOG	0.587232758	0.548319725	0.581230231	0.229619725
SB	SB_APCD	321	SOLVENT CLEANING OPERATIONS	2012	TOG	0.587429973	0.580367497	0.581183477	0.243067497
SB	SB_APCD	321	SOLVENT CLEANING OPERATIONS	2015	TOG	0.587017375	0.627927366	0.581118168	0.263027366
SB	SB_APCD	321	SOLVENT CLEANING OPERATIONS	2018	TOG	0.586980746	0.669462055	0.581063552	0.280462055
SB	SB_APCD	321	SOLVENT CLEANING OPERATIONS	2020	TOG	0.586680529	0.696470668	0.581072568	0.291770668
SB	SB_APCD	323	ARCHITECTURAL COATINGS	2005	TOG	0.97200275	0.948462744	0.766819787	0.221162744
SB	SB_APCD	323	ARCHITECTURAL COATINGS	2006	TOG	0.972060185	0.956908513	0.766426455	0.223508513
SB	SB_APCD	323	ARCHITECTURAL COATINGS	2007	TOG	0.972097525	0.965175151	0.766182179	0.225675151
SB	SB_APCD	323	ARCHITECTURAL COATINGS	2008	TOG	0.972135732	0.972612074	0.765978564	0.227612074
SB	SB_APCD	323	ARCHITECTURAL COATINGS	2009	TOG	0.972181307	0.980890232	0.765732979	0.229790232
SB	SB_APCD	323	ARCHITECTURAL COATINGS	2010	TOG	0.972230739	0.986979239	0.765365643	0.231579239
SB	SB_APCD	323	ARCHITECTURAL COATINGS	2012	TOG	0.972296923	1.00269093	0.764941592	0.235690935
SB	SB_APCD	323	ARCHITECTURAL COATINGS	2015	TOG	0.972374354	1.02711985	0.764565106	0.241819854
SB	SB_APCD	323	ARCHITECTURAL COATINGS	2018	TOG	0.972435853	1.05260703	0.764197821	0.248207031
SB	SB_APCD	323	ARCHITECTURAL COATINGS	2020	TOG	0.972481895	1.06937122	0.763906852	0.252471217
SB	SB_APCD	325	CRUDE OIL PRODUCTION, SEPARATION & STORAGE	2005	TOG	0.643453184	0.224765791	0.482378852	0.116343527
SB	SB_APCD	325	CRUDE OIL PRODUCTION, SEPARATION & STORAGE	2006	TOG	0.641853646	0.214042781	0.480657807	0.111161447
SB	SB_APCD	325	CRUDE OIL PRODUCTION, SEPARATION & STORAGE	2007	TOG	0.640781769	0.20358368	0.479327978	0.106000326
SB	SB_APCD	325	CRUDE OIL PRODUCTION, SEPARATION & STORAGE	2008	TOG	0.639866573	0.196210783	0.476585835	0.102699503
SB	SB_APCD	325	CRUDE OIL PRODUCTION, SEPARATION & STORAGE	2009	TOG	0.638652444	0.185600167	0.474747956	0.097486867
SB	SB_APCD	325	CRUDE OIL PRODUCTION, SEPARATION & STORAGE	2010	TOG	0.636867593	0.176965334	0.472738185	0.093307063
SB	SB_APCD	325	CRUDE OIL PRODUCTION, SEPARATION & STORAGE	2012	TOG	0.634421369	0.161819876	0.46869295	0.085976041
SB	SB_APCD	325	CRUDE OIL PRODUCTION, SEPARATION & STORAGE	2015	TOG	0.630257836	0.142240913	0.461572507	0.076586418
SB	SB_APCD	325	CRUDE OIL PRODUCTION, SEPARATION & STORAGE	2018	TOG	0.62678	0.127902708	0.455831054	0.069600682
SB	SB_APCD	325	CRUDE OIL PRODUCTION, SEPARATION & STORAGE	2020	TOG	0.624270968	0.12042219	0.451042984	0.066106606
SB	SB_APCD	326	STORAGE OF REACTIVE ORGANIC COMPOUND LIQUIDS	2005	TOG	0.716053125	0.124106757	0.486051412	0.063784492
SB	SB_APCD	326	STORAGE OF REACTIVE ORGANIC COMPOUND LIQUIDS	2006	TOG	0.715826531	0.114087097	0.486306822	0.058605763
SB	SB_APCD	326	STORAGE OF REACTIVE ORGANIC COMPOUND LIQUIDS	2007	TOG	0.715775735	0.105441669	0.486367051	0.054158315
SB	SB_APCD	326	STORAGE OF REACTIVE ORGANIC COMPOUND LIQUIDS	2008	TOG	0.716759843	0.099041783	0.48475783	0.051030503
SB	SB_APCD	326	STORAGE OF REACTIVE ORGANIC COMPOUND LIQUIDS	2009	TOG	0.716788793	0.090396355	0.48467994	0.046583055
SB	SB_APCD	326	STORAGE OF REACTIVE ORGANIC COMPOUND LIQUIDS	2010	TOG	0.717079439	0.083125159	0.484309101	0.042866888
SB	SB_APCD	326	STORAGE OF REACTIVE ORGANIC COMPOUND LIQUIDS	2012	TOG	0.71719337	0.070311839	0.484183536	0.036268004
SB	SB_APCD	326	STORAGE OF REACTIVE ORGANIC COMPOUND LIQUIDS	2015	TOG	0.714358209	0.052092817	0.488637327	0.026638322
SB	SB_APCD	326	STORAGE OF REACTIVE ORGANIC COMPOUND LIQUIDS	2018	TOG	0.714653846	0.04032586	0.488570512	0.020623834
SB	SB_APCD	326	STORAGE OF REACTIVE ORGANIC COMPOUND LIQUIDS	2020	TOG	0.710505882	0.033037104	0.493856364	0.01672152
SB	SB_APCD	329	CUTBACK & EMULSIFIED ASPHALT PAVING MATERIALS	2005	TOG	1	0.31359742	0.405934462	0.18629742
SB	SB_APCD	329	CUTBACK & EMULSIFIED ASPHALT PAVING MATERIALS	2006	TOG	1	0.315816327	0.405932149	0.187616327
SB	SB_APCD	329	CUTBACK & EMULSIFIED ASPHALT PAVING MATERIALS	2007	TOG	1	0.316307278	0.405934384	0.187907278
SB	SB_APCD	329	CUTBACK & EMULSIFIED ASPHALT PAVING MATERIALS	2008	TOG	1	0.316798229	0.405936613	0.188198229
SB	SB_APCD	329	CUTBACK & EMULSIFIED ASPHALT PAVING MATERIALS	2009	TOG	1	0.317780131	0.40594105	0.188780131
SB	SB_APCD	329	CUTBACK & EMULSIFIED ASPHALT PAVING MATERIALS	2010	TOG	1	0.318526184	0.405932091	0.189226184
SB	SB_APCD	329	CUTBACK & EMULSIFIED ASPHALT PAVING MATERIALS	2012	TOG	1	0.319508086	0.405936518	0.189808086
SB	SB_APCD	329	CUTBACK & EMULSIFIED ASPHALT PAVING MATERIALS	2015	TOG	1	0.321236042	0.405932035	0.190836042
SB	SB_APCD	329	CUTBACK & EMULSIFIED ASPHALT PAVING MATERIALS	2018	TOG	1	0.321726993	0.405934233	0.191126993
SB	SB_APCD	329	CUTBACK & EMULSIFIED ASPHALT PAVING MATERIALS	2020	TOG	1	0.322217944	0.405936424	0.191417944
SB	SB_APCD	330	SURFACE COATING OF METAL PARTS & PRODUCTS	2005	TOG	0.988001004	1.29049047	0.926236984	0.09519047
SB	SB_APCD	330	SURFACE COATING OF METAL PARTS & PRODUCTS	2006	TOG	0.988000953	1.359341	0.926404777	0.100041004

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 31 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SB	SB_APDC	330	SURFACE COATING OF METAL PARTS & PRODUCTS	2007	TOG	0.988000919	1.40832404	0.926846356	0.103024035
SB	SB_APDC	330	SURFACE COATING OF METAL PARTS & PRODUCTS	2008	TOG	0.988000887	1.45957229	0.927189429	0.106272292
SB	SB_APDC	330	SURFACE COATING OF METAL PARTS & PRODUCTS	2009	TOG	0.988000856	1.50943515	0.928360522	0.108135146
SB	SB_APDC	330	SURFACE COATING OF METAL PARTS & PRODUCTS	2010	TOG	0.988000827	1.56246165	0.928662796	0.111461646
SB	SB_APDC	330	SURFACE COATING OF METAL PARTS & PRODUCTS	2012	TOG	0.988000776	1.66714086	0.927995968	0.120040865
SB	SB_APDC	330	SURFACE COATING OF METAL PARTS & PRODUCTS	2015	TOG	0.98800071	1.81969898	0.928615129	0.129898977
SB	SB_APDC	330	SURFACE COATING OF METAL PARTS & PRODUCTS	2018	TOG	0.988	1.95252325	0.928951809	0.138723245
SB	SB_APDC	330	SURFACE COATING OF METAL PARTS & PRODUCTS	2020	TOG	0.988	2.04023826	0.929303227	0.144238261
SB	SB_APDC	331	FUGITIVE EMISSIONS INSPECTION & MAINTENANCE	2005	TOG	0.383502421	4.95155229	0.405428416	2.94405229
SB	SB_APDC	331	FUGITIVE EMISSIONS INSPECTION & MAINTENANCE	2006	TOG	0.382609458	4.83656046	0.405536128	2.87516046
SB	SB_APDC	331	FUGITIVE EMISSIONS INSPECTION & MAINTENANCE	2007	TOG	0.381587157	4.69505719	0.405639361	2.79055719
SB	SB_APDC	331	FUGITIVE EMISSIONS INSPECTION & MAINTENANCE	2008	TOG	0.380561802	4.57678922	0.40572111	2.71988922
SB	SB_APDC	331	FUGITIVE EMISSIONS INSPECTION & MAINTENANCE	2009	TOG	0.379343312	4.4392402	0.405835215	2.6376402
SB	SB_APDC	331	FUGITIVE EMISSIONS INSPECTION & MAINTENANCE	2010	TOG	0.378295181	4.31446078	0.40593717	2.56306078
SB	SB_APDC	331	FUGITIVE EMISSIONS INSPECTION & MAINTENANCE	2012	TOG	0.376182347	4.10357026	0.406134145	2.43697026
SB	SB_APDC	331	FUGITIVE EMISSIONS INSPECTION & MAINTENANCE	2015	TOG	0.373198474	3.83687908	0.406424066	2.27747908
SB	SB_APDC	331	FUGITIVE EMISSIONS INSPECTION & MAINTENANCE	2018	TOG	0.370646196	3.63259804	0.406651103	2.15539804
SB	SB_APDC	331	FUGITIVE EMISSIONS INSPECTION & MAINTENANCE	2020	TOG	0.369030933	3.50924837	0.406810761	2.08164837
SB	SB_APDC	333	CONTROL OF EMISSIONS FROM IC ENGINES	2005	NOX		1.42857243	0.609279572	0.558172432
SB	SB_APDC	333	CONTROL OF EMISSIONS FROM IC ENGINES	2006	NOX		1.32607358	0.609770084	0.517473583
SB	SB_APDC	333	CONTROL OF EMISSIONS FROM IC ENGINES	2007	NOX		1.25093216	0.613782284	0.483132162
SB	SB_APDC	333	CONTROL OF EMISSIONS FROM IC ENGINES	2008	NOX		1.1778232	0.616051713	0.4522232
SB	SB_APDC	333	CONTROL OF EMISSIONS FROM IC ENGINES	2009	NOX		1.09639134	0.618848378	0.417891336
SB	SB_APDC	333	CONTROL OF EMISSIONS FROM IC ENGINES	2010	NOX		1.02611219	0.621764373	0.388112186
SB	SB_APDC	333	CONTROL OF EMISSIONS FROM IC ENGINES	2012	NOX		0.902628589	0.627943771	0.335828589
SB	SB_APDC	333	CONTROL OF EMISSIONS FROM IC ENGINES	2015	NOX		0.735464618	0.63959569	0.265064618
SB	SB_APDC	333	CONTROL OF EMISSIONS FROM IC ENGINES	2018	NOX		0.646625403	0.645659756	0.229125403
SB	SB_APDC	333	CONTROL OF EMISSIONS FROM IC ENGINES	2020	NOX		0.604941464	0.648657801	0.212541464
SB	SB_APDC	339	MOTOR VEHICLE & MOBILE EQUIPMENT COATING	2005	TOG	0.988	0.25	0.762	0.0595
SB	SB_APDC	339	MOTOR VEHICLE & MOBILE EQUIPMENT COATING	2006	TOG	0.988	0.251444357	0.762	0.05984357
SB	SB_APDC	339	MOTOR VEHICLE & MOBILE EQUIPMENT COATING	2007	TOG	0.988	0.252493438	0.762	0.060093438
SB	SB_APDC	339	MOTOR VEHICLE & MOBILE EQUIPMENT COATING	2008	TOG	0.988	0.25328084	0.762	0.06028084
SB	SB_APDC	339	MOTOR VEHICLE & MOBILE EQUIPMENT COATING	2009	TOG	0.988	0.253937008	0.762	0.060437008
SB	SB_APDC	339	MOTOR VEHICLE & MOBILE EQUIPMENT COATING	2010	TOG	0.988	0.254724409	0.762	0.060624409
SB	SB_APDC	339	MOTOR VEHICLE & MOBILE EQUIPMENT COATING	2012	TOG	0.988	0.256167979	0.762	0.060967979
SB	SB_APDC	339	MOTOR VEHICLE & MOBILE EQUIPMENT COATING	2015	TOG	0.988	0.258136483	0.762	0.061436483
SB	SB_APDC	339	MOTOR VEHICLE & MOBILE EQUIPMENT COATING	2018	TOG	0.988	0.25984252	0.762	0.06184252
SB	SB_APDC	339	MOTOR VEHICLE & MOBILE EQUIPMENT COATING	2020	TOG	0.988	0.260761155	0.762	0.062061155
SB	SB_APDC	341	MUNICIPAL SOLID WASTE LANDFILLS	2005	TOG	0.013	49.0027273	0.77	11.2706273
SB	SB_APDC	341	MUNICIPAL SOLID WASTE LANDFILLS	2006	TOG	0.013	49.9918182	0.77	11.4981182
SB	SB_APDC	341	MUNICIPAL SOLID WASTE LANDFILLS	2007	TOG	0.013	50.7951948	0.77	11.6828948
SB	SB_APDC	341	MUNICIPAL SOLID WASTE LANDFILLS	2008	TOG	0.013	51.6203896	0.77	11.8726896
SB	SB_APDC	341	MUNICIPAL SOLID WASTE LANDFILLS	2009	TOG	0.013	52.4646753	0.77	12.0668753
SB	SB_APDC	341	MUNICIPAL SOLID WASTE LANDFILLS	2010	TOG	0.013	53.283937	0.635	19.448637
SB	SB_APDC	341	MUNICIPAL SOLID WASTE LANDFILLS	2012	TOG	0.013	54.8765354	0.635	20.0299354
SB	SB_APDC	341	MUNICIPAL SOLID WASTE LANDFILLS	2015	TOG	0.013	57.2653543	0.635	20.9018543
SB	SB_APDC	341	MUNICIPAL SOLID WASTE LANDFILLS	2018	TOG	0.013	59.4461417	0.635	21.6978417
SB	SB_APDC	341	MUNICIPAL SOLID WASTE LANDFILLS	2020	TOG	0.013	60.9	0.635	22.2285
SB	SB_APDC	342	CONTROL OF NOX FROM BOILERS, STEAM GENERATORS	2005	NOX		0.349698298	0.730487831	0.094247947

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 32 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SB	SB_APDC	342	CONTROL OF NOX FROM BOILERS, STEAM GENERATORS	2006	NOX		0.357141265	0.727573633	0.097294697
SB	SB_APDC	342	CONTROL OF NOX FROM BOILERS, STEAM GENERATORS	2007	NOX		0.357160352	0.728375344	0.097013558
SB	SB_APDC	342	CONTROL OF NOX FROM BOILERS, STEAM GENERATORS	2008	NOX		0.357522824	0.729081886	0.096859409
SB	SB_APDC	342	CONTROL OF NOX FROM BOILERS, STEAM GENERATORS	2009	NOX		0.356215713	0.730962947	0.095835226
SB	SB_APDC	342	CONTROL OF NOX FROM BOILERS, STEAM GENERATORS	2010	NOX		0.35614112	0.732496217	0.095269097
SB	SB_APDC	342	CONTROL OF NOX FROM BOILERS, STEAM GENERATORS	2012	NOX		0.3603278	0.73310001	0.096171486
SB	SB_APDC	342	CONTROL OF NOX FROM BOILERS, STEAM GENERATORS	2015	NOX		0.367018419	0.733839886	0.097685664
SB	SB_APDC	342	CONTROL OF NOX FROM BOILERS, STEAM GENERATORS	2018	NOX		0.366715838	0.736177954	0.096747723
SB	SB_APDC	342	CONTROL OF NOX FROM BOILERS, STEAM GENERATORS	2020	NOX		0.36947292	0.735221711	0.097828408
SB	SB_APDC	344	PETROLEUM SUMPS, PITS & WELL CELLARS	2005	TOG	0.608446663	0.429686088	0.428219589	0.245686088
SB	SB_APDC	344	PETROLEUM SUMPS, PITS & WELL CELLARS	2006	TOG	0.60844459	0.4100796	0.428209547	0.2344796
SB	SB_APDC	344	PETROLEUM SUMPS, PITS & WELL CELLARS	2007	TOG	0.60844356	0.384424696	0.428172284	0.219824696
SB	SB_APDC	344	PETROLEUM SUMPS, PITS & WELL CELLARS	2008	TOG	0.608445753	0.362960742	0.428145477	0.207560742
SB	SB_APDC	344	PETROLEUM SUMPS, PITS & WELL CELLARS	2009	TOG	0.608441286	0.33774135	0.428138277	0.19314135
SB	SB_APDC	344	PETROLEUM SUMPS, PITS & WELL CELLARS	2010	TOG	0.608438085	0.314645983	0.428100174	0.179945983
SB	SB_APDC	344	PETROLEUM SUMPS, PITS & WELL CELLARS	2012	TOG	0.608435025	0.276135078	0.428051376	0.157935078
SB	SB_APDC	344	PETROLEUM SUMPS, PITS & WELL CELLARS	2015	TOG	0.608424641	0.227574014	0.427992627	0.130174014
SB	SB_APDC	344	PETROLEUM SUMPS, PITS & WELL CELLARS	2018	TOG	0.60841769	0.190238757	0.427883368	0.108838757
SB	SB_APDC	344	PETROLEUM SUMPS, PITS & WELL CELLARS	2020	TOG	0.608408392	0.167143389	0.427776416	0.095643389
SB	SB_APDC	346	LOADING OF ORGANIC LIQUID CARGO VESSELS	2005	TOG	0.886085714	0.013301663	0.842	0.002101663
SB	SB_APDC	346	LOADING OF ORGANIC LIQUID CARGO VESSELS	2006	TOG	0.886163462	0.012351544	0.842	0.001951544
SB	SB_APDC	346	LOADING OF ORGANIC LIQUID CARGO VESSELS	2007	TOG	0.88625625	0.011401425	0.842	0.001801425
SB	SB_APDC	346	LOADING OF ORGANIC LIQUID CARGO VESSELS	2008	TOG	0.886335556	0.010688836	0.842	0.001688836
SB	SB_APDC	346	LOADING OF ORGANIC LIQUID CARGO VESSELS	2009	TOG	0.886443373	0.009857482	0.842	0.001557482
SB	SB_APDC	346	LOADING OF ORGANIC LIQUID CARGO VESSELS	2010	TOG	0.886571053	0.009026128	0.842	0.001426128
SB	SB_APDC	346	LOADING OF ORGANIC LIQUID CARGO VESSELS	2012	TOG	0.886912903	0.00736342	0.842	0.00116342
SB	SB_APDC	346	LOADING OF ORGANIC LIQUID CARGO VESSELS	2015	TOG	0.887454167	0.005700713	0.842	0.000900713
SB	SB_APDC	346	LOADING OF ORGANIC LIQUID CARGO VESSELS	2018	TOG	0.885059459	0.004394299	0.842	0.000694299
SB	SB_APDC	346	LOADING OF ORGANIC LIQUID CARGO VESSELS	2020	TOG	0.885058065	0.00368171	0.842	0.00058171
SB	SB_APDC	349	POLYESTER RESON OPERATIONS	2005	TOG	0.699	0.024637681	0.897	0.002537681
SB	SB_APDC	349	POLYESTER RESON OPERATIONS	2006	TOG	0.699	0.025863991	0.897	0.002663991
SB	SB_APDC	349	POLYESTER RESON OPERATIONS	2007	TOG	0.699	0.026421405	0.897	0.002721405
SB	SB_APDC	349	POLYESTER RESON OPERATIONS	2008	TOG	0.699	0.027090301	0.897	0.002790301
SB	SB_APDC	349	POLYESTER RESON OPERATIONS	2009	TOG	0.699	0.02787068	0.897	0.00287068
SB	SB_APDC	349	POLYESTER RESON OPERATIONS	2010	TOG	0.699	0.028651059	0.897	0.002951059
SB	SB_APDC	349	POLYESTER RESON OPERATIONS	2012	TOG	0.699	0.030100334	0.897	0.003100334
SB	SB_APDC	349	POLYESTER RESON OPERATIONS	2015	TOG	0.699	0.032218506	0.897	0.003318506
SB	SB_APDC	349	POLYESTER RESON OPERATIONS	2018	TOG	0.699	0.03400223	0.897	0.00350223
SB	SB_APDC	349	POLYESTER RESON OPERATIONS	2020	TOG	0.699	0.035117057	0.897	0.003617057
SB	SB_APDC	351	SURFACE COATING OF WOOD PRODUCTS	2005	TOG	0.988	0.063215591	0.821	0.011315591
SB	SB_APDC	351	SURFACE COATING OF WOOD PRODUCTS	2006	TOG	0.988	0.063215591	0.821	0.011315591
SB	SB_APDC	351	SURFACE COATING OF WOOD PRODUCTS	2007	TOG	0.988	0.063215591	0.821	0.011315591
SB	SB_APDC	351	SURFACE COATING OF WOOD PRODUCTS	2008	TOG	0.988	0.063215591	0.821	0.011315591
SB	SB_APDC	351	SURFACE COATING OF WOOD PRODUCTS	2009	TOG	0.988	0.063215591	0.821	0.011315591
SB	SB_APDC	351	SURFACE COATING OF WOOD PRODUCTS	2010	TOG	0.988	0.063215591	0.821	0.011315591
SB	SB_APDC	351	SURFACE COATING OF WOOD PRODUCTS	2012	TOG	0.988	0.063215591	0.821	0.011315591
SB	SB_APDC	351	SURFACE COATING OF WOOD PRODUCTS	2015	TOG	0.988	0.126552984	0.821	0.022652984
SB	SB_APDC	351	SURFACE COATING OF WOOD PRODUCTS	2018	TOG	0.988	0.126552984	0.821	0.022652984
SB	SB_APDC	351	SURFACE COATING OF WOOD PRODUCTS	2020	TOG	0.988	0.126552984	0.821	0.022652984

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 33 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SB	SB_AP_CD	352	NATURAL GAS-FIRED FAN-TYPE CENTRAL FURNACES AND RS	2005	NOX		0.401321766	0.9516055	0.019421766
SB	SB_AP_CD	352	NATURAL GAS-FIRED FAN-TYPE CENTRAL FURNACES AND RS	2006	NOX		0.403833077	0.951630815	0.019533077
SB	SB_AP_CD	352	NATURAL GAS-FIRED FAN-TYPE CENTRAL FURNACES AND RS	2007	NOX		0.405914242	0.951678851	0.019614242
SB	SB_AP_CD	352	NATURAL GAS-FIRED FAN-TYPE CENTRAL FURNACES AND RS	2008	NOX		0.408000045	0.951715581	0.019700045
SB	SB_AP_CD	352	NATURAL GAS-FIRED FAN-TYPE CENTRAL FURNACES AND RS	2009	NOX		0.409977152	0.951760355	0.019777152
SB	SB_AP_CD	352	NATURAL GAS-FIRED FAN-TYPE CENTRAL FURNACES AND RS	2010	NOX		0.412477235	0.942355037	0.023777235
SB	SB_AP_CD	352	NATURAL GAS-FIRED FAN-TYPE CENTRAL FURNACES AND RS	2012	NOX		0.416163644	0.942417739	0.023963644
SB	SB_AP_CD	352	NATURAL GAS-FIRED FAN-TYPE CENTRAL FURNACES AND RS	2015	NOX		0.421907181	0.933617671	0.028007181
SB	SB_AP_CD	352	NATURAL GAS-FIRED FAN-TYPE CENTRAL FURNACES AND RS	2018	NOX		0.426874894	0.933763044	0.028274894
SB	SB_AP_CD	352	NATURAL GAS-FIRED FAN-TYPE CENTRAL FURNACES AND RS	2020	NOX		0.430259174	0.933855742	0.028459174
SB	SB_AP_CD	353	ADHESIVES & SEALANTS	2005	TOG	0.868	0.283088235	0.544	0.129088235
SB	SB_AP_CD	353	ADHESIVES & SEALANTS	2006	TOG	0.868	0.274816176	0.544	0.125316176
SB	SB_AP_CD	353	ADHESIVES & SEALANTS	2007	TOG	0.868	0.264705882	0.544	0.120705882
SB	SB_AP_CD	353	ADHESIVES & SEALANTS	2008	TOG	0.868	0.254779412	0.544	0.116179412
SB	SB_AP_CD	353	ADHESIVES & SEALANTS	2009	TOG	0.868	0.244669118	0.544	0.111569118
SB	SB_AP_CD	353	ADHESIVES & SEALANTS	2010	TOG	0.868	0.234926471	0.544	0.107126471
SB	SB_AP_CD	353	ADHESIVES & SEALANTS	2012	TOG	0.868	0.218566176	0.544	0.099666176
SB	SB_AP_CD	353	ADHESIVES & SEALANTS	2015	TOG	0.868	0.193933824	0.544	0.088433824
SB	SB_AP_CD	353	ADHESIVES & SEALANTS	2018	TOG	0.868	0.174816176	0.544	0.079716176
SB	SB_AP_CD	353	ADHESIVES & SEALANTS	2020	TOG	0.868	0.162132353	0.544	0.073932353
SB	SB_AP_CD	354	GRAPHIC ARTS - LETTER/OFFSET PRINTING	2005	TOG	1	0.450958628	0.991	0.004058628
SB	SB_AP_CD	354	GRAPHIC ARTS - LETTER/OFFSET PRINTING	2006	TOG	1	0.453178607	0.991	0.004078607
SB	SB_AP_CD	354	GRAPHIC ARTS - LETTER/OFFSET PRINTING	2007	TOG	1	0.461957619	0.991	0.004157619
SB	SB_AP_CD	354	GRAPHIC ARTS - LETTER/OFFSET PRINTING	2008	TOG	1	0.470837538	0.991	0.004237538
SB	SB_AP_CD	354	GRAPHIC ARTS - LETTER/OFFSET PRINTING	2009	TOG	1	0.479717457	0.991	0.004317457
SB	SB_AP_CD	354	GRAPHIC ARTS - LETTER/OFFSET PRINTING	2010	TOG	1	0.490716448	0.991	0.004416448
SB	SB_AP_CD	354	GRAPHIC ARTS - LETTER/OFFSET PRINTING	2012	TOG	1	0.508476287	0.991	0.004576287
SB	SB_AP_CD	354	GRAPHIC ARTS - LETTER/OFFSET PRINTING	2015	TOG	1	0.537134208	0.991	0.004834208
SB	SB_AP_CD	354	GRAPHIC ARTS - LETTER/OFFSET PRINTING	2018	TOG	1	0.563673058	0.991	0.005073058
SB	SB_AP_CD	354	GRAPHIC ARTS - LETTER/OFFSET PRINTING	2020	TOG	1	0.581331988	0.991	0.005231988
SB	COMBINED	ARB_C109	INDUSTRIAL BOILERS	2000	NOX		0.07745491	0.998	0.00015491
SB	COMBINED	ARB_C109	INDUSTRIAL BOILERS	2001	NOX		0.066132265	0.998	0.000132265
SB	COMBINED	ARB_C331	DEGREASING SYNTHETIC (INDUST)	2000	TOG	0.293031897	0.909328999	0.972255367	0.025228999
SB	COMBINED	ARB_C331	DEGREASING SYNTHETIC (INDUST)	2001	TOG	0.29281075	0.955810757	0.972263592	0.026510757
SB	COMBINED	ARB_C331	DEGREASING SYNTHETIC (INDUST)	2002	TOG	0.293115448	0.998394847	0.945317379	0.054594847
SB	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.136842105	0.399	0.082242105
SB	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.139849624	0.399	0.084049624
SB	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.142857143	0.399	0.085857143
SB	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.146115288	0.399	0.087815288
SB	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.149494949	0.399	0.089846465
SB	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.152525253	0.399	0.091667677
SB	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.153535354	0.399	0.092274747
SB	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.156565657	0.399	0.09409596
SB	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.158585859	0.399	0.095310101
SB	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.160606061	0.399	0.096524242
SB	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.164646465	0.399	0.098952525
SB	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.170707071	0.399	0.102594949
SB	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.176767677	0.399	0.106237374
SB	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.181818182	0.399	0.109272727

**CCOS EMISSION REDUCTIONS BY RULE, v2.11**  
 December 8, 2003

Page 34 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		1.35015416	0.973	0.036454162
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.151634724	0.887	0.017134724
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		1.37718397	0.973	0.037183967
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.154678692	0.887	0.017478692
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		1.404253	0.917	0.116552999
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.157767722	0.663	0.053167722
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		1.43123596	0.89	0.157435955
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.160869565	0.552	0.072069565
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		1.45865169	0.89	0.160451685
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.163949275	0.552	0.073449275
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		1.48657074	0.834	0.246770743
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.167378049	0.328	0.112478049
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		1.50923261	0.834	0.250532614
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.169817073	0.328	0.114117073
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		1.53189448	0.834	0.254294484
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.172256098	0.328	0.115756098
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		1.55515588	0.834	0.258155875
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.174695122	0.328	0.117395122
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		1.57817746	0.834	0.261977458
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.177439024	0.328	0.119239024
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		1.60179856	0.834	0.265898561
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.180182927	0.328	0.121082927
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		1.64880096	0.834	0.273700959
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.185365854	0.328	0.124565854
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		1.72122302	0.834	0.285723022
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.193597561	0.328	0.130097561
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		1.79496403	0.834	0.297964029
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.201829268	0.328	0.135629268
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		1.84544365	0.834	0.306343645
SB	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.207621951	0.328	0.139521951
SC	ARB	TRAINs	TRAINs EPA MOU	2000	NOX		42.4437475	0.990902135	0.386147475
SC	ARB	TRAINs	TRAINs EPA MOU	2001	NOX		42.9859947	0.954380613	1.96099474
SC	ARB	TRAINs	TRAINs EPA MOU	2002	NOX		43.5029016	0.88917747	4.82110162
SC	ARB	TRAINs	TRAINs EPA MOU	2003	NOX		44.0807971	0.832421427	7.38699708
SC	ARB	TRAINs	TRAINs EPA MOU	2004	NOX		44.6533807	0.766725821	10.4164807
SC	ARB	TRAINs	TRAINs EPA MOU	2005	PM	1	1.01958018	0.962356882	0.038380177
SC	ARB	TRAINs	TRAINs EPA MOU	2005	NOX		45.2308934	0.699508624	13.5914934
SC	ARB	TRAINs	TRAINs EPA MOU	2005	TOG	0.8785	2.19311869	0.962784191	0.081618687
SC	ARB	TRAINs	TRAINs EPA MOU	2006	PM	1	1.03355512	0.92534978	0.077155116
SC	ARB	TRAINs	TRAINs EPA MOU	2006	NOX		45.8436136	0.642652219	16.3821136
SC	ARB	TRAINs	TRAINs EPA MOU	2006	TOG	0.8785	2.22193329	0.927030533	0.162133288
SC	ARB	TRAINs	TRAINs EPA MOU	2007	PM	1	1.04720362	0.89667375	0.108203623
SC	ARB	TRAINs	TRAINs EPA MOU	2007	NOX		46.4514207	0.612078158	18.0195207
SC	ARB	TRAINs	TRAINs EPA MOU	2007	TOG	0.8785	2.2501744	0.898597016	0.228174399
SC	ARB	TRAINs	TRAINs EPA MOU	2008	PM	1	1.06092664	0.867920522	0.140126636
SC	ARB	TRAINs	TRAINs EPA MOU	2008	NOX		47.0639988	0.59145208	19.2278988
SC	ARB	TRAINs	TRAINs EPA MOU	2008	TOG	0.8785	2.27902416	0.879367597	0.274924161
SC	ARB	TRAINs	TRAINs EPA MOU	2009	PM	1	1.07551178	0.849084143	0.162311782
SC	ARB	TRAINs	TRAINs EPA MOU	2009	NOX		47.702139	0.570800399	20.473739

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 35 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SC	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	2.30883284	0.850732874	0.344632842
SC	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	1.09061145	0.820823952	0.19541145
SC	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		48.3749375	0.37241185	30.3595375
SC	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	2.340531	0.831221634	0.395030996
SC	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	1.12117156	0.799877586	0.224371559
SC	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		49.7372337	0.371723528	31.2487337
SC	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	2.40545395	0.811697103	0.452953947
SC	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	1.16953768	0.760727948	0.279837681
SC	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		51.8854559	0.370350412	32.6696559
SC	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	2.50802915	0.772718293	0.570029145
SC	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	1.22083399	0.720900635	0.340733993
SC	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		54.1555254	0.368320681	34.2089254
SC	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	2.6162968	0.74219408	0.674496804
SC	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	1.25622689	0.700590004	0.376126887
SC	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		55.729139	0.367638912	35.240939
SC	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	2.69121188	0.713247447	0.771711878
SC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.848190299	132.68249	0.95557673	5.89419007
SC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.847727342	134.331837	0.95202227	6.44493656
SC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.844460992	135.916647	0.930694676	9.41974728
SC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.848775103	137.485521	0.861518355	19.0392212
SC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.848184145	139.060387	0.858172503	19.7225866
SC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.852781529	140.935275	0.804447999	27.560175
SC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.852780209	142.498657	0.804558458	27.8501573
SC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.852723877	144.058312	0.80437358	28.1816118
SC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.852666802	145.626132	0.804137271	28.5227315
SC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.852609063	147.190154	0.803923336	28.8605544
SC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.852550715	148.747919	0.803740992	29.1931189
SC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.852548643	151.708564	0.803922975	29.746564
SC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.852545643	156.252606	0.803681954	30.6752064
SC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.85254219	160.694323	0.80395124	31.5039227
SC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.852541335	163.851661	0.80315695	32.2530606
SC	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.713168575	13.0684932	0.876	1.62049315
SC	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.713168575	13.0684932	0.876	1.62049315
SC	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.713168575	13.0684932	0.876	1.62049315
SC	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.713168575	13.0684932	0.876	1.62049315
SC	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.713168575	13.0684932	0.876	1.62049315
SC	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.713168575	13.0684932	0.876	1.62049315
SC	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.713168575	13.0684932	0.876	1.62049315
SC	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.713168575	13.0684932	0.876	1.62049315
SC	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.713168575	13.0684932	0.876	1.62049315
SC	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.713168575	13.0684932	0.876	1.62049315
SC	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.713168575	13.0684932	0.876	1.62049315
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	PM	0.96	0.122322322	0.999	0.000122322
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	NOX		1.68878879	0.999	0.001688789
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	PM	0.96	0.120962889	0.997	0.000362889
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	NOX		1.67094188	0.998	0.003341884
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	PM	0.96	0.119919517	0.994	0.000719517
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	NOX		1.65487437	0.995	0.008274372
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	PM	0.96	0.118705763	0.989	0.001305763

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 36 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	NOX		1.63739919	0.992	0.013099194
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	PM	0.96	0.117386609	0.983	0.001995572
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	NOX		1.62147923	0.987	0.02107923
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	PM	0.96	0.116419612	0.975	0.00291049
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	NOX		1.60448522	0.981	0.030485219
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	PM	0.96	0.11498829	0.949	0.005864403
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	NOX		1.58751301	0.961	0.061913007
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	PM	0.96	0.113718412	0.924	0.008642599
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	NOX		1.56985138	0.942	0.09105138
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	PM	0.96	0.1125	0.898	0.011475
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	NOX		1.55292842	0.922	0.121128416
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	PM	0.96	0.111210191	0.872	0.014234904
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	NOX		1.53543743	0.903	0.148937431
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	PM	0.96	0.109973753	0.846	0.016935958
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	NOX		1.51662896	0.884	0.175928959
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	PM	0.96	0.108659218	0.795	0.02227514
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	NOX		1.50191617	0.835	0.247816168
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	PM	0.96	0.107275542	0.718	0.030251703
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	NOX		1.47848606	0.753	0.365186056
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	PM	0.96	0.105719237	0.641	0.037953206
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	NOX		1.45954545	0.66	0.496245455
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	PM	0.96	0.104896422	0.59	0.043007533
SC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	NOX		1.44560811	0.592	0.589808108
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2005	CO		1.37874843	0.961306627	0.053348428
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2005	PM	0.552278095	0.031596054	0.996959937	0.000096054
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	CO		1.37885162	0.915399442	0.116651617
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	PM	0.549778621	0.031510082	0.920340355	0.002510082
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	NOX		2.48979549	0.978313282	0.053995492
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	TOG	0.517083844	0.475929243	0.953292966	0.022229243
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO		1.37877589	0.869974597	0.17927589
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	PM	0.551248763	0.031541259	0.897237479	0.003241259
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	NOX		2.48967864	0.938836027	0.152278638
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	TOG	0.516989304	0.475946123	0.899681664	0.047746123
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		1.37891958	0.822673066	0.244519581
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	PM	0.548351163	0.031438099	0.82066031	0.005638099
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	NOX		2.4896524	0.898840336	0.2518524
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	TOG	0.517084926	0.475971466	0.848790378	0.071971466
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		1.37890981	0.778586089	0.305309815
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	PM	0.551286531	0.031465941	0.778619643	0.006965941
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX		2.48963602	0.859362568	0.350136017
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	TOG	0.5164676	0.47493109	0.796747166	0.09653109
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		1.37882787	0.732433702	0.368927868
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	PM	0.546104846	0.031499319	0.720650495	0.008799319
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		2.4896676	0.819466825	0.449467596
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	TOG	0.51645774	0.474796671	0.745582313	0.120796671
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		1.37895395	0.671378476	0.453153948
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	PM	0.548285437	0.031423274	0.65556504	0.010823274
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		2.48966452	0.757009624	0.604964517
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	TOG	0.516572501	0.47478376	0.667882996	0.15768376

**CCOS EMISSION REDUCTIONS BY RULE, v2.11**  
December 8, 2003

Page 37 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		1.37892003	0.579801573	0.579420025
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	PM	0.551729545	0.031536186	0.558089047	0.013936186
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		2.48975601	0.663518832	0.837756012
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	TOG	0.516694654	0.474771488	0.551633799	0.212871488
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		1.37872856	0.52367088	0.656728563
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	PM	0.549496403	0.031648556	0.439198556	0.017748556
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		2.48968671	0.595536778	1.00698671
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.516772329	0.474783971	0.471161651	0.251083971
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		1.37899064	0.48644275	0.708190642
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	PM	0.546766667	0.031650507	0.3601838	0.020250507
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		2.48972455	0.550823985	1.11832455
SC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	TOG	0.51678871	0.474841133	0.417823954	0.276441133
SC	SC_AQMD	R442	USAGE OF SOLVENTS	2003	TOG	0.769160643	35.6748637	0.909921772	3.2135285
SC	SC_AQMD	R442	USAGE OF SOLVENTS	2004	TOG	0.771903815	36.6521304	0.909476911	3.31786405
SC	SC_AQMD	R442	USAGE OF SOLVENTS	2005	TOG	0.814858068	37.4923918	0.90883834	3.41786868
SC	SC_AQMD	R442	USAGE OF SOLVENTS	2006	TOG	0.815743682	38.7282557	0.908348528	3.54950163
SC	SC_AQMD	R442	USAGE OF SOLVENTS	2007	TOG	0.816380137	39.8928384	0.907744824	3.68032082
SC	SC_AQMD	R442	USAGE OF SOLVENTS	2008	TOG	0.816844465	41.1495025	0.907339856	3.81291884
SC	SC_AQMD	R442	USAGE OF SOLVENTS	2009	TOG	0.817513969	42.3888806	0.90697995	3.94301579
SC	SC_AQMD	R442	USAGE OF SOLVENTS	2010	TOG	0.818147632	43.6113589	0.906627495	4.07210183
SC	SC_AQMD	R442	USAGE OF SOLVENTS	2015	TOG	0.822483027	50.7203804	0.903706027	4.88406694
SC	SC_AQMD	R442	USAGE OF SOLVENTS	2020	TOG	0.827138292	60.1460357	0.900897729	5.96060872
SC	SC_AQMD	R462	ORGANIC LIQUID LOADING	2000	TOG	0.989819321	6.1815402	0.883	0.723240204
SC	SC_AQMD	R462	ORGANIC LIQUID LOADING	2001	TOG	0.989725433	6.184414496	0.883	0.72354496
SC	SC_AQMD	R462	ORGANIC LIQUID LOADING	2002	TOG	0.989649599	6.20192525	0.883	0.725625255
SC	SC_AQMD	R462	ORGANIC LIQUID LOADING	2003	TOG	0.989635075	6.21119863	0.883	0.72671024
SC	SC_AQMD	R462	ORGANIC LIQUID LOADING	2004	TOG	0.989638487	6.22012168	0.883	0.727754237
SC	SC_AQMD	R462	ORGANIC LIQUID LOADING	2005	TOG	0.989559411	6.22679671	0.883	0.728535215
SC	SC_AQMD	R462	ORGANIC LIQUID LOADING	2006	TOG	0.989479959	6.23698593	0.883	0.729727354
SC	SC_AQMD	R462	ORGANIC LIQUID LOADING	2007	TOG	0.991166318	6.23450893	0.883	0.729437545
SC	SC_AQMD	R462	ORGANIC LIQUID LOADING	2008	TOG	0.990911519	6.25446088	0.883	0.731771923
SC	SC_AQMD	R462	ORGANIC LIQUID LOADING	2009	TOG	0.991302713	6.25753588	0.883	0.732131698
SC	SC_AQMD	R462	ORGANIC LIQUID LOADING	2010	TOG	0.99124071	6.26634805	0.883	0.733162722
SC	SC_AQMD	R462	ORGANIC LIQUID LOADING	2012	TOG	1	5.41755379	0.883	0.633853794
SC	SC_AQMD	R462	ORGANIC LIQUID LOADING	2015	TOG	0.991028183	6.30121847	0.883	0.73724256
SC	SC_AQMD	R462	ORGANIC LIQUID LOADING	2018	TOG	1	5.41755379	0.883	0.633853794
SC	SC_AQMD	R462	ORGANIC LIQUID LOADING	2020	TOG	0.990790566	6.33201187	0.883	0.740845388
SC	SC_AQMD	R1102	PETROLEUM SOLVENT DRY CLEANERS	2003	TOG	1	0.258433735	0.166	0.215533735
SC	SC_AQMD	R1102	PETROLEUM SOLVENT DRY CLEANERS	2004	TOG	1	0.26626506	0.166	0.22206506
SC	SC_AQMD	R1102	PETROLEUM SOLVENT DRY CLEANERS	2005	TOG	1	0.272891566	0.166	0.227591566
SC	SC_AQMD	R1102	PETROLEUM SOLVENT DRY CLEANERS	2006	TOG	1	0.280722892	0.166	0.234122892
SC	SC_AQMD	R1102	PETROLEUM SOLVENT DRY CLEANERS	2007	TOG	1	0.287349398	0.166	0.239649398
SC	SC_AQMD	R1102	PETROLEUM SOLVENT DRY CLEANERS	2008	TOG	1	0.293975904	0.166	0.245175904
SC	SC_AQMD	R1102	PETROLEUM SOLVENT DRY CLEANERS	2009	TOG	1	0.301204819	0.166	0.251204819
SC	SC_AQMD	R1102	PETROLEUM SOLVENT DRY CLEANERS	2010	TOG	1	0.307831325	0.166	0.256731325
SC	SC_AQMD	R1102	PETROLEUM SOLVENT DRY CLEANERS	2012	TOG	1	0.022891566	0.166	0.019091566
SC	SC_AQMD	R1102	PETROLEUM SOLVENT DRY CLEANERS	2015	TOG	1	0.330120482	0.166	0.275320482
SC	SC_AQMD	R1102	PETROLEUM SOLVENT DRY CLEANERS	2018	TOG	1	0.026506024	0.166	0.022106024
SC	SC_AQMD	R1102	PETROLEUM SOLVENT DRY CLEANERS	2020	TOG	1	0.35	0.166	0.2919

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 38 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SC	SC_AQMD	R1104	WOOD FLATSTOCK COATINGS	2000	TOG	0.988014372	10.5273753	0.991270575	0.091897934
SC	SC_AQMD	R1104	WOOD FLATSTOCK COATINGS	2001	TOG	0.988017608	10.6771688	0.991272981	0.093179857
SC	SC_AQMD	R1104	WOOD FLATSTOCK COATINGS	2002	TOG	0.98801849	10.8342194	0.991234632	0.094965915
SC	SC_AQMD	R1104	WOOD FLATSTOCK COATINGS	2003	TOG	0.988026603	10.9787316	0.991204985	0.096558113
SC	SC_AQMD	R1104	WOOD FLATSTOCK COATINGS	2004	TOG	0.988046194	11.1255862	0.991199656	0.097908985
SC	SC_AQMD	R1104	WOOD FLATSTOCK COATINGS	2005	TOG	0.988107889	11.282529	0.991198174	0.099306854
SC	SC_AQMD	R1104	WOOD FLATSTOCK COATINGS	2006	TOG	0.988257137	11.4411052	0.99120294	0.100648089
SC	SC_AQMD	R1104	WOOD FLATSTOCK COATINGS	2007	TOG	0.988218254	11.614388	0.991219824	0.10197637
SC	SC_AQMD	R1104	WOOD FLATSTOCK COATINGS	2008	TOG	0.988265952	11.753404	0.991189098	0.103558096
SC	SC_AQMD	R1104	WOOD FLATSTOCK COATINGS	2009	TOG	0.988270391	11.9721149	0.991235206	0.104933126
SC	SC_AQMD	R1104	WOOD FLATSTOCK COATINGS	2010	TOG	0.988273533	12.1522308	0.991381404	0.104735171
SC	SC_AQMD	R1104	WOOD FLATSTOCK COATINGS	2015	TOG	0.988310511	13.1688833	0.991482298	0.112168629
SC	SC_AQMD	R1104	WOOD FLATSTOCK COATINGS	2020	TOG	0.988343373	14.4395386	0.991803226	0.118357636
SC	SC_AQMD	R1107	METAL PARTS AND PRODUCTS	2000	TOG	0.898912684	10.1559853	0.873813501	1.28154823
SC	SC_AQMD	R1107	METAL PARTS AND PRODUCTS	2001	TOG	0.897975917	10.5288017	0.872933502	1.33785797
SC	SC_AQMD	R1107	METAL PARTS AND PRODUCTS	2002	TOG	0.898282571	10.8890551	0.872080549	1.39292195
SC	SC_AQMD	R1107	METAL PARTS AND PRODUCTS	2003	TOG	0.893924105	11.25146	0.871313312	1.44791313
SC	SC_AQMD	R1107	METAL PARTS AND PRODUCTS	2004	TOG	0.889522925	11.6049107	0.870502324	1.50280897
SC	SC_AQMD	R1107	METAL PARTS AND PRODUCTS	2005	TOG	0.884770824	11.9545219	0.86970306	1.55763762
SC	SC_AQMD	R1107	METAL PARTS AND PRODUCTS	2006	TOG	0.878590068	12.4629545	0.869229092	1.62979187
SC	SC_AQMD	R1107	METAL PARTS AND PRODUCTS	2007	TOG	0.87725766	12.9329553	0.868549818	1.70003933
SC	SC_AQMD	R1107	METAL PARTS AND PRODUCTS	2008	TOG	0.876286082	13.4087794	0.867921015	1.77101797
SC	SC_AQMD	R1107	METAL PARTS AND PRODUCTS	2009	TOG	0.87508799	13.9102717	0.867567404	1.84217339
SC	SC_AQMD	R1107	METAL PARTS AND PRODUCTS	2010	TOG	0.874094436	14.3939794	0.867076959	1.91329152
SC	SC_AQMD	R1107	METAL PARTS AND PRODUCTS	2012	TOG	0.9879	1.72239748	0.317	1.17639748
SC	SC_AQMD	R1107	METAL PARTS AND PRODUCTS	2015	TOG	0.867760033	17.6475111	0.866395693	2.35778348
SC	SC_AQMD	R1107	METAL PARTS AND PRODUCTS	2018	TOG	0.9879	2.22365931	0.317	1.51875931
SC	SC_AQMD	R1107	METAL PARTS AND PRODUCTS	2020	TOG	0.861000441	22.2069191	0.867545233	2.9414123
SC	SC_AQMD	R1121	RESIDENTIAL NATURAL GAS-FIRED WATER HEATERS	2006	NOX		11.0542582	0.728	3.00675824
SC	SC_AQMD	R1121	RESIDENTIAL NATURAL GAS-FIRED WATER HEATERS	2007	NOX		11.2513736	0.728	3.06037363
SC	SC_AQMD	R1121	RESIDENTIAL NATURAL GAS-FIRED WATER HEATERS	2008	NOX		11.4486264	0.728	3.11402637
SC	SC_AQMD	R1121	RESIDENTIAL NATURAL GAS-FIRED WATER HEATERS	2009	NOX		11.6456044	0.728	3.1676044
SC	SC_AQMD	R1121	RESIDENTIAL NATURAL GAS-FIRED WATER HEATERS	2010	NOX		11.8430233	0.43	6.75052326
SC	SC_AQMD	R1121	RESIDENTIAL NATURAL GAS-FIRED WATER HEATERS	2012	NOX		12.2372093	0.43	6.9752093
SC	SC_AQMD	R1121	RESIDENTIAL NATURAL GAS-FIRED WATER HEATERS	2015	NOX		12.8284	0.25	9.6213
SC	SC_AQMD	R1121	RESIDENTIAL NATURAL GAS-FIRED WATER HEATERS	2018	NOX		13.4204	0.25	10.0653
SC	SC_AQMD	R1121	RESIDENTIAL NATURAL GAS-FIRED WATER HEATERS	2020	NOX		13.8148	0.25	10.3611
SC	SC_AQMD	R1124	AEROSPACE COATINGS OPERATIONS	2000	TOG	0.945034884	3.29792171	0.961184931	0.128009059
SC	SC_AQMD	R1124	AEROSPACE COATINGS OPERATIONS	2001	TOG	0.945253811	3.35865917	0.961160298	0.130449321
SC	SC_AQMD	R1124	AEROSPACE COATINGS OPERATIONS	2002	TOG	0.948341524	3.41942723	0.906907205	0.318324038
SC	SC_AQMD	R1124	AEROSPACE COATINGS OPERATIONS	2003	TOG	0.950205761	3.48130502	0.906849916	0.324283856
SC	SC_AQMD	R1124	AEROSPACE COATINGS OPERATIONS	2004	TOG	0.950587048	3.54261322	0.906760667	0.330310896
SC	SC_AQMD	R1124	AEROSPACE COATINGS OPERATIONS	2005	TOG	0.956305888	3.60245219	0.906716572	0.336049091
SC	SC_AQMD	R1124	AEROSPACE COATINGS OPERATIONS	2006	TOG	0.956508003	3.66814397	0.906639116	0.342461164
SC	SC_AQMD	R1124	AEROSPACE COATINGS OPERATIONS	2007	TOG	0.956715199	3.73522143	0.906553875	0.34904197
SC	SC_AQMD	R1124	AEROSPACE COATINGS OPERATIONS	2008	TOG	0.956884319	3.79915441	0.906493973	0.355243833
SC	SC_AQMD	R1124	AEROSPACE COATINGS OPERATIONS	2009	TOG	0.957088428	3.87011146	0.906410327	0.362202467
SC	SC_AQMD	R1124	AEROSPACE COATINGS OPERATIONS	2010	TOG	0.957254478	3.93447302	0.906340606	0.368500358
SC	SC_AQMD	R1124	AEROSPACE COATINGS OPERATIONS	2012	TOG	0.9879	0.724382022	0.89	0.079682022

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 39 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SC	SC_AQMD	R1124	AEROSPACE COATINGS OPERATIONS	2015	TOG	0.95798314	4.31773401	0.906066805	0.40557855
SC	SC_AQMD	R1124	AEROSPACE COATINGS OPERATIONS	2018	TOG	0.9879	0.806853933	0.89	0.088753933
SC	SC_AQMD	R1124	AEROSPACE COATINGS OPERATIONS	2020	TOG	0.95878821	4.75382181	0.905737361	0.448107791
SC	SC_AQMD	R1131	FOOD PRODUCT MFG & PROCESS OPERATIONS	2002	TOG	0.6986	2.80317662	0.787	0.59707662
SC	SC_AQMD	R1131	FOOD PRODUCT MFG & PROCESS OPERATIONS	2003	TOG	0.6986	2.84697987	0.149	2.42277987
SC	SC_AQMD	R1131	FOOD PRODUCT MFG & PROCESS OPERATIONS	2004	TOG	0.6986	2.89060403	0.149	2.45990403
SC	SC_AQMD	R1131	FOOD PRODUCT MFG & PROCESS OPERATIONS	2005	TOG	0.6986	2.93154362	0.149	2.49474362
SC	SC_AQMD	R1131	FOOD PRODUCT MFG & PROCESS OPERATIONS	2006	TOG	0.6986	2.97248322	0.149	2.52958322
SC	SC_AQMD	R1131	FOOD PRODUCT MFG & PROCESS OPERATIONS	2007	TOG	0.6986	3.01677852	0.149	2.56727852
SC	SC_AQMD	R1131	FOOD PRODUCT MFG & PROCESS OPERATIONS	2008	TOG	0.6986	3.05771812	0.149	2.60211812
SC	SC_AQMD	R1131	FOOD PRODUCT MFG & PROCESS OPERATIONS	2009	TOG	0.6986	3.09865772	0.149	2.63695772
SC	SC_AQMD	R1131	FOOD PRODUCT MFG & PROCESS OPERATIONS	2010	TOG	0.6986	3.14228188	0.149	2.67408188
SC	SC_AQMD	R1131	FOOD PRODUCT MFG & PROCESS OPERATIONS	2015	TOG	0.6986	3.35302013	0.149	2.85342013
SC	SC_AQMD	R1131	FOOD PRODUCT MFG & PROCESS OPERATIONS	2020	TOG	0.6986	3.56577181	0.149	3.03447181
SC	SC_AQMD	R1132	FURTHER CONTROL OF VOC'S FROM HIGH-EM SPRAY BOOTHS	2002	TOG	0.869747652	68.0207989	0.947874343	3.54562885
SC	SC_AQMD	R1132	FURTHER CONTROL OF VOC'S FROM HIGH-EM SPRAY BOOTHS	2003	TOG	0.872494461	69.8545651	0.926614383	5.12632034
SC	SC_AQMD	R1132	FURTHER CONTROL OF VOC'S FROM HIGH-EM SPRAY BOOTHS	2004	TOG	0.873181463	71.6266568	0.857245351	10.2250383
SC	SC_AQMD	R1132	FURTHER CONTROL OF VOC'S FROM HIGH-EM SPRAY BOOTHS	2005	TOG	0.893809352	73.1684488	0.856673592	10.486971
SC	SC_AQMD	R1132	FURTHER CONTROL OF VOC'S FROM HIGH-EM SPRAY BOOTHS	2006	TOG	0.888452459	75.2874938	0.856619766	10.7947385
SC	SC_AQMD	R1132	FURTHER CONTROL OF VOC'S FROM HIGH-EM SPRAY BOOTHS	2007	TOG	0.888444142	77.3325243	0.856424924	11.103023
SC	SC_AQMD	R1132	FURTHER CONTROL OF VOC'S FROM HIGH-EM SPRAY BOOTHS	2008	TOG	0.888363938	79.4493915	0.856431573	11.4064242
SC	SC_AQMD	R1132	FURTHER CONTROL OF VOC'S FROM HIGH-EM SPRAY BOOTHS	2009	TOG	0.888453553	81.60717	0.856322333	11.7251278
SC	SC_AQMD	R1132	FURTHER CONTROL OF VOC'S FROM HIGH-EM SPRAY BOOTHS	2010	TOG	0.888516235	83.7351831	0.856266836	12.0355228
SC	SC_AQMD	R1132	FURTHER CONTROL OF VOC'S FROM HIGH-EM SPRAY BOOTHS	2015	TOG	0.889741548	96.2245504	0.856622601	13.7964258
SC	SC_AQMD	R1132	FURTHER CONTROL OF VOC'S FROM HIGH-EM SPRAY BOOTHS	2020	TOG	0.891647223	112.473766	0.858394846	15.9268649
SC	SC_AQMD	R1136	WOOD FURNITURE	2000	TOG	0.98341229	12.07668	0.711785959	3.48066875
SC	SC_AQMD	R1136	WOOD FURNITURE	2001	TOG	0.983429058	12.2463598	0.711779428	3.52965284
SC	SC_AQMD	R1136	WOOD FURNITURE	2002	TOG	0.983939903	12.4220975	0.711776501	3.58034043
SC	SC_AQMD	R1136	WOOD FURNITURE	2003	TOG	0.984082249	12.5828967	0.711784344	3.62658782
SC	SC_AQMD	R1136	WOOD FURNITURE	2004	TOG	0.983663065	12.7498438	0.711781126	3.67474563
SC	SC_AQMD	R1136	WOOD FURNITURE	2005	TOG	0.983445757	12.9255104	0.489701112	6.59587359
SC	SC_AQMD	R1136	WOOD FURNITURE	2006	TOG	0.980682261	13.1050611	0.26222768	9.66855136
SC	SC_AQMD	R1136	WOOD FURNITURE	2007	TOG	0.980734849	13.3097785	0.262159386	9.82049518
SC	SC_AQMD	R1136	WOOD FURNITURE	2008	TOG	0.980736493	13.4557671	0.26217608	9.9279868
SC	SC_AQMD	R1136	WOOD FURNITURE	2009	TOG	0.980791521	13.6942014	0.262104459	10.1048901
SC	SC_AQMD	R1136	WOOD FURNITURE	2010	TOG	0.98081876	13.8978627	0.262077944	10.2555394
SC	SC_AQMD	R1136	WOOD FURNITURE	2012	TOG	0.9879	1.60740741	0.243	1.21680741
SC	SC_AQMD	R1136	WOOD FURNITURE	2015	TOG	0.980996788	15.017527	0.261817422	11.0856768
SC	SC_AQMD	R1136	WOOD FURNITURE	2018	TOG	0.9879	1.73251029	0.243	1.31151029
SC	SC_AQMD	R1136	WOOD FURNITURE	2020	TOG	0.981268796	16.4038449	0.261362855	12.1164892
SC	SC_AQMD	R1137	PM10 EMISSION REDUCTIONS FROM WOODWORKING OPS	2004	PM	0.687619678	1.58098291	0.936	0.101182906
SC	SC_AQMD	R1137	PM10 EMISSION REDUCTIONS FROM WOODWORKING OPS	2005	PM	0.687467917	1.59508547	0.936	0.10208547
SC	SC_AQMD	R1137	PM10 EMISSION REDUCTIONS FROM WOODWORKING OPS	2006	PM	0.687324706	1.6099359	0.936	0.103035897
SC	SC_AQMD	R1137	PM10 EMISSION REDUCTIONS FROM WOODWORKING OPS	2007	PM	0.687185799	1.625	0.936	0.104
SC	SC_AQMD	R1137	PM10 EMISSION REDUCTIONS FROM WOODWORKING OPS	2008	PM	0.687074038	1.64070513	0.936	0.105005128
SC	SC_AQMD	R1137	PM10 EMISSION REDUCTIONS FROM WOODWORKING OPS	2009	PM	0.68693915	1.65566239	0.936	0.105962393
SC	SC_AQMD	R1137	PM10 EMISSION REDUCTIONS FROM WOODWORKING OPS	2010	PM	0.686810072	1.67179487	0.936	0.106994872
SC	SC_AQMD	R1137	PM10 EMISSION REDUCTIONS FROM WOODWORKING OPS	2012	PM	0.7	1.62745726	0.936	0.104157265
SC	SC_AQMD	R1137	PM10 EMISSION REDUCTIONS FROM WOODWORKING OPS	2015	PM	0.686432864	1.75288462	0.936	0.112184615

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 40 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SC	SC_AQMD	R1137	PM10 EMISSION REDUCTIONS FROM WOODWORKING OPS	2018	PM	0.7	1.71848291	0.936	0.109982906
SC	SC_AQMD	R1137	PM10 EMISSION REDUCTIONS FROM WOODWORKING OPS	2020	PM	0.686097922	1.83514957	0.936	0.117449573
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2000	PM	0.994088461	11.1734474	0.950610823	0.551847368
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2000	TOG	0.6986	1.86383144	0.874167032	0.234531442
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2001	PM	0.994021044	11.2173368	0.950617794	0.553936842
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2001	TOG	0.6986	1.8735234	0.874341893	0.235423404
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2002	PM	0.993950026	11.2615368	0.950625137	0.556036842
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2002	TOG	0.6986	1.88257896	0.874491873	0.23627896
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2003	PM	0.993913351	11.3049368	0.950628929	0.558136842
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2003	TOG	0.6986	1.89188913	0.874628422	0.237189125
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2004	PM	0.993851544	11.3486211	0.950635319	0.560221053
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2004	TOG	0.6986	1.90128109	0.874778596	0.238081087
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2005	PM	0.993781947	11.3927158	0.950642516	0.562315789
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2005	TOG	0.6986	1.91047305	0.8749142	0.23897305
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2006	PM	0.993715038	11.4330263	0.950649434	0.564226316
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2006	TOG	0.6986	1.9191922	0.875055662	0.239792199
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2007	PM	0.993615445	11.4743474	0.950659733	0.566147368
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2007	TOG	0.6986	1.92759314	0.875184686	0.240593144
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2008	PM	0.993545511	11.5148632	0.950666964	0.568063158
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2008	TOG	0.6986	1.93651229	0.875336555	0.241412293
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2009	PM	0.993476009	11.5552737	0.950674151	0.569973684
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2009	TOG	0.6986	1.94511324	0.875476022	0.242213239
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2010	PM	0.993415397	11.5958	0.950680419	0.5719
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2010	TOG	0.6986	1.95353239	0.875593367	0.243032388
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2012	PM	1	11.4896842	0.95	0.574484211
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2012	TOG	0.6986	1.84804279	0.86789116	0.24414279
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2015	PM	0.993191203	11.7324684	0.950703603	0.578368421
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2015	TOG	0.6986	1.98301749	0.876038666	0.245817494
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2018	PM	1	11.6353684	0.95	0.581768421
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2018	TOG	0.6986	1.87163735	0.867903175	0.247237352
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2020	PM	0.992978657	11.8525263	0.950725584	0.584026316
SC	SC_AQMD	R1138	RESTAURANT OPERATIONS	2020	TOG	0.6986	2.00870213	0.876436569	0.248202128
SC	SC_AQMD	R1145	PLASTIC RUBBER GLASS ADHESIVE	2000	TOG	0.917091209	2.53534948	0.600534026	1.0127855
SC	SC_AQMD	R1145	PLASTIC RUBBER GLASS ADHESIVE	2001	TOG	0.916411263	2.64219196	0.600540131	1.05544965
SC	SC_AQMD	R1145	PLASTIC RUBBER GLASS ADHESIVE	2002	TOG	0.931378879	2.7546401	0.600530284	1.1003953
SC	SC_AQMD	R1145	PLASTIC RUBBER GLASS ADHESIVE	2003	TOG	0.937589567	2.86851164	0.600519822	1.14591354
SC	SC_AQMD	R1145	PLASTIC RUBBER GLASS ADHESIVE	2004	TOG	0.943886957	2.97800526	0.600521349	1.18964952
SC	SC_AQMD	R1145	PLASTIC RUBBER GLASS ADHESIVE	2005	TOG	0.943734301	3.08634754	0.600506131	1.23297692
SC	SC_AQMD	R1145	PLASTIC RUBBER GLASS ADHESIVE	2006	TOG	0.943450934	3.2166322	0.600521603	1.28497508
SC	SC_AQMD	R1145	PLASTIC RUBBER GLASS ADHESIVE	2007	TOG	0.94321414	3.35079708	0.600500718	1.33864103
SC	SC_AQMD	R1145	PLASTIC RUBBER GLASS ADHESIVE	2008	TOG	0.942936685	3.47837473	0.600498986	1.38961423
SC	SC_AQMD	R1145	PLASTIC RUBBER GLASS ADHESIVE	2009	TOG	0.942785303	3.61254675	0.600496469	1.44322518
SC	SC_AQMD	R1145	PLASTIC RUBBER GLASS ADHESIVE	2010	TOG	0.942528839	3.7398425	0.60049504	1.49408563
SC	SC_AQMD	R1145	PLASTIC RUBBER GLASS ADHESIVE	2012	TOG	0.9879	0.833	0.6	0.3332
SC	SC_AQMD	R1145	PLASTIC RUBBER GLASS ADHESIVE	2015	TOG	0.942630055	4.47745765	0.600478095	1.78884241
SC	SC_AQMD	R1145	PLASTIC RUBBER GLASS ADHESIVE	2018	TOG	0.9879	1.0035	0.6	0.4014
SC	SC_AQMD	R1145	PLASTIC RUBBER GLASS ADHESIVE	2020	TOG	0.942986564	5.36183645	0.600453189	2.14230465
SC	SC_AQMD	R1158	STG, HANDLING & TRANSPORT OF COKE, COAL	2000	PM	0.7	0.961080074	0.537	0.444980074
SC	SC_AQMD	R1158	STG, HANDLING & TRANSPORT OF COKE, COAL	2001	PM	0.7	0.961080074	0.537	0.444980074

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 41 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SC	SC_AQMD	R1158	STG, HANDLING & TRANSPORT OF COKE, COAL	2002	PM	0.7	0.961165049	0.206	0.763165049
SC	SC_AQMD	R1158	STG, HANDLING & TRANSPORT OF COKE, COAL	2003	PM	0.7	0.961165049	0.206	0.763165049
SC	SC_AQMD	R1158	STG, HANDLING & TRANSPORT OF COKE, COAL	2004	PM	0.7	0.961165049	0.206	0.763165049
SC	SC_AQMD	R1158	STG, HANDLING & TRANSPORT OF COKE, COAL	2005	PM	0.7	0.961165049	0.206	0.763165049
SC	SC_AQMD	R1158	STG, HANDLING & TRANSPORT OF COKE, COAL	2006	PM	0.7	0.961165049	0.206	0.763165049
SC	SC_AQMD	R1158	STG, HANDLING & TRANSPORT OF COKE, COAL	2007	PM	0.7	0.961165049	0.206	0.763165049
SC	SC_AQMD	R1158	STG, HANDLING & TRANSPORT OF COKE, COAL	2008	PM	0.7	0.961165049	0.206	0.763165049
SC	SC_AQMD	R1158	STG, HANDLING & TRANSPORT OF COKE, COAL	2009	PM	0.7	0.961165049	0.206	0.763165049
SC	SC_AQMD	R1158	STG, HANDLING & TRANSPORT OF COKE, COAL	2010	PM	0.7	0.961165049	0.206	0.763165049
SC	SC_AQMD	R1158	STG, HANDLING & TRANSPORT OF COKE, COAL	2015	PM	0.7	0.961165049	0.206	0.763165049
SC	SC_AQMD	R1158	STG, HANDLING & TRANSPORT OF COKE, COAL	2020	PM	0.7	0.961165049	0.206	0.763165049
SC	SC_AQMD	R1176	SUMPS AND WASTEWATER SEPARATORS	2000	TOG	0.647367506	6.23710145	0.345	4.08530145
SC	SC_AQMD	R1176	SUMPS AND WASTEWATER SEPARATORS	2001	TOG	0.647402064	6.23594203	0.345	4.08454203
SC	SC_AQMD	R1176	SUMPS AND WASTEWATER SEPARATORS	2002	TOG	0.647402064	6.23594203	0.345	4.08454203
SC	SC_AQMD	R1176	SUMPS AND WASTEWATER SEPARATORS	2003	TOG	0.647402064	6.23594203	0.345	4.08454203
SC	SC_AQMD	R1176	SUMPS AND WASTEWATER SEPARATORS	2004	TOG	0.647413107	6.23623188	0.345	4.08473188
SC	SC_AQMD	R1176	SUMPS AND WASTEWATER SEPARATORS	2005	TOG	0.647384676	6.23826087	0.345	4.08606087
SC	SC_AQMD	R1176	SUMPS AND WASTEWATER SEPARATORS	2006	TOG	0.647384676	6.23826087	0.345	4.08606087
SC	SC_AQMD	R1176	SUMPS AND WASTEWATER SEPARATORS	2007	TOG	0.647384676	6.23826087	0.345	4.08606087
SC	SC_AQMD	R1176	SUMPS AND WASTEWATER SEPARATORS	2008	TOG	0.647395716	6.23855072	0.345	4.08625072
SC	SC_AQMD	R1176	SUMPS AND WASTEWATER SEPARATORS	2009	TOG	0.647391656	6.23884058	0.345	4.08644058
SC	SC_AQMD	R1176	SUMPS AND WASTEWATER SEPARATORS	2010	TOG	0.6474059	6.23913043	0.345	4.08663043
SC	SC_AQMD	R1176	SUMPS AND WASTEWATER SEPARATORS	2012	TOG	0.281956742	2.34521739	0.345	1.53611739
SC	SC_AQMD	R1176	SUMPS AND WASTEWATER SEPARATORS	2015	TOG	0.647462567	6.24115942	0.345	4.08795942
SC	SC_AQMD	R1176	SUMPS AND WASTEWATER SEPARATORS	2018	TOG	0.281956742	2.34521739	0.345	1.53611739
SC	SC_AQMD	R1176	SUMPS AND WASTEWATER SEPARATORS	2020	TOG	0.647469537	6.24173913	0.345	4.08833913
SC	SC_AQMD	R1178	FURTHER REDUCTIONS IN VOC EMISSIONS	2003	TOG	0.89486506	5.32853059	0.990233254	0.052042403
SC	SC_AQMD	R1178	FURTHER REDUCTIONS IN VOC EMISSIONS	2004	TOG	0.895013121	5.36376629	0.980444956	0.104888685
SC	SC_AQMD	R1178	FURTHER REDUCTIONS IN VOC EMISSIONS	2005	TOG	0.895127702	5.39970284	0.980426703	0.105689987
SC	SC_AQMD	R1178	FURTHER REDUCTIONS IN VOC EMISSIONS	2006	TOG	0.895208952	5.43156417	0.980412708	0.106389634
SC	SC_AQMD	R1178	FURTHER REDUCTIONS IN VOC EMISSIONS	2007	TOG	0.893654796	5.45044867	0.599595287	2.18238533
SC	SC_AQMD	R1178	FURTHER REDUCTIONS IN VOC EMISSIONS	2008	TOG	0.893745044	5.48950579	0.59963399	2.19781153
SC	SC_AQMD	R1178	FURTHER REDUCTIONS IN VOC EMISSIONS	2009	TOG	0.894232264	5.51940374	0.546173938	2.50484926
SC	SC_AQMD	R1178	FURTHER REDUCTIONS IN VOC EMISSIONS	2010	TOG	0.894329651	5.56717489	0.546025171	2.5273527
SC	SC_AQMD	R1178	FURTHER REDUCTIONS IN VOC EMISSIONS	2015	TOG	0.894779513	5.71447329	0.545944166	2.59468993
SC	SC_AQMD	R1178	FURTHER REDUCTIONS IN VOC EMISSIONS	2020	TOG	0.89532065	5.84117937	0.545942676	2.65223027
SC	SC_AQMD	R1186	PVD & UNPAVED & LIVESTOCK OPR	2000	PM	0.469427302	396.569884	0.980143262	7.87458445
SC	SC_AQMD	R1186	PVD & UNPAVED & LIVESTOCK OPR	2001	PM	0.469266235	399.268053	0.979622581	8.13605258
SC	SC_AQMD	R1186	PVD & UNPAVED & LIVESTOCK OPR	2002	PM	0.4684947	401.970774	0.955109737	18.0445739
SC	SC_AQMD	R1186	PVD & UNPAVED & LIVESTOCK OPR	2003	PM	0.46809968	404.651038	0.943217893	22.9769384
SC	SC_AQMD	R1186	PVD & UNPAVED & LIVESTOCK OPR	2004	PM	0.467689557	407.41507	0.932236258	27.6079695
SC	SC_AQMD	R1186	PVD & UNPAVED & LIVESTOCK OPR	2005	PM	0.467061553	410.094672	0.917792952	33.7126723
SC	SC_AQMD	R1186	PVD & UNPAVED & LIVESTOCK OPR	2006	PM	0.467107497	411.97335	0.909028702	37.4777505
SC	SC_AQMD	R1186	PVD & UNPAVED & LIVESTOCK OPR	2007	PM	0.467056842	413.895138	0.909116503	37.6162376
SC	SC_AQMD	R1186	PVD & UNPAVED & LIVESTOCK OPR	2008	PM	0.467006984	415.80997	0.909203548	37.7540698
SC	SC_AQMD	R1186	PVD & UNPAVED & LIVESTOCK OPR	2009	PM	0.46695696	417.745505	0.909290454	37.8935053
SC	SC_AQMD	R1186	PVD & UNPAVED & LIVESTOCK OPR	2010	PM	0.466907946	419.662741	0.909375941	38.0315408
SC	SC_AQMD	R1186	PVD & UNPAVED & LIVESTOCK OPR	2012	PM	0.466815166	423.58895	0.909565038	38.3072505
SC	SC_AQMD	R1186	PVD & UNPAVED & LIVESTOCK OPR	2015	PM	0.466677001	429.585316	0.909847673	38.728116

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 42 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SC	SC_AQMD	R1186	PVD & UNPAVED & LIVESTOCK OPR	2018	PM	0.466543105	435.568343	0.910122157	39.1479429
SC	SC_AQMD	R1186	PVD & UNPAVED & LIVESTOCK OPR	2020	PM	0.466456174	439.544349	0.910300407	39.4269494
SC	SC_AQMD	R1189	H2 PLANT PROCESS VENTS	2002	TOG	0.8096	2.14038877	0.463	1.15E+00
SC	SC_AQMD	R1189	H2 PLANT PROCESS VENTS	2003	TOG	0.8096	2.14307692	0.195	1.72517692
SC	SC_AQMD	R1189	H2 PLANT PROCESS VENTS	2004	TOG	0.8096	2.14564103	0.195	1.72724103
SC	SC_AQMD	R1189	H2 PLANT PROCESS VENTS	2005	TOG	0.8096	2.14820513	0.195	1.72930513
SC	SC_AQMD	R1189	H2 PLANT PROCESS VENTS	2006	TOG	0.8096	2.15076923	0.195	1.73136923
SC	SC_AQMD	R1189	H2 PLANT PROCESS VENTS	2007	TOG	0.8096	2.15333333	0.195	1.73343333
SC	SC_AQMD	R1189	H2 PLANT PROCESS VENTS	2008	TOG	0.8096	2.15589744	0.195	1.73549744
SC	SC_AQMD	R1189	H2 PLANT PROCESS VENTS	2009	TOG	0.8096	2.15846154	0.195	1.73756154
SC	SC_AQMD	R1189	H2 PLANT PROCESS VENTS	2010	TOG	0.8096	2.16102564	0.195	1.73962564
SC	SC_AQMD	R1189	H2 PLANT PROCESS VENTS	2015	TOG	0.8096	2.17641026	0.195	1.75201026
SC	SC_AQMD	R1189	H2 PLANT PROCESS VENTS	2020	TOG	0.8096	2.19333333	0.195	1.76563333
SC	SC_AQMD	R1421	PERC CONTROLS -- DRY CLEANERS	2000	TOG		0.521815718	0.738	0.136715718
SC	SC_AQMD	R1421	PERC CONTROLS -- DRY CLEANERS	2001	TOG		0.538075881	0.738	0.140975881
SC	SC_AQMD	R1421	PERC CONTROLS -- DRY CLEANERS	2002	TOG		0.554336043	0.738	0.145236043
SC	SC_AQMD	R1421	PERC CONTROLS -- DRY CLEANERS	2003	TOG		0.570460705	0.738	0.149460705
SC	SC_AQMD	R1421	PERC CONTROLS -- DRY CLEANERS	2004	TOG		0.586585366	0.738	0.153685366
SC	SC_AQMD	R1421	PERC CONTROLS -- DRY CLEANERS	2005	TOG		0.60298103	0.738	0.15798103
SC	SC_AQMD	R1421	PERC CONTROLS -- DRY CLEANERS	2006	TOG		0.618157182	0.738	0.161957182
SC	SC_AQMD	R1421	PERC CONTROLS -- DRY CLEANERS	2007	TOG		0.633062331	0.738	0.165862331
SC	SC_AQMD	R1421	PERC CONTROLS -- DRY CLEANERS	2008	TOG		0.648238482	0.738	0.169838482
SC	SC_AQMD	R1421	PERC CONTROLS -- DRY CLEANERS	2009	TOG		0.663414634	0.738	0.173814634
SC	SC_AQMD	R1421	PERC CONTROLS -- DRY CLEANERS	2010	TOG		0.678590786	0.738	0.177790786
SC	SC_AQMD	R1421	PERC CONTROLS -- DRY CLEANERS	2015	TOG		0.726558266	0.738	0.190358266
SC	SC_AQMD	R1421	PERC CONTROLS -- DRY CLEANERS	2020	TOG		0.769783198	0.738	0.201683198
SC	SC_AQMD	R403A	FUGITIVE DUST	2000	PM	0.463198747	527.050365	0.973802116	13.8076046
SC	SC_AQMD	R403A	FUGITIVE DUST	2001	PM	0.463296229	532.232871	0.974060287	13.8059679
SC	SC_AQMD	R403A	FUGITIVE DUST	2002	PM	0.463477369	537.420301	0.974313707	13.8043352
SC	SC_AQMD	R403A	FUGITIVE DUST	2003	PM	0.46361664	542.586032	0.974561264	13.8027026
SC	SC_AQMD	R403A	FUGITIVE DUST	2004	PM	0.463750186	547.834118	0.974807948	13.8010658
SC	SC_AQMD	R403A	FUGITIVE DUST	2005	PM	0.463893846	552.995995	0.975046063	13.799427
SC	SC_AQMD	R403A	FUGITIVE DUST	2006	PM	0.464045171	557.416237	0.975247061	13.7976903
SC	SC_AQMD	R403A	FUGITIVE DUST	2007	PM	0.464147032	561.880383	0.975446821	13.7959495
SC	SC_AQMD	R403A	FUGITIVE DUST	2008	PM	0.464247251	566.335099	0.975642984	13.7942332
SC	SC_AQMD	R403A	FUGITIVE DUST	2009	PM	0.464345571	570.812814	0.975837065	13.7925128
SC	SC_AQMD	R403A	FUGITIVE DUST	2010	PM	0.464442619	575.270608	0.976027331	13.7907719
SC	SC_AQMD	R403A	FUGITIVE DUST	2012	PM	0.464371061	578.624359	0.9761688	13.7893128
SC	SC_AQMD	R403A	FUGITIVE DUST	2015	PM	0.464517499	589.315025	0.976604851	13.7871128
SC	SC_AQMD	R403A	FUGITIVE DUST	2018	PM	0.46464057	599.604007	0.97700938	13.7852679
SC	SC_AQMD	R403A	FUGITIVE DUST	2020	PM	0.464720383	606.45058	0.977270967	13.7840352
SC	SC_AQMD	R461A	GAS TRANSFER AND DISPENSING	2000	TOG	0.47681371	35.9501584	0.888727657	4.00025836
SC	SC_AQMD	R461A	GAS TRANSFER AND DISPENSING	2001	TOG	0.476960075	36.1650487	0.888731002	4.02404872
SC	SC_AQMD	R461A	GAS TRANSFER AND DISPENSING	2002	TOG	0.638366828	36.3637396	0.332155057	24.2853396
SC	SC_AQMD	R461A	GAS TRANSFER AND DISPENSING	2003	TOG	0.638487566	36.578112	0.332176795	24.427712
SC	SC_AQMD	R461A	GAS TRANSFER AND DISPENSING	2004	TOG	0.638566495	36.7906588	0.332190301	24.5691588
SC	SC_AQMD	R461A	GAS TRANSFER AND DISPENSING	2005	TOG	0.638667187	37.0032284	0.332208851	24.7104284
SC	SC_AQMD	R461A	GAS TRANSFER AND DISPENSING	2006	TOG	0.638770102	37.2942104	0.33222583	24.9041104
SC	SC_AQMD	R461A	GAS TRANSFER AND DISPENSING	2007	TOG	0.638838678	37.5821409	0.332240253	25.0958409

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 43 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SC	SC_AQMD	R461A	GAS TRANSFER AND DISPENSING	2008	TOG	0.638967538	37.8756509	0.332258316	25.2911509
SC	SC_AQMD	R461A	GAS TRANSFER AND DISPENSING	2009	TOG	0.639054396	38.165259	0.33227601	25.483859
SC	SC_AQMD	R461A	GAS TRANSFER AND DISPENSING	2010	TOG	0.639112757	38.4517772	0.332291533	25.6745772
SC	SC_AQMD	R461A	GAS TRANSFER AND DISPENSING	2012	TOG	0.636601558	38.888945	0.332143235	25.972245
SC	SC_AQMD	R461A	GAS TRANSFER AND DISPENSING	2015	TOG	0.639370578	40.2435294	0.332351566	26.8685294
SC	SC_AQMD	R461A	GAS TRANSFER AND DISPENSING	2018	TOG	0.636869635	41.2590322	0.332208471	27.5524322
SC	SC_AQMD	R461A	GAS TRANSFER AND DISPENSING	2020	TOG	0.639610642	42.4383782	0.332399601	28.3318782
SC	SC_AQMD	R1113B	ARCHITECTURAL COATINGS	2000	TOG	0.976433762	65.7311579	0.95	3.28655789
SC	SC_AQMD	R1113B	ARCHITECTURAL COATINGS	2001	TOG	0.976433878	66.4976842	0.95	3.32488421
SC	SC_AQMD	R1113B	ARCHITECTURAL COATINGS	2002	TOG	0.976433808	67.2662546	0.809	12.8478546
SC	SC_AQMD	R1113B	ARCHITECTURAL COATINGS	2003	TOG	0.976433409	68.0299157	0.712	19.5926157
SC	SC_AQMD	R1113B	ARCHITECTURAL COATINGS	2004	TOG	0.976433516	68.7992978	0.712	19.8141978
SC	SC_AQMD	R1113B	ARCHITECTURAL COATINGS	2005	TOG	0.976433634	69.5660405	0.692	21.4263405
SC	SC_AQMD	R1113B	ARCHITECTURAL COATINGS	2006	TOG	0.976433423	70.3334477	0.583	29.3290477
SC	SC_AQMD	R1113B	ARCHITECTURAL COATINGS	2007	TOG	0.976433294	71.1012658	0.474	37.3992658
SC	SC_AQMD	R1113B	ARCHITECTURAL COATINGS	2008	TOG	0.976433135	71.8654628	0.443	40.0290628
SC	SC_AQMD	R1113B	ARCHITECTURAL COATINGS	2009	TOG	0.976433532	72.6330097	0.412	42.7082097
SC	SC_AQMD	R1113B	ARCHITECTURAL COATINGS	2010	TOG	0.976433524	73.4029126	0.412	43.1609126
SC	SC_AQMD	R1113B	ARCHITECTURAL COATINGS	2012	TOG	0.976433917	75.1492718	0.412	44.1877718
SC	SC_AQMD	R1113B	ARCHITECTURAL COATINGS	2015	TOG	0.976433162	77.7701456	0.412	45.7288456
SC	SC_AQMD	R1113B	ARCHITECTURAL COATINGS	2018	TOG	0.976433488	80.3912621	0.412	47.2700621
SC	SC_AQMD	R1113B	ARCHITECTURAL COATINGS	2020	TOG	0.976433078	82.1378641	0.412	48.2970641
SC	SC_AQMD	R1122A	SOLVENT DEGREASERS	2003	TOG	0.960209115	62.3341667	0.509	30.6060758
SC	SC_AQMD	R1122A	SOLVENT DEGREASERS	2004	TOG	0.96034256	64.7658333	0.509	31.8000242
SC	SC_AQMD	R1122A	SOLVENT DEGREASERS	2005	TOG	0.96034291	67.1908333	0.509	32.9906992
SC	SC_AQMD	R1122A	SOLVENT DEGREASERS	2006	TOG	0.960392213	70.0803419	0.496	35.3204923
SC	SC_AQMD	R1122A	SOLVENT DEGREASERS	2007	TOG	0.960461133	73.0034188	0.496	36.7937231
SC	SC_AQMD	R1122A	SOLVENT DEGREASERS	2008	TOG	0.960499379	75.9512821	0.496	38.2794462
SC	SC_AQMD	R1122A	SOLVENT DEGREASERS	2009	TOG	0.960550238	78.8350427	0.496	39.7328615
SC	SC_AQMD	R1122A	SOLVENT DEGREASERS	2010	TOG	0.960661267	81.7606838	0.496	41.2073846
SC	SC_AQMD	R1122A	SOLVENT DEGREASERS	2012	TOG	0.964893593	88.1547009	0.496	44.4299692
SC	SC_AQMD	R1122A	SOLVENT DEGREASERS	2015	TOG	0.960762042	99.5487179	0.496	50.1725538
SC	SC_AQMD	R1122A	SOLVENT DEGREASERS	2018	TOG	0.964881707	111.593162	0.496	56.2429538
SC	SC_AQMD	R1122A	SOLVENT DEGREASERS	2020	TOG	0.960824978	121.11453	0.496	61.0417231
SC	SC_AQMD	R1162A	POLYESTER RESIN OPERATIONS	2002	TOG	0.765630416	17.5108911	0.804025306	3.43169153
SC	SC_AQMD	R1162A	POLYESTER RESIN OPERATIONS	2003	TOG	0.770543282	18.0930892	0.607915389	7.09402183
SC	SC_AQMD	R1162A	POLYESTER RESIN OPERATIONS	2004	TOG	0.76920131	18.7005062	0.607751891	7.3352382
SC	SC_AQMD	R1162A	POLYESTER RESIN OPERATIONS	2005	TOG	0.768415259	19.302183	0.607592193	7.5743273
SC	SC_AQMD	R1162A	POLYESTER RESIN OPERATIONS	2006	TOG	0.767512443	19.9811764	0.607293107	7.84674572
SC	SC_AQMD	R1162A	POLYESTER RESIN OPERATIONS	2007	TOG	0.766671293	20.6606709	0.607093228	8.1177175
SC	SC_AQMD	R1162A	POLYESTER RESIN OPERATIONS	2008	TOG	0.765877589	21.341094	0.606930376	8.38853581
SC	SC_AQMD	R1162A	POLYESTER RESIN OPERATIONS	2009	TOG	0.765165511	22.0217641	0.606751623	8.66002299
SC	SC_AQMD	R1162A	POLYESTER RESIN OPERATIONS	2010	TOG	0.764430165	22.7010233	0.60657742	8.93109517
SC	SC_AQMD	R1162A	POLYESTER RESIN OPERATIONS	2012	TOG	0.6986	4.79628099	0.242	3.63558099
SC	SC_AQMD	R1162A	POLYESTER RESIN OPERATIONS	2015	TOG	0.761180203	26.4440984	0.605909576	10.421366
SC	SC_AQMD	R1162A	POLYESTER RESIN OPERATIONS	2018	TOG	0.6986	5.83801653	0.242	4.42521653
SC	SC_AQMD	R1162A	POLYESTER RESIN OPERATIONS	2020	TOG	0.75860394	30.7570072	0.605514898	12.1331811
SC	SC_AQMD	R1168A	ADHESIVES	2002	TOG	0.872559736	9.13902379	0.406	5.42858013
SC	SC_AQMD	R1168A	ADHESIVES	2003	TOG	0.872578926	9.55122464	0.333	6.37066684

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 44 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SC	SC_AQMD	R1168A	ADHESIVES	2004	TOG	0.872610732	9.95585065	0.333	6.64055239
SC	SC_AQMD	R1168A	ADHESIVES	2005	TOG	0.872596761	10.4039758	0.333	6.93945183
SC	SC_AQMD	R1168A	ADHESIVES	2006	TOG	0.872593598	10.9434857	0.333	7.29930497
SC	SC_AQMD	R1168A	ADHESIVES	2007	TOG	0.872596147	11.4691552	0.333	7.64992651
SC	SC_AQMD	R1168A	ADHESIVES	2008	TOG	0.872590894	12.0140252	0.333	8.0133548
SC	SC_AQMD	R1168A	ADHESIVES	2009	TOG	0.872590272	12.5433694	0.333	8.36642739
SC	SC_AQMD	R1168A	ADHESIVES	2010	TOG	0.87258692	13.0799668	0.333	8.72433788
SC	SC_AQMD	R1168A	ADHESIVES	2012	TOG	0.873234843	12.5489489	0.333	8.37014895
SC	SC_AQMD	R1168A	ADHESIVES	2015	TOG	0.872583409	16.2168264	0.333	10.8166232
SC	SC_AQMD	R1168A	ADHESIVES	2018	TOG	0.873205125	16.2651652	0.333	10.8488652
SC	SC_AQMD	R1168A	ADHESIVES	2020	TOG	0.872563668	20.1157536	0.333	13.4172077
SC	SC_AQMD	R431.1	STANDARDS FOR SULFUR-GAS FUEL	2000	SOX		0.921267454	0.931	0.063567454
SC	SC_AQMD	R431.1	STANDARDS FOR SULFUR-GAS FUEL	2001	SOX		0.939742213	0.931	0.064842213
SC	SC_AQMD	R431.1	STANDARDS FOR SULFUR-GAS FUEL	2002	SOX		0.947475832	0.931	0.065375832
SC	SC_AQMD	R431.1	STANDARDS FOR SULFUR-GAS FUEL	2003	SOX		0.962083781	0.931	0.066383781
SC	SC_AQMD	R431.1	STANDARDS FOR SULFUR-GAS FUEL	2004	SOX		0.977980666	0.931	0.067480666
SC	SC_AQMD	R431.1	STANDARDS FOR SULFUR-GAS FUEL	2005	SOX		0.995810956	0.931	0.068710956
SC	SC_AQMD	R431.1	STANDARDS FOR SULFUR-GAS FUEL	2006	SOX		1.01267454	0.931	0.069874544
SC	SC_AQMD	R431.1	STANDARDS FOR SULFUR-GAS FUEL	2007	SOX		1.02395274	0.931	0.070652739
SC	SC_AQMD	R431.1	STANDARDS FOR SULFUR-GAS FUEL	2008	SOX		1.0396348	0.931	0.071734801
SC	SC_AQMD	R431.1	STANDARDS FOR SULFUR-GAS FUEL	2009	SOX		1.05359828	0.931	0.072698281
SC	SC_AQMD	R431.1	STANDARDS FOR SULFUR-GAS FUEL	2010	SOX		1.06949517	0.931	0.073795166
SC	SC_AQMD	R431.1	STANDARDS FOR SULFUR-GAS FUEL	2015	SOX		1.12309345	0.931	0.077493448
SC	SC_AQMD	R431.1	STANDARDS FOR SULFUR-GAS FUEL	2020	SOX		1.18077336	0.931	0.081473362
SC	SC_AQMD	R431.2	STANDARDS FOR SULFUR-LIQUID FUEL	2004	PM	0.971870494	1.00040147	0.942	0.058023285
SC	SC_AQMD	R431.2	STANDARDS FOR SULFUR-LIQUID FUEL	2004	SOX		0.23173913	0.46	0.12513913
SC	SC_AQMD	R431.2	STANDARDS FOR SULFUR-LIQUID FUEL	2005	PM	0.971905673	1.01364183	0.9	0.101364183
SC	SC_AQMD	R431.2	STANDARDS FOR SULFUR-LIQUID FUEL	2005	SOX		0.197333333	0.075	0.182533333
SC	SC_AQMD	R431.2	STANDARDS FOR SULFUR-LIQUID FUEL	2006	PM	0.971960818	1.02676607	0.9	0.102676607
SC	SC_AQMD	R431.2	STANDARDS FOR SULFUR-LIQUID FUEL	2006	SOX		0.198666667	0.075	0.183766667
SC	SC_AQMD	R431.2	STANDARDS FOR SULFUR-LIQUID FUEL	2007	PM	0.972041845	1.04427397	0.9	0.104427397
SC	SC_AQMD	R431.2	STANDARDS FOR SULFUR-LIQUID FUEL	2007	SOX		0.196	0.075	0.1813
SC	SC_AQMD	R431.2	STANDARDS FOR SULFUR-LIQUID FUEL	2008	PM	0.972072731	1.05338889	0.9	0.105338889
SC	SC_AQMD	R431.2	STANDARDS FOR SULFUR-LIQUID FUEL	2008	SOX		0.208	0.075	0.1924
SC	SC_AQMD	R431.2	STANDARDS FOR SULFUR-LIQUID FUEL	2009	PM	0.972133868	1.06665464	0.9	0.106665464
SC	SC_AQMD	R431.2	STANDARDS FOR SULFUR-LIQUID FUEL	2009	SOX		0.217333333	0.075	0.201033333
SC	SC_AQMD	R431.2	STANDARDS FOR SULFUR-LIQUID FUEL	2010	PM	0.972184367	1.07875153	0.9	0.107875153
SC	SC_AQMD	R431.2	STANDARDS FOR SULFUR-LIQUID FUEL	2010	SOX		0.221333333	0.075	0.204733333
SC	SC_AQMD	R431.2	STANDARDS FOR SULFUR-LIQUID FUEL	2012	PM	0.961739487	0.130548107	0.9	0.013054811
SC	SC_AQMD	R431.2	STANDARDS FOR SULFUR-LIQUID FUEL	2012	SOX		0.041333333	0.075	0.038233333
SC	SC_AQMD	R431.2	STANDARDS FOR SULFUR-LIQUID FUEL	2015	PM	0.972353422	1.1438311	0.9	0.11438311
SC	SC_AQMD	R431.2	STANDARDS FOR SULFUR-LIQUID FUEL	2015	SOX		0.226666667	0.075	0.209666667
SC	SC_AQMD	R431.2	STANDARDS FOR SULFUR-LIQUID FUEL	2018	PM	0.962153086	0.12794146	0.9	0.012794146
SC	SC_AQMD	R431.2	STANDARDS FOR SULFUR-LIQUID FUEL	2018	SOX		0.038666667	0.075	0.035766667
SC	SC_AQMD	R431.2	STANDARDS FOR SULFUR-LIQUID FUEL	2020	PM	0.972433654	1.19856309	0.9	0.119856309
SC	SC_AQMD	R431.2	STANDARDS FOR SULFUR-LIQUID FUEL	2020	SOX		0.256	0.075	0.2368
SC	SC_AQMD	R1122.0	SOLVENT DEGREASERS	2000	TOG	0.959970162	55.009322	0.236	42.027122
SC	SC_AQMD	R1122.0	SOLVENT DEGREASERS	2001	TOG	0.960047236	57.4411017	0.236	43.8850017
SC	SC_AQMD	R1122.0	SOLVENT DEGREASERS	2002	TOG	0.960138137	59.8449153	0.236	45.7215153

**CCOS EMISSION REDUCTIONS BY RULE, v2.11**  
 December 8, 2003

Page 45 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SC	SC_AQMD	R1122.0	SOLVENT DEGREASERS	2003	TOG	0.960209115	62.3341667	0.236	47.6233033
SC	SC_AQMD	R1122.0	SOLVENT DEGREASERS	2004	TOG	0.96034256	64.7658333	0.236	49.4810967
SC	SC_AQMD	R1122.0	SOLVENT DEGREASERS	2005	TOG	0.96034291	67.1908333	0.236	51.3337967
SC	SC_AQMD	R1122.0	SOLVENT DEGREASERS	2006	TOG	0.960392213	70.0803419	0.236	53.5413812
SC	SC_AQMD	R1122.0	SOLVENT DEGREASERS	2007	TOG	0.960461133	73.0034188	0.236	55.774612
SC	SC_AQMD	R1122.0	SOLVENT DEGREASERS	2008	TOG	0.960499379	75.9512821	0.236	58.0267795
SC	SC_AQMD	R1122.0	SOLVENT DEGREASERS	2009	TOG	0.960550238	78.8350427	0.236	60.2299726
SC	SC_AQMD	R1122.0	SOLVENT DEGREASERS	2010	TOG	0.960661267	81.7606838	0.236	62.4651624
SC	SC_AQMD	R1122.0	SOLVENT DEGREASERS	2012	TOG	0.964893593	88.1547009	0.236	67.3501915
SC	SC_AQMD	R1122.0	SOLVENT DEGREASERS	2015	TOG	0.960762042	99.5487179	0.236	76.0552205
SC	SC_AQMD	R1122.0	SOLVENT DEGREASERS	2018	TOG	0.964881707	111.593162	0.236	85.2571761
SC	SC_AQMD	R1122.0	SOLVENT DEGREASERS	2020	TOG	0.960824978	121.11453	0.236	92.5315009
SC	SC_AQMD	R1130.0	GRAPHIC ARTS	2000	TOG	0.988028054	6.47427484	0.859728033	0.908159269
SC	SC_AQMD	R1130.0	GRAPHIC ARTS	2001	TOG	0.98800256	6.6052129	0.859720826	0.92657381
SC	SC_AQMD	R1130.0	GRAPHIC ARTS	2002	TOG	0.988312222	6.71388864	0.859714302	0.941862555
SC	SC_AQMD	R1130.0	GRAPHIC ARTS	2003	TOG	0.988671053	6.88063994	0.859696471	0.965378062
SC	SC_AQMD	R1130.0	GRAPHIC ARTS	2004	TOG	0.988784915	7.01730707	0.859688308	0.984610225
SC	SC_AQMD	R1130.0	GRAPHIC ARTS	2005	TOG	0.989137714	7.13997437	0.859681286	1.00187202
SC	SC_AQMD	R1130.0	GRAPHIC ARTS	2006	TOG	0.989114856	7.27246681	0.859673955	1.02051651
SC	SC_AQMD	R1130.0	GRAPHIC ARTS	2007	TOG	0.989076221	7.40249261	0.859663314	1.03884128
SC	SC_AQMD	R1130.0	GRAPHIC ARTS	2008	TOG	0.989070511	7.55256132	0.859652023	1.05998671
SC	SC_AQMD	R1130.0	GRAPHIC ARTS	2009	TOG	0.989042706	7.69257696	0.859643995	1.07969937
SC	SC_AQMD	R1130.0	GRAPHIC ARTS	2010	TOG	0.989010611	7.82820677	0.859634864	1.09880731
SC	SC_AQMD	R1130.0	GRAPHIC ARTS	2012	TOG	1	2.37347995	0.858	0.337034153
SC	SC_AQMD	R1130.0	GRAPHIC ARTS	2015	TOG	0.988948344	8.52594741	0.859596379	1.19707389
SC	SC_AQMD	R1130.0	GRAPHIC ARTS	2018	TOG	1	2.58706339	0.858	0.367363001
SC	SC_AQMD	R1130.0	GRAPHIC ARTS	2020	TOG	0.9889326	9.2821715	0.859556175	1.30362367
SC	SC_AQMD	R1130.1	SCREEN PRINT OPERATIONS	2003	TOG	1	2.65195183	0.901032879	0.262456038
SC	SC_AQMD	R1130.1	SCREEN PRINT OPERATIONS	2004	TOG	1	2.70326934	0.901032311	0.267536318
SC	SC_AQMD	R1130.1	SCREEN PRINT OPERATIONS	2005	TOG	1	2.75645725	0.901029471	0.272808032
SC	SC_AQMD	R1130.1	SCREEN PRINT OPERATIONS	2006	TOG	1	2.81245989	0.901028884	0.278352294
SC	SC_AQMD	R1130.1	SCREEN PRINT OPERATIONS	2007	TOG	1	2.86829657	0.901028322	0.283880125
SC	SC_AQMD	R1130.1	SCREEN PRINT OPERATIONS	2008	TOG	1	2.92426346	0.90102778	0.289420846
SC	SC_AQMD	R1130.1	SCREEN PRINT OPERATIONS	2009	TOG	1	2.97935737	0.901027266	0.294875144
SC	SC_AQMD	R1130.1	SCREEN PRINT OPERATIONS	2010	TOG	1	3.03717505	0.901026747	0.300599094
SC	SC_AQMD	R1130.1	SCREEN PRINT OPERATIONS	2012	TOG	1	2.37347995	0.901	0.234974515
SC	SC_AQMD	R1130.1	SCREEN PRINT OPERATIONS	2015	TOG	1	3.32781322	0.901024411	0.329372273
SC	SC_AQMD	R1130.1	SCREEN PRINT OPERATIONS	2018	TOG	1	2.58706339	0.901	0.256119276
SC	SC_AQMD	R1130.1	SCREEN PRINT OPERATIONS	2020	TOG	1	3.65098379	0.9010267	0.361349912
SC	SC_AQMD	R1146.0	BOILERS STEAM GENR. PROCESS HEATERS	2002	NOX	4.876267	0.809	0.931366996	
SC	SC_AQMD	R1146.0	BOILERS STEAM GENR. PROCESS HEATERS	2003	NOX	5.0197775	0.809	0.958777503	
SC	SC_AQMD	R1146.0	BOILERS STEAM GENR. PROCESS HEATERS	2004	NOX	5.05364648	0.809	0.965246477	
SC	SC_AQMD	R1146.0	BOILERS STEAM GENR. PROCESS HEATERS	2005	NOX	5.22299135	0.809	0.997591347	
SC	SC_AQMD	R1146.0	BOILERS STEAM GENR. PROCESS HEATERS	2006	NOX	5.31718171	0.809	1.01558171	
SC	SC_AQMD	R1146.0	BOILERS STEAM GENR. PROCESS HEATERS	2007	NOX	5.46489493	0.809	1.04379493	
SC	SC_AQMD	R1146.0	BOILERS STEAM GENR. PROCESS HEATERS	2008	NOX	5.60420272	0.809	1.07040272	
SC	SC_AQMD	R1146.0	BOILERS STEAM GENR. PROCESS HEATERS	2009	NOX	5.72200247	0.809	1.09290247	
SC	SC_AQMD	R1146.0	BOILERS STEAM GENR. PROCESS HEATERS	2010	NOX	5.80741656	0.809	1.10921656	
SC	SC_AQMD	R1146.0	BOILERS STEAM GENR. PROCESS HEATERS	2015	NOX	6.41656366	0.809	1.22556366	

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 46 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SC	SC_AQMD	R1146.0	BOILERS STEAM GENR. PROCESS HEATERS	2020	NOX		7.08182942	0.809	1.35262942
SC	SC_AQMD	R1146.2	BOILERS STEAM GENR. PROCESS HEATERS	2000	NOX		9.01557837	0.971817851	0.254078373
SC	SC_AQMD	R1146.2	BOILERS STEAM GENR. PROCESS HEATERS	2001	NOX		9.10041945	0.971812348	0.256519455
SC	SC_AQMD	R1146.2	BOILERS STEAM GENR. PROCESS HEATERS	2002	NOX		9.18534576	0.552336312	4.11194576
SC	SC_AQMD	R1146.2	BOILERS STEAM GENR. PROCESS HEATERS	2003	NOX		9.26970504	0.533242426	4.32670504
SC	SC_AQMD	R1146.2	BOILERS STEAM GENR. PROCESS HEATERS	2004	NOX		9.3543603	0.514049047	4.5457603
SC	SC_AQMD	R1146.2	BOILERS STEAM GENR. PROCESS HEATERS	2005	NOX		9.4383911	0.370529253	5.9411911
SC	SC_AQMD	R1146.2	BOILERS STEAM GENR. PROCESS HEATERS	2006	NOX		9.52164551	0.361418622	6.08034551
SC	SC_AQMD	R1146.2	BOILERS STEAM GENR. PROCESS HEATERS	2007	NOX		9.6062979	0.351363245	6.2309979
SC	SC_AQMD	R1146.2	BOILERS STEAM GENR. PROCESS HEATERS	2008	NOX		9.6896663	0.342251208	6.3733663
SC	SC_AQMD	R1146.2	BOILERS STEAM GENR. PROCESS HEATERS	2009	NOX		9.77218748	0.332197884	6.52588748
SC	SC_AQMD	R1146.2	BOILERS STEAM GENR. PROCESS HEATERS	2010	NOX		9.85535379	0.322971663	6.67235379
SC	SC_AQMD	R1146.2	BOILERS STEAM GENR. PROCESS HEATERS	2012	NOX		10.0090791	0.322826903	6.77787906
SC	SC_AQMD	R1146.2	BOILERS STEAM GENR. PROCESS HEATERS	2015	NOX		10.2376709	0.274486261	7.42757086
SC	SC_AQMD	R1146.2	BOILERS STEAM GENR. PROCESS HEATERS	2018	NOX		10.489541	0.274235068	7.61294103
SC	SC_AQMD	R1146.2	BOILERS STEAM GENR. PROCESS HEATERS	2020	NOX		10.6569298	0.274075185	7.73612979
SC	SC_AQMD	R1171.0	SOLVENT CLEANING OPERATIONS	2000	TOG	0.655383576	49.726587	0.612609787	19.2635931
SC	SC_AQMD	R1171.0	SOLVENT CLEANING OPERATIONS	2001	TOG	0.655228023	51.4989526	0.612254188	19.9685032
SC	SC_AQMD	R1171.0	SOLVENT CLEANING OPERATIONS	2002	TOG	0.665854683	53.1980459	0.444578158	29.5473567
SC	SC_AQMD	R1171.0	SOLVENT CLEANING OPERATIONS	2003	TOG	0.654016392	55.0530429	0.562884663	24.0645294
SC	SC_AQMD	R1171.0	SOLVENT CLEANING OPERATIONS	2004	TOG	0.653229148	56.8139672	0.56298223	24.8287133
SC	SC_AQMD	R1171.0	SOLVENT CLEANING OPERATIONS	2005	TOG	0.721009464	58.136177	0.193105025	46.9097891
SC	SC_AQMD	R1171.0	SOLVENT CLEANING OPERATIONS	2006	TOG	0.720046954	60.1917407	0.192333046	48.6148799
SC	SC_AQMD	R1171.0	SOLVENT CLEANING OPERATIONS	2007	TOG	0.719256246	62.1775272	0.191560496	50.2667693
SC	SC_AQMD	R1171.0	SOLVENT CLEANING OPERATIONS	2008	TOG	0.718546359	64.2962495	0.190800386	52.0285003
SC	SC_AQMD	R1171.0	SOLVENT CLEANING OPERATIONS	2009	TOG	0.717839513	66.329298	0.190311564	53.7060655
SC	SC_AQMD	R1171.0	SOLVENT CLEANING OPERATIONS	2010	TOG	0.717105978	68.3240629	0.189869605	55.3514
SC	SC_AQMD	R1171.0	SOLVENT CLEANING OPERATIONS	2012	TOG	0.581726679	45.1483333	0.12	39.7305333
SC	SC_AQMD	R1171.0	SOLVENT CLEANING OPERATIONS	2015	TOG	0.713803596	80.3729503	0.186178843	65.4092074
SC	SC_AQMD	R1171.0	SOLVENT CLEANING OPERATIONS	2018	TOG	0.581725928	57.1908333	0.12	50.3279333
SC	SC_AQMD	R1171.0	SOLVENT CLEANING OPERATIONS	2020	TOG	0.709634757	95.1416714	0.182592214	77.769543
SC	SC_AQMD	R1110.1N	EMISSIONS FROM STATIONARY I.C. ENGINES	2000	NOX		15.7607944	0.874873416	1.97209436
SC	SC_AQMD	R1110.1N	EMISSIONS FROM STATIONARY I.C. ENGINES	2001	NOX		16.1048273	0.874371378	2.02322726
SC	SC_AQMD	R1110.1N	EMISSIONS FROM STATIONARY I.C. ENGINES	2002	NOX		16.3685126	0.85911288	2.3061126
SC	SC_AQMD	R1110.1N	EMISSIONS FROM STATIONARY I.C. ENGINES	2003	NOX		16.619866	0.847563994	2.53346599
SC	SC_AQMD	R1110.1N	EMISSIONS FROM STATIONARY I.C. ENGINES	2004	NOX		16.8594157	0.610163494	6.5724157
SC	SC_AQMD	R1110.1N	EMISSIONS FROM STATIONARY I.C. ENGINES	2005	NOX		17.1450816	0.597413314	6.90238156
SC	SC_AQMD	R1110.1N	EMISSIONS FROM STATIONARY I.C. ENGINES	2006	NOX		17.4454123	0.58153971	7.30021228
SC	SC_AQMD	R1110.1N	EMISSIONS FROM STATIONARY I.C. ENGINES	2007	NOX		17.6916585	0.565142042	7.69335849
SC	SC_AQMD	R1110.1N	EMISSIONS FROM STATIONARY I.C. ENGINES	2008	NOX		17.9361189	0.54870845	8.09441889
SC	SC_AQMD	R1110.1N	EMISSIONS FROM STATIONARY I.C. ENGINES	2009	NOX		18.2254555	0.532041573	8.52875547
SC	SC_AQMD	R1110.1N	EMISSIONS FROM STATIONARY I.C. ENGINES	2010	NOX		18.4069586	0.341023204	12.1297586
SC	SC_AQMD	R1110.1N	EMISSIONS FROM STATIONARY I.C. ENGINES	2012	NOX		5.09789644	0.618	1.94739644
SC	SC_AQMD	R1110.1N	EMISSIONS FROM STATIONARY I.C. ENGINES	2015	NOX		19.4365117	0.335528313	12.9150117
SC	SC_AQMD	R1110.1N	EMISSIONS FROM STATIONARY I.C. ENGINES	2018	NOX		5.10404531	0.618	1.94974531
SC	SC_AQMD	R1110.1N	EMISSIONS FROM STATIONARY I.C. ENGINES	2020	NOX		20.5234339	0.33028586	13.7448339
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2002	CO		54.942142	0.859	7.74684203
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2002	TOG	0.9219	6.11870824	0.449	3.37140824
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2003	CO		56.0066356	0.859	7.89693562

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 47 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2003	TOG	0.9219	6.23719376	0.449	3.43669376
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2004	CO		57.0842841	0.859	8.04888405
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2004	TOG	0.9219	6.35679287	0.449	3.50259287
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2005	CO		58.2015606	0.833	9.71966062
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2005	TOG	0.9219	6.46941896	0.327	4.35391896
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2006	CO		59.0830732	0.833	9.86687323
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2006	TOG	0.9219	6.5675841	0.327	4.4199841
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2007	CO		59.9741897	0.833	10.0156897
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2007	TOG	0.9219	6.66666667	0.327	4.48666667
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2008	CO		60.8773109	0.833	10.1665109
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2008	TOG	0.9219	6.76697248	0.327	4.55417248
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2009	CO		61.7889556	0.833	10.3187556
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2009	TOG	0.9219	6.86880734	0.327	4.62270734
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2010	CO		62.7123649	0.833	10.4729649
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2010	TOG	0.9219	6.97155963	0.327	4.69185963
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2012	CO		64.5416567	0.833	10.7784567
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2012	TOG	0.9219	7.17461774	0.327	4.82851774
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2015	CO		67.3937575	0.833	11.2547575
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2015	TOG	0.9219	7.49174312	0.327	5.04194312
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2018	CO		70.2680672	0.833	11.7347672
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2018	TOG	0.9219	7.8116208	0.327	5.2572208
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2020	CO		72.2459784	0.833	12.0650784
SC	ARBSOUTH	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2020	TOG	0.9219	8.03119266	0.327	5.40499266
SD	ARB	TRAINS	TRAINS EPA MOU	2000	NOX		0.844646465	0.99	0.008446465
SD	ARB	TRAINS	TRAINS EPA MOU	2001	NOX		0.857894737	0.95	0.042894737
SD	ARB	TRAINS	TRAINS EPA MOU	2002	NOX		0.870449438	0.89	0.095749438
SD	ARB	TRAINS	TRAINS EPA MOU	2003	NOX		0.884390244	0.82	0.159190244
SD	ARB	TRAINS	TRAINS EPA MOU	2004	NOX		0.898289474	0.76	0.215589474
SD	ARB	TRAINS	TRAINS EPA MOU	2005	PM	1	0.020625	0.96	0.000825
SD	ARB	TRAINS	TRAINS EPA MOU	2005	NOX		0.912205882	0.68	0.291905882
SD	ARB	TRAINS	TRAINS EPA MOU	2005	TOG	0.8785	0.035104167	0.96	0.001404167
SD	ARB	TRAINS	TRAINS EPA MOU	2006	PM	1	0.020978261	0.92	0.001678261
SD	ARB	TRAINS	TRAINS EPA MOU	2006	NOX		0.926666667	0.63	0.342866667
SD	ARB	TRAINS	TRAINS EPA MOU	2006	TOG	0.8785	0.035698925	0.93	0.002498925
SD	ARB	TRAINS	TRAINS EPA MOU	2007	PM	1	0.021348315	0.89	0.002348315
SD	ARB	TRAINS	TRAINS EPA MOU	2007	NOX		0.941355932	0.59	0.385955932
SD	ARB	TRAINS	TRAINS EPA MOU	2007	TOG	0.8785	0.036222222	0.9	0.003622222
SD	ARB	TRAINS	TRAINS EPA MOU	2008	PM	1	0.021627907	0.86	0.003027907
SD	ARB	TRAINS	TRAINS EPA MOU	2008	NOX		0.955789474	0.57	0.410989474
SD	ARB	TRAINS	TRAINS EPA MOU	2008	TOG	0.8785	0.036781609	0.87	0.004781609
SD	ARB	TRAINS	TRAINS EPA MOU	2009	PM	1	0.02202381	0.84	0.00352381
SD	ARB	TRAINS	TRAINS EPA MOU	2009	NOX		0.971090909	0.55	0.436990909
SD	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	0.037380952	0.84	0.005980952
SD	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	0.022317073	0.82	0.004017073
SD	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		0.987037037	0.54	0.454037037
SD	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	0.03804878	0.82	0.00684878
SD	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	0.023037975	0.79	0.004837975
SD	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		1.01679245	0.53	0.477892453
SD	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	0.039125	0.8	0.007825

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 48 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SD	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	0.024133333	0.75	0.006033333
SD	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		1.06372549	0.51	0.52122549
SD	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	0.040921053	0.76	0.009821053
SD	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	0.025211268	0.71	0.007311268
SD	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		1.113333333	0.48	0.578933333
SD	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	0.042876712	0.73	0.011576712
SD	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.025942029	0.69	0.008042029
SD	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		1.14787234	0.47	0.60837234
SD	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	0.044142857	0.7	0.013242857
SD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.847952456	25.5462772	0.955513003	1.13647716
SD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.847717562	26.0924701	0.952006456	1.25227012
SD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.844453197	26.6790773	0.93068436	1.84927731
SD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.848764026	27.2607472	0.861542782	3.77444721
SD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.848176831	27.8467616	0.858132098	3.95056164
SD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.852763634	28.5269757	0.80338695	5.60877569
SD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.852765993	28.9516891	0.80355588	5.6873891
SD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.852704448	29.3768114	0.803415989	5.77501143
SD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.852645269	29.8051898	0.803202402	5.86558976
SD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.852589822	30.2307222	0.803060538	5.95362217
SD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.852537569	30.6570567	0.802904866	6.04235668
SD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.852535978	31.3805691	0.803165803	6.17676914
SD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.852535262	32.4679678	0.803515026	6.37946779
SD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.852537057	33.9277625	0.803913904	6.6527625
SD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.852537779	34.8983249	0.80420479	6.83292485
SD	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.7131285	2.47454338	0.876	0.306843379
SD	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.7131285	2.47454338	0.876	0.306843379
SD	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.7131285	2.47454338	0.876	0.306843379
SD	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.7131285	2.47454338	0.876	0.306843379
SD	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.7131285	2.47454338	0.876	0.306843379
SD	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.7131285	2.47454338	0.876	0.306843379
SD	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.7131285	2.47454338	0.876	0.306843379
SD	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.7131285	2.47454338	0.876	0.306843379
SD	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.7131285	2.47454338	0.876	0.306843379
SD	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.7131285	2.47454338	0.876	0.306843379
SD	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.7131285	2.47454338	0.876	0.306843379
SD	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2003	TOG	0.978573026	10.7992685	0.865651224	1.4508685
SD	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2004	TOG	0.979511997	10.9165184	0.809882756	2.07541839
SD	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2005	TOG	0.979507259	11.0386935	0.809597619	2.10179354
SD	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2006	TOG	0.979505406	11.1586803	0.809307169	2.12788035
SD	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2007	TOG	0.979507799	11.2542753	0.809301331	2.14617532
SD	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2008	TOG	0.979514382	11.3487312	0.809253462	2.16473118
SD	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2009	TOG	0.97952006	11.4478112	0.809228932	2.18391116
SD	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2010	TOG	0.979527791	11.5433989	0.809172416	2.20279893
SD	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2012	TOG	0.979536963	11.7506573	0.809146227	2.24265728
SD	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2015	TOG	0.979547811	12.0679794	0.809091537	2.30387939
SD	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2018	TOG	0.979553278	12.4293275	0.809231231	2.37112751
SD	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2020	TOG	0.979555775	12.6741083	0.809303481	2.41690834
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	PM	0.96	0.008408408	0.999	8.4084E-06
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	NOX		0.117817818	0.999	0.000117818

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 49 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	PM	0.96	0.008224674	0.997	0.000024674
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	NOX		0.116132265	0.998	0.000232265
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	PM	0.96	0.008148893	0.994	0.000048893
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	NOX		0.114572864	0.995	0.0000572864
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	PM	0.96	0.007987867	0.989	0.000087867
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	NOX		0.112903226	0.992	0.000903226
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	PM	0.96	0.007934893	0.983	0.000134893
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	NOX		0.111347518	0.987	0.001447518
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	PM	0.96	0.007794872	0.975	0.000194872
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	NOX		0.10988787	0.981	0.00208787
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	PM	0.96	0.007692308	0.949	0.000392308
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	NOX		0.108324662	0.961	0.004224662
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	PM	0.96	0.007575758	0.924	0.000575758
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	NOX		0.106900212	0.942	0.006200212
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	PM	0.96	0.007461024	0.898	0.000761024
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	NOX		0.105422993	0.922	0.008222993
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	PM	0.96	0.00733945	0.872	0.00093945
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	NOX		0.103986711	0.903	0.010086711
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	PM	0.96	0.007328605	0.846	0.001128605
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	NOX		0.102375566	0.884	0.011875566
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	PM	0.96	0.007044025	0.795	0.001444025
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	NOX		0.099640719	0.835	0.016440719
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	PM	0.96	0.006824513	0.718	0.001924513
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	NOX		0.09561753	0.753	0.02361753
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	PM	0.96	0.006552262	0.641	0.002352262
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	NOX		0.091666667	0.66	0.031166667
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	PM	0.96	0.006271186	0.59	0.002571186
SD	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	NOX		0.089189189	0.592	0.036389189
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2005	CO		0.308691099	0.955	0.013891099
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2005	PM	0.7	0.018854167	0.96	0.000754167
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	CO		0.308690869	0.909	0.028090869
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	PM	0.7	0.018804348	0.92	0.001504348
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	NOX		0.59389234	0.966	0.02019234
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	TOG	0.5479	0.109639831	0.944	0.006139831
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO		0.308796296	0.864	0.041996296
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	PM	0.7	0.018800461	0.867	0.002500461
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	NOX		0.593959008	0.927	0.043359008
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	TOG	0.5479	0.109630459	0.893	0.011730459
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		0.30869033	0.817	0.05649033
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	PM	0.7	0.018819188	0.813	0.003519188
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	NOX		0.593918919	0.888	0.066518919
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	TOG	0.5479	0.109608541	0.843	0.017208541
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		0.308796895	0.773	0.070096895
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	PM	0.7	0.018815789	0.76	0.004515789
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX		0.593867925	0.848	0.090267925
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	TOG	0.5479	0.10959596	0.792	0.02279596
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		0.308791209	0.728	0.083991209
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	PM	0.7	0.018888889	0.72	0.005288889
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		0.59394314	0.809	0.11344314

**CCOS EMISSION REDUCTIONS BY RULE, v2.11**  
 December 8, 2003

Page 50 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	TOG	0.5479	0.109568733	0.742	0.028268733
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.308695652	0.667	0.102795652
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	PM	0.7	0.01875969	0.645	0.00665969
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		0.593975904	0.747	0.150275904
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	TOG	0.5479	0.10960961	0.666	0.03660961
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.308680556	0.576	0.130880556
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	PM	0.7	0.018761726	0.533	0.008761726
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		0.59389313	0.655	0.20489313
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	TOG	0.5479	0.109618875	0.551	0.049218875
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.308653846	0.52	0.148153846
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	PM	0.7	0.018881119	0.429	0.010781119
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		0.593877551	0.588	0.244677551
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.5479	0.109574468	0.47	0.058074468
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.308695652	0.483	0.159595652
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	PM	0.7	0.018888889	0.36	0.012088889
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		0.593933824	0.544	0.270833824
SD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	TOG	0.5479	0.109615385	0.416	0.064015385
SD	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2012	TOG	0.969410629	0.19125036	0.880521219	0.02285036
SD	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2015	TOG	0.969414524	0.197039609	0.880533618	0.023539609
SD	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2018	TOG	0.969410734	0.20419716	0.880521552	0.02439716
SD	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2020	TOG	0.969419229	0.209074208	0.880548593	0.024974208
SD	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.781880109	0.734	0.207980109
SD	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.797829457	0.645	0.283229457
SD	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.807387387	0.555	0.359287387
SD	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.819098712	0.466	0.437398712
SD	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.832266667	0.375	0.520166667
SD	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.844266667	0.375	0.527666667
SD	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.8704	0.375	0.544
SD	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.9096	0.375	0.5685
SD	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.950933333	0.375	0.594333333
SD	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.978133333	0.375	0.611333333
SD	COMBINED	ARB_C320	WOOD FURNITURE - SURFACE COATI	2000	TOG	0.433778594	1.10907238	0.981	0.021072375
SD	COMBINED	ARB_C320	WOOD FURNITURE - SURFACE COATI	2001	TOG	0.432884698	1.16778797	0.981	0.022187971
SD	COMBINED	ARB_C320	WOOD FURNITURE - SURFACE COATI	2002	TOG	0.432458784	1.19585987	0.942	0.069359873
SD	COMBINED	ARB_C320	WOOD FURNITURE - SURFACE COATI	2003	TOG	0.432814775	1.19804772	0.922	0.093447722
SD	COMBINED	ARB_C320	WOOD FURNITURE - SURFACE COATI	2004	TOG	0.433289338	1.18915401	0.922	0.092754013
SD	COMBINED	ARB_C320	WOOD FURNITURE - SURFACE COATI	2005	TOG	0.435050292	1.14494892	0.881	0.136248922
SD	COMBINED	ARB_C320	WOOD FURNITURE - SURFACE COATI	2006	TOG	0.437571137	1.08342792	0.881	0.128927923
SD	COMBINED	ARB_C320	WOOD FURNITURE - SURFACE COATI	2007	TOG	0.436183641	1.15107832	0.881	0.13697832
SD	COMBINED	ARB_C320	WOOD FURNITURE - SURFACE COATI	2008	TOG	0.434852492	1.2185017	0.881	0.145001703
SD	COMBINED	ARB_C320	WOOD FURNITURE - SURFACE COATI	2009	TOG	0.433764716	1.2861521	0.881	0.1530521
SD	COMBINED	ARB_C320	WOOD FURNITURE - SURFACE COATI	2010	TOG	0.432948721	1.34472191	0.881	0.160021907
SD	COMBINED	ARB_C320	WOOD FURNITURE - SURFACE COATI	2012	TOG	0.431611143	1.46276958	0.881	0.17406958
SD	COMBINED	ARB_C320	WOOD FURNITURE - SURFACE COATI	2015	TOG	0.429974007	1.64018161	0.881	0.195181612
SD	COMBINED	ARB_C320	WOOD FURNITURE - SURFACE COATI	2018	TOG	0.428889395	1.78853575	0.881	0.212835755
SD	COMBINED	ARB_C320	WOOD FURNITURE - SURFACE COATI	2020	TOG	0.428251702	1.88717367	0.881	0.224573666
SD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.974177215	0.395	0.589377215
SD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.995443038	0.395	0.602243038
SD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	1.01822785	0.395	0.616027848

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 51 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	1.04050633	0.395	0.629506329
SD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	1.0643038	0.395	0.643903797
SD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	1.08582278	0.395	0.656922785
SD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	1.09974684	0.395	0.665346835
SD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	1.11620253	0.395	0.675302532
SD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	1.13291139	0.395	0.685411392
SD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	1.15012658	0.395	0.695826582
SD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	1.18607595	0.395	0.717575949
SD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	1.24025316	0.395	0.750353165
SD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	1.29721519	0.395	0.78481519
SD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	1.33468354	0.395	0.807483544
SD	COMBINED	ARB_C514	PHARMACEUTICAL MANUFACTURING	2000	TOG	1	0.869217687	0.588	0.358117687
SD	COMBINED	ARB_C514	PHARMACEUTICAL MANUFACTURING	2001	TOG	1	0.913095238	0.588	0.376195238
SD	COMBINED	ARB_C514	PHARMACEUTICAL MANUFACTURING	2002	TOG	1	0.95255102	0.588	0.39245102
SD	COMBINED	ARB_C514	PHARMACEUTICAL MANUFACTURING	2003	TOG	1	0.996598639	0.588	0.410598639
SD	COMBINED	ARB_C514	PHARMACEUTICAL MANUFACTURING	2004	TOG	1	1.04132653	0.588	0.429026531
SD	COMBINED	ARB_C514	PHARMACEUTICAL MANUFACTURING	2005	TOG	1	1.08809524	0.588	0.448295238
SD	COMBINED	ARB_C514	PHARMACEUTICAL MANUFACTURING	2006	TOG	1	1.13282313	0.588	0.466723129
SD	COMBINED	ARB_C514	PHARMACEUTICAL MANUFACTURING	2007	TOG	1	1.14812925	0.588	0.473029252
SD	COMBINED	ARB_C514	PHARMACEUTICAL MANUFACTURING	2008	TOG	1	1.16241497	0.588	0.478914966
SD	COMBINED	ARB_C514	PHARMACEUTICAL MANUFACTURING	2009	TOG	1	1.17857143	0.588	0.485571429
SD	COMBINED	ARB_C514	PHARMACEUTICAL MANUFACTURING	2010	TOG	1	1.19472789	0.588	0.492227891
SD	COMBINED	ARB_C514	PHARMACEUTICAL MANUFACTURING	2012	TOG	1	1.22704082	0.588	0.505540816
SD	COMBINED	ARB_C514	PHARMACEUTICAL MANUFACTURING	2015	TOG	1	1.2755102	0.588	0.525510204
SD	COMBINED	ARB_C514	PHARMACEUTICAL MANUFACTURING	2018	TOG	1	1.32295918	0.588	0.545059184
SD	COMBINED	ARB_C514	PHARMACEUTICAL MANUFACTURING	2020	TOG	1	1.35527211	0.588	0.558372109
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		12.8026721	0.973	0.345672148
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	1.42953777	0.887	0.161537768
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		13.0584789	0.973	0.352578931
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	1.45806088	0.887	0.164760879
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		13.3173391	0.917	1.10533915
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	1.48702866	0.663	0.501128658
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		13.5717978	0.89	1.49289775
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	1.51612319	0.552	0.679223188
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		13.8331461	0.89	1.52164607
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	1.54547101	0.552	0.692371014
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		14.0976019	0.834	2.34020192
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	1.57530488	0.328	1.05860488
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		14.3110312	0.834	2.37563118
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	1.59939024	0.328	1.07479024
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		14.5269784	0.834	2.41147842
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	1.62317073	0.328	1.09077073
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		14.7456835	0.834	2.44778345
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	1.64786585	0.328	1.10736585
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		14.9664269	0.834	2.48442686
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	1.67256098	0.328	1.12396098
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		15.1899281	0.834	2.52152806
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	1.69756098	0.328	1.14076098
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		15.6330935	0.834	2.59509353

**CCOS EMISSION REDUCTIONS BY RULE, v2.11**  
 December 8, 2003

Page 52 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	1.74695122	0.328	1.17395122
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		16.3239808	0.834	2.70978082
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	1.82408537	0.328	1.22578537
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		17.0203837	0.834	2.82538369
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	1.90213415	0.328	1.27823415
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		17.4992806	0.834	2.90488058
SD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	1.9554878	0.328	1.3140878
YS	ARB	TRAINS	TRAINS EPA MOU	2000	NOX		1.65505051	0.99	0.016550505
YS	ARB	TRAINS	TRAINS EPA MOU	2001	NOX		1.68094737	0.95	0.084047368
YS	ARB	TRAINS	TRAINS EPA MOU	2002	NOX		1.70573034	0.89	0.187630337
YS	ARB	TRAINS	TRAINS EPA MOU	2003	NOX		1.73292683	0.82	0.311926829
YS	ARB	TRAINS	TRAINS EPA MOU	2004	NOX		1.76013158	0.76	0.422431579
YS	ARB	TRAINS	TRAINS EPA MOU	2005	PM	1	0.0371875	0.96	0.0014875
YS	ARB	TRAINS	TRAINS EPA MOU	2005	NOX		1.78735294	0.68	0.571952941
YS	ARB	TRAINS	TRAINS EPA MOU	2005	TOG	0.8785	0.068229167	0.96	0.002729167
YS	ARB	TRAINS	TRAINS EPA MOU	2006	PM	1	0.037717391	0.92	0.003017391
YS	ARB	TRAINS	TRAINS EPA MOU	2006	NOX		1.81587302	0.63	0.671873016
YS	ARB	TRAINS	TRAINS EPA MOU	2006	TOG	0.8785	0.069354839	0.93	0.004854839
YS	ARB	TRAINS	TRAINS EPA MOU	2007	PM	1	0.038426966	0.89	0.004226966
YS	ARB	TRAINS	TRAINS EPA MOU	2007	NOX		1.84440678	0.59	0.75620678
YS	ARB	TRAINS	TRAINS EPA MOU	2007	TOG	0.8785	0.070333333	0.9	0.007033333
YS	ARB	TRAINS	TRAINS EPA MOU	2008	PM	1	0.038953488	0.86	0.005453488
YS	ARB	TRAINS	TRAINS EPA MOU	2008	NOX		1.87298246	0.57	0.805382456
YS	ARB	TRAINS	TRAINS EPA MOU	2008	TOG	0.8785	0.071494253	0.87	0.009294253
YS	ARB	TRAINS	TRAINS EPA MOU	2009	PM	1	0.039642857	0.84	0.006342857
YS	ARB	TRAINS	TRAINS EPA MOU	2009	NOX		1.90290909	0.55	0.856309091
YS	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	0.072619048	0.84	0.011619048
YS	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	0.040243902	0.82	0.007243902
YS	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		1.93388889	0.54	0.889588889
YS	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	0.073780488	0.82	0.013280488
YS	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	0.041392405	0.79	0.008692405
YS	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		1.99226415	0.53	0.936364151
YS	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	0.076	0.8	0.0152
YS	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	0.043466667	0.75	0.010866667
YS	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		2.0845098	0.51	1.0214098
YS	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	0.079473684	0.76	0.019073684
YS	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	0.045352113	0.71	0.013152113
YS	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		2.18166667	0.48	1.13446667
YS	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	0.083287671	0.73	0.022487671
YS	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.046666667	0.69	0.014466667
YS	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		2.24914894	0.47	1.19204894
YS	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	0.085857143	0.7	0.025757143
YS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.843759584	2.38088498	0.954225012	0.10898498
YS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.843904591	2.45355439	0.95086541	0.120554388
YS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.842797862	2.54477512	0.930180425	0.177675117
YS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.84706644	2.59933426	0.860451092	0.362734256
YS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.846433792	2.65484099	0.85673681	0.38034099
YS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.851211166	2.68177467	0.813528452	0.500074674
YS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.851241562	2.72985174	0.813524035	0.509051737

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 53 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
YS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.851200106	2.77824551	0.813103086	0.519245514
YS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.851133326	2.82791757	0.812364556	0.530617568
YS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.851014699	2.87416335	0.812375538	0.539263352
YS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.850995425	2.92299867	0.812042792	0.54939867
YS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.850982887	3.00554145	0.812099929	0.564741454
YS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.851004961	3.13292038	0.811989994	0.589020379
YS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.851059477	3.27534569	0.812128018	0.615345686
YS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.851026108	3.37032899	0.812116564	0.633228991
YS	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.730617368	0.250500457	0.876	0.031062057
YS	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.730617368	0.250500457	0.876	0.031062057
YS	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.730617368	0.250500457	0.876	0.031062057
YS	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.730617368	0.250500457	0.876	0.031062057
YS	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.730617368	0.250500457	0.876	0.031062057
YS	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.730617368	0.250500457	0.876	0.031062057
YS	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.730617368	0.250500457	0.876	0.031062057
YS	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.730617368	0.250500457	0.876	0.031062057
YS	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.730617368	0.250500457	0.876	0.031062057
YS	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.730617368	0.250500457	0.876	0.031062057
YS	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.730617368	0.250500457	0.876	0.031062057
YS	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2003	TOG	0.978577425	1.03968968	0.859775771	0.145789684
YS	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2004	TOG	0.979618534	1.04714165	0.799700784	0.209741651
YS	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2005	TOG	0.979623595	1.05504485	0.799397295	0.211644851
YS	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2006	TOG	0.979623834	1.06297087	0.798893013	0.213770868
YS	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2007	TOG	0.979627145	1.06813213	0.798777583	0.214932129
YS	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2008	TOG	0.979634503	1.07423917	0.798611728	0.21633917
YS	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2009	TOG	0.979656497	1.07957524	0.798462181	0.21757524
YS	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2010	TOG	0.979658339	1.08612193	0.798252918	0.219121931
YS	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2012	TOG	0.979676666	1.10201617	0.797991918	0.222616173
YS	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2015	TOG	0.979694251	1.12526499	0.797678777	0.227664988
YS	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2018	TOG	0.979718044	1.15838466	0.798007802	0.233984665
YS	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2020	TOG	0.979728726	1.18035825	0.798062794	0.238358246
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	PM	0.96	0.495895896	0.999	0.000495896
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	NOX		6.86064718	0.999	0.006860647
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	PM	0.96	0.495787362	0.997	0.001487362
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	NOX		6.85973451	0.998	0.013719469
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	PM	0.96	0.495674044	0.994	0.002974044
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	NOX		6.86479714	0.995	0.034323986
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	PM	0.96	0.495854398	0.989	0.005454398
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	NOX		6.85913272	0.992	0.054873062
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	PM	0.96	0.495829095	0.983	0.008429095
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	NOX		6.86406869	0.987	0.089232893
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	PM	0.96	0.495794872	0.975	0.012394872
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	NOX		6.86742021	0.981	0.130480984
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	PM	0.96	0.495890411	0.949	0.025290411
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	NOX		6.86702849	0.961	0.267814111
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	PM	0.96	0.495779221	0.924	0.037679221
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	NOX		6.8615491	0.942	0.397969848
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	PM	0.96	0.495879733	0.898	0.050579733
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	NOX		6.8708628	0.922	0.535927298

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 54 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	PM	0.96	0.496330275	0.872	0.063530275
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	NOX		6.86507937	0.903	0.665912698
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	PM	0.96	0.496335697	0.846	0.076435697
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	NOX		6.86460177	0.884	0.796293805
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	PM	0.96	0.496352201	0.795	0.101752201
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	NOX		6.87296875	0.835	1.13403984
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	PM	0.96	0.49637883	0.718	0.13997883
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	NOX		6.87417678	0.753	1.69792166
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	PM	0.96	0.497035881	0.641	0.178435881
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	NOX		6.87727273	0.66	2.33827273
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	PM	0.96	0.496949153	0.59	0.203749153
YS	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	NOX		6.87312775	0.592	2.80423612
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	CO		0.035314261	0.959952135	0.001414261
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO		0.035302954	0.920602843	0.002802954
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	NOX		0.109147303	0.999566617	0.000047303
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		0.035201634	0.880640948	0.004201634
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	NOX		0.109088932	0.963434126	0.003988932
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	TOG	0.664753846	0.016228964	0.881140652	0.001928964
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		0.035216352	0.814962322	0.006516352
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX		0.109136731	0.920863208	0.008636731
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	TOG	0.664753846	0.016228964	0.881140652	0.001928964
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		0.035196947	0.775635465	0.007896947
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	PM	0.350907143	0.002015992	0.694447199	0.000615992
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		0.10906895	0.877426615	0.01336895
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	TOG	0.66500597	0.016242853	0.824978224	0.002842853
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.035214956	0.707085942	0.010314956
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	PM	0.350907143	0.002118556	0.660827436	0.000718556
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		0.109067073	0.811427294	0.020567073
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	TOG	0.664919328	0.01629991	0.730065368	0.00439991
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.035207853	0.604978671	0.013907853
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	PM	0.348469231	0.002149325	0.60484096	0.000849325
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		0.109247706	0.712143097	0.031447706
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	TOG	0.664705263	0.016171921	0.587437957	0.006671921
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.03536249	0.557087465	0.01566249
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	PM	0.35302	0.002084797	0.479663106	0.001084797
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		0.108992993	0.63857316	0.039392993
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.664835897	0.016162551	0.482597072	0.008362551
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.035386567	0.525623181	0.016786567
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	PM	0.355211111	0.002301502	0.391049061	0.001401502
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		0.109152283	0.590001403	0.044752283
YS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	TOG	0.664940299	0.016243007	0.412485201	0.009543007
YS	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2012	TOG	0.964091964	0.027847549	0.804379602	0.005447549
YS	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2015	TOG	0.964074783	0.028584502	0.804631835	0.005584502
YS	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2018	TOG	0.964187448	0.029682876	0.805178037	0.005782876
YS	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2020	TOG	0.964302449	0.03041042	0.805644904	0.00591042
YS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.060354223	0.734	0.016054223
YS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.061550388	0.645	0.021850388
YS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.062342342	0.555	0.027742342
YS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.062660944	0.466	0.033460944

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 55 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
YS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.064	0.375	0.04
YS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.0648	0.375	0.0405
YS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.066666667	0.375	0.041666667
YS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.069866667	0.375	0.043666667
YS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.073333333	0.375	0.045833333
YS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.075466667	0.375	0.047166667
YS	YS_AQMD	2.21	Organic Liquid Storage and Transfer	2004	TOG	0.969333333	0.109480432	0.83	0.018611673
YS	YS_AQMD	2.21	Organic Liquid Storage and Transfer	2005	TOG	0.969386207	0.112770154	0.66	0.038341852
YS	YS_AQMD	2.21	Organic Liquid Storage and Transfer	2006	TOG	0.969395161	0.115728988	0.66	0.039347856
YS	YS_AQMD	2.21	Organic Liquid Storage and Transfer	2007	TOG	0.969263364	0.119313894	0.66	0.040566724
YS	YS_AQMD	2.21	Organic Liquid Storage and Transfer	2008	TOG	0.969352792	0.122575758	0.66	0.041675758
YS	YS_AQMD	2.21	Organic Liquid Storage and Transfer	2009	TOG	0.969371147	0.126160663	0.66	0.042894626
YS	YS_AQMD	2.21	Organic Liquid Storage and Transfer	2010	TOG	0.969388489	0.129725557	0.66	0.04410669
YS	YS_AQMD	2.21	Organic Liquid Storage and Transfer	2012	TOG	0.969289773	0.136895369	0.66	0.046544425
YS	YS_AQMD	2.21	Organic Liquid Storage and Transfer	2015	TOG	0.969398099	0.147307033	0.66	0.050084391
YS	YS_AQMD	2.21	Organic Liquid Storage and Transfer	2018	TOG	0.969371287	0.157112636	0.66	0.053418296
YS	YS_AQMD	2.21	Organic Liquid Storage and Transfer	2020	TOG	0.969311491	0.16380789	0.66	0.055694683
YS	YS_AQMD	2.22	Gasoline Dispensing Facilities	2001	TOG	1	0.0824	0.725169903	0.022646
YS	YS_AQMD	2.22	Gasoline Dispensing Facilities	2002	TOG	1	0.0839	0.725292014	0.023048
YS	YS_AQMD	2.22	Gasoline Dispensing Facilities	2003	TOG	1	0.085902559	0.720743488	0.023988849
YS	YS_AQMD	2.22	Gasoline Dispensing Facilities	2004	TOG	1	0.087011735	0.721139291	0.024264154
YS	YS_AQMD	2.22	Gasoline Dispensing Facilities	2005	TOG	1	0.089834722	0.7207591	0.025085529
YS	YS_AQMD	2.22	Gasoline Dispensing Facilities	2006	TOG	1	0.09175035	0.720617802	0.025633414
YS	YS_AQMD	2.22	Gasoline Dispensing Facilities	2007	TOG	1	0.093262752	0.720735134	0.02604501
YS	YS_AQMD	2.22	Gasoline Dispensing Facilities	2008	TOG	1	0.093262752	0.720735134	0.02604501
YS	YS_AQMD	2.22	Gasoline Dispensing Facilities	2009	TOG	1	0.094876062	0.721136048	0.026457514
YS	YS_AQMD	2.22	Gasoline Dispensing Facilities	2010	TOG	1	0.096690782	0.720712866	0.027004491
YS	YS_AQMD	2.22	Gasoline Dispensing Facilities	2012	TOG	1	0.099715585	0.720929461	0.027827682
YS	YS_AQMD	2.22	Gasoline Dispensing Facilities	2015	TOG	1	0.104555109	0.720741998	0.029197851
YS	YS_AQMD	2.22	Gasoline Dispensing Facilities	2018	TOG	1	0.108991407	0.720787812	0.030431729
YS	YS_AQMD	2.22	Gasoline Dispensing Facilities	2020	TOG	1	0.112520344	0.721009398	0.031392119
YS	YS_AQMD	2.27	Boilers, Steam Generators and Process Heaters	2000	NOX		1.81908714	0.964	0.065487137
YS	YS_AQMD	2.27	Boilers, Steam Generators and Process Heaters	2001	NOX		1.85217842	0.964	0.066678423
YS	YS_AQMD	2.27	Boilers, Steam Generators and Process Heaters	2002	NOX		1.86255187	0.964	0.067051867
YS	YS_AQMD	2.27	Boilers, Steam Generators and Process Heaters	2003	NOX		1.86556017	0.964	0.067160166
YS	YS_AQMD	2.27	Boilers, Steam Generators and Process Heaters	2004	NOX		1.86452282	0.964	0.067122822
YS	YS_AQMD	2.27	Boilers, Steam Generators and Process Heaters	2005	NOX		1.87022822	0.964	0.067328216
YS	YS_AQMD	2.27	Boilers, Steam Generators and Process Heaters	2006	NOX		1.87240664	0.964	0.067406639
YS	YS_AQMD	2.27	Boilers, Steam Generators and Process Heaters	2007	NOX		1.87665975	0.964	0.067559751
YS	YS_AQMD	2.27	Boilers, Steam Generators and Process Heaters	2008	NOX		1.88039419	0.964	0.067694191
YS	YS_AQMD	2.27	Boilers, Steam Generators and Process Heaters	2009	NOX		1.88641079	0.964	0.067910788
YS	YS_AQMD	2.27	Boilers, Steam Generators and Process Heaters	2010	NOX		1.89616183	0.964	0.068261826
YS	YS_AQMD	2.27	Boilers, Steam Generators and Process Heaters	2012	NOX		1.92002075	0.964	0.069120747
YS	YS_AQMD	2.27	Boilers, Steam Generators and Process Heaters	2015	NOX		1.96804979	0.964	0.070849793
YS	YS_AQMD	2.27	Boilers, Steam Generators and Process Heaters	2018	NOX		1.98526971	0.964	0.07146971
YS	YS_AQMD	2.27	Boilers, Steam Generators and Process Heaters	2020	NOX		1.99740664	0.964	0.071906639
YS	YS_AQMD	2.32	Stationary IC Engines	2002	NOX		0.508940397	0.302	0.355240397
YS	YS_AQMD	2.32	Stationary IC Engines	2003	NOX		0.518874172	0.302	0.362174172
YS	YS_AQMD	2.32	Stationary IC Engines	2004	NOX		0.585430464	0.302	0.408630464

**CCOS EMISSION REDUCTIONS BY RULE, v2.11**  
 December 8, 2003

Page 56 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
YS	YS_AQMD	2.32	Stationary IC Engines	2005	NOX		0.512582781	0.302	0.357782781
YS	YS_AQMD	2.32	Stationary IC Engines	2006	NOX		0.516556291	0.302	0.360556291
YS	YS_AQMD	2.32	Stationary IC Engines	2007	NOX		0.522847682	0.302	0.364947682
YS	YS_AQMD	2.32	Stationary IC Engines	2008	NOX		0.518543046	0.302	0.361943046
YS	YS_AQMD	2.32	Stationary IC Engines	2009	NOX		0.518543046	0.302	0.361943046
YS	YS_AQMD	2.32	Stationary IC Engines	2010	NOX		0.524834437	0.302	0.366334437
YS	YS_AQMD	2.32	Stationary IC Engines	2012	NOX		0.532781457	0.302	0.371881457
YS	YS_AQMD	2.32	Stationary IC Engines	2015	NOX		0.540728477	0.302	0.377428477
YS	YS_AQMD	2.32	Stationary IC Engines	2018	NOX		0.548344371	0.302	0.382744371
YS	YS_AQMD	2.32	Stationary IC Engines	2020	NOX		0.549006623	0.302	0.383206623
YS	YS_AQMD	2.37	Natural Gas-Fired Water Heaters	2000	NOX		0.200900901	0.999	0.000200901
YS	YS_AQMD	2.37	Natural Gas-Fired Water Heaters	2001	NOX		0.202705411	0.998	0.000405411
YS	YS_AQMD	2.37	Natural Gas-Fired Water Heaters	2002	NOX		0.204513541	0.997	0.000613541
YS	YS_AQMD	2.37	Natural Gas-Fired Water Heaters	2003	NOX		0.206325301	0.996	8.25E-04
YS	YS_AQMD	2.37	Natural Gas-Fired Water Heaters	2004	NOX		0.208140704	0.995	0.001040704
YS	YS_AQMD	2.37	Natural Gas-Fired Water Heaters	2005	NOX		0.209949749	0.995	0.001049749
YS	YS_AQMD	2.37	Natural Gas-Fired Water Heaters	2006	NOX		0.211758794	0.995	0.001058794
YS	YS_AQMD	2.37	Natural Gas-Fired Water Heaters	2007	NOX		0.213567839	0.995	0.001067839
YS	YS_AQMD	2.37	Natural Gas-Fired Water Heaters	2008	NOX		0.215276382	0.995	0.001076382
YS	YS_AQMD	2.37	Natural Gas-Fired Water Heaters	2009	NOX		0.216984925	0.995	0.001084925
YS	YS_AQMD	2.37	Natural Gas-Fired Water Heaters	2010	NOX		0.21879397	0.995	0.00109397
YS	YS_AQMD	2.37	Natural Gas-Fired Water Heaters	2012	NOX		0.222311558	0.995	0.001111558
YS	YS_AQMD	2.37	Natural Gas-Fired Water Heaters	2015	NOX		0.227638191	0.995	0.001138191
YS	YS_AQMD	2.37	Natural Gas-Fired Water Heaters	2018	NOX		0.233366834	0.995	0.001166834
YS	YS_AQMD	2.37	Natural Gas-Fired Water Heaters	2020	NOX		0.237286432	0.995	0.001186432
YS	YS_AQMD	2.38	Municipal Landfills	2000	TOG	0.0129	5.53728294	0.979	0.116282942
YS	YS_AQMD	2.38	Municipal Landfills	2001	TOG	0.0129	5.66649642	0.979	0.118996425
YS	YS_AQMD	2.38	Municipal Landfills	2002	TOG	0.0129	5.76597077	0.958	0.242170772
YS	YS_AQMD	2.38	Municipal Landfills	2003	TOG	0.0129	5.86409186	0.958	0.246291858
YS	YS_AQMD	2.38	Municipal Landfills	2004	TOG	0.0129	5.96616862	0.937	0.375868623
YS	YS_AQMD	2.38	Municipal Landfills	2005	TOG	0.0129	6.06947705	0.937	0.382377054
YS	YS_AQMD	2.38	Municipal Landfills	2006	TOG	0.0129	6.17214514	0.937	0.388845144
YS	YS_AQMD	2.38	Municipal Landfills	2007	TOG	0.0129	6.27139808	0.937	0.395098079
YS	YS_AQMD	2.38	Municipal Landfills	2008	TOG	0.0129	6.37257204	0.937	0.401472038
YS	YS_AQMD	2.38	Municipal Landfills	2009	TOG	0.0129	6.47620064	0.937	0.40800064
YS	YS_AQMD	2.38	Municipal Landfills	2010	TOG	0.0129	6.58153682	0.937	0.41463682
YS	YS_AQMD	2.38	Municipal Landfills	2012	TOG	0.0129	6.78527215	0.937	0.427472145
YS	YS_AQMD	2.38	Municipal Landfills	2015	TOG	0.0129	7.0909285	0.937	0.446728495
YS	YS_AQMD	2.38	Municipal Landfills	2018	TOG	0.0129	7.38175027	0.937	0.465050267
YS	YS_AQMD	2.38	Municipal Landfills	2020	TOG	0.0129	7.57545358	0.937	0.477253575
YS	YS_AQMD	2.39	Wood Products Coating Operations	2005	TOG	0.9879	0.0078125	0.704	0.0023125
YS	YS_AQMD	2.39	Wood Products Coating Operations	2006	TOG	0.9879	0.0078125	0.704	0.0023125
YS	YS_AQMD	2.39	Wood Products Coating Operations	2007	TOG	0.9879	0.0078125	0.704	0.0023125
YS	YS_AQMD	2.39	Wood Products Coating Operations	2008	TOG	0.9879	0.008238636	0.704	0.002438636
YS	YS_AQMD	2.39	Wood Products Coating Operations	2009	TOG	0.9879	0.008238636	0.704	0.002438636
YS	YS_AQMD	2.39	Wood Products Coating Operations	2010	TOG	0.9879	0.008238636	0.704	0.002438636
YS	YS_AQMD	2.39	Wood Products Coating Operations	2012	TOG	0.9879	0.008522727	0.704	0.002522727
YS	YS_AQMD	2.39	Wood Products Coating Operations	2015	TOG	0.9879	0.008806818	0.704	0.002606818
YS	YS_AQMD	2.39	Wood Products Coating Operations	2018	TOG	0.9879	0.008948864	0.704	0.002648864

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 57 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
YS	YS_AQMD	2.39	Wood Products Coating Operations	2020	TOG	0.9879	0.009375	0.704	0.002775
YS	YS_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2000	NOX		6.86064718	0.958	0.288147182
YS	YS_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2001	NOX		6.85973451	0.906	0.644815044
YS	YS_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2002	NOX		6.86479714	0.842	1.08463795
YS	YS_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2003	NOX		6.85913272	0.767	1.59817792
YS	YS_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2004	NOX		6.86406869	0.767	1.59932801
YS	YS_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2005	NOX		6.86742021	0.767	1.60010891
YS	YS_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2006	NOX		6.86702849	0.767	1.60001764
YS	YS_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2007	NOX		6.8615491	0.767	1.59874094
YS	YS_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2008	NOX		6.8708628	0.767	1.60091103
YS	YS_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2009	NOX		6.86507937	0.767	1.59956349
YS	YS_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2010	NOX		6.86460177	0.767	1.59945221
YS	YS_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2012	NOX		6.87296875	0.767	1.60140172
YS	YS_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2015	NOX		6.87417678	0.767	1.60168319
YS	YS_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2018	NOX		6.87727273	0.767	1.60240455
YS	YS_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2020	NOX		6.87312775	0.767	1.60143877
YS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2000	TOG	0.981638655	0.153951384	0.772971292	0.034951384
YS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2001	TOG	0.981596263	0.159115542	0.773651638	0.036015542
YS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2002	TOG	0.981486915	0.163166895	0.772828338	0.037066895
YS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2003	TOG	0.98129572	0.16621067	0.773115226	0.03771067
YS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2004	TOG	0.983880188	0.170003165	0.772852958	0.038615716
YS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2005	TOG	0.986851997	0.174819268	0.773586967	0.039581361
YS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2006	TOG	0.98676132	0.178520212	0.773270567	0.040475786
YS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2007	TOG	0.98654717	0.181563996	0.773846003	0.041061424
YS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2008	TOG	0.986303371	0.183323448	0.773000357	0.041614357
YS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2009	TOG	0.986122149	0.186725015	0.773154249	0.042357776
YS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2010	TOG	0.98602026	0.189889286	0.773470477	0.043015529
YS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2012	TOG	0.985705307	0.1970502	0.773356491	0.044660149
YS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2015	TOG	0.985424685	0.207674763	0.773137922	0.047113528
YS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2018	TOG	0.98517067	0.218365095	0.772707829	0.049632677
YS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2020	TOG	0.985	0.225646496	0.772434259	0.051349412
YS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2000	TOG	1	0.065368421	0.95	0.003268421
YS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.0676	0.375	0.04225
YS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.0688	0.375	0.043
YS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.070564516	0.375	0.044102823
YS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.071370968	0.375	0.044606855
YS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.073790323	0.375	0.046118952
YS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.075403226	0.375	0.047127016
YS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.076612903	0.375	0.047883065
YS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.076612903	0.375	0.047883065
YS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.077822581	0.375	0.048639113
YS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.079435484	0.375	0.049647177
YS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.081854839	0.375	0.051159274
YS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.085887097	0.375	0.053679435
YS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.089516129	0.375	0.055947581
YS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.09233871	0.375	0.057711694
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		0.810688592	0.973	0.021888592
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.091206313	0.887	0.010306313
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		0.82713258	0.973	0.02233258

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 58 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.093010147	0.887	0.010510147
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		0.843620502	0.917	0.070020502
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.094871795	0.663	0.031971795
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		0.859550562	0.89	0.094550562
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.09673913	0.552	0.04333913
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		0.876067416	0.89	0.096367416
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.098550725	0.552	0.044150725
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		0.893165468	0.834	0.148265468
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.100609756	0.328	0.067609756
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		0.90647482	0.834	0.15047482
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.102134146	0.328	0.068634146
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		0.920023981	0.834	0.152723981
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.103658537	0.328	0.069658537
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		0.933932854	0.834	0.155032854
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.104878049	0.328	0.070478049
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		0.948081535	0.834	0.157381535
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.106707317	0.328	0.071707317
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		0.962230216	0.834	0.159730216
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.108536585	0.328	0.072936585
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		0.99028777	0.834	0.16438777
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.111280488	0.328	0.074780488
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		1.03417266	0.834	0.171672662
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.116463415	0.328	0.078263415
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		1.07805755	0.834	0.178957554
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.121646341	0.328	0.081746341
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		1.10815348	0.834	0.183953477
YS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.124695122	0.328	0.083795122
AMA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.840899461	0.29177018	0.953490175	0.01357018
AMA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.841102516	0.296998089	0.950174465	0.014798089
AMA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.84031591	0.306147331	0.927984573	0.022047331
AMA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.844549605	0.309716287	0.857236158	0.044216287
AMA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.844390729	0.313204703	0.854074021	0.045704703
AMA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.85044724	0.316360846	0.812995678	0.059160846
AMA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.850331204	0.319576404	0.813264048	0.059676404
AMA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.850234799	0.321533891	0.813276173	0.060038991
AMA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.849810512	0.324196993	0.812777435	0.060696993
AMA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.849828571	0.328202415	0.810475451	0.062202415
AMA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.850099739	0.330200874	0.810718629	0.062500874
AMA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.849708124	0.335322377	0.807581059	0.064522377
AMA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.849755584	0.34010376	0.808282743	0.06520376
AMA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.849705169	0.344643918	0.808370569	0.066043918
AMA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.849695113	0.348865888	0.809480118	0.066465888
AMA	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.712356809	0.0293379	0.876	0.0036379
AMA	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.712356809	0.0293379	0.876	0.0036379
AMA	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.712356809	0.0293379	0.876	0.0036379
AMA	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.712356809	0.0293379	0.876	0.0036379
AMA	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.712356809	0.0293379	0.876	0.0036379
AMA	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.712356809	0.0293379	0.876	0.0036379
AMA	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.712356809	0.0293379	0.876	0.0036379

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 59 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
AMA	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.712356809	0.0293379	0.876	0.0036379
AMA	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.712356809	0.0293379	0.876	0.0036379
AMA	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.712356809	0.0293379	0.876	0.0036379
AMA	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.712356809	0.0293379	0.876	0.0036379
AMA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO		0.002641056	0.833	0.000441056
AMA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		0.002641056	0.833	0.000441056
AMA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	NOX		0.005207226	0.941	0.000307226
AMA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		0.002641056	0.833	0.000441056
AMA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX		0.00521542	0.882	0.00061542
AMA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		0.002698651	0.667	0.000898651
AMA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		0.00521542	0.882	0.00061542
AMA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.002698651	0.667	0.000898651
AMA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		0.005172414	0.812	0.000972414
AMA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	TOG	0.1867	0.0005	0.8	0.0001
AMA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.002698651	0.667	0.000898651
AMA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		0.00509915	0.706	0.00149915
AMA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	TOG	0.1867	0.0006	0.5	0.0003
AMA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.002645503	0.567	0.001145503
AMA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		0.00519685	0.635	0.00189685
AMA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.1867	0.0006	0.5	0.0003
AMA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.0026	0.5	0.0013
AMA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		0.005102041	0.588	0.002102041
AMA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	TOG	0.1867	0.0006	0.5	0.0003
AMA	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2012	TOG	0.991333333	0.001989189	0.904891304	0.000189189
AMA	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2015	TOG	0.991333333	0.001989189	0.904891304	0.000189189
AMA	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2018	TOG	0.991333333	0.001989189	0.904891304	0.000189189
AMA	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2020	TOG	0.991242105	0.002101802	0.903986284	0.000201802
AMA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.008855586	0.734	0.002355586
AMA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.008837209	0.645	0.003137209
AMA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.008828829	0.555	0.003928829
AMA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.008798283	0.466	0.004698283
AMA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.009333333	0.375	0.005833333
AMA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.009333333	0.375	0.005833333
AMA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.009333333	0.375	0.005833333
AMA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.009333333	0.375	0.005833333
AMA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.010133333	0.375	0.006333333
AMA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.010133333	0.375	0.006333333
AMA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.010632911	0.395	0.006432911
AMA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.011392405	0.395	0.006892405
AMA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.011392405	0.395	0.006892405
AMA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.011392405	0.395	0.006892405
AMA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.011898734	0.395	0.007198734
AMA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.011898734	0.395	0.007198734
AMA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.011898734	0.395	0.007198734
AMA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.011898734	0.395	0.007198734
AMA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.012658228	0.395	0.007658228
AMA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.012658228	0.395	0.007658228
AMA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.012911392	0.395	0.007811392
AMA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.012911392	0.395	0.007811392

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 60 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
AMA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.013670886	0.395	0.008270886
AMA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.013670886	0.395	0.008270886
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		0.231654676	0.973	0.006254676
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.025817362	0.887	0.002917362
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		0.236279548	0.973	0.006379548
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.02638106	0.887	0.00298106
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		0.240785169	0.917	0.019985169
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.026998492	0.663	0.009098492
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		0.245505618	0.89	0.027005618
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.027355072	0.552	0.012255072
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		0.25011236	0.89	0.02751236
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.02807971	0.552	0.01257971
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		0.255035971	0.834	0.042335971
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.028353659	0.328	0.019053659
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		0.258633094	0.834	0.042933094
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.028963415	0.328	0.019463415
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		0.262709832	0.834	0.043609832
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.029573171	0.328	0.019873171
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		0.266666667	0.834	0.044266667
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.029878049	0.328	0.020078049
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		0.270743405	0.834	0.044943405
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.030487805	0.328	0.020487805
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		0.27470024	0.834	0.04560024
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.030487805	0.328	0.020487805
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		0.282613909	0.834	0.046913909
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.031402439	0.328	0.021102439
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		0.295203837	0.834	0.049003837
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.032926829	0.328	0.022126829
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		0.307673861	0.834	0.051073861
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.03445122	0.328	0.02315122
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		0.316666667	0.834	0.052566667
AMA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.035365854	0.328	0.023765854
BUT	ARB	TRAINS	TRAINS EPA MOU	2000	NOX		4.63470909	0.990072928	0.046009091
BUT	ARB	TRAINS	TRAINS EPA MOU	2001	NOX		4.70635263	0.950353777	0.233652632
BUT	ARB	TRAINS	TRAINS EPA MOU	2002	NOX		4.77432814	0.890617461	0.522228136
BUT	ARB	TRAINS	TRAINS EPA MOU	2003	NOX		4.84958511	0.820998066	0.868085114
BUT	ARB	TRAINS	TRAINS EPA MOU	2004	NOX		4.924711053	0.761222407	1.17591053
BUT	ARB	TRAINS	TRAINS EPA MOU	2005	PM	1	0.104144571	0.96020368	0.004144571
BUT	ARB	TRAINS	TRAINS EPA MOU	2005	NOX		4.99985927	0.681559184	1.59215927
BUT	ARB	TRAINS	TRAINS EPA MOU	2005	TOG	0.8785	0.173484848	0.96031441	0.006884848
BUT	ARB	TRAINS	TRAINS EPA MOU	2006	PM	1	0.105815766	0.920467746	0.008415766
BUT	ARB	TRAINS	TRAINS EPA MOU	2006	NOX		5.07886447	0.631696321	1.87056447
BUT	ARB	TRAINS	TRAINS EPA MOU	2006	TOG	0.8785	0.176226784	0.930619037	0.012226784
BUT	ARB	TRAINS	TRAINS EPA MOU	2007	PM	1	0.107455859	0.890598252	0.011755859
BUT	ARB	TRAINS	TRAINS EPA MOU	2007	NOX		5.15768235	0.591758041	2.10558235
BUT	ARB	TRAINS	TRAINS EPA MOU	2007	TOG	0.8785	0.178845805	0.900775951	0.017745805
BUT	ARB	TRAINS	TRAINS EPA MOU	2008	PM	1	0.109093743	0.860727644	0.015193743
BUT	ARB	TRAINS	TRAINS EPA MOU	2008	NOX		5.23643678	0.571705556	2.24273678
BUT	ARB	TRAINS	TRAINS EPA MOU	2008	TOG	0.8785	0.181619751	0.871050636	0.023419751

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 61 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
BUT	ARB	TRAINS	TRAINS EPA MOU	2009	PM	1	0.110840697	0.84084639	0.017640697
BUT	ARB	TRAINS	TRAINS EPA MOU	2009	NOX		5.31893048	0.551652256	2.38473048
BUT	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	0.184490673	0.841234941	0.029290673
BUT	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	0.11257622	0.820777251	0.02017622
BUT	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		5.40490629	0.541545004	2.47790629
BUT	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	0.187398374	0.821245119	0.033498374
BUT	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	0.115954754	0.790825707	0.024254754
BUT	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		5.56722474	0.531341941	2.60912474
BUT	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	0.192934211	0.801309418	0.038334211
BUT	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	0.121318841	0.750913869	0.030218841
BUT	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		5.82327693	0.511086805	2.84707693
BUT	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	0.201852009	0.761448948	0.048152009
BUT	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	0.127012185	0.710955407	0.036712185
BUT	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		6.09363225	0.48099391	3.16263225
BUT	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	0.211118721	0.731342057	0.056718721
BUT	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.130834583	0.690948816	0.040434583
BUT	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		6.2811464	0.47091722	3.3232464
BUT	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	0.217685393	0.701471044	0.064985393
BUT	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.846808285	1.79682354	0.955185616	0.08052354
BUT	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.846577769	1.82113999	0.95171157	0.087939991
BUT	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.843287272	1.88236984	0.930369773	0.13106984
BUT	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.847543367	1.94416787	0.860728145	0.270767866
BUT	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.846898256	2.00735254	0.856949623	0.287152537
BUT	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.85170171	2.0484995	0.813668738	0.381699496
BUT	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.851615271	2.09199536	0.813529529	0.390095361
BUT	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.851568283	2.1337428	0.813593841	0.397742798
BUT	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.851515601	2.17659937	0.8133789	0.406199368
BUT	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.851400898	2.21988559	0.812654494	0.415885588
BUT	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.851387365	2.2638405	0.812468898	0.424540505
BUT	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.851398405	2.33892209	0.812425522	0.43872209
BUT	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.851352359	2.44957028	0.81250986	0.459270275
BUT	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.851424962	2.59421299	0.812732033	0.485812994
BUT	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.851383413	2.69155468	0.812615852	0.504354682
BUT	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.713221488	0.177968037	0.876	0.022068037
BUT	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.713221488	0.177968037	0.876	0.022068037
BUT	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.713221488	0.177968037	0.876	0.022068037
BUT	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.713221488	0.177968037	0.876	0.022068037
BUT	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.713221488	0.177968037	0.876	0.022068037
BUT	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.713221488	0.177968037	0.876	0.022068037
BUT	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.713221488	0.177968037	0.876	0.022068037
BUT	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.713221488	0.177968037	0.876	0.022068037
BUT	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.713221488	0.177968037	0.876	0.022068037
BUT	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.713221488	0.177968037	0.876	0.022068037
BUT	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.713221488	0.177968037	0.876	0.022068037
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	PM	0.96	0.018618619	0.999	0.000018619
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	NOX		0.260760761	0.999	0.000260761
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	PM	0.96	0.018655968	0.997	0.000055968
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	NOX		0.260521042	0.998	0.000521042
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	PM	0.96	0.01861167	0.994	0.00011167

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 62 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	NOX		0.260603015	0.995	0.001303015
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	PM	0.96	0.018604651	0.989	0.000204651
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	NOX		0.260383065	0.992	0.002083065
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	PM	0.96	0.01861648	0.983	0.00031648
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	NOX		0.260486322	0.987	0.003386322
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	PM	0.96	0.018564103	0.975	0.000464103
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	NOX		0.260346585	0.981	0.004946585
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	PM	0.96	0.018545838	0.949	0.000945838
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	NOX		0.260353798	0.961	0.010153798
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	PM	0.96	0.018614719	0.924	0.001414719
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	NOX		0.26029724	0.942	0.01509724
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	PM	0.96	0.018596882	0.898	0.001896882
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	NOX		0.260412148	0.922	0.020312148
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	PM	0.96	0.018577982	0.872	0.002377982
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	NOX		0.260243632	0.903	0.025243632
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	PM	0.96	0.01855792	0.846	0.00285792
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	NOX		0.260067873	0.884	0.030167873
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	PM	0.96	0.018616352	0.795	0.003816352
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	NOX		0.26	0.835	0.0429
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	PM	0.96	0.018523677	0.718	0.005223677
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	NOX		0.259760956	0.753	0.064160956
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	PM	0.96	0.018564743	0.641	0.006664743
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	NOX		0.259848485	0.66	0.088348485
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	PM	0.96	0.018474576	0.59	0.007574576
BUT	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	NOX		0.259459459	0.592	0.105859459
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	CO		0.037513284	0.941	0.002213284
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO		0.037528345	0.882	0.004428345
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	NOX		0.108659794	0.97	0.003259794
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	TOG	0.7029	0.013304253	0.917	0.001104253
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		0.037514654	0.853	0.005514654
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	PM	0.7165	0.005375	0.8	0.001075
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	NOX		0.108719053	0.929	0.007719053
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	TOG	0.7029	0.013304253	0.917	0.001104253
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		0.037531486	0.794	0.007731486
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	PM	0.7165	0.005375	0.8	0.001075
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX		0.108661417	0.889	0.012061417
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	TOG	0.7029	0.01332533	0.833	0.00222533
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		0.03751634	0.765	0.00881634
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	PM	0.7165	0.005375	0.8	0.001075
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		0.108726415	0.848	0.016526415
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	TOG	0.7029	0.013333333	0.75	0.003333333
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.037608069	0.694	0.011508069
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	PM	0.7165	0.005416667	0.72	0.001516667
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		0.108673469	0.784	0.023473469
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	TOG	0.7029	0.013323572	0.683	0.004223572
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.037585034	0.588	0.015485034
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	PM	0.7165	0.005333333	0.6	0.002133333
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		0.108733624	0.687	0.034033624
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	TOG	0.7029	0.013379074	0.583	0.005579074

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 63 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.037570093	0.535	0.017470093
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	PM	0.7165	0.005416667	0.48	0.002816667
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		0.108631922	0.614	0.041931922
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.7029	0.013250518	0.483	0.006850518
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.0376	0.5	0.0188
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	PM	0.7165	0.0055	0.4	0.0033
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		0.108657244	0.566	0.047157244
BUT	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	TOG	0.7029	0.013429257	0.417	0.007829257
BUT	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2012	TOG	0.960435294	0.023868217	0.783468659	0.005168217
BUT	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2015	TOG	0.9604	0.024255814	0.783317354	0.005255814
BUT	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2018	TOG	0.96034359	0.024901809	0.783075646	0.005401809
BUT	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2020	TOG	0.960311111	0.025289406	0.782936548	0.005489406
BUT	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.074114441	0.734	0.019714441
BUT	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.07503876	0.645	0.02663876
BUT	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.075855856	0.555	0.033755856
BUT	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.075965665	0.466	0.040565665
BUT	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.0768	0.375	0.048
BUT	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.0768	0.375	0.048
BUT	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.077866667	0.375	0.048666667
BUT	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.079733333	0.375	0.049833333
BUT	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.0824	0.375	0.0515
BUT	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.084266667	0.375	0.052666667
BUT	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2000	TOG	1	0.038059701	0.938	0.002359701
BUT	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2001	TOG	1	0.0391258	0.938	0.0024258
BUT	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2002	TOG	1	0.039658849	0.938	0.002458849
BUT	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2003	TOG	1	0.040618337	0.938	0.002518337
BUT	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2004	TOG	1	0.041257996	0.938	0.002557996
BUT	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2005	TOG	1	0.041791045	0.938	0.002591045
BUT	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2006	TOG	1	0.042430704	0.938	0.002630704
BUT	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2007	TOG	1	0.042857143	0.938	0.002657143
BUT	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2008	TOG	1	0.042857143	0.938	0.002657143
BUT	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2009	TOG	1	0.043496802	0.938	0.002696802
BUT	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2010	TOG	1	0.043496802	0.938	0.002696802
BUT	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2012	TOG	1	0.044136461	0.938	0.002736461
BUT	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2015	TOG	1	0.045202559	0.938	0.002802559
BUT	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2018	TOG	1	0.046908316	0.938	0.002908316
BUT	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2020	TOG	1	0.047974414	0.938	0.002974414
BUT	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2000	TOG	1	0.077488688	0.884	0.008988688
BUT	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2001	TOG	1	0.079524887	0.884	0.009224887
BUT	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2002	TOG	1	0.080656109	0.884	0.009356109
BUT	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2003	TOG	1	0.082692308	0.884	0.009592308
BUT	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2004	TOG	1	0.083823529	0.884	0.009723529
BUT	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2005	TOG	1	0.084841629	0.884	0.009841629
BUT	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2006	TOG	1	0.085859729	0.884	0.009959729
BUT	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2007	TOG	1	0.086877828	0.884	0.010077828
BUT	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2008	TOG	1	0.086877828	0.884	0.010077828
BUT	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2009	TOG	1	0.08800905	0.884	0.01020905
BUT	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2010	TOG	1	0.08800905	0.884	0.01020905
BUT	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2012	TOG	1	0.089140271	0.884	0.010340271

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 64 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
BUT	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2015	TOG	1	0.091176471	0.884	0.010576471
BUT	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2018	TOG	1	0.094343891	0.884	0.010943891
BUT	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2020	TOG	1	0.096493213	0.884	0.011193213
BUT	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2000	TOG	1	0.047651007	0.745	0.012151007
BUT	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.048967721	0.394137188	0.029667721
BUT	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.049782222	0.393714852	0.030182222
BUT	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.050936858	0.392642986	0.030936858
BUT	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.051411222	0.392910324	0.031211222
BUT	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.052225723	0.392526882	0.031725723
BUT	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.052565859	0.391889347	0.031965859
BUT	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.053514587	0.39241637	0.032514587
BUT	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.053783043	0.39417628	0.032583043
BUT	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.054391636	0.395281364	0.032891636
BUT	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.054525864	0.396142278	0.032925864
BUT	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.055743049	0.398255934	0.033543049
BUT	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.057434598	0.400455489	0.034434598
BUT	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.059466283	0.401908422	0.035566283
BUT	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.061023604	0.403122699	0.036423604
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		1.23206578	0.973	0.033265776
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.137655017	0.887	0.015555017
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		1.25662898	0.973	0.033928983
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.140360767	0.887	0.015860767
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		1.28157034	0.917	0.106370338
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.143137255	0.663	0.048237255
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		1.30629213	0.89	0.143692135
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.146014493	0.552	0.065414493
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		1.33146067	0.89	0.146460674
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.148731884	0.552	0.066631884
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		1.35671463	0.834	0.225214628
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.151829268	0.328	0.102029268
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		1.37733813	0.834	0.228638129
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.153963415	0.328	0.103463415
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		1.39808153	0.834	0.232081535
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.156402439	0.328	0.105102439
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		1.41906475	0.834	0.235564748
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.158841463	0.328	0.106741463
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		1.44028777	0.834	0.23908777
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.16097561	0.328	0.10817561
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		1.46199041	0.834	0.242690408
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.163414634	0.328	0.109814634
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		1.50467626	0.834	0.249776259
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.168292683	0.328	0.113092683
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		1.57086331	0.834	0.260763309
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.175609756	0.328	0.118009756
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		1.6381295	0.834	0.271929496
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.182926829	0.328	0.122926829
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		1.68405276	0.834	0.279552758
BUT	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.188109756	0.328	0.126409756
CAL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.84014683	0.342469521	0.953369511	0.015969521

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 65 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
CAL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.840314591	0.349955836	0.949834137	0.017555836
CAL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.839467142	0.369709497	0.929378344	0.026109497
CAL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.843831606	0.382842544	0.857010291	0.054742544
CAL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.843101892	0.39558749	0.855183767	0.05728749
CAL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.847473642	0.404669319	0.810044113	0.076869319
CAL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.848052496	0.415188272	0.810716541	0.078588272
CAL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.847719423	0.42339108	0.811070464	0.07999108
CAL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.84758242	0.431677845	0.811716432	0.081277845
CAL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.847700083	0.4432902	0.810529987	0.0839902
CAL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.847521701	0.453866726	0.808166757	0.087066726
CAL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.847767317	0.468721256	0.809436302	0.089321256
CAL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.847603719	0.49163625	0.809541607	0.09363625
CAL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.847400676	0.512172143	0.809298213	0.097672143
CAL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.847322543	0.5261982	0.810151003	0.0998982
CAL	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.713767808	0.033333333	0.876	0.004133333
CAL	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.713767808	0.033333333	0.876	0.004133333
CAL	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.713767808	0.033333333	0.876	0.004133333
CAL	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.713767808	0.033333333	0.876	0.004133333
CAL	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.713767808	0.033333333	0.876	0.004133333
CAL	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.713767808	0.033333333	0.876	0.004133333
CAL	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.713767808	0.033333333	0.876	0.004133333
CAL	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.713767808	0.033333333	0.876	0.004133333
CAL	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.713767808	0.033333333	0.876	0.004133333
CAL	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.713767808	0.033333333	0.876	0.004133333
CAL	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.713767808	0.033333333	0.876	0.004133333
CAL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO	0.007934656	0.857	0.001134656	
CAL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	NOX	0.022315789	0.95	0.001115789	
CAL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO	0.007934656	0.857	0.001134656	
CAL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	NOX	0.022315789	0.95	0.001115789	
CAL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO	0.007934656	0.857	0.001134656	
CAL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX	0.022333333	0.9	0.002233333	
CAL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO	0.007983193	0.714	0.002283193	
CAL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX	0.022352941	0.85	0.003352941	
CAL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO	0.007914764	0.657	0.002714764	
CAL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX	0.022278481	0.79	0.004678481	
CAL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	TOG	0.7143	0.002125	0.8	0.000425
CAL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO	0.007880911	0.571	0.003380911	
CAL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX	0.022285714	0.7	0.006685714	
CAL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	TOG	0.7143	0.0022	0.5	0.0011
CAL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO	0.008024691	0.486	0.004124691	
CAL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	PM	0.75	0.001246883	0.401	0.000746883
CAL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX	0.022295082	0.61	0.008695082	
CAL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.7143	0.0022	0.5	0.0011
CAL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO	0.007925408	0.429	0.004525408	
CAL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX	0.022363636	0.55	0.010063636	
CAL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	TOG	0.7143	0.0022	0.5	0.0011
CAL	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2012	TOG	0.86172807	0.006063539	0.94004501	0.000363539
CAL	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2015	TOG	0.861557627	0.006276759	0.939975542	0.000376759
CAL	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2018	TOG	0.863633871	0.006589979	0.940822467	0.000389979

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 66 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
CAL	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2020	TOG	0.86352381	0.006696588	0.940777534	0.000396588
CAL	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.009536785	0.734	0.002536785
CAL	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.009612403	0.645	0.003412403
CAL	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.01009009	0.555	0.00449009
CAL	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.010085837	0.466	0.005385837
CAL	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.010133333	0.375	0.006333333
CAL	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.010133333	0.375	0.006333333
CAL	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.0104	0.375	0.0065
CAL	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.010933333	0.375	0.006833333
CAL	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.011466667	0.375	0.007166667
CAL	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.011466667	0.375	0.007166667
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		0.334224049	0.973	0.009024049
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.037542277	0.887	0.004242277
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		0.340698869	0.973	0.009198869
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.038331454	0.887	0.004331454
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		0.347437296	0.917	0.028837296
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.039215686	0.663	0.013215686
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		0.354269663	0.89	0.038969663
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.039855072	0.552	0.017855072
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		0.361011236	0.89	0.039711236
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.04076087	0.552	0.01826087
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		0.367745803	0.834	0.061045803
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.041463415	0.328	0.027863415
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		0.373621103	0.834	0.062021103
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.042073171	0.328	0.028273171
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		0.379016787	0.834	0.062916787
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.042682927	0.328	0.028682927
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		0.384652278	0.834	0.063852278
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.043292683	0.328	0.029092683
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		0.390527578	0.834	0.064827578
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.044207317	0.328	0.029707317
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		0.396282974	0.834	0.065782974
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.044817073	0.328	0.030117073
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		0.407913669	0.834	0.0677113669
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.045731707	0.328	0.030731707
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		0.425899281	0.834	0.070699281
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.047865854	0.328	0.032165854
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		0.444244604	0.834	0.073744604
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.05	0.328	0.0336
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		0.456834532	0.834	0.075834532
CAL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.05152439	0.328	0.03462439
COL	ARB	TRAINS	TRAINS EPA MOU	2000	NOX		0.233636364	0.99	0.002336364
COL	ARB	TRAINS	TRAINS EPA MOU	2001	NOX		0.237368421	0.95	0.011868421
COL	ARB	TRAINS	TRAINS EPA MOU	2002	NOX		0.240786517	0.89	0.026486517
COL	ARB	TRAINS	TRAINS EPA MOU	2003	NOX		0.244634146	0.82	0.044034146
COL	ARB	TRAINS	TRAINS EPA MOU	2004	NOX		0.248552632	0.76	0.059652632
COL	ARB	TRAINS	TRAINS EPA MOU	2005	PM	1	0.005520833	0.96	0.000220833
COL	ARB	TRAINS	TRAINS EPA MOU	2005	NOX		0.252352941	0.68	0.080752941
COL	ARB	TRAINS	TRAINS EPA MOU	2005	TOG	0.8785	0.008854167	0.96	0.000354167

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 67 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
COL	ARB	TRAINS	TRAINS EPA MOU	2006	PM	1	0.005543478	0.92	0.000443478
COL	ARB	TRAINS	TRAINS EPA MOU	2006	NOX		0.256349206	0.63	0.094849206
COL	ARB	TRAINS	TRAINS EPA MOU	2006	TOG	0.8785	0.008924731	0.93	0.000624731
COL	ARB	TRAINS	TRAINS EPA MOU	2007	PM	1	0.005730337	0.89	0.000630337
COL	ARB	TRAINS	TRAINS EPA MOU	2007	NOX		0.260338983	0.59	0.106738983
COL	ARB	TRAINS	TRAINS EPA MOU	2007	TOG	0.8785	0.009111111	0.9	0.000911111
COL	ARB	TRAINS	TRAINS EPA MOU	2008	PM	1	0.005813953	0.86	0.000813953
COL	ARB	TRAINS	TRAINS EPA MOU	2008	NOX		0.264385965	0.57	0.113685965
COL	ARB	TRAINS	TRAINS EPA MOU	2008	TOG	0.8785	0.009195402	0.87	0.001195402
COL	ARB	TRAINS	TRAINS EPA MOU	2009	PM	1	0.005833333	0.84	0.000933333
COL	ARB	TRAINS	TRAINS EPA MOU	2009	NOX		0.268727273	0.55	0.120927273
COL	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	0.009404762	0.84	0.001504762
COL	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	0.00597561	0.82	0.00107561
COL	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		0.272962963	0.54	0.125562963
COL	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	0.009512195	0.82	0.001712195
COL	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	0.006202532	0.79	0.001302532
COL	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		0.281320755	0.53	0.132220755
COL	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	0.009875	0.8	0.001975
COL	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	0.0064	0.75	0.0016
COL	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		0.294313725	0.51	0.144213725
COL	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	0.010263158	0.76	0.002463158
COL	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	0.006760563	0.71	0.001960563
COL	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		0.307916667	0.48	0.160116667
COL	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	0.010821918	0.73	0.002921918
COL	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.006956522	0.69	0.002156522
COL	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		0.317446809	0.47	0.168246809
COL	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	0.011142857	0.7	0.003342857
COL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.838427421	0.167053667	0.951789941	0.008053667
COL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.838280223	0.169900061	0.949381647	0.008600061
COL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.837578525	0.182724253	0.927627269	0.013224253
COL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.841653172	0.194067976	0.852793972	0.028567976
COL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.84123922	0.204838293	0.851403307	0.030438293
COL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.847067199	0.215794629	0.812346445	0.040494629
COL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.846885283	0.224136493	0.812451365	0.042036493
COL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.846768285	0.233742597	0.810720862	0.044242597
COL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.846337653	0.242918318	0.806855577	0.046918318
COL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.846672857	0.251535407	0.807043438	0.048535407
COL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.846084278	0.259769364	0.808024459	0.049869364
COL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.846555516	0.278285123	0.807804592	0.053485123
COL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.846699142	0.303005663	0.807575667	0.058305663
COL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.846683721	0.33011215	0.807604325	0.06351215
COL	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.8467506	0.351235767	0.806865436	0.067835767
COL	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.710109091	0.016324201	0.876	0.002024201
COL	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.710109091	0.016324201	0.876	0.002024201
COL	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.710109091	0.016324201	0.876	0.002024201
COL	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.710109091	0.016324201	0.876	0.002024201
COL	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.710109091	0.016324201	0.876	0.002024201
COL	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.710109091	0.016324201	0.876	0.002024201
COL	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.710109091	0.016324201	0.876	0.002024201

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 68 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
COL	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.710109091	0.016324201	0.876	0.002024201
COL	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.710109091	0.016324201	0.876	0.002024201
COL	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.710109091	0.016324201	0.876	0.002024201
COL	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.710109091	0.016324201	0.876	0.002024201
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	PM	0.96	0.011811812	0.999	0.000011812
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	NOX		0.15965966	0.999	0.00015966
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	PM	0.96	0.011835507	0.997	0.000035507
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	NOX		0.159819639	0.998	0.000319639
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	PM	0.96	0.011770624	0.994	0.000070624
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	NOX		0.160201005	0.995	0.000801005
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	PM	0.96	0.011830131	0.989	0.000130131
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	NOX		0.160383065	0.992	0.001283065
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	PM	0.96	0.01190234	0.983	0.00020234
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	NOX		0.160790274	0.987	0.002090274
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	PM	0.96	0.011897436	0.975	0.000297436
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	NOX		0.161060143	0.981	0.003060143
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	PM	0.96	0.011907271	0.949	0.000607271
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	NOX		0.161394381	0.961	0.006294381
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	PM	0.96	0.011904762	0.924	0.000904762
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	NOX		0.161677282	0.942	0.009377282
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	PM	0.96	0.011915367	0.898	0.001215367
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	NOX		0.162039046	0.922	0.012639046
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	PM	0.96	0.011926606	0.872	0.001526606
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	NOX		0.16234773	0.903	0.01574773
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	PM	0.96	0.012056738	0.846	0.001856738
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	NOX		0.162556561	0.884	0.018856561
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	PM	0.96	0.012075472	0.795	0.002475472
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	NOX		0.163233533	0.835	0.026933533
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	PM	0.96	0.012116992	0.718	0.003416992
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	NOX		0.164143426	0.753	0.040543426
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	PM	0.96	0.012168487	0.641	0.004368487
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	NOX		0.165151515	0.66	0.056151515
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	PM	0.96	0.01220339	0.59	0.00500339
COL	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	NOX		0.165709459	0.592	0.067609459
COL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX		0.010123735	0.889	0.001123735
COL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		0.003298351	0.667	0.001098351
COL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		0.010123735	0.889	0.001123735
COL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.003298351	0.667	0.001098351
COL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		0.010125	0.8	0.002025
COL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.003298351	0.667	0.001098351
COL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		0.010044978	0.667	0.003344978
COL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.003298351	0.667	0.001098351
COL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		0.01	0.6	0.004
COL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.75	0.001246883	0.401	0.000746883
COL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.003298351	0.667	0.001098351
COL	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		0.010071942	0.556	0.004471942
COL	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2012	TOG	0.996176471	0.009507407	0.536423841	0.004407407
COL	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2015	TOG	0.996198113	0.009854321	0.537835129	0.004554321
COL	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2018	TOG	0.996148148	0.010101235	0.53458812	0.004701235

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 69 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
COL	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2020	TOG	0.996148148	0.010101235	0.53458812	0.004701235
COL	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.006675749	0.734	0.001775749
COL	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.006666667	0.645	0.002366667
COL	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.006666667	0.555	0.002966667
COL	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.006652361	0.466	0.003552361
COL	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.006666667	0.375	0.004166667
COL	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.006666667	0.375	0.004166667
COL	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.006666667	0.375	0.004166667
COL	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.006666667	0.375	0.004166667
COL	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.007733333	0.375	0.004833333
COL	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.007733333	0.375	0.004833333
COL	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2000	TOG	1	0.055854922	0.965	0.001954922
COL	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2001	TOG	1	0.055854922	0.965	0.001954922
COL	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2002	TOG	1	0.055854922	0.965	0.001954922
COL	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2003	TOG	1	0.06507772	0.965	0.00227772
COL	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2004	TOG	1	0.06507772	0.965	0.00227772
COL	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2005	TOG	1	0.06507772	0.965	0.00227772
COL	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2006	TOG	1	0.06507772	0.965	0.00227772
COL	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2007	TOG	1	0.06507772	0.965	0.00227772
COL	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2008	TOG	1	0.06507772	0.965	0.00227772
COL	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2009	TOG	1	0.06507772	0.965	0.00227772
COL	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2010	TOG	1	0.06507772	0.965	0.00227772
COL	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2012	TOG	1	0.06507772	0.965	0.00227772
COL	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2015	TOG	1	0.06507772	0.965	0.00227772
COL	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2018	TOG	1	0.074507772	0.965	0.002607772
COL	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2020	TOG	1	0.074507772	0.965	0.002607772
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		0.156628983	0.973	0.004228983
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.017700113	0.887	0.002000113
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		0.159815005	0.973	0.004315005
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.018038331	0.887	0.002038331
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		0.163031625	0.917	0.013531625
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.018401207	0.663	0.006201207
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		0.165955056	0.89	0.018255056
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.01865942	0.552	0.00835942
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		0.169101124	0.89	0.018601124
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.019021739	0.552	0.008521739
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		0.172541966	0.834	0.028641966
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.019512195	0.328	0.013112195
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		0.175179856	0.834	0.029079856
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.019512195	0.328	0.013112195
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		0.177697842	0.834	0.029497842
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.020121951	0.328	0.013521951
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		0.180335731	0.834	0.029935731
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.020426829	0.328	0.013726829
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		0.182973621	0.834	0.030373621
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.020731707	0.328	0.013931707
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		0.185851319	0.834	0.030851319
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.021036585	0.328	0.014136585
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		0.191127098	0.834	0.031727098

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 70 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.021646341	0.328	0.014546341
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		0.199760192	0.834	0.033160192
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.022560976	0.328	0.015160976
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		0.208273381	0.834	0.034573381
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.02347561	0.328	0.01577561
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		0.213908873	0.834	0.035508873
COL	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.024085366	0.328	0.016185366
GBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.836403505	0.248651823	0.95233567	0.011851823
GBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.836419281	0.251876845	0.949273442	0.012776845
GBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.835178592	0.259059897	0.92681269	0.018959897
GBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.83955237	0.262721384	0.85109174	0.039121384
GBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.838730968	0.264283782	0.847952147	0.040183782
GBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.845564815	0.268131121	0.805576014	0.052131121
GBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.845359147	0.270702766	0.805680721	0.052602766
GBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.845047522	0.272927859	0.805707415	0.053027859
GBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.845494725	0.275274331	0.805741673	0.053474331
GBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.845435418	0.277707054	0.806245274	0.053807054
GBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.845913186	0.280463504	0.805808943	0.054463504
GBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.845443237	0.284413005	0.805870322	0.055213005
GBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.844969526	0.290625292	0.806192738	0.056325292
GBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.844844959	0.299384291	0.808325645	0.057384291
GBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.844698944	0.305321648	0.806362738	0.059121648
GBU	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.711422467	0.025913242	0.876	0.003213242
GBU	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.711422467	0.025913242	0.876	0.003213242
GBU	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.711422467	0.025913242	0.876	0.003213242
GBU	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.711422467	0.025913242	0.876	0.003213242
GBU	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.711422467	0.025913242	0.876	0.003213242
GBU	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.711422467	0.025913242	0.876	0.003213242
GBU	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.711422467	0.025913242	0.876	0.003213242
GBU	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.711422467	0.025913242	0.876	0.003213242
GBU	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.711422467	0.025913242	0.876	0.003213242
GBU	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.711422467	0.025913242	0.876	0.003213242
GBU	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.711422467	0.025913242	0.876	0.003213242
GBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		0.007922689	0.858294442	0.001122689
GBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.002125	0.8	0.000425
GBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		0.007946328	0.742481337	0.002046328
GBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	TOG	0.75	0.002366667	0.802816901	0.000466667
GBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.0022	0.5	0.0011
GBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		0.006746627	0.667	0.002246627
GBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.0022	0.5	0.0011
GBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		0.006746627	0.667	0.002246627
GBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.75	0.001246883	0.401	0.000746883
GBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.0022	0.5	0.0011
GBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		0.006746627	0.667	0.002246627
GBU	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2012	TOG	0.972741667	0.00127735	0.93944463	0.00007735
GBU	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2015	TOG	0.972741667	0.00127735	0.93944463	0.00007735
GBU	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2018	TOG	0.972741667	0.00127735	0.93944463	0.00007735
GBU	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2020	TOG	0.972741667	0.00127735	0.93944463	0.00007735
GBU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.014305177	0.734	0.003805177

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 71 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
GBU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.014418605	0.645	0.005118605
GBU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.014414414	0.555	0.006414414
GBU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.014592275	0.466	0.007792275
GBU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.0144	0.375	0.009
GBU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.0144	0.375	0.009
GBU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.0144	0.375	0.009
GBU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.0168	0.375	0.0105
GBU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.017333333	0.375	0.010833333
GBU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.017333333	0.375	0.010833333
GBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.017468354	0.395	0.010568354
GBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.017468354	0.395	0.010568354
GBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.018987342	0.395	0.011487342
GBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.018987342	0.395	0.011487342
GBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.018987342	0.395	0.011487342
GBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.018987342	0.395	0.011487342
GBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.018987342	0.395	0.011487342
GBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.018987342	0.395	0.011487342
GBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.018987342	0.395	0.011487342
GBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.018987342	0.395	0.011487342
GBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.018987342	0.395	0.011487342
GBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.022278481	0.395	0.013478481
GBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.022278481	0.395	0.01378481
GBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.022278481	0.395	0.01378481
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		0.351798561	0.973	0.009498561
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.040811725	0.887	0.004611725
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		0.358890031	0.973	0.009690031
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.041713641	0.887	0.004713641
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		0.366194111	0.917	0.030394111
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.042383107	0.663	0.014283107
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		0.373146067	0.89	0.041046067
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.04365942	0.552	0.01955942
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		0.380337079	0.89	0.041837079
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.044384058	0.552	0.019884058
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		0.38764988	0.834	0.06434988
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.044817073	0.328	0.030117073
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		0.393645084	0.834	0.065345084
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.045731707	0.328	0.030731707
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		0.399280576	0.834	0.066280576
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.046036585	0.328	0.030936585
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		0.405395683	0.834	0.067295683
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.047256098	0.328	0.031756098
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		0.411390887	0.834	0.068290887
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.047560976	0.328	0.031960976
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		0.417625899	0.834	0.069325899
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.048780488	0.328	0.032780488
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		0.429256595	0.834	0.071256595
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.052439024	0.328	0.0336
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		0.448681055	0.834	0.074481055
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.052439024	0.328	0.035239024

**CCOS EMISSION REDUCTIONS BY RULE, v2.11**  
 December 8, 2003

Page 72 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		0.467625899	0.834	0.077625899
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.054268293	0.328	0.036468293
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		0.480695444	0.834	0.079795444
GBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.055792683	0.328	0.037492683
GLE	ARB	TRAINS	TRAINS EPA MOU	2000	NOX		0.289292929	0.99	0.002892929
GLE	ARB	TRAINS	TRAINS EPA MOU	2001	NOX		0.293789474	0.95	0.014689474
GLE	ARB	TRAINS	TRAINS EPA MOU	2002	NOX		0.298089888	0.89	0.032789888
GLE	ARB	TRAINS	TRAINS EPA MOU	2003	NOX		0.302926829	0.82	0.054526829
GLE	ARB	TRAINS	TRAINS EPA MOU	2004	NOX		0.307631579	0.76	0.073831579
GLE	ARB	TRAINS	TRAINS EPA MOU	2005	PM	1	0.006354167	0.96	0.000254167
GLE	ARB	TRAINS	TRAINS EPA MOU	2005	NOX		0.312352941	0.68	0.099952941
GLE	ARB	TRAINS	TRAINS EPA MOU	2005	TOG	0.8785	0.010104167	0.96	0.000404167
GLE	ARB	TRAINS	TRAINS EPA MOU	2006	PM	1	0.006413043	0.92	0.000513043
GLE	ARB	TRAINS	TRAINS EPA MOU	2006	NOX		0.317460317	0.63	0.117460317
GLE	ARB	TRAINS	TRAINS EPA MOU	2006	TOG	0.8785	0.010215054	0.93	0.000715054
GLE	ARB	TRAINS	TRAINS EPA MOU	2007	PM	1	0.006516854	0.89	0.000716854
GLE	ARB	TRAINS	TRAINS EPA MOU	2007	NOX		0.322372881	0.59	0.132172881
GLE	ARB	TRAINS	TRAINS EPA MOU	2007	TOG	0.8785	0.010333333	0.9	0.001033333
GLE	ARB	TRAINS	TRAINS EPA MOU	2008	PM	1	0.006627907	0.86	0.000927907
GLE	ARB	TRAINS	TRAINS EPA MOU	2008	NOX		0.327368421	0.57	0.140768421
GLE	ARB	TRAINS	TRAINS EPA MOU	2008	TOG	0.8785	0.010574713	0.87	0.001374713
GLE	ARB	TRAINS	TRAINS EPA MOU	2009	PM	1	0.006785714	0.84	0.001085714
GLE	ARB	TRAINS	TRAINS EPA MOU	2009	NOX		0.332545455	0.55	0.149645455
GLE	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	0.010714286	0.84	0.001714286
GLE	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	0.006829268	0.82	0.001229268
GLE	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		0.337962963	0.54	0.155462963
GLE	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	0.010853659	0.82	0.001953659
GLE	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	0.007088608	0.79	0.001488608
GLE	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		0.348301887	0.53	0.163701887
GLE	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	0.01125	0.8	0.00225
GLE	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	0.007333333	0.75	0.001833333
GLE	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		0.364313725	0.51	0.178513725
GLE	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	0.011710526	0.76	0.002810526
GLE	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	0.007746479	0.71	0.002246479
GLE	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		0.38125	0.48	0.19825
GLE	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	0.012328767	0.73	0.003328767
GLE	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.007971014	0.69	0.002471014
GLE	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		0.393191489	0.47	0.208391489
GLE	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	0.012714286	0.7	0.003814286
GLE	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.84035048	0.240622837	0.953359219	0.011222837
GLE	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.840547355	0.242732676	0.950016307	0.012132676
GLE	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.840024311	0.257939939	0.928123038	0.018539939
GLE	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.843622883	0.2690779	0.855885973	0.0387779
GLE	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.843682286	0.27984514	0.853329095	0.04104514
GLE	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.848130489	0.287786349	0.810323354	0.054586349
GLE	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.848075875	0.296519252	0.809390952	0.056519252
GLE	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.848083763	0.306624969	0.809457889	0.058424969
GLE	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.847999214	0.314247563	0.810189257	0.059647563
GLE	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.847544406	0.321840686	0.81096024	0.060840686

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 73 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
GLE	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.847875845	0.332577413	0.809134926	0.063477413
GLE	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.847813054	0.349344363	0.806940172	0.067444363
GLE	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.847739139	0.374002563	0.807481098	0.072002563
GLE	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.84789015	0.403295916	0.808091496	0.077395916
GLE	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.84798772	0.421269241	0.809933331	0.080069241
GLE	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.713600469	0.024315068	0.876	0.003015068
GLE	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.713600469	0.024315068	0.876	0.003015068
GLE	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.713600469	0.024315068	0.876	0.003015068
GLE	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.713600469	0.024315068	0.876	0.003015068
GLE	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.713600469	0.024315068	0.876	0.003015068
GLE	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.713600469	0.024315068	0.876	0.003015068
GLE	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.713600469	0.024315068	0.876	0.003015068
GLE	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.713600469	0.024315068	0.876	0.003015068
GLE	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.713600469	0.024315068	0.876	0.003015068
GLE	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.713600469	0.024315068	0.876	0.003015068
GLE	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.713600469	0.024315068	0.876	0.003015068
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	PM	0.96	0.014514515	0.999	0.000014515
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	NOX		0.203403403	0.999	0.000203403
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	PM	0.96	0.014543631	0.997	0.000043631
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	NOX		0.203907816	0.998	0.000407816
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	PM	0.96	0.014587525	0.994	0.000087525
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	NOX		0.204522613	0.995	0.001022613
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	PM	0.96	0.014560162	0.989	0.000160162
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	NOX		0.205040323	0.992	0.001640323
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	PM	0.96	0.014649034	0.983	0.000249034
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	NOX		0.205673759	0.987	0.002673759
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	PM	0.96	0.014666667	0.975	0.000366667
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	NOX		0.206218145	0.981	0.003918145
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	PM	0.96	0.014752371	0.949	0.000752371
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	NOX		0.206867846	0.961	0.008067846
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	PM	0.96	0.014718615	0.924	0.001118615
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	NOX		0.207537155	0.942	0.012037155
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	PM	0.96	0.01481069	0.898	0.00151069
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	NOX		0.20813449	0.922	0.01623449
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	PM	0.96	0.014908257	0.872	0.001908257
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	NOX		0.208748616	0.903	0.020248616
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	PM	0.96	0.014893617	0.846	0.002293617
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	NOX		0.209162896	0.884	0.024262896
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	PM	0.96	0.014968553	0.795	0.003068553
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	NOX		0.210419162	0.835	0.034719162
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	PM	0.96	0.015041783	0.718	0.004241783
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	NOX		0.212217795	0.753	0.052417795
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	PM	0.96	0.015288612	0.641	0.005488612
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	NOX		0.214242424	0.66	0.072842424
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	PM	0.96	0.015254237	0.59	0.006254237
GLE	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	NOX		0.215371622	0.592	0.087871622
GLE	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.007084469	0.734	0.001884469
GLE	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.007131783	0.645	0.002531783
GLE	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.007027027	0.555	0.003127027

**CCOS EMISSION REDUCTIONS BY RULE, v2.11**  
 December 8, 2003

Page 74 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
GLE	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.007081545	0.466	0.003781545
GLE	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.0072	0.375	0.0045
GLE	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.0072	0.375	0.0045
GLE	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.0072	0.375	0.0045
GLE	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.0072	0.375	0.0045
GLE	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.008	0.375	0.005
GLE	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.008	0.375	0.005
GLE	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2000	TOG	1	0.0125	0.528	0.0059
GLE	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2001	TOG	1	0.0125	0.528	0.0059
GLE	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2002	TOG	1	0.0125	0.528	0.0059
GLE	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2003	TOG	1	0.0125	0.528	0.0059
GLE	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2004	TOG	1	0.0125	0.528	0.0059
GLE	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2005	TOG	1	0.014204545	0.528	0.006704545
GLE	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2006	TOG	1	0.014204545	0.528	0.006704545
GLE	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2007	TOG	1	0.014204545	0.528	0.006704545
GLE	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2008	TOG	1	0.014204545	0.528	0.006704545
GLE	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2009	TOG	1	0.014204545	0.528	0.006704545
GLE	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2010	TOG	1	0.014204545	0.528	0.006704545
GLE	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2012	TOG	1	0.014204545	0.528	0.006704545
GLE	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2015	TOG	1	0.014204545	0.528	0.006704545
GLE	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2018	TOG	1	0.015719697	0.528	0.007419697
GLE	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2020	TOG	1	0.015719697	0.528	0.007419697
GLE	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.008860759	0.395	0.005360759
GLE	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.008860759	0.395	0.005360759
GLE	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.008860759	0.395	0.005360759
GLE	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.008860759	0.395	0.005360759
GLE	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.009873418	0.395	0.005973418
GLE	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.009873418	0.395	0.005973418
GLE	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.009873418	0.395	0.005973418
GLE	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.009873418	0.395	0.005973418
GLE	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.009873418	0.395	0.005973418
GLE	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.009873418	0.395	0.005973418
GLE	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.009873418	0.395	0.005973418
GLE	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.009873418	0.395	0.005973418
GLE	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.010886076	0.395	0.006586076
GLE	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.010886076	0.395	0.006586076
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		0.316649538	0.973	0.008549538
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.035625705	0.887	0.004025705
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		0.322918808	0.973	0.008718808
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.036302142	0.887	0.004102142
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		0.329443839	0.917	0.027343839
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.037104072	0.663	0.012504072
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		0.335617978	0.89	0.036917978
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.037862319	0.552	0.016962319
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		0.342134831	0.89	0.037634831
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.038586957	0.552	0.017286957
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		0.348800959	0.834	0.057900959
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.039329268	0.328	0.026429268
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		0.354076739	0.834	0.058776739

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 75 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.039634146	0.328	0.026634146
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		0.359352518	0.834	0.059652518
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.040243902	0.328	0.027043902
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		0.364628297	0.834	0.060528297
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.041158537	0.328	0.027658537
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		0.370263789	0.834	0.061463789
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.041768293	0.328	0.028068293
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		0.3755339568	0.834	0.062339568
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.042378049	0.328	0.028478049
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		0.386450839	0.834	0.064150839
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.043597561	0.328	0.029297561
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		0.403597122	0.834	0.066997122
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.045426829	0.328	0.030526829
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		0.420863309	0.834	0.069863309
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.047256098	0.328	0.031756098
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		0.432613909	0.834	0.071813909
GLE	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.048780488	0.328	0.032780488
IMP	ARB	TRAINs	TRAINs EPA MOU	2000	NOX		9.26161616	0.99	0.092616162
IMP	ARB	TRAINs	TRAINs EPA MOU	2001	NOX		9.40673684	0.95	0.470336842
IMP	ARB	TRAINs	TRAINs EPA MOU	2002	NOX		9.54460674	0.89	1.04990674
IMP	ARB	TRAINs	TRAINs EPA MOU	2003	NOX		9.69707317	0.82	1.74547317
IMP	ARB	TRAINs	TRAINs EPA MOU	2004	NOX		9.84947368	0.76	2.36387368
IMP	ARB	TRAINs	TRAINs EPA MOU	2005	PM	1	0.244479167	0.96	0.009779167
IMP	ARB	TRAINs	TRAINs EPA MOU	2005	NOX		10.0019118	0.68	3.20061176
IMP	ARB	TRAINs	TRAINs EPA MOU	2005	TOG	0.8785	0.522604167	0.96	0.020904167
IMP	ARB	TRAINs	TRAINs EPA MOU	2006	PM	1	0.248369565	0.92	0.019869565
IMP	ARB	TRAINs	TRAINs EPA MOU	2006	NOX		10.1615873	0.63	3.7597873
IMP	ARB	TRAINs	TRAINs EPA MOU	2006	TOG	0.8785	0.530967742	0.93	0.037167742
IMP	ARB	TRAINs	TRAINs EPA MOU	2007	PM	1	0.252359551	0.89	0.027759551
IMP	ARB	TRAINs	TRAINs EPA MOU	2007	NOX		10.3213559	0.59	4.23175593
IMP	ARB	TRAINs	TRAINs EPA MOU	2007	TOG	0.8785	0.539333333	0.9	0.053933333
IMP	ARB	TRAINs	TRAINs EPA MOU	2008	PM	1	0.256162791	0.86	0.035862791
IMP	ARB	TRAINs	TRAINs EPA MOU	2008	NOX		10.4810526	0.57	4.50685263
IMP	ARB	TRAINs	TRAINs EPA MOU	2008	TOG	0.8785	0.547586207	0.87	0.071186207
IMP	ARB	TRAINs	TRAINs EPA MOU	2009	PM	1	0.260238095	0.84	0.041638095
IMP	ARB	TRAINs	TRAINs EPA MOU	2009	NOX		10.648	0.55	4.7916
IMP	ARB	TRAINs	TRAINs EPA MOU	2009	TOG	0.8785	0.556309524	0.84	0.089009524
IMP	ARB	TRAINs	TRAINs EPA MOU	2010	PM	1	0.264512195	0.82	0.047612195
IMP	ARB	TRAINs	TRAINs EPA MOU	2010	NOX		10.822037	0.54	4.97813704
IMP	ARB	TRAINs	TRAINs EPA MOU	2010	TOG	0.8785	0.565487805	0.82	0.101787805
IMP	ARB	TRAINs	TRAINs EPA MOU	2012	PM	1	0.272531646	0.79	0.057231646
IMP	ARB	TRAINs	TRAINs EPA MOU	2012	NOX		11.1486792	0.53	5.23987925
IMP	ARB	TRAINs	TRAINs EPA MOU	2012	TOG	0.8785	0.5825	0.8	0.1165
IMP	ARB	TRAINs	TRAINs EPA MOU	2015	PM	1	0.285066667	0.75	0.071266667
IMP	ARB	TRAINs	TRAINs EPA MOU	2015	NOX		11.6641176	0.51	5.71541765
IMP	ARB	TRAINs	TRAINs EPA MOU	2015	TOG	0.8785	0.609473684	0.76	0.146273684
IMP	ARB	TRAINs	TRAINs EPA MOU	2018	PM	1	0.298450704	0.71	0.086550704
IMP	ARB	TRAINs	TRAINs EPA MOU	2018	NOX		12.2085417	0.48	6.34844167
IMP	ARB	TRAINs	TRAINs EPA MOU	2018	TOG	0.8785	0.637945205	0.73	0.172245205

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 76 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
IMP	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.307681159	0.69	0.095381159
IMP	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		12.5859574	0.47	6.67055745
IMP	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	0.657571429	0.7	0.197271429
IMP	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.846105224	1.35507949	0.954999326	0.060979491
IMP	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.8462201	1.38775162	0.951467093	0.06735162
IMP	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.842982187	1.46270961	0.9303282	0.101909611
IMP	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.847104264	1.5378552	0.860093979	0.215155202
IMP	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.84661704	1.61364669	0.856817052	0.231046691
IMP	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.851247507	1.67148212	0.813649149	0.311482115
IMP	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.851130689	1.73586297	0.813370654	0.32396297
IMP	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.851129829	1.80130218	0.812745367	0.337302179
IMP	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.851135075	1.86503866	0.812798167	0.349138655
IMP	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.85101773	1.92917429	0.812160937	0.362374292
IMP	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.850945476	1.99306131	0.811916819	0.374861311
IMP	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.850923804	2.11842641	0.811876206	0.398526414
IMP	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.851023163	2.30986055	0.811910486	0.434460549
IMP	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.850985922	2.54122231	0.812010816	0.477722307
IMP	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.851002777	2.69494595	0.812372507	0.505645953
IMP	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.713418327	0.128310502	0.876	0.015910502
IMP	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.713418327	0.128310502	0.876	0.015910502
IMP	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.713418327	0.128310502	0.876	0.015910502
IMP	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.713418327	0.128310502	0.876	0.015910502
IMP	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.713418327	0.128310502	0.876	0.015910502
IMP	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.713418327	0.128310502	0.876	0.015910502
IMP	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.713418327	0.128310502	0.876	0.015910502
IMP	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.713418327	0.128310502	0.876	0.015910502
IMP	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.713418327	0.128310502	0.876	0.015910502
IMP	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.713418327	0.128310502	0.876	0.015910502
IMP	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.713418327	0.128310502	0.876	0.015910502
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	PM	0.96	0.023023023	0.999	0.000023023
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	NOX		0.32002002	0.999	0.00032002
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	PM	0.96	0.022968907	0.997	0.000068907
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	NOX		0.319839679	0.998	0.000639679
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	PM	0.96	0.023038229	0.994	0.000138229
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	NOX		0.319899497	0.995	0.001599497
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	PM	0.96	0.023053589	0.989	0.000253589
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	NOX		0.319758065	0.992	0.002558065
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	PM	0.96	0.022990844	0.983	0.000390844
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	NOX		0.319858156	0.987	0.004158156
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	PM	0.96	0.022974359	0.975	0.000574359
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	NOX		0.319877676	0.981	0.006077676
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	PM	0.96	0.022971549	0.949	0.001171549
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	NOX		0.319979188	0.961	0.012479188
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	PM	0.96	0.022943723	0.924	0.001743723
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	NOX		0.31985138	0.942	0.01855138
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	PM	0.96	0.022939866	0.898	0.002339866
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	NOX		0.319956616	0.922	0.024956616
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	PM	0.96	0.023050459	0.872	0.002950459
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	NOX		0.319933555	0.903	0.031033555

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 77 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	PM	0.96	0.023049645	0.846	0.003549645
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	NOX		0.319683258	0.884	0.037083258
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	PM	0.96	0.023018868	0.795	0.004718868
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	NOX		0.31988024	0.835	0.05278024
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	PM	0.96	0.022980501	0.718	0.006480501
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	NOX		0.319654714	0.753	0.078954714
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	PM	0.96	0.023088924	0.641	0.008288924
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	NOX		0.32	0.66	0.1088
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	PM	0.96	0.023050847	0.59	0.009450847
IMP	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	NOX		0.319763514	0.592	0.130463514
IMP	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.032288828	0.734	0.008588828
IMP	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.033023256	0.645	0.011723256
IMP	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.033873874	0.555	0.015073874
IMP	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.033905579	0.466	0.018105579
IMP	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.034666667	0.375	0.021666667
IMP	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.034666667	0.375	0.021666667
IMP	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.035466667	0.375	0.022166667
IMP	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.036266667	0.375	0.022666667
IMP	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.037066667	0.375	0.023166667
IMP	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.037866667	0.375	0.023666667
IMP	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2000	TOG	1	0.048507463	0.938	0.003007463
IMP	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2001	TOG	1	0.051279318	0.938	0.003179318
IMP	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2002	TOG	1	0.051279318	0.938	0.003179318
IMP	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2003	TOG	1	0.052665245	0.938	0.003265245
IMP	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2004	TOG	1	0.054051173	0.938	0.003351173
IMP	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2005	TOG	1	0.0554371	0.938	0.0034371
IMP	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2006	TOG	1	0.056823028	0.938	0.003523028
IMP	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2007	TOG	1	0.058208955	0.938	0.003608955
IMP	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2008	TOG	1	0.058208955	0.938	0.003608955
IMP	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2009	TOG	1	0.059594883	0.938	0.003694883
IMP	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2010	TOG	1	0.059594883	0.938	0.003694883
IMP	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2012	TOG	1	0.06098081	0.938	0.00378081
IMP	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2015	TOG	1	0.062366738	0.938	0.003866738
IMP	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2018	TOG	1	0.063752665	0.938	0.003952665
IMP	COMBINED	ARB_C401	GASOLINE WRKG LOSS-BULK STOR	2020	TOG	1	0.065138593	0.938	0.004038593
IMP	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2000	TOG	1	0.020572451	0.559	0.009072451
IMP	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.021719457	0.221	0.016919457
IMP	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.021719457	0.221	0.016919457
IMP	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.022171946	0.221	0.017271946
IMP	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.022624434	0.221	0.017624434
IMP	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.023529412	0.221	0.018329412
IMP	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.0239819	0.221	0.0186819
IMP	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.024434389	0.221	0.019034389
IMP	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.024434389	0.221	0.019034389
IMP	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.025339367	0.221	0.019739367
IMP	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.025339367	0.221	0.019739367
IMP	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.025791855	0.221	0.020091855
IMP	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.026244344	0.221	0.020444344
IMP	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.027149321	0.221	0.021149321

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 78 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
IMP	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.02760181	0.221	0.02150181
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		0.846659815	0.973	0.022859815
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.094475761	0.887	0.010675761
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		0.863617677	0.973	0.023317677
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.096392334	0.887	0.010892334
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		0.881025082	0.917	0.073125082
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.098190045	0.663	0.033090045
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		0.897752809	0.89	0.098752809
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.100181159	0.552	0.044881159
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		0.91505618	0.89	0.10065618
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.102173913	0.552	0.045773913
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		0.932374101	0.834	0.154774101
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.104268293	0.328	0.070068293
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		0.946522782	0.834	0.157122782
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.105792683	0.328	0.071092683
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		0.960911271	0.834	0.159511271
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.107012195	0.328	0.071912195
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		0.975419664	0.834	0.161919664
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.108841463	0.328	0.073141463
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		0.989808153	0.834	0.164308153
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.110365854	0.328	0.074165854
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		1.00455635	0.834	0.166756355
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.112195122	0.328	0.075395122
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		1.03429257	0.834	0.171692566
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.11554878	0.328	0.07764878
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		1.07973621	0.834	0.179236211
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.120426829	0.328	0.080926829
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		1.12601918	0.834	0.186919185
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.125609756	0.328	0.084409756
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		1.15743405	0.834	0.192134053
IMP	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.129268293	0.328	0.086868293
KER	ARB	TRAINS	TRAINS EPA MOU	2000	NOX		4.56818182	0.99	0.045681818
KER	ARB	TRAINS	TRAINS EPA MOU	2001	NOX		4.63978947	0.95	0.231989474
KER	ARB	TRAINS	TRAINS EPA MOU	2002	NOX		4.70775281	0.89	0.517852809
KER	ARB	TRAINS	TRAINS EPA MOU	2003	NOX		4.78292683	0.82	0.860926829
KER	ARB	TRAINS	TRAINS EPA MOU	2004	NOX		4.85815789	0.76	1.16595789
KER	ARB	TRAINS	TRAINS EPA MOU	2005	PM	1	0.118645833	0.96	0.004745833
KER	ARB	TRAINS	TRAINS EPA MOU	2005	NOX		4.93338235	0.68	1.57868235
KER	ARB	TRAINS	TRAINS EPA MOU	2005	TOG	0.8785	0.239166667	0.96	0.009566667
KER	ARB	TRAINS	TRAINS EPA MOU	2006	PM	1	0.120543478	0.92	0.009643478
KER	ARB	TRAINS	TRAINS EPA MOU	2006	NOX		5.01206349	0.63	1.85446349
KER	ARB	TRAINS	TRAINS EPA MOU	2006	TOG	0.8785	0.242903226	0.93	0.017003226
KER	ARB	TRAINS	TRAINS EPA MOU	2007	PM	1	0.122359551	0.89	0.013459551
KER	ARB	TRAINS	TRAINS EPA MOU	2007	NOX		5.09084746	0.59	2.08724746
KER	ARB	TRAINS	TRAINS EPA MOU	2007	TOG	0.8785	0.246777778	0.9	0.024677778
KER	ARB	TRAINS	TRAINS EPA MOU	2008	PM	1	0.124302326	0.86	0.017402326
KER	ARB	TRAINS	TRAINS EPA MOU	2008	NOX		5.16964912	0.57	2.22294912
KER	ARB	TRAINS	TRAINS EPA MOU	2008	TOG	0.8785	0.250574713	0.87	0.032574713
KER	ARB	TRAINS	TRAINS EPA MOU	2009	PM	1	0.126309524	0.84	0.020209524

**CCOS EMISSION REDUCTIONS BY RULE, v2.11**  
 December 8, 2003

Page 79 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
KER	ARB	TRAINS	TRAINS EPA MOU	2009	NOX		5.252	0.55	2.3634
KER	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	0.25452381	0.84	0.04072381
KER	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	0.128292683	0.82	0.023092683
KER	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		5.33796296	0.54	2.45546296
KER	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	0.258780488	0.82	0.046580488
KER	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	0.132151899	0.79	0.027751899
KER	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		5.4990566	0.53	2.5845566
KER	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	0.2665	0.8	0.0533
KER	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	0.138266667	0.75	0.034566667
KER	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		5.75313725	0.51	2.81903725
KER	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	0.278815789	0.76	0.066915789
KER	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	0.144788732	0.71	0.041988732
KER	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		6.02166667	0.48	3.13126667
KER	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	0.291917808	0.73	0.078817808
KER	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.149275362	0.69	0.046275362
KER	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		6.20787234	0.47	3.29017234
KER	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	0.300857143	0.7	0.090257143
KER	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.846145535	0.869147519	0.954613552	0.039447519
KER	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.846123384	0.892607598	0.95148193	0.043307598
KER	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.842846892	0.921897829	0.930146458	0.064397829
KER	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.846909204	0.949867764	0.860119725	0.132867764
KER	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.846428628	0.979389456	0.857064567	0.139989456
KER	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.851099175	0.999073753	0.813053088	0.186773753
KER	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.851064848	1.02558167	0.813002054	0.191781665
KER	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.851152957	1.05022187	0.813066293	0.196321866
KER	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.851003191	1.07588052	0.812729649	0.201480523
KER	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.850849738	1.10273817	0.812250834	0.207038172
KER	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.850962215	1.12865204	0.812030603	0.212152044
KER	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.8509856	1.18321406	0.811095835	0.223514065
KER	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.85085946	1.25858602	0.812181278	0.236386017
KER	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.850857961	1.34864458	0.81222289	0.253244582
KER	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.850880335	1.40994993	0.811872801	0.265249932
KER	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.712706024	0.085273973	0.876	0.010573973
KER	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.712706024	0.085273973	0.876	0.010573973
KER	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.712706024	0.085273973	0.876	0.010573973
KER	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.712706024	0.085273973	0.876	0.010573973
KER	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.712706024	0.085273973	0.876	0.010573973
KER	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.712706024	0.085273973	0.876	0.010573973
KER	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.712706024	0.085273973	0.876	0.010573973
KER	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.712706024	0.085273973	0.876	0.010573973
KER	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.712706024	0.085273973	0.876	0.010573973
KER	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.712706024	0.085273973	0.876	0.010573973
KER	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.712706024	0.085273973	0.876	0.010573973
KER	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2012	TOG	0.9531	0.0075	0.8	0.0015
KER	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2015	TOG	0.9531	0.00775	0.8	0.00155
KER	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2018	TOG	0.9531	0.008	0.8	0.0016
KER	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2020	TOG	0.9531	0.008125	0.8	0.001625
KER	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.030790191	0.734	0.008190191
KER	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.031472868	0.645	0.011172868

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 80 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
KER	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.031711712	0.555	0.014111712
KER	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.031974249	0.466	0.017074249
KER	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.032533333	0.375	0.020333333
KER	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.0328	0.375	0.0205
KER	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.0336	0.375	0.021
KER	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.034933333	0.375	0.021833333
KER	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.036266667	0.375	0.022666667
KER	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.037066667	0.375	0.023166667
KER	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.039240506	0.395	0.023740506
KER	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.04	0.395	0.0242
KER	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.041012658	0.395	0.024812658
KER	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.041772152	0.395	0.025272152
KER	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.042531646	0.395	0.025731646
KER	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.043291139	0.395	0.026191139
KER	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.043797468	0.395	0.026497468
KER	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.044303797	0.395	0.026803797
KER	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.044810127	0.395	0.027110127
KER	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.045316456	0.395	0.027416456
KER	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.046582278	0.395	0.028182278
KER	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.04835443	0.395	0.02925443
KER	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.050126582	0.395	0.030326582
KER	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.051392405	0.395	0.031092405
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		0.428776978	0.973	0.011576978
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.048027057	0.887	0.005427057
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		0.437307297	0.973	0.011807297
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.049041714	0.887	0.005541714
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		0.446019629	0.917	0.037019629
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.050075415	0.663	0.016875415
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		0.454494382	0.89	0.049994382
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.050905797	0.552	0.022805797
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		0.463258427	0.89	0.050958427
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.051992754	0.552	0.023292754
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		0.472182254	0.834	0.078382254
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.05304878	0.328	0.03564878
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		0.479376499	0.834	0.079576499
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.053658537	0.328	0.036058537
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		0.486570743	0.834	0.080770743
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.054573171	0.328	0.036673171
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		0.493884892	0.834	0.081984892
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.055487805	0.328	0.037287805
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		0.501318945	0.834	0.083218945
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.056402439	0.328	0.037902439
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		0.508752998	0.834	0.084452998
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.057012195	0.328	0.038312195
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		0.523501199	0.834	0.086901199
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.058536585	0.328	0.039336585
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		0.54676259	0.834	0.09076259
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.061280488	0.328	0.041180488
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		0.570143885	0.834	0.094643885

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 81 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.06402439	0.328	0.04302439
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		0.586211031	0.834	0.097311031
KER	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.065853659	0.328	0.044253659
LAK	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.844349907	0.506304392	0.954169089	0.023204392
LAK	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.84441344	0.520479104	0.950662564	0.025679104
LAK	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.841480779	0.541659621	0.928812081	0.038559621
LAK	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.845247908	0.559078449	0.859092317	0.078778449
LAK	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.844557834	0.58094585	0.853607957	0.08504585
LAK	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.849482942	0.593230295	0.810309258	0.112530295
LAK	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.849541296	0.607799276	0.80997135	0.115499276
LAK	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.849329541	0.621906629	0.809928655	0.118206629
LAK	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.849261911	0.636248409	0.810846822	0.120348409
LAK	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.849274122	0.650440084	0.809759443	0.123740084
LAK	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.84932885	0.664117243	0.810549652	0.125817243
LAK	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.849170075	0.689203365	0.808759835	0.131803365
LAK	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.84902843	0.723230285	0.8092858	0.137930285
LAK	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.849257398	0.76748919	0.810174278	0.14568919
LAK	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.849269778	0.797156426	0.809000566	0.152256426
LAK	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.711559629	0.049200913	0.876	0.006100913
LAK	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.711559629	0.049200913	0.876	0.006100913
LAK	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.711559629	0.049200913	0.876	0.006100913
LAK	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.711559629	0.049200913	0.876	0.006100913
LAK	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.711559629	0.049200913	0.876	0.006100913
LAK	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.711559629	0.049200913	0.876	0.006100913
LAK	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.711559629	0.049200913	0.876	0.006100913
LAK	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.711559629	0.049200913	0.876	0.006100913
LAK	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.711559629	0.049200913	0.876	0.006100913
LAK	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.711559629	0.049200913	0.876	0.006100913
LAK	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.711559629	0.049200913	0.876	0.006100913
LAK	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2012	TOG	0.993466667	0.002985792	0.401903367	0.001785792
LAK	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2015	TOG	0.993466667	0.002985792	0.401903367	0.001785792
LAK	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2018	TOG	0.993466667	0.002985792	0.401903367	0.001785792
LAK	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2020	TOG	0.993969231	0.003085792	0.421285638	0.001785792
LAK	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.012942779	0.734	0.003442779
LAK	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.012868217	0.645	0.004568217
LAK	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.012972973	0.555	0.005772973
LAK	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.012875536	0.466	0.006875536
LAK	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.0128	0.375	0.008
LAK	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.0128	0.375	0.008
LAK	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.0128	0.375	0.008
LAK	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.0128	0.375	0.008
LAK	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.0128	0.375	0.008
LAK	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.0128	0.375	0.008
LAK	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.016708861	0.395	0.010108861
LAK	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.016708861	0.395	0.010108861
LAK	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.016708861	0.395	0.010108861
LAK	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.017468354	0.395	0.010568354
LAK	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.017468354	0.395	0.010568354
LAK	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.017468354	0.395	0.010568354

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 82 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
LAK	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.017468354	0.395	0.010568354
LAK	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.017468354	0.395	0.010568354
LAK	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.017468354	0.395	0.010568354
LAK	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.017468354	0.395	0.010568354
LAK	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.017468354	0.395	0.010568354
LAK	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.017468354	0.395	0.010568354
LAK	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.017468354	0.395	0.010568354
LAK	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.017468354	0.395	0.010568354
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		0.370400822	0.973	0.010000822
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.041939121	0.887	0.004739121
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		0.377800617	0.973	0.010200617
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.042615558	0.887	0.004815558
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		0.385169029	0.917	0.031969029
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.043438914	0.663	0.014638914
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		0.392359551	0.89	0.043159551
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.044384058	0.552	0.019884058
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		0.400224719	0.89	0.044024719
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.045289855	0.552	0.020289855
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		0.407913669	0.834	0.067713669
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.046036585	0.328	0.030936585
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		0.413788969	0.834	0.068688969
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.04695122	0.328	0.03155122
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		0.420023981	0.834	0.069723981
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.047560976	0.328	0.031960976
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		0.426618705	0.834	0.070818705
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.048170732	0.328	0.032370732
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		0.432853717	0.834	0.071853717
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.048780488	0.328	0.032780488
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		0.439448441	0.834	0.072948441
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.049695122	0.328	0.033395122
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		0.452278177	0.834	0.075078177
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.051219512	0.328	0.034419512
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		0.47206235	0.834	0.07836235
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.053353659	0.328	0.035853659
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		0.492446043	0.834	0.081746043
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.055792683	0.328	0.037492683
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		0.506354916	0.834	0.084054916
LAK	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.057317073	0.328	0.038517073
LAS	ARB	TRAINS	TRAINS EPA MOU	2000	NOX		2.04464646	0.99	0.020446465
LAS	ARB	TRAINS	TRAINS EPA MOU	2001	NOX		2.07663158	0.95	0.103831579
LAS	ARB	TRAINS	TRAINS EPA MOU	2002	NOX		2.10707865	0.89	0.231778652
LAS	ARB	TRAINS	TRAINS EPA MOU	2003	NOX		2.14073171	0.82	0.385331707
LAS	ARB	TRAINS	TRAINS EPA MOU	2004	NOX		2.17434211	0.76	0.521842105
LAS	ARB	TRAINS	TRAINS EPA MOU	2005	PM	1	0.049583333	0.96	0.001983333
LAS	ARB	TRAINS	TRAINS EPA MOU	2005	NOX		2.20808824	0.68	0.706588235
LAS	ARB	TRAINS	TRAINS EPA MOU	2005	TOG	0.8785	0.090104167	0.96	0.003604167
LAS	ARB	TRAINS	TRAINS EPA MOU	2006	PM	1	0.050326087	0.92	0.004026087
LAS	ARB	TRAINS	TRAINS EPA MOU	2006	NOX		2.24333333	0.63	0.830033333
LAS	ARB	TRAINS	TRAINS EPA MOU	2006	TOG	0.8785	0.091505376	0.93	0.006405376

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 83 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
LAS	ARB	TRAINS	TRAINS EPA MOU	2007	PM	1	0.051123596	0.89	0.005623596
LAS	ARB	TRAINS	TRAINS EPA MOU	2007	NOX		2.27847458	0.59	0.934174576
LAS	ARB	TRAINS	TRAINS EPA MOU	2007	TOG	0.8785	0.093	0.9	0.0093
LAS	ARB	TRAINS	TRAINS EPA MOU	2008	PM	1	0.051976744	0.86	0.007276744
LAS	ARB	TRAINS	TRAINS EPA MOU	2008	NOX		2.31385965	0.57	0.994959649
LAS	ARB	TRAINS	TRAINS EPA MOU	2008	TOG	0.8785	0.094367816	0.87	0.012267816
LAS	ARB	TRAINS	TRAINS EPA MOU	2009	PM	1	0.052738095	0.84	0.008438095
LAS	ARB	TRAINS	TRAINS EPA MOU	2009	NOX		2.35072727	0.55	1.05782727
LAS	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	0.095952381	0.84	0.015352381
LAS	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	0.053658537	0.82	0.009658537
LAS	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		2.38907407	0.54	1.09897407
LAS	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	0.097439024	0.82	0.017539024
LAS	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	0.055316456	0.79	0.011616456
LAS	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		2.46113208	0.53	1.15673208
LAS	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	0.100375	0.8	0.020075
LAS	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	0.057866667	0.75	0.014466667
LAS	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		2.57490196	0.51	1.26170196
LAS	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	0.105	0.76	0.0252
LAS	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	0.06056338	0.71	0.01756338
LAS	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		2.69520833	0.48	1.40150833
LAS	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	0.11	0.73	0.0297
LAS	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.062463768	0.69	0.019363768
LAS	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		2.77851064	0.47	1.47261064
LAS	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	0.113428571	0.7	0.034028571
LAS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.839321941	0.298332631	0.953298335	0.013932631
LAS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.839692567	0.300224767	0.949954938	0.015024767
LAS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.838480975	0.318120227	0.928579746	0.022720227
LAS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.842972185	0.328592028	0.856685421	0.047092028
LAS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.842006986	0.341599782	0.850703118	0.050999782
LAS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.849144041	0.353126403	0.810191472	0.067026403
LAS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.849439897	0.360663455	0.809619039	0.068663455
LAS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.849131492	0.366695108	0.809664469	0.069795108
LAS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.849259808	0.372995	0.809126128	0.071195
LAS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.849347718	0.37900455	0.809488962	0.07220455
LAS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.849309533	0.38563936	0.810601906	0.07303936
LAS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.849223269	0.395923211	0.80975298	0.075323211
LAS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.84910994	0.412058994	0.810563548	0.078058994
LAS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.849359344	0.429260616	0.810230398	0.081460616
LAS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.849168166	0.440057527	0.808076168	0.084457527
LAS	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.713665251	0.02956621	0.876	0.00366621
LAS	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.713665251	0.02956621	0.876	0.00366621
LAS	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.713665251	0.02956621	0.876	0.00366621
LAS	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.713665251	0.02956621	0.876	0.00366621
LAS	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.713665251	0.02956621	0.876	0.00366621
LAS	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.713665251	0.02956621	0.876	0.00366621
LAS	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.713665251	0.02956621	0.876	0.00366621
LAS	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.713665251	0.02956621	0.876	0.00366621
LAS	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.713665251	0.02956621	0.876	0.00366621
LAS	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.713665251	0.02956621	0.876	0.00366621

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 84 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
LAS	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.713665251	0.02956621	0.876	0.00366621
LAS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	CO		0.006722689	0.833	0.001122689
LAS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	NOX		0.018916047	0.941	0.001116047
LAS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO		0.006722689	0.833	0.001122689
LAS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	NOX		0.018916047	0.941	0.001116047
LAS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		0.006722689	0.833	0.001122689
LAS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	NOX		0.01893424	0.882	0.00223424
LAS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		0.006746627	0.667	0.002246627
LAS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX		0.018932039	0.824	0.00332039
LAS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		0.006746627	0.667	0.002246627
LAS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		0.018932039	0.824	0.00332039
LAS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.006666667	0.6	0.002666667
LAS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		0.018990704	0.753	0.004690704
LAS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	TOG	0.7143	0.002125	0.8	0.000425
LAS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.0068	0.5	0.0034
LAS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		0.019010819	0.647	0.006710819
LAS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	TOG	0.7143	0.0022	0.5	0.0011
LAS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.0068	0.5	0.0034
LAS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	PM	0.75	0.001246883	0.401	0.000746883
LAS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		0.018923611	0.576	0.008023611
LAS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.7143	0.0022	0.5	0.0011
LAS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.0068	0.5	0.0034
LAS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		0.018903592	0.529	0.008903592
LAS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	TOG	0.7143	0.0022	0.5	0.0011
LAS	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2012	TOG	0.9613	0.000783699	0.638	0.000283699
LAS	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2015	TOG	0.9613	0.000783699	0.638	0.000283699
LAS	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2018	TOG	0.9613	0.000783699	0.638	0.000283699
LAS	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2020	TOG	0.9613	0.000783699	0.638	0.000283699
LAS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.007356948	0.734	0.001956948
LAS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.008372093	0.645	0.002972093
LAS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.008288288	0.555	0.003688288
LAS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.008369099	0.466	0.004469099
LAS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.008266667	0.375	0.005166667
LAS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.008266667	0.375	0.005166667
LAS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.008266667	0.375	0.005166667
LAS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.008266667	0.375	0.005166667
LAS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.009333333	0.375	0.005833333
LAS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.009333333	0.375	0.005833333
LAS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2000	TOG	1	0.02826087	0.92	0.00226087
LAS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2001	TOG	1	0.02826087	0.92	0.00226087
LAS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2002	TOG	1	0.028141361	0.764	0.006641361
LAS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2003	TOG	1	0.028216374	0.684	0.008916374
LAS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2004	TOG	1	0.028216374	0.684	0.008916374
LAS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2005	TOG	1	0.028030303	0.528	0.013230303
LAS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2006	TOG	1	0.031818182	0.528	0.015018182
LAS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2007	TOG	1	0.031818182	0.528	0.015018182
LAS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2008	TOG	1	0.031849315	0.292	0.022549315
LAS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2009	TOG	1	0.031849315	0.292	0.022549315
LAS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2010	TOG	1	0.031818182	0.132	0.027618182

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 85 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
LAS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2012	TOG	1	0.031818182	0.132	0.027618182
LAS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2015	TOG	1	0.031818182	0.132	0.027618182
LAS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2018	TOG	1	0.034848485	0.132	0.030248485
LAS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2020	TOG	1	0.034848485	0.132	0.030248485
LAS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.009873418	0.395	0.005973418
LAS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.009873418	0.395	0.005973418
LAS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.009873418	0.395	0.005973418
LAS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.009873418	0.395	0.005973418
LAS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.009873418	0.395	0.005973418
LAS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.011139241	0.395	0.006739241
LAS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.011139241	0.395	0.006739241
LAS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.011139241	0.395	0.006739241
LAS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.011139241	0.395	0.006739241
LAS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.011139241	0.395	0.006739241
LAS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.011139241	0.395	0.006739241
LAS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.011139241	0.395	0.006739241
LAS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.012405063	0.395	0.007505063
LAS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.012405063	0.395	0.007505063
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		0.241418294	0.973	0.006518294
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.027508455	0.887	0.003108455
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		0.24635149	0.973	0.00665149
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.027959414	0.887	0.003159414
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		0.251254089	0.917	0.020854089
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.028506787	0.663	0.009606787
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		0.255842697	0.89	0.028142697
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.028985507	0.552	0.012985507
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		0.260786517	0.89	0.028686517
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.029710145	0.552	0.013310145
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		0.266067146	0.834	0.044167146
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.030182927	0.328	0.020282927
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		0.269784173	0.834	0.044784173
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.030792683	0.328	0.020692683
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		0.273980815	0.834	0.045480815
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.031097561	0.328	0.020897561
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		0.278057554	0.834	0.046157554
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.031707317	0.328	0.021307317
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		0.282134293	0.834	0.046834293
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.032012195	0.328	0.021512195
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		0.286570743	0.834	0.047570743
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.032621951	0.328	0.021921951
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		0.294844125	0.834	0.048944125
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.033536585	0.328	0.022536585
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		0.307913669	0.834	0.051113669
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.035060976	0.328	0.023560976
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		0.320983213	0.834	0.053283213
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.036280488	0.328	0.024380488
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		0.330095923	0.834	0.054795923
LAS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.0375	0.328	0.0252
MBU	ARB	TRAINS	TRAINS EPA MOU	2000	NOX		5.6130303	0.99	0.056130303

**CCOS EMISSION REDUCTIONS BY RULE, v2.11**  
 December 8, 2003

Page 86 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
MBU	ARB	TRAINS	TRAINS EPA MOU	2001	NOX		5.70094737	0.95	0.285047368
MBU	ARB	TRAINS	TRAINS EPA MOU	2002	NOX		5.78460674	0.89	0.636306742
MBU	ARB	TRAINS	TRAINS EPA MOU	2003	NOX		5.87695122	0.82	1.05785122
MBU	ARB	TRAINS	TRAINS EPA MOU	2004	NOX		5.96934211	0.76	1.43264211
MBU	ARB	TRAINS	TRAINS EPA MOU	2005	PM	1	0.1265625	0.96	0.0050625
MBU	ARB	TRAINS	TRAINS EPA MOU	2005	NOX		6.06161765	0.68	1.93971765
MBU	ARB	TRAINS	TRAINS EPA MOU	2005	TOG	0.8785	0.221354167	0.96	0.008854167
MBU	ARB	TRAINS	TRAINS EPA MOU	2006	PM	1	0.128586957	0.92	0.010286957
MBU	ARB	TRAINS	TRAINS EPA MOU	2006	NOX		6.15873016	0.63	2.27873016
MBU	ARB	TRAINS	TRAINS EPA MOU	2006	TOG	0.8785	0.22483871	0.93	0.01573871
MBU	ARB	TRAINS	TRAINS EPA MOU	2007	PM	1	0.130674157	0.89	0.014374157
MBU	ARB	TRAINS	TRAINS EPA MOU	2007	NOX		6.25525424	0.59	2.56465424
MBU	ARB	TRAINS	TRAINS EPA MOU	2007	TOG	0.8785	0.228444444	0.9	0.022844444
MBU	ARB	TRAINS	TRAINS EPA MOU	2008	PM	1	0.132790698	0.86	0.018590698
MBU	ARB	TRAINS	TRAINS EPA MOU	2008	NOX		6.35210526	0.57	2.73140526
MBU	ARB	TRAINS	TRAINS EPA MOU	2008	TOG	0.8785	0.231954023	0.87	0.030154023
MBU	ARB	TRAINS	TRAINS EPA MOU	2009	PM	1	0.134761905	0.84	0.021561905
MBU	ARB	TRAINS	TRAINS EPA MOU	2009	NOX		6.45327273	0.55	2.90397273
MBU	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	0.235595238	0.84	0.037695238
MBU	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	0.13695122	0.82	0.02465122
MBU	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		6.5587037	0.54	3.0170037
MBU	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	0.239634146	0.82	0.043134146
MBU	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	0.141139241	0.79	0.029639241
MBU	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		6.75679245	0.53	3.17569245
MBU	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	0.24675	0.8	0.04935
MBU	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	0.147466667	0.75	0.036866667
MBU	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		7.06901961	0.51	3.46381961
MBU	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	0.258026316	0.76	0.061926316
MBU	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	0.154507042	0.71	0.044807042
MBU	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		7.39916667	0.48	3.84756667
MBU	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	0.270273973	0.73	0.072973973
MBU	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.159275362	0.69	0.049375362
MBU	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		7.62765957	0.47	4.04265957
MBU	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	0.278571429	0.7	0.083571429
MBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.846622484	6.16366359	0.955081327	0.276863592
MBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.846452374	6.26898721	0.951621019	0.30328721
MBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.843180528	6.36074995	0.930189057	0.444049954
MBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.847412133	6.45043966	0.860328953	0.900939663
MBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.846802992	6.5398673	0.857020448	0.935067295
MBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.851645359	6.56801156	0.813518665	1.22481156
MBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.851651033	6.6640701	0.81358688	1.2422701
MBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.851556304	6.76293649	0.813123117	1.26383649
MBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.8515275	6.85693708	0.813045232	1.28193708
MBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.851444066	7.05362663	0.801063098	1.40322663
MBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.85137749	7.14949791	0.801063246	1.42229791
MBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.851370298	7.32355429	0.801154708	1.45625429
MBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.851391301	7.58115992	0.801645139	1.50375992
MBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.851356444	7.84515825	0.801946857	1.55375825
MBU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.851371163	8.02415589	0.802090599	1.58805589

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 87 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
MBU	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.713007828	0.600799087	0.876	0.074499087
MBU	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.713007828	0.600799087	0.876	0.074499087
MBU	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.713007828	0.600799087	0.876	0.074499087
MBU	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.713007828	0.600799087	0.876	0.074499087
MBU	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.713007828	0.600799087	0.876	0.074499087
MBU	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.713007828	0.600799087	0.876	0.074499087
MBU	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.713007828	0.600799087	0.876	0.074499087
MBU	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.713007828	0.600799087	0.876	0.074499087
MBU	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.713007828	0.600799087	0.876	0.074499087
MBU	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.713007828	0.600799087	0.876	0.074499087
MBU	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2003	TOG	0.97858547	2.6360246	0.864711201	0.356624601
MBU	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2004	TOG	0.979571665	2.64760921	0.808314154	0.507509213
MBU	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2005	TOG	0.979573547	2.65836999	0.808013936	0.510369992
MBU	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2006	TOG	0.979591358	2.67005391	0.807811406	0.513153907
MBU	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2007	TOG	0.97959526	2.68014151	0.807606609	0.515641513
MBU	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2008	TOG	0.979605194	2.68967379	0.807421333	0.517973793
MBU	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2009	TOG	0.979604148	2.69987096	0.807186726	0.52057096
MBU	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2010	TOG	0.979613277	2.71041968	0.806996797	0.52311968
MBU	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2012	TOG	0.979616549	2.73741284	0.806601023	0.529412843
MBU	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2015	TOG	0.979626997	2.77784941	0.805947218	0.539049407
MBU	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2018	TOG	0.979641364	2.82713496	0.805691993	0.549334958
MBU	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2020	TOG	0.979640536	2.86210749	0.805385545	0.557007487
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	PM	0.96	0.064664665	0.999	0.000064665
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	NOX		0.90970971	0.999	0.00090971
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	PM	0.96	0.064593781	0.997	0.000193781
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	NOX		0.908717435	0.998	0.001817435
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	PM	0.96	0.064587525	0.994	0.000387525
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	NOX		0.908844221	0.995	0.004544221
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	PM	0.96	0.064509606	0.989	0.000709606
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	NOX		0.908064516	0.992	0.007264516
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	PM	0.96	0.064598169	0.983	0.001098169
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	NOX		0.90810537	0.987	0.01180537
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	PM	0.96	0.064410256	0.975	0.001610256
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	NOX		0.907747197	0.981	0.017247197
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	PM	0.96	0.064488936	0.949	0.003288936
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	NOX		0.907700312	0.961	0.035400312
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	PM	0.96	0.064502165	0.924	0.004902165
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	NOX		0.907430998	0.942	0.052630998
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	PM	0.96	0.064365256	0.898	0.006565256
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	NOX		0.907375271	0.922	0.070775271
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	PM	0.96	0.064449541	0.872	0.008249541
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	NOX		0.907087486	0.903	0.087987486
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	PM	0.96	0.064420804	0.846	0.009920804
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	NOX		0.906108597	0.884	0.105108597
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	PM	0.96	0.064402516	0.795	0.013202516
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	NOX		0.905748503	0.835	0.149448503
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	PM	0.96	0.064345404	0.718	0.018145404
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	NOX		0.904780876	0.753	0.223480876

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 88 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	PM	0.96	0.064274571	0.641	0.023074571
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	NOX		0.904393939	0.66	0.307493939
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	PM	0.96	0.064237288	0.59	0.026337288
MBU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	NOX		0.903378378	0.592	0.368578378
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2005	CO		0.126063218	0.974907682	0.003163218
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2005	PM	0.666007018	0.018151155	0.942088803	0.001051155
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	CO		0.126126194	0.932399498	0.008526194
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	PM	0.666007018	0.018151155	0.942088803	0.001051155
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	NOX		0.343008274	0.979859747	0.006908274
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	TOG	0.691457399	0.045683333	0.976286027	0.001083333
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO		0.126086073	0.883523433	0.014686073
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	PM	0.664827329	0.018213692	0.883950385	0.002113692
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	NOX		0.343096077	0.940552869	0.020396077
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	TOG	0.691374879	0.045708263	0.905744335	0.004308263
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		0.126155745	0.841023926	0.020055745
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	PM	0.666127152	0.018216093	0.828937363	0.003116093
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	NOX		0.343002696	0.900867555	0.034002696
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	TOG	0.691508163	0.045625424	0.859170092	0.006425424
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		0.126115505	0.792130991	0.026215505
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	PM	0.664644286	0.018156734	0.77106379	0.004156734
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX		0.343114713	0.861519454	0.047514713
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	TOG	0.691624798	0.045675	0.812260536	0.008575
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		0.12623565	0.741470417	0.03263565
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	PM	0.664644286	0.018156734	0.77106379	0.004156734
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		0.343082394	0.819919661	0.061782394
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	TOG	0.691218286	0.045758333	0.764887999	0.010758333
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.126203852	0.678267726	0.040603852
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	PM	0.663979688	0.018218188	0.70259459	0.005418188
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		0.343155594	0.757965205	0.083055594
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	TOG	0.691253333	0.0455583207	0.691043967	0.014083207
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.126095752	0.583683424	0.052495752
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	PM	0.662506422	0.018156635	0.60033152	0.007256635
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		0.343018459	0.66468726	0.115018459
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	TOG	0.69132803	0.04549627	0.580267353	0.01909627
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.126114382	0.528092028	0.059514382
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	PM	0.661774118	0.018292965	0.4646595	0.009792965
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		0.343044679	0.597006783	0.138244679
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.691126818	0.045492612	0.483595008	0.023492612
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.126113549	0.490827517	0.064213549
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	PM	0.66065	0.018144468	0.374769884	0.011344468
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		0.343152177	0.551941713	0.153752177
MBU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	TOG	0.690904188	0.045548527	0.419332989	0.026448527
MBU	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2012	TOG	0.996007353	0.03815852	0.891019885	0.00415852
MBU	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2015	TOG	0.996061671	0.038893442	0.89218125	0.004193442
MBU	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2018	TOG	0.996094429	0.040205043	0.892922805	0.004305043
MBU	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2020	TOG	0.99609891	0.041097597	0.892996259	0.004397597
MBU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.177111717	0.734	0.047111717
MBU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.180465116	0.645	0.064065116
MBU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.181801802	0.555	0.080901802

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 89 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
MBU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.183476395	0.466	0.09776395
MBU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.186133333	0.375	0.116333333
MBU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.188	0.375	0.1175
MBU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.1928	0.375	0.1205
MBU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.200266667	0.375	0.125166667
MBU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.209333333	0.375	0.130833333
MBU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.215733333	0.375	0.134833333
MBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.227088608	0.395	0.137388608
MBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.229873418	0.395	0.139073418
MBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.235189873	0.395	0.142289873
MBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.238734177	0.395	0.144434177
MBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.242531646	0.395	0.146731646
MBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.247088608	0.395	0.149488608
MBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.249367089	0.395	0.150867089
MBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.251392405	0.395	0.152092405
MBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.25443038	0.395	0.15393038
MBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.25721519	0.395	0.15561519
MBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.263797468	0.395	0.159597468
MBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.273924051	0.395	0.165724051
MBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.286582278	0.395	0.173382278
MBU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.295189873	0.395	0.178589873
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		2.51068859	0.973	0.067788592
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.348478016	0.887	0.039378016
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		2.56094553	0.973	0.069145529
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.35524239	0.887	0.04014239
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		2.61188659	0.917	0.216786587
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.362292609	0.663	0.122092609
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		2.66191011	0.89	0.292810112
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.369746377	0.552	0.165646377
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		2.71280899	0.89	0.298408989
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.376811594	0.552	0.168811594
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		2.76498801	0.834	0.45898801
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.384146341	0.328	0.258146341
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		2.80683453	0.834	0.465934532
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.389634146	0.328	0.261834146
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		2.84880096	0.834	0.472900959
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.395426829	0.328	0.265726829
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		2.89184652	0.834	0.480046523
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.401219512	0.328	0.269619512
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		2.93513189	0.834	0.487231894
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.407317073	0.328	0.273717073
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		2.9794964	0.834	0.494596403
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.413719512	0.328	0.278019512
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		3.06582734	0.834	0.508927338
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.425914634	0.328	0.286214634
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		3.20167866	0.834	0.531478657
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.444817073	0.328	0.298917073
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		3.33788969	0.834	0.554089688
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.463414634	0.328	0.311414634

**CCOS EMISSION REDUCTIONS BY RULE, v2.11**  
 December 8, 2003

Page 90 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		3.4323741	0.834	0.569774101
MBU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.47652439	0.328	0.32022439
MEN	ARB	TRAINS	TRAINS EPA MOU	2000	NOX		0.15979798	0.99	0.00159798
MEN	ARB	TRAINS	TRAINS EPA MOU	2001	NOX		0.159789474	0.95	0.007989474
MEN	ARB	TRAINS	TRAINS EPA MOU	2002	NOX		0.159775281	0.89	0.017575281
MEN	ARB	TRAINS	TRAINS EPA MOU	2003	NOX		0.159878049	0.82	0.028778049
MEN	ARB	TRAINS	TRAINS EPA MOU	2004	NOX		0.159868421	0.76	0.038368421
MEN	ARB	TRAINS	TRAINS EPA MOU	2005	PM	1	0.011666667	0.96	0.000466667
MEN	ARB	TRAINS	TRAINS EPA MOU	2005	NOX		0.159852941	0.68	0.051152941
MEN	ARB	TRAINS	TRAINS EPA MOU	2005	TOG	0.8785	0.007083333	0.96	0.000283333
MEN	ARB	TRAINS	TRAINS EPA MOU	2006	PM	1	0.011630435	0.92	0.000930435
MEN	ARB	TRAINS	TRAINS EPA MOU	2006	NOX		0.15984127	0.63	0.05914127
MEN	ARB	TRAINS	TRAINS EPA MOU	2006	TOG	0.8785	0.007096774	0.93	0.000496774
MEN	ARB	TRAINS	TRAINS EPA MOU	2007	PM	1	0.011573034	0.89	0.001273034
MEN	ARB	TRAINS	TRAINS EPA MOU	2007	NOX		0.159830508	0.59	0.065530508
MEN	ARB	TRAINS	TRAINS EPA MOU	2007	TOG	0.8785	0.007111111	0.9	0.000711111
MEN	ARB	TRAINS	TRAINS EPA MOU	2008	PM	1	0.011627907	0.86	0.001627907
MEN	ARB	TRAINS	TRAINS EPA MOU	2008	NOX		0.159824561	0.57	0.068724561
MEN	ARB	TRAINS	TRAINS EPA MOU	2008	TOG	0.8785	0.007011494	0.87	0.000911494
MEN	ARB	TRAINS	TRAINS EPA MOU	2009	PM	1	0.011666667	0.84	0.001866667
MEN	ARB	TRAINS	TRAINS EPA MOU	2009	NOX		0.159818182	0.55	0.071918182
MEN	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	0.00702381	0.84	0.00112381
MEN	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	0.011585366	0.82	0.002085366
MEN	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		0.159814815	0.54	0.073514815
MEN	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	0.007073171	0.82	0.001273171
MEN	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	0.01164557	0.79	0.00244557
MEN	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		0.159811321	0.53	0.075111321
MEN	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	0.007	0.8	0.0014
MEN	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	0.0116	0.75	0.0029
MEN	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		0.159803922	0.51	0.078303922
MEN	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	0.007105263	0.76	0.001705263
MEN	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	0.011690141	0.71	0.003390141
MEN	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		0.159791667	0.48	0.083091667
MEN	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	0.007123288	0.73	0.001923288
MEN	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.011594203	0.69	0.003594203
MEN	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		0.159787234	0.47	0.084687234
MEN	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	0.007	0.7	0.0021
MEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.845550918	0.775618357	0.954851046	0.035018357
MEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.845555156	0.783699653	0.951512479	0.037999653
MEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.842468969	0.803077787	0.930171413	0.056077787
MEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.846911685	0.821470033	0.860530477	0.114570033
MEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.846376847	0.83922489	0.857934516	0.11922489
MEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.850842973	0.847575168	0.813497169	0.158075168
MEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.850685119	0.859914005	0.814267468	0.159714005
MEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.850751116	0.876782522	0.812402143	0.164482522
MEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.850579665	0.889518087	0.812687241	0.166618087
MEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.850611932	0.902582501	0.812446506	0.169282501
MEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.850696211	0.916687941	0.811835704	0.172487941
MEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.850593658	0.939275942	0.812540773	0.176075942

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 91 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
MEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.850588505	0.975940109	0.812037534	0.183440109
MEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.850629849	1.01161695	0.812362824	0.189816947
MEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.85055174	1.03641344	0.812320608	0.194513445
MEN	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.713183013	0.077283105	0.876	0.009583105
MEN	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.713183013	0.077283105	0.876	0.009583105
MEN	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.713183013	0.077283105	0.876	0.009583105
MEN	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.713183013	0.077283105	0.876	0.009583105
MEN	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.713183013	0.077283105	0.876	0.009583105
MEN	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.713183013	0.077283105	0.876	0.009583105
MEN	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.713183013	0.077283105	0.876	0.009583105
MEN	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.713183013	0.077283105	0.876	0.009583105
MEN	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.713183013	0.077283105	0.876	0.009583105
MEN	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.713183013	0.077283105	0.876	0.009583105
MEN	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.713183013	0.077283105	0.876	0.009583105
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	CO		0.015608181	0.929	0.001108181
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO		0.015608181	0.929	0.001108181
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	NOX		0.046743697	0.952	0.002243697
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		0.015519253	0.857	0.002219253
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	NOX		0.0467169	0.929	0.0033169
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	TOG	0.7222	0.0055	0.8	0.0011
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		0.015521628	0.786	0.003321628
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX		0.04676504	0.881	0.00556504
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	TOG	0.7222	0.0055	0.8	0.0011
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		0.015521628	0.786	0.003321628
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		0.046698679	0.833	0.007798679
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	TOG	0.7222	0.0055	0.8	0.0011
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.01563786	0.729	0.00423786
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	PM	0.7143	0.002125	0.8	0.000425
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		0.046778351	0.776	0.010478351
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	TOG	0.7222	0.005555556	0.72	0.001555556
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.0155521	0.643	0.0055521
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	PM	0.7143	0.0022	0.5	0.0011
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		0.046666667	0.69	0.014466667
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	TOG	0.7222	0.0055	0.6	0.0022
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.01561939	0.557	0.00691939
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	PM	0.7143	0.0022	0.5	0.0011
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		0.046688207	0.619	0.017788207
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.7222	0.005416667	0.48	0.002816667
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.0156	0.5	0.0078
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	PM	0.7143	0.0022	0.5	0.0011
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		0.04676007	0.571	0.02006007
MEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	TOG	0.7222	0.0055	0.4	0.0033
MEN	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2012	TOG	0.996632653	0.005127802	0.955575111	0.00227802
MEN	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2015	TOG	0.996764706	0.005327802	0.957242774	0.00227802
MEN	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2018	TOG	0.996333333	0.005673362	0.951816502	0.00273362
MEN	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2020	TOG	0.9964	0.005773362	0.952651085	0.00273362
MEN	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.025340599	0.734	0.006740599
MEN	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.025736434	0.645	0.009136434
MEN	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.026126126	0.555	0.011626126

**CCOS EMISSION REDUCTIONS BY RULE, v2.11**  
 December 8, 2003

Page 92 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
MEN	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.026609442	0.466	0.014209442
MEN	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.026933333	0.375	0.016833333
MEN	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.027466667	0.375	0.017166667
MEN	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.028	0.375	0.0175
MEN	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.029066667	0.375	0.018166667
MEN	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.030133333	0.375	0.018833333
MEN	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.030933333	0.375	0.019333333
MEN	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.03164557	0.395	0.01914557
MEN	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.032151899	0.395	0.019451899
MEN	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.032911392	0.395	0.019911392
MEN	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.033670886	0.395	0.020370886
MEN	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.03443038	0.395	0.02083038
MEN	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.034936709	0.395	0.021136709
MEN	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.035443038	0.395	0.021443038
MEN	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.036202532	0.395	0.021902532
MEN	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.036708861	0.395	0.022208861
MEN	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.03721519	0.395	0.02251519
MEN	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.038227848	0.395	0.023127848
MEN	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.039493671	0.395	0.023893671
MEN	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.041012658	0.395	0.024812658
MEN	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.042025316	0.395	0.025425316
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		0.668448099	0.973	0.018048099
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.074971815	0.887	0.008471815
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		0.67307297	0.973	0.01817297
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.075535513	0.887	0.008535513
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		0.688331516	0.917	0.057131516
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.077224736	0.663	0.026024736
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		0.703595506	0.89	0.077395506
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.078804348	0.552	0.035304348
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		0.718988764	0.89	0.079088764
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.080615942	0.552	0.036115942
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		0.734292566	0.834	0.121892566
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.082621951	0.328	0.055521951
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		0.746282974	0.834	0.123882974
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.083841463	0.328	0.056341463
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		0.758033573	0.834	0.125833573
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.085060976	0.328	0.057160976
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		0.769904077	0.834	0.127804077
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.086280488	0.328	0.057980488
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		0.781654676	0.834	0.129754676
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.087804878	0.328	0.059004878
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		0.793645084	0.834	0.131745084
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.089329268	0.328	0.060029268
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		0.813549161	0.834	0.135049161
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.091463415	0.328	0.061463415
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		0.84352518	0.834	0.14002518
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.094817073	0.328	0.063717073
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		0.875899281	0.834	0.145399281
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.09847561	0.328	0.06617561

**CCOS EMISSION REDUCTIONS BY RULE, v2.11**  
 December 8, 2003

Page 93 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		0.89736211	0.834	0.14896211
MEN	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.100609756	0.328	0.067609756
MOD	ARB	TRAINS	TRAINS EPA MOU	2000	NOX		2.2589899	0.99	0.022589899
MOD	ARB	TRAINS	TRAINS EPA MOU	2001	NOX		2.29442105	0.95	0.114721053
MOD	ARB	TRAINS	TRAINS EPA MOU	2002	NOX		2.32808989	0.89	0.256089888
MOD	ARB	TRAINS	TRAINS EPA MOU	2003	NOX		2.3652439	0.82	0.425743902
MOD	ARB	TRAINS	TRAINS EPA MOU	2004	NOX		2.40236842	0.76	0.576568421
MOD	ARB	TRAINS	TRAINS EPA MOU	2005	PM	1	0.05375	0.96	0.00215
MOD	ARB	TRAINS	TRAINS EPA MOU	2005	NOX		2.43955882	0.68	0.780658824
MOD	ARB	TRAINS	TRAINS EPA MOU	2005	TOG	0.8785	0.094791667	0.96	0.003791667
MOD	ARB	TRAINS	TRAINS EPA MOU	2006	PM	1	0.054565217	0.92	0.004365217
MOD	ARB	TRAINS	TRAINS EPA MOU	2006	NOX		2.47857143	0.63	0.917071429
MOD	ARB	TRAINS	TRAINS EPA MOU	2006	TOG	0.8785	0.096236559	0.93	0.006736559
MOD	ARB	TRAINS	TRAINS EPA MOU	2007	PM	1	0.055393258	0.89	0.006093258
MOD	ARB	TRAINS	TRAINS EPA MOU	2007	NOX		2.51745763	0.59	1.03215763
MOD	ARB	TRAINS	TRAINS EPA MOU	2007	TOG	0.8785	0.097777778	0.9	0.009777778
MOD	ARB	TRAINS	TRAINS EPA MOU	2008	PM	1	0.05627907	0.86	0.00787907
MOD	ARB	TRAINS	TRAINS EPA MOU	2008	NOX		2.55649123	0.57	1.09929123
MOD	ARB	TRAINS	TRAINS EPA MOU	2008	TOG	0.8785	0.099310345	0.87	0.012910345
MOD	ARB	TRAINS	TRAINS EPA MOU	2009	PM	1	0.057142857	0.84	0.009142857
MOD	ARB	TRAINS	TRAINS EPA MOU	2009	NOX		2.59709091	0.55	1.16869091
MOD	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	0.100833333	0.84	0.016133333
MOD	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	0.058170732	0.82	0.010470732
MOD	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		2.63962963	0.54	1.21422963
MOD	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	0.102560976	0.82	0.018460976
MOD	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	0.059873418	0.79	0.012573418
MOD	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		2.71924528	0.53	1.27804528
MOD	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	0.105625	0.8	0.021125
MOD	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	0.062666667	0.75	0.015666667
MOD	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		2.84509804	0.51	1.39409804
MOD	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	0.110526316	0.76	0.026526316
MOD	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	0.065633803	0.71	0.019033803
MOD	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		2.97770833	0.48	1.54840833
MOD	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	0.115616438	0.73	0.031216438
MOD	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.067536232	0.69	0.020936232
MOD	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		3.06978723	0.47	1.62698723
MOD	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	0.119285714	0.7	0.035785714
MOD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.833734509	0.083473781	0.951196876	0.004073781
MOD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.833924781	0.084403522	0.946642964	0.004503522
MOD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.834527083	0.0881955	0.925217268	0.0065955
MOD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.836538633	0.090053181	0.845056212	0.013953181
MOD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.83537348	0.091743193	0.84256932	0.014443193
MOD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.842749275	0.094154767	0.806119567	0.018254767
MOD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.843481226	0.095119004	0.806358318	0.018419004
MOD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.844290734	0.096495338	0.805220251	0.018795338
MOD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.843621711	0.097198085	0.805571428	0.018898085
MOD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.843307459	0.098474922	0.803250196	0.019374922
MOD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.843112641	0.099410812	0.803735517	0.019510812
MOD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.843546097	0.100310678	0.804500597	0.019610678

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 94 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
MOD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.843180872	0.102659582	0.80460098	0.020059582
MOD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.844839243	0.105001984	0.805699062	0.020401984
MOD	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.844599883	0.1062826	0.806340831	0.0205826
MOD	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.708085526	0.008675799	0.876	0.001075799
MOD	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.708085526	0.008675799	0.876	0.001075799
MOD	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.708085526	0.008675799	0.876	0.001075799
MOD	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.708085526	0.008675799	0.876	0.001075799
MOD	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.708085526	0.008675799	0.876	0.001075799
MOD	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.708085526	0.008675799	0.876	0.001075799
MOD	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.708085526	0.008675799	0.876	0.001075799
MOD	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.708085526	0.008675799	0.876	0.001075799
MOD	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.708085526	0.008675799	0.876	0.001075799
MOD	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.708085526	0.008675799	0.876	0.001075799
MOD	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.708085526	0.008675799	0.876	0.001075799
MOD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	CO		0.0022	0.5	0.0011
MOD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	NOX		0.0055	0.8	0.0011
MOD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO		0.0022	0.5	0.0011
MOD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	NOX		0.0055	0.8	0.0011
MOD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		0.0022	0.5	0.0011
MOD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	NOX		0.0055	0.8	0.0011
MOD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		0.0022	0.5	0.0011
MOD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX		0.0055	0.8	0.0011
MOD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		0.0022	0.5	0.0011
MOD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		0.0055	0.8	0.0011
MOD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.0022	0.5	0.0011
MOD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		0.005555556	0.72	0.001555556
MOD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.0022	0.5	0.0011
MOD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		0.0055	0.6	0.0022
MOD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.0022	0.5	0.0011
MOD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		0.0055	0.6	0.0022
MOD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.0022	0.5	0.0011
MOD	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		0.0055	0.6	0.0022
MOD	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.002452316	0.734	0.000652316
MOD	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.00248062	0.645	0.00088062
MOD	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.002522523	0.555	0.001122523
MOD	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.002360515	0.466	0.001260515
MOD	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.0024	0.375	0.0015
MOD	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.0024	0.375	0.0015
MOD	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.0024	0.375	0.0015
MOD	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.0024	0.375	0.0015
MOD	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.0024	0.375	0.0015
MOD	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.0024	0.375	0.0015
MOD	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2000	TOG	1	0.022173913	0.92	0.001773913
MOD	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2001	TOG	1	0.022173913	0.92	0.001773913
MOD	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2002	TOG	1	0.022120419	0.764	0.005220419
MOD	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2003	TOG	1	0.022076023	0.684	0.006976023
MOD	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2004	TOG	1	0.022076023	0.684	0.006976023
MOD	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2005	TOG	1	0.021969697	0.528	0.010369697
MOD	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2006	TOG	1	0.021969697	0.528	0.010369697

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 95 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
MOD	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2007	TOG	1	0.021969697	0.528	0.010369697
MOD	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2008	TOG	1	0.022260274	0.292	0.015760274
MOD	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2009	TOG	1	0.022260274	0.292	0.015760274
MOD	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2010	TOG	1	0.021969697	0.132	0.019069697
MOD	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2012	TOG	1	0.021969697	0.132	0.019069697
MOD	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2015	TOG	1	0.021969697	0.132	0.019069697
MOD	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2018	TOG	1	0.021969697	0.132	0.019069697
MOD	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2020	TOG	1	0.021969697	0.132	0.019069697
MOD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.003291139	0.395	0.001991139
MOD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.003291139	0.395	0.001991139
MOD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.003291139	0.395	0.001991139
MOD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.003291139	0.395	0.001991139
MOD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.003291139	0.395	0.001991139
MOD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.003291139	0.395	0.001991139
MOD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.003291139	0.395	0.001991139
MOD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.003291139	0.395	0.001991139
MOD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.003291139	0.395	0.001991139
MOD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.003291139	0.395	0.001991139
MOD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.003291139	0.395	0.001991139
MOD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.003291139	0.395	0.001991139
MOD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.003291139	0.395	0.001991139
MOD	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.003291139	0.395	0.001991139
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		0.050770812	0.973	0.001370812
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.005862458	0.887	0.000662458
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		0.051901336	0.973	0.001401336
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.005975197	0.887	0.000675197
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		0.052998909	0.917	0.004398909
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.006184012	0.663	0.002084012
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		0.054044944	0.89	0.005944944
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.00615942	0.552	0.00275942
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		0.055168539	0.89	0.006068539
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.00634058	0.552	0.00284058
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		0.0558753	0.834	0.0092753
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.006402439	0.328	0.004302439
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		0.056954436	0.834	0.009454436
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.006402439	0.328	0.004302439
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		0.057793765	0.834	0.009593765
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.006707317	0.328	0.004507317
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		0.058633094	0.834	0.009733094
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.006707317	0.328	0.004507317
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		0.059472422	0.834	0.009872422
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.007012195	0.328	0.004712195
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		0.060431655	0.834	0.010031655
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.007012195	0.328	0.004712195
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		0.062110312	0.834	0.010310312
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.007317073	0.328	0.004917073
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		0.064868106	0.834	0.010768106
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.007317073	0.328	0.004917073
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		0.067625899	0.834	0.011225899

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 96 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.007926829	0.328	0.005326829
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		0.06942446	0.834	0.01152446
MOD	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.008231707	0.328	0.005531707
MOJ	ARB	TRAINS	TRAINS EPA MOU	2000	NOX		45.4869121	0.990199112	0.445812121
MOJ	ARB	TRAINS	TRAINS EPA MOU	2001	NOX		46.1707947	0.950964787	2.26399474
MOJ	ARB	TRAINS	TRAINS EPA MOU	2002	NOX		46.8209528	0.891686254	5.07135276
MOJ	ARB	TRAINS	TRAINS EPA MOU	2003	NOX		47.5410661	0.822724503	8.42786613
MOJ	ARB	TRAINS	TRAINS EPA MOU	2004	NOX		48.2598158	0.763341082	11.4211158
MOJ	ARB	TRAINS	TRAINS EPA MOU	2005	PM	1	1.17208649	0.960509322	0.04628649
MOJ	ARB	TRAINS	TRAINS EPA MOU	2005	NOX		48.9797992	0.684261687	15.4647992
MOJ	ARB	TRAINS	TRAINS EPA MOU	2005	TOG	0.8785	2.60113636	0.960541721	0.102636364
MOJ	ARB	TRAINS	TRAINS EPA MOU	2006	PM	1	1.19024813	0.921152463	0.093848134
MOJ	ARB	TRAINS	TRAINS EPA MOU	2006	NOX		49.7359096	0.634629993	18.1720096
MOJ	ARB	TRAINS	TRAINS EPA MOU	2006	TOG	0.8785	2.64120886	0.931050942	0.182108863
MOJ	ARB	TRAINS	TRAINS EPA MOU	2007	PM	1	1.20827448	0.891436523	0.131174478
MOJ	ARB	TRAINS	TRAINS EPA MOU	2007	NOX		50.4906856	0.594804758	20.4585856
MOJ	ARB	TRAINS	TRAINS EPA MOU	2007	TOG	0.8785	2.68117687	0.901357917	0.264476871
MOJ	ARB	TRAINS	TRAINS EPA MOU	2008	PM	1	1.22629465	0.861701547	0.169594654
MOJ	ARB	TRAINS	TRAINS EPA MOU	2008	NOX		51.2467937	0.574660342	21.7972937
MOJ	ARB	TRAINS	TRAINS EPA MOU	2008	TOG	0.8785	2.72134764	0.871810703	0.348847643
MOJ	ARB	TRAINS	TRAINS EPA MOU	2009	PM	1	1.24532646	0.841947901	0.19682646
MOJ	ARB	TRAINS	TRAINS EPA MOU	2009	NOX		52.0367166	0.55451039	23.1818166
MOJ	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	2.76306824	0.842071132	0.436368238
MOJ	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	1.26504065	0.82202892	0.22514065
MOJ	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		52.8628425	0.544223478	24.0936425
MOJ	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	2.80699187	0.82216127	0.49919187
MOJ	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	1.30260167	0.792107076	0.27080167
MOJ	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		54.4349678	0.533677178	25.3842678
MOJ	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	2.89036842	0.802250669	0.571568421
MOJ	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	1.36196957	0.752292875	0.337369565
MOJ	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		56.9155493	0.51297581	27.7192493
MOJ	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	3.02188596	0.762437771	0.717885965
MOJ	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	1.42465263	0.712313988	0.409852635
MOJ	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		59.5361051	0.482715488	30.7971051
MOJ	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	3.16100457	0.732330483	0.846104566
MOJ	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	1.46824588	0.692254626	0.451845877
MOJ	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		61.3526167	0.472509594	32.3629167
MOJ	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	3.25737079	0.702529786	0.968970787
MOJ	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.847087161	3.82404163	0.955219726	0.171241634
MOJ	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.846929711	3.91817448	0.951871852	0.188574483
MOJ	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.84372297	4.00683018	0.93061094	0.278030182
MOJ	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.84791278	4.09101446	0.860691165	0.56991446
MOJ	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.847321416	4.17641345	0.857434266	0.595413447
MOJ	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.85207457	4.32130488	0.795338468	0.884404876
MOJ	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.85205152	4.405632	0.795754163	0.899831996
MOJ	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.851974267	4.4917353	0.795772627	0.917335299
MOJ	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.851924445	4.57691017	0.79566779	0.93521017
MOJ	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.851887226	4.65894843	0.795952146	0.950648426
MOJ	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.851844833	4.74571105	0.796045094	0.96791105

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 97 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
MOJ	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.851832551	5.03371647	0.796747298	1.02311647
MOJ	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.851820647	5.46211065	0.798207923	1.10221065
MOJ	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.851832793	5.89301505	0.799132525	1.18371505
MOJ	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.851841323	6.17809527	0.799890546	1.23629527
MOJ	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.713184673	0.349315068	0.876	0.043315068
MOJ	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.713184673	0.349315068	0.876	0.043315068
MOJ	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.713184673	0.349315068	0.876	0.043315068
MOJ	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.713184673	0.349315068	0.876	0.043315068
MOJ	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.713184673	0.349315068	0.876	0.043315068
MOJ	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.713184673	0.349315068	0.876	0.043315068
MOJ	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.713184673	0.349315068	0.876	0.043315068
MOJ	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.713184673	0.349315068	0.876	0.043315068
MOJ	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.713184673	0.349315068	0.876	0.043315068
MOJ	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.713184673	0.349315068	0.876	0.043315068
MOJ	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.713184673	0.349315068	0.876	0.043315068
MOJ	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2012	TOG	0.986892952	0.050442454	0.900035509	0.005042454
MOJ	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2015	TOG	0.986886383	0.052215872	0.90010946	0.005215872
MOJ	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2018	TOG	0.986869592	0.054412706	0.900524957	0.005412706
MOJ	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2020	TOG	0.986868056	0.055958851	0.900661811	0.005558851
MOJ	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.116076294	0.734	0.030876294
MOJ	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.118604651	0.645	0.042104651
MOJ	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.120540541	0.555	0.053640541
MOJ	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.122532189	0.466	0.065432189
MOJ	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.125066667	0.375	0.078166667
MOJ	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.126933333	0.375	0.079333333
MOJ	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.1312	0.375	0.082
MOJ	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.1376	0.375	0.086
MOJ	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.1448	0.375	0.0905
MOJ	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.149066667	0.375	0.093166667
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2000	NOX	43.5734133	0.997890612	0.091913256	
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2000	TOG	0.101117299	14.5533432	0.999467941	0.007743243
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2001	NOX	45.069647	0.997913297	0.094046978	
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2001	TOG	0.100860354	15.1181973	0.99947763	0.007897297
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2002	NOX	45.9482	0.995005245	0.2295	
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2002	TOG	0.100661384	15.4470967	0.998860844	0.017596651
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2003	NOX	46.9559	0.993574822	0.3017	
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2003	TOG	0.100487618	15.8231552	0.998555582	0.022855247
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2004	NOX	47.8090545	0.993552381	0.308254545	
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2004	TOG	0.100387087	16.1368044	0.998555822	0.023304425
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2005	NOX	48.6136276	0.990600833	0.456927614	
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2005	TOG	0.100237564	16.4317947	0.997931162	0.033994722
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2006	NOX	49.5926271	0.99059483	0.466427078	
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2006	TOG	0.100141525	16.7885919	0.997939561	0.034591869
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2007	NOX	50.2311606	0.990524595	0.47596059	
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2007	TOG	0.099992109	17.0422317	0.997932685	0.035231669
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2008	NOX	50.7772187	0.985948055	0.71351866	
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2008	TOG	0.09977935	17.2554295	0.996990544	0.051929453
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2009	NOX	51.4053392	0.985848956	0.727439234	
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2009	TOG	0.099657024	17.5004695	0.996984682	0.052769489

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 98 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2010	NOX		52.1222562	0.982760604	0.898556204
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2010	TOG	0.099455829	17.7802402	0.996370118	0.064540167
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2012	NOX		53.6801219	0.98289829	0.918021898
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2012	TOG	0.099143685	18.4099506	0.996423096	0.065850628
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2015	NOX		56.0086204	0.983087953	0.947220438
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2015	TOG	0.098709451	19.3521163	0.996495664	0.067816318
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2018	NOX		57.5870365	0.983045898	0.976336496
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2018	TOG	0.098344997	20.0175728	0.996519418	0.069672803
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2020	NOX		58.6386022	0.983017975	0.99580219
MOJ	COMBINED	ARB_C107	NON-UTIL I.C. ENGINES- GASEOUS	2020	TOG	0.098113768	20.4609741	0.996536135	0.070874059
MOJ	COMBINED	ARB_C125	COGENERATION	2002	NOX		0.001409869	0.993	9.8691E-06
MOJ	COMBINED	ARB_C125	COGENERATION	2003	NOX		0.001412714	0.991	0.000012714
MOJ	COMBINED	ARB_C125	COGENERATION	2004	NOX		0.001412714	0.991	0.000012714
MOJ	COMBINED	ARB_C125	COGENERATION	2005	NOX		0.001321138	0.984	0.000021138
MOJ	COMBINED	ARB_C125	COGENERATION	2006	NOX		0.001321138	0.984	0.000021138
MOJ	COMBINED	ARB_C125	COGENERATION	2007	NOX		0.001321138	0.984	0.000021138
MOJ	COMBINED	ARB_C125	COGENERATION	2008	NOX		0.001333333	0.975	0.000033333
MOJ	COMBINED	ARB_C125	COGENERATION	2009	NOX		0.001333333	0.975	0.000033333
MOJ	COMBINED	ARB_C125	COGENERATION	2010	NOX		0.001342975	0.968	0.000042975
MOJ	COMBINED	ARB_C125	COGENERATION	2012	NOX		0.001342975	0.968	0.000042975
MOJ	COMBINED	ARB_C125	COGENERATION	2015	NOX		0.001342975	0.968	0.000042975
MOJ	COMBINED	ARB_C125	COGENERATION	2018	NOX		0.001342975	0.968	0.000042975
MOJ	COMBINED	ARB_C125	COGENERATION	2020	NOX		0.001342975	0.968	0.000042975
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2000	NOX		0.712832432	0.998691933	0.000932432
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2000	TOG	0.900233333	0.001950163	0.923	0.000150163
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2001	NOX		0.717072973	0.998643133	0.000972973
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2001	TOG	0.901373684	0.002058505	0.923	0.000158505
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2002	NOX		0.715697129	0.996930085	0.002197129
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2002	TOG	0.902338889	0.002173913	0.828	0.000373913
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2003	NOX		0.714450633	0.995870067	0.002950633
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2003	TOG	0.902338889	0.002307692	0.78	0.000507692
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2004	NOX		0.714256962	0.995720081	0.003056962
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2004	TOG	0.903368421	0.002435897	0.78	0.000535897
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2005	NOX		0.712078602	0.993710523	0.004478602
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2005	TOG	0.903417647	0.002481752	0.685	0.000781752
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2006	NOX		0.712049215	0.993470654	0.004649215
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2006	TOG	0.90402	0.002919708	0.685	0.000919708
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2007	NOX		0.709705136	0.993088488	0.004905136
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2007	TOG	0.904871429	0.003065693	0.685	0.000965693
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2008	NOX		0.710968142	0.989495814	0.007468142
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2008	TOG	0.903078947	0.003505535	0.542	0.001605535
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2009	NOX		0.709676106	0.989042739	0.007776106
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2009	TOG	0.90402	0.003690037	0.542	0.001690037
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2010	NOX		0.710638994	0.986576878	0.009538994
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2010	TOG	0.905647059	0.003811659	0.446	0.002111659
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2012	NOX		0.715425786	0.985287382	0.010525786
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2012	TOG	0.905915	0.004484305	0.446	0.002484305
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2015	NOX		0.721451153	0.983434564	0.011951153
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2015	TOG	0.907376	0.005605381	0.446	0.003105381

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 99 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2018	NOX		0.731144025	0.98065494	0.014144025
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2018	TOG	0.909196875	0.007174888	0.446	0.003974888
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2020	NOX		0.736969392	0.97887376	0.015569392
MOJ	COMBINED	ARB_C127	NON-UTIL I.C. ENGINES- LIQUID	2020	TOG	0.909740541	0.008295964	0.446	0.004595964
MOJ	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.143930019	0.395331013	0.087030019
MOJ	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.147975626	0.395335378	0.089475626
MOJ	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.151768069	0.395340077	0.091768069
MOJ	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.155565537	0.395331776	0.094065537
MOJ	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.15935798	0.395336337	0.09635798
MOJ	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.162902284	0.395329019	0.098502284
MOJ	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.165428903	0.395335994	0.100028903
MOJ	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.168208688	0.395342243	0.101708688
MOJ	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.171246663	0.395336171	0.103546663
MOJ	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.174026447	0.395342209	0.105226447
MOJ	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.179591042	0.395342659	0.108591042
MOJ	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.188694915	0.395347167	0.114094915
MOJ	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.198305117	0.395350364	0.119905117
MOJ	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.204624179	0.395358946	0.123724179
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		3.22302158	0.973	0.087021583
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.356708005	0.887	0.040308005
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		3.29445015	0.973	0.088950154
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.364599775	0.887	0.041199775
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		3.36608506	0.917	0.27938506
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.37254902	0.663	0.12554902
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		3.43662921	0.89	0.378029213
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.380615942	0.552	0.170515942
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		3.50820225	0.89	0.385902247
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.388405797	0.552	0.174005797
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		3.57961631	0.834	0.594216307
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.396646341	0.328	0.266546341
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		3.65083933	0.834	0.606039329
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.404573171	0.328	0.271873171
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		3.72182254	0.834	0.617822542
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.411890244	0.328	0.276790244
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		3.79316547	0.834	0.629665468
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.420121951	0.328	0.282321951
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		3.86450839	0.834	0.641508393
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.428353659	0.328	0.287853659
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		3.93561151	0.834	0.653311511
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.435670732	0.328	0.292770732
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		4.17805755	0.834	0.693557554
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.462804878	0.328	0.311004878
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		4.54148681	0.834	0.753886811
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.503353659	0.328	0.338253659
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		4.90527578	0.834	0.814275779
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.543597561	0.328	0.365297561
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		5.14796163	0.834	0.854561631
MOJ	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.570426829	0.328	0.383326829
MPA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.840427678	0.134279227	0.952492823	0.006379227

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 100 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
MPA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.840330934	0.133131502	0.949437199	0.006731502
MPA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.840565906	0.141503726	0.928597459	0.010103726
MPA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.843662401	0.146005901	0.861609013	0.020205901
MPA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.842348445	0.150957473	0.851895555	0.022357473
MPA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.848809866	0.157228157	0.805835305	0.030528157
MPA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.848262171	0.160116788	0.805661928	0.031116788
MPA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.848844681	0.163263368	0.806059568	0.031663368
MPA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.848508744	0.166058926	0.805738079	0.032258926
MPA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.848459001	0.168728188	0.80662278	0.032628188
MPA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.848377496	0.171555443	0.805570476	0.033355443
MPA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.848255827	0.177152987	0.808905358	0.033852987
MPA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.848106582	0.183813206	0.810061493	0.034913206
MPA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.848561614	0.190111955	0.808470989	0.036411955
MPA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.848593253	0.194235859	0.808810489	0.037135859
MPA	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.711973984	0.014041096	0.876	0.001741096
MPA	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.711973984	0.014041096	0.876	0.001741096
MPA	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.711973984	0.014041096	0.876	0.001741096
MPA	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.711973984	0.014041096	0.876	0.001741096
MPA	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.711973984	0.014041096	0.876	0.001741096
MPA	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.711973984	0.014041096	0.876	0.001741096
MPA	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.711973984	0.014041096	0.876	0.001741096
MPA	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.711973984	0.014041096	0.876	0.001741096
MPA	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.711973984	0.014041096	0.876	0.001741096
MPA	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.711973984	0.014041096	0.876	0.001741096
MPA	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.711973984	0.014041096	0.876	0.001741096
MPA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		0.003298351	0.667	0.001098351
MPA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		0.003298351	0.667	0.001098351
MPA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX		0.008914286	0.875	0.001114286
MPA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		0.003298351	0.667	0.001098351
MPA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		0.008914286	0.875	0.001114286
MPA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.003298351	0.667	0.001098351
MPA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		0.0088448485	0.825	0.001548485
MPA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.003298351	0.667	0.001098351
MPA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		0.0088	0.75	0.0022
MPA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.003426124	0.467	0.001826124
MPA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		0.008888889	0.675	0.002888889
MPA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.75	0.001246883	0.401	0.000746883
MPA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.003303303	0.333	0.002203303
MPA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		0.0088	0.625	0.0033
MPA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.004768392	0.734	0.001268392
MPA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.004806202	0.645	0.001706202
MPA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.004864865	0.555	0.002164865
MPA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.00472103	0.466	0.00252103
MPA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.0048	0.375	0.003
MPA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.0048	0.375	0.003
MPA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.0048	0.375	0.003
MPA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.0056	0.375	0.0035
MPA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.0056	0.375	0.0035
MPA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.0056	0.375	0.0035

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 101 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
MPA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.00556962	0.395	0.00336962
MPA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.006329114	0.395	0.003829114
MPA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.006329114	0.395	0.003829114
MPA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.006329114	0.395	0.003829114
MPA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.006329114	0.395	0.003829114
MPA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.006329114	0.395	0.003829114
MPA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.006329114	0.395	0.003829114
MPA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.006329114	0.395	0.003829114
MPA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.006329114	0.395	0.003829114
MPA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.006329114	0.395	0.003829114
MPA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.006329114	0.395	0.003829114
MPA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.007341772	0.395	0.0044441772
MPA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.007341772	0.395	0.0044441772
MPA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.007341772	0.395	0.0044441772
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		0.115313464	0.973	0.003113464
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.01307779	0.887	0.00147779
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		0.117574512	0.973	0.003174512
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.013303269	0.887	0.001503269
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		0.120065431	0.917	0.009965431
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.01372549	0.663	0.00462549
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		0.122247191	0.89	0.013447191
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.013768116	0.552	0.006168116
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		0.124494382	0.89	0.013694382
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.014130435	0.552	0.006330435
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		0.126978417	0.834	0.021078417
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.014329268	0.328	0.009629268
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		0.128896882	0.834	0.021396882
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.014634146	0.328	0.009834146
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		0.130695444	0.834	0.021695444
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.014939024	0.328	0.010039024
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		0.132853717	0.834	0.022053717
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.014939024	0.328	0.010039024
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		0.134772182	0.834	0.022372182
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.01554878	0.328	0.01044878
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		0.136930456	0.834	0.022730456
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.01554878	0.328	0.01044878
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		0.140647482	0.834	0.023347482
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.016158537	0.328	0.010858537
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		0.14676259	0.834	0.02436259
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.016768293	0.328	0.011268293
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		0.152997602	0.834	0.025397602
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.017378049	0.328	0.011678049
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		0.157434053	0.834	0.026134053
MPA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.017682927	0.328	0.011882927
NCU	ARB	TRAINS	TRAINS EPA MOU	2000	NOX		0.475656566	0.99	0.004756566
NCU	ARB	TRAINS	TRAINS EPA MOU	2001	NOX		0.483052632	0.95	0.024152632
NCU	ARB	TRAINS	TRAINS EPA MOU	2002	NOX		0.49011236	0.89	0.05391236
NCU	ARB	TRAINS	TRAINS EPA MOU	2003	NOX		0.49804878	0.82	0.08964878
NCU	ARB	TRAINS	TRAINS EPA MOU	2004	NOX		0.505789474	0.76	0.121389474

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 102 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
NCU	ARB	TRAINS	TRAINS EPA MOU	2005	PM	1	0.03625	0.96	0.00145
NCU	ARB	TRAINS	TRAINS EPA MOU	2005	NOX		0.513676471	0.68	0.164376471
NCU	ARB	TRAINS	TRAINS EPA MOU	2005	TOG	0.8785	0.021458333	0.96	0.000858333
NCU	ARB	TRAINS	TRAINS EPA MOU	2006	PM	1	0.036847826	0.92	0.002947826
NCU	ARB	TRAINS	TRAINS EPA MOU	2006	NOX		0.521904762	0.63	0.193104762
NCU	ARB	TRAINS	TRAINS EPA MOU	2006	TOG	0.8785	0.021827957	0.93	0.001527957
NCU	ARB	TRAINS	TRAINS EPA MOU	2007	PM	1	0.03741573	0.89	0.00411573
NCU	ARB	TRAINS	TRAINS EPA MOU	2007	NOX		0.53	0.59	0.2173
NCU	ARB	TRAINS	TRAINS EPA MOU	2007	TOG	0.8785	0.022222222	0.9	0.002222222
NCU	ARB	TRAINS	TRAINS EPA MOU	2008	PM	1	0.037906977	0.86	0.005306977
NCU	ARB	TRAINS	TRAINS EPA MOU	2008	NOX		0.538245614	0.57	0.231445614
NCU	ARB	TRAINS	TRAINS EPA MOU	2008	TOG	0.8785	0.022528736	0.87	0.002928736
NCU	ARB	TRAINS	TRAINS EPA MOU	2009	PM	1	0.038571429	0.84	0.006171429
NCU	ARB	TRAINS	TRAINS EPA MOU	2009	NOX		0.546909091	0.55	0.246109091
NCU	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	0.022857143	0.84	0.003657143
NCU	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	0.039146341	0.82	0.007046341
NCU	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		0.555740741	0.54	0.255640741
NCU	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	0.023292683	0.82	0.004192683
NCU	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	0.040379747	0.79	0.008479747
NCU	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		0.57245283	0.53	0.26905283
NCU	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	0.024	0.8	0.0048
NCU	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	0.042266667	0.75	0.010566667
NCU	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		0.599019608	0.51	0.293519608
NCU	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	0.025	0.76	0.006
NCU	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	0.044225352	0.71	0.012825352
NCU	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		0.626875	0.48	0.325975
NCU	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	0.026164384	0.73	0.007064384
NCU	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.045652174	0.69	0.014152174
NCU	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		0.646382979	0.47	0.342582979
NCU	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	0.027	0.7	0.0081
NCU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.844228416	1.46926552	0.95449051	0.066865525
NCU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.844344726	1.48100105	0.951248482	0.07220105
NCU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.841515899	1.5081616	0.929608606	0.106161597
NCU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.845658608	1.52819416	0.859380328	0.214894161
NCU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.845083473	1.54823618	0.856264709	0.222536178
NCU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.850459613	1.55838469	0.812700489	0.291884691
NCU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.850517872	1.57123546	0.812990815	0.293835464
NCU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.850367841	1.58608375	0.812441336	0.297483748
NCU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.850285575	1.59827639	0.812375138	0.299876387
NCU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.850183965	1.6133129	0.811373913	0.304312899
NCU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.850115728	1.62725394	0.810752377	0.30795394
NCU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.850180945	1.64692615	0.811268918	0.310826155
NCU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.850108819	1.67467453	0.8112024	0.316174532
NCU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.85008835	1.70568577	0.81122797	0.321985765
NCU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.850095978	1.72597686	0.810961045	0.326276863
NCU	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.712565627	0.150114155	0.876	0.018614155
NCU	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.712565627	0.150114155	0.876	0.018614155
NCU	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.712565627	0.150114155	0.876	0.018614155
NCU	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.712565627	0.150114155	0.876	0.018614155

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 103 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
NCU	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.712565627	0.150114155	0.876	0.018614155
NCU	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.712565627	0.150114155	0.876	0.018614155
NCU	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.712565627	0.150114155	0.876	0.018614155
NCU	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.712565627	0.150114155	0.876	0.018614155
NCU	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.712565627	0.150114155	0.876	0.018614155
NCU	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.712565627	0.150114155	0.876	0.018614155
NCU	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.712565627	0.150114155	0.876	0.018614155
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2005	CO		0.031129412	0.963718821	0.001129412
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	CO		0.031129412	0.928382464	0.002229412
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	NOX		0.091312246	0.975772736	0.002212246
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	TOG	0.700872973	0.012214286	0.90877193	0.001114286
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO		0.031135912	0.892859678	0.003335912
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	NOX		0.091292138	0.938744582	0.005592138
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	TOG	0.700872973	0.012214286	0.90877193	0.001114286
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		0.031170595	0.856576524	0.004470595
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	NOX		0.091211501	0.902298491	0.008911501
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	TOG	0.699543564	0.012314286	0.820185615	0.002214286
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		0.03105679	0.821076483	0.00555679
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX		0.091220401	0.878093045	0.011120401
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	TOG	0.700870787	0.0122	0.729508197	0.0033
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		0.031090814	0.749417505	0.007790814
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	PM	0.735311765	0.004498351	0.755832556	0.001098351
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		0.091260113	0.817443647	0.016660113
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	TOG	0.700870787	0.0122	0.729508197	0.0033
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.031094388	0.678579047	0.009994388
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	PM	0.73277931	0.004465017	0.649493536	0.001565017
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		0.091414883	0.753706596	0.022514883
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	TOG	0.698814474	0.012289744	0.618401836	0.004689744
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.031167601	0.571105879	0.013367601
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	PM	0.7273	0.003298351	0.667	0.001098351
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		0.09128511	0.658376812	0.03118511
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	TOG	0.69462	0.011	0.5	0.0055
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.031157523	0.50710065	0.015357523
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	PM	0.7273	0.003426124	0.467	0.001826124
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		0.091217959	0.599662618	0.036517959
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.695222449	0.011141176	0.439809926	0.006241176
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.031229412	0.464305896	0.016729412
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	PM	0.7273	0.003303303	0.333	0.002203303
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		0.091311419	0.56071848	0.040111419
NCU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	TOG	0.69585	0.011	0.4	0.0066
NCU	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2012	TOG	0.99825	0.002549102	0.941508104	0.000149102
NCU	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2015	TOG	0.99825	0.002549102	0.941508104	0.000149102
NCU	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2018	TOG	0.99824	0.002649102	0.943716094	0.000149102
NCU	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2020	TOG	0.99824	0.002649102	0.943716094	0.000149102
NCU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.040871935	0.734	0.010871935
NCU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.041395349	0.645	0.014695349
NCU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.041261261	0.555	0.018361261
NCU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.042060086	0.466	0.022460086
NCU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.0424	0.375	0.0265

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 104 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
NCU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.0424	0.375	0.0265
NCU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.043733333	0.375	0.027333333
NCU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.045333333	0.375	0.028333333
NCU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.048266667	0.375	0.030166667
NCU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.049333333	0.375	0.030833333
NCU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.052405063	0.395	0.031705063
NCU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.052405063	0.395	0.031705063
NCU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.053164557	0.395	0.032164557
NCU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.054936709	0.395	0.033236709
NCU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.055696203	0.395	0.033696203
NCU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.056455696	0.395	0.034155696
NCU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.056455696	0.395	0.034155696
NCU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.05721519	0.395	0.03461519
NCU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.057974684	0.395	0.035074684
NCU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.057974684	0.395	0.035074684
NCU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.059493671	0.395	0.035993671
NCU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.062278481	0.395	0.037678481
NCU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.066075949	0.395	0.039975949
NCU	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.067594937	0.395	0.040894937
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		1.22631038	0.973	0.03311038
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.130439684	0.887	0.014739684
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		1.25066804	0.973	0.033768037
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.132919955	0.887	0.015019955
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		1.27589967	0.917	0.105899673
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.135595777	0.663	0.045695777
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		1.30044944	0.89	0.143049438
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.138586957	0.552	0.062086957
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		1.32516854	0.89	0.145768539
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.140942029	0.552	0.063142029
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		1.35095923	0.834	0.224259233
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.143902439	0.328	0.096702439
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		1.37074341	0.834	0.227543405
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.146036585	0.328	0.098136585
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		1.39148681	0.834	0.230986811
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.148170732	0.328	0.099570732
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		1.41270983	0.834	0.234509832
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.150304878	0.328	0.101004878
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		1.43405276	0.834	0.238052758
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.152439024	0.328	0.102439024
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		1.45515588	0.834	0.241555875
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.155182927	0.328	0.104282927
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		1.49760192	0.834	0.248601918
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.15945122	0.328	0.10715122
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		1.56414868	0.834	0.259648681
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.166768293	0.328	0.112068293
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		1.63045564	0.834	0.270655635
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.173780488	0.328	0.116780488
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		1.67625899	0.834	0.278258993
NCU	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.178353659	0.328	0.119853659

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 105 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
NSI	ARB	TRAINS	TRAINS EPA MOU	2000	NOX		4.12070707	0.99	0.041207071
NSI	ARB	TRAINS	TRAINS EPA MOU	2001	NOX		4.18526316	0.95	0.209263158
NSI	ARB	TRAINS	TRAINS EPA MOU	2002	NOX		4.24662921	0.89	0.467129213
NSI	ARB	TRAINS	TRAINS EPA MOU	2003	NOX		4.31439024	0.82	0.776590244
NSI	ARB	TRAINS	TRAINS EPA MOU	2004	NOX		4.38236842	0.76	1.05176842
NSI	ARB	TRAINS	TRAINS EPA MOU	2005	PM	1	0.094895833	0.96	0.003795833
NSI	ARB	TRAINS	TRAINS EPA MOU	2005	NOX		4.45014706	0.68	1.42404706
NSI	ARB	TRAINS	TRAINS EPA MOU	2005	TOG	0.8785	0.169375	0.96	0.006775
NSI	ARB	TRAINS	TRAINS EPA MOU	2006	PM	1	0.096413043	0.92	0.007713043
NSI	ARB	TRAINS	TRAINS EPA MOU	2006	NOX		4.52111111	0.63	1.67281111
NSI	ARB	TRAINS	TRAINS EPA MOU	2006	TOG	0.8785	0.171935484	0.93	0.012035484
NSI	ARB	TRAINS	TRAINS EPA MOU	2007	PM	1	0.097977528	0.89	0.010777528
NSI	ARB	TRAINS	TRAINS EPA MOU	2007	NOX		4.59220339	0.59	1.88280339
NSI	ARB	TRAINS	TRAINS EPA MOU	2007	TOG	0.8785	0.174666667	0.9	0.017466667
NSI	ARB	TRAINS	TRAINS EPA MOU	2008	PM	1	0.099418605	0.86	0.013918605
NSI	ARB	TRAINS	TRAINS EPA MOU	2008	NOX		4.66333333	0.57	2.00523333
NSI	ARB	TRAINS	TRAINS EPA MOU	2008	TOG	0.8785	0.177356322	0.87	0.023056322
NSI	ARB	TRAINS	TRAINS EPA MOU	2009	PM	1	0.101071429	0.84	0.016171429
NSI	ARB	TRAINS	TRAINS EPA MOU	2009	NOX		4.73763636	0.55	2.13193636
NSI	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	0.180238095	0.84	0.028838095
NSI	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	0.102804878	0.82	0.018504878
NSI	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		4.81518519	0.54	2.21498519
NSI	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	0.183170732	0.82	0.032970732
NSI	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	0.105696203	0.79	0.022196203
NSI	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		4.96037736	0.53	2.33137736
NSI	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	0.18875	0.8	0.03775
NSI	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	0.110666667	0.75	0.027666667
NSI	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		5.18960784	0.51	2.54290784
NSI	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	0.197368421	0.76	0.047368421
NSI	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	0.115915493	0.71	0.033615493
NSI	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		5.431875	0.48	2.824575
NSI	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	0.206575342	0.73	0.055775342
NSI	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.11942029	0.69	0.03702029
NSI	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		5.59978723	0.47	2.96788723
NSI	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	0.213	0.7	0.0639
NSI	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.843364347	1.01220773	0.954053177	0.046507729
NSI	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.843641024	1.03741474	0.950921523	0.050914735
NSI	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.841085107	1.07181479	0.929078429	0.076014789
NSI	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.845231466	1.09972926	0.858847752	0.155229256
NSI	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.844658662	1.12849123	0.855744353	0.162791233
NSI	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.849457141	1.14660859	0.812134156	0.215408591
NSI	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.849370502	1.16849731	0.811469561	0.22029731
NSI	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.849350254	1.18803657	0.811507007	0.223936568
NSI	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.849406932	1.20939913	0.811146604	0.228399133
NSI	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.849244773	1.22959813	0.811403317	0.231898129
NSI	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.849132459	1.25119723	0.810583639	0.236997226
NSI	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.849268982	1.28342655	0.809863254	0.244026547
NSI	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.849221614	1.32803533	0.810671206	0.251435327
NSI	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.849278776	1.37176153	0.810272032	0.260261528

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 106 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
NSI	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.849303009	1.3987142	0.810172656	0.265514201
NSI	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.714117984	0.099657534	0.876	0.012357534
NSI	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.714117984	0.099657534	0.876	0.012357534
NSI	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.714117984	0.099657534	0.876	0.012357534
NSI	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.714117984	0.099657534	0.876	0.012357534
NSI	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.714117984	0.099657534	0.876	0.012357534
NSI	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.714117984	0.099657534	0.876	0.012357534
NSI	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.714117984	0.099657534	0.876	0.012357534
NSI	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.714117984	0.099657534	0.876	0.012357534
NSI	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.714117984	0.099657534	0.876	0.012357534
NSI	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.714117984	0.099657534	0.876	0.012357534
NSI	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.714117984	0.099657534	0.876	0.012357534
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2005	CO		0.0279	0.584229391	0.0116
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2005	PM	0.64878	0.0045	0.555555556	0.002
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2005	NOX		0.079953943	0.662881629	0.026953943
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2005	TOG	0.672255224	0.010345427	0.647629123	0.003645427
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	CO		0.0279	0.584229391	0.0116
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	PM	0.64878	0.0045	0.555555556	0.002
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	NOX		0.079983975	0.637627725	0.028983975
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	TOG	0.670984211	0.010372662	0.549521432	0.004672662
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO		0.027971429	0.550561798	0.012571429
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	PM	0.64878	0.0045	0.555555556	0.002
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	NOX		0.079853093	0.612374524	0.030953093
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	TOG	0.670984211	0.010372662	0.549521432	0.004672662
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		0.027861538	0.516841524	0.013461538
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	PM	0.7015	0.004	0.5	0.002
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	NOX		0.079856442	0.581042669	0.033456442
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	TOG	0.670984211	0.010372662	0.549521432	0.004672662
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		0.027941667	0.483149418	0.014441667
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	PM	0.7015	0.004	0.5	0.002
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX		0.079937577	0.556684371	0.035437577
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	TOG	0.670984211	0.010372662	0.549521432	0.004672662
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		0.027941667	0.483149418	0.014441667
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	PM	0.7015	0.004	0.5	0.002
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		0.079959091	0.525268603	0.037959091
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	TOG	0.66917234	0.010434234	0.450440338	0.005734234
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.02776762	0.432158025	0.01576762
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	PM	0.7015	0.004	0.4	0.0024
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		0.079773114	0.487632965	0.040873114
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	TOG	0.668211628	0.01045	0.411483254	0.00615
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.028115616	0.355674232	0.018115616
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	PM	0.7015	0.004	0.25	0.003
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		0.07992033	0.431679901	0.04542033
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	TOG	0.666381081	0.010509309	0.352068808	0.006809309
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.028016409	0.335517657	0.018616409
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	PM	0.7015	0.004	0.25	0.003
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		0.079729434	0.390069241	0.048629434
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.66332	0.010222556	0.293468667	0.007222556
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.027942005	0.322095718	0.018942005

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 107 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	PM	0.7015	0.004	0.25	0.003
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		0.079755494	0.362357482	0.050855494
NSI	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	TOG	0.660830769	0.010209009	0.254677021	0.007609009
NSI	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.033787466	0.734	0.008987466
NSI	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.034418605	0.645	0.012218605
NSI	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.035495495	0.555	0.015795495
NSI	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.035407725	0.466	0.018907725
NSI	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.036	0.375	0.0225
NSI	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.036	0.375	0.0225
NSI	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.036533333	0.375	0.022833333
NSI	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.037066667	0.375	0.023166667
NSI	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.038666667	0.375	0.024166667
NSI	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.04	0.375	0.025
NSI	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.043544304	0.395	0.026344304
NSI	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.044303797	0.395	0.026803797
NSI	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.045063291	0.395	0.027263291
NSI	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.045822785	0.395	0.027722785
NSI	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.045822785	0.395	0.027722785
NSI	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.046582278	0.395	0.028182278
NSI	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.048101266	0.395	0.029101266
NSI	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.048101266	0.395	0.029101266
NSI	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.048860759	0.395	0.029560759
NSI	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.048860759	0.395	0.029560759
NSI	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.049620253	0.395	0.030020253
NSI	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.050379747	0.395	0.030479747
NSI	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.052911392	0.395	0.032011392
NSI	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.05443038	0.395	0.03293038
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		0.975847893	0.973	0.026347893
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.109244645	0.887	0.012344645
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		0.995375128	0.973	0.026875128
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.111499436	0.887	0.012599436
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		1.01515812	0.917	0.084258124
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.11372549	0.663	0.03832549
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		1.03438202	0.89	0.113782022
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.11576087	0.552	0.05186087
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		1.05426966	0.89	0.115969663
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.118115942	0.552	0.052915942
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		1.07458034	0.834	0.178380336
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.120426829	0.328	0.080926829
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		1.09064748	0.834	0.181047482
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.122560976	0.328	0.082360976
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		1.10707434	0.834	0.183774341
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.124085366	0.328	0.083385366
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		1.12398082	0.834	0.186580815
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.125609756	0.328	0.084409756
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		1.14076739	0.834	0.189367386
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.12804878	0.328	0.08604878
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		1.15791367	0.834	0.192213669
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.129878049	0.328	0.087278049

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 108 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		1.19148681	0.834	0.197786811
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.133231707	0.328	0.089531707
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		1.2442446	0.834	0.206544604
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.139329268	0.328	0.093629268
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		1.29724221	0.834	0.215342206
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.145731707	0.328	0.097931707
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		1.33381295	0.834	0.22141295
NSI	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.149695122	0.328	0.100595122
PLA	ARB	TRAINS	TRAINS EPA MOU	2000	NOX		9.54839192	0.992397472	0.072591919
PLA	ARB	TRAINS	TRAINS EPA MOU	2001	NOX		9.62464737	0.961697571	0.368647368
PLA	ARB	TRAINS	TRAINS EPA MOU	2002	NOX		9.69805205	0.910574614	0.867252052
PLA	ARB	TRAINS	TRAINS EPA MOU	2003	NOX		9.78285894	0.853462168	1.43355894
PLA	ARB	TRAINS	TRAINS EPA MOU	2004	NOX		9.86484211	0.801310342	1.96004211
PLA	ARB	TRAINS	TRAINS EPA MOU	2005	PM	1	0.215053662	0.966735458	0.007153662
PLA	ARB	TRAINS	TRAINS EPA MOU	2005	NOX		9.94962682	0.733022467	2.65632682
PLA	ARB	TRAINS	TRAINS EPA MOU	2005	TOG	0.8785	0.464242424	0.970828982	0.013542424
PLA	ARB	TRAINS	TRAINS EPA MOU	2006	PM	1	0.216931269	0.935319287	0.014031269
PLA	ARB	TRAINS	TRAINS EPA MOU	2006	NOX		10.0430647	0.687947374	3.13396471
PLA	ARB	TRAINS	TRAINS EPA MOU	2006	TOG	0.8785	0.466555881	0.951225818	0.022755881
PLA	ARB	TRAINS	TRAINS EPA MOU	2007	PM	1	0.218869525	0.909217488	0.019869525
PLA	ARB	TRAINS	TRAINS EPA MOU	2007	NOX		10.1336507	0.65050594	3.54165073
PLA	ARB	TRAINS	TRAINS EPA MOU	2007	TOG	0.8785	0.468356009	0.927713089	0.033856009
PLA	ARB	TRAINS	TRAINS EPA MOU	2008	PM	1	0.220746823	0.882911913	0.025846823
PLA	ARB	TRAINS	TRAINS EPA MOU	2008	NOX		10.2271567	0.629021359	3.79405668
PLA	ARB	TRAINS	TRAINS EPA MOU	2008	TOG	0.8785	0.4707115459	0.9073422	0.043615459
PLA	ARB	TRAINS	TRAINS EPA MOU	2009	PM	1	0.22287678	0.866398018	0.02977678
PLA	ARB	TRAINS	TRAINS EPA MOU	2009	NOX		10.3232299	0.607464915	4.05222995
PLA	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	0.47296269	0.883156343	0.05526269
PLA	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	0.224966972	0.847679989	0.034266972
PLA	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		10.4280701	0.594108015	4.23267006
PLA	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	0.475454776	0.865487151	0.063954776
PLA	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	0.23029087	0.818964295	0.04169087
PLA	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		10.6841868	0.577348574	4.51568677
PLA	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	0.485276316	0.847764432	0.073876316
PLA	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	0.238989855	0.781623136	0.052189855
PLA	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		11.0879103	0.548606531	5.00501029
PLA	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	0.500437182	0.812489589	0.093837182
PLA	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	0.248156354	0.742273962	0.063956354
PLA	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		11.5146105	0.515484219	5.57901051
PLA	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	0.516636225	0.780820199	0.113236225
PLA	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.254482759	0.721463415	7.09E-02
PLA	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		11.8103525	0.502948579	5.87035249
PLA	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	0.527780096	0.755617733	0.128980096
PLA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.845770961	2.05080228	0.954602019	0.093102284
PLA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.845517518	2.15994032	0.95118369	0.105440316
PLA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.842610105	2.23936868	0.929815628	0.157168684
PLA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.846672222	2.31605508	0.859565051	0.325255076
PLA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.846119902	2.39421249	0.856231438	0.344212486
PLA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.850943482	2.44848567	0.813319034	0.45708567

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 109 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
PLA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.850845467	2.51441838	0.813229818	0.469618377
PLA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.850882918	2.58384136	0.813130416	0.482841359
PLA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.850819476	2.65345401	0.812337425	0.497954012
PLA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.850734986	2.71870196	0.812152282	0.510701958
PLA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.850741242	2.78557423	0.811789531	0.524274233
PLA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.850711261	2.89852175	0.811862116	0.545321749
PLA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.850698714	3.0640502	0.811801321	0.5766502
PLA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.850670878	3.22950475	0.811579547	0.608504748
PLA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.850617061	3.34272305	0.811344513	0.630623046
PLA	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.712734536	0.19303653	0.876	0.02393653
PLA	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.712734536	0.19303653	0.876	0.02393653
PLA	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.712734536	0.19303653	0.876	0.02393653
PLA	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.712734536	0.19303653	0.876	0.02393653
PLA	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.712734536	0.19303653	0.876	0.02393653
PLA	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.712734536	0.19303653	0.876	0.02393653
PLA	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.712734536	0.19303653	0.876	0.02393653
PLA	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.712734536	0.19303653	0.876	0.02393653
PLA	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.712734536	0.19303653	0.876	0.02393653
PLA	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.712734536	0.19303653	0.876	0.02393653
PLA	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.712734536	0.19303653	0.876	0.02393653
PLA	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2003	TOG	0.979136202	0.871821085	0.85831831	0.123521085
PLA	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2004	TOG	0.980128914	0.886396062	0.803365482	0.174296062
PLA	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2005	TOG	0.980119751	0.901190578	0.80338168	0.177190578
PLA	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2006	TOG	0.980114593	0.914548318	0.803238041	0.179948318
PLA	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2007	TOG	0.980107442	0.926491958	0.803460833	0.182091958
PLA	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2008	TOG	0.980110893	0.937844826	0.803651072	0.184144826
PLA	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2009	TOG	0.980116839	0.949444968	0.803732734	0.186344968
PLA	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2010	TOG	0.980133843	0.960935567	0.803799991	0.188535567
PLA	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2012	TOG	0.980120881	0.9823974	0.803849847	0.1926974
PLA	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2015	TOG	0.980116006	1.01648233	0.803949049	0.199282326
PLA	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2018	TOG	0.980115658	1.0514293	0.804238574	0.205829299
PLA	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2020	TOG	0.980116044	1.07472599	0.804391081	0.210225989
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	PM	0.96	0.025125125	0.999	0.000025125
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	NOX		0.340501044	0.999	0.000340501
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	PM	0.96	0.025175527	0.997	0.000075527
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	NOX		0.340376106	0.998	0.000680752
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	PM	0.96	0.025150905	0.994	0.000150905
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	NOX		0.340692124	0.995	0.001703461
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	PM	0.96	0.025176946	0.989	0.000276946
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	NOX		0.340341656	0.992	0.002722733
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	PM	0.96	0.025127162	0.983	0.000427162
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	NOX		0.340486922	0.987	0.00442893
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	PM	0.96	0.025128205	0.975	0.000628205
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	NOX		0.340824468	0.981	0.006475665
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	PM	0.96	0.025184405	0.949	0.001284405
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	NOX		0.340841248	0.961	0.013292809
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	PM	0.96	0.025108225	0.924	0.001908225
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	NOX		0.340525588	0.942	0.019750484
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	PM	0.96	0.025167038	0.898	0.002567038

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 110 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	NOX		0.341018388	0.922	0.026599434
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	PM	0.96	0.025229358	0.872	0.003229358
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	NOX		0.340692641	0.903	0.033047186
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	PM	0.96	0.025177305	0.846	0.003877305
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	NOX		0.340707965	0.884	0.039522124
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	PM	0.96	0.025157233	0.795	0.005157233
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	NOX		0.34109375	0.835	0.056280469
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	PM	0.96	0.025208914	0.718	0.007108914
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	NOX		0.341074523	0.753	0.084245407
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	PM	0.96	0.025273011	0.641	0.009073011
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	NOX		0.341304348	0.66	0.116043478
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	PM	0.96	0.025254237	0.59	0.010354237
PLA	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	NOX		0.341189427	0.592	0.139205286
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO		0.045525953	0.975267895	0.001125953
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		0.045473596	0.901622121	0.004473596
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	NOX		0.132738384	0.991423853	0.001138384
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	TOG	0.708707692	0.016701192	0.934065079	0.001101192
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		0.045489809	0.852938284	0.006689809
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX		0.132791347	0.949610065	0.006691347
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	TOG	0.709277241	0.0167026	0.868128291	0.0022026
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		0.045475312	0.829021257	0.007775312
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	PM	0.7187	0.005375	0.8	0.001075
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		0.132776657	0.9000076	0.013276657
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	TOG	0.709940299	0.016704291	0.802189076	0.003304291
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.045556174	0.750721514	0.011356174
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	PM	0.7187	0.005416667	0.72	0.001516667
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		0.132839638	0.833335603	0.022139638
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	TOG	0.708926667	0.016652381	0.720617672	0.004652381
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.045612785	0.633594282	0.016712785
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	PM	0.7187	0.0055	0.6	0.0022
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		0.132809856	0.733379308	0.035409856
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	TOG	0.707056	0.015508943	0.644789264	0.005508943
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.045679457	0.575751156	0.019379457
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	PM	0.7187	0.005416667	0.48	0.002816667
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		0.132846289	0.66317246	0.044746289
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.707931034	0.015540344	0.559833161	0.006840344
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.045658195	0.536595892	0.021158195
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	PM	0.7187	0.0055	0.4	0.0033
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		0.132899667	0.617006815	0.050899667
PLA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	TOG	0.708707692	0.015485714	0.503690037	0.007685714
PLA	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2012	TOG	0.988834951	0.087190548	0.708792424	0.025390548
PLA	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2015	TOG	0.988837209	0.090994498	0.708834065	0.026494498
PLA	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2018	TOG	0.988835312	0.095090419	0.708799065	0.027690419
PLA	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2020	TOG	0.988832853	0.097918356	0.708753727	0.028518356
PLA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.076430518	0.734	0.020330518
PLA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.078139535	0.645	0.027739535
PLA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.07963964	0.555	0.03543964
PLA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.081330472	0.466	0.043430472
PLA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.082933333	0.375	0.051833333

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 111 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
PLA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.0848	0.375	0.053
PLA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.088266667	0.375	0.055166667
PLA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.093066667	0.375	0.058166667
PLA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.098666667	0.375	0.061666667
PLA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.102666667	0.375	0.064166667
PLA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2000	TOG	1	0.108237813	0.629170141	0.040137813
PLA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2001	TOG	1	0.111758893	0.629032714	0.041458893
PLA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2002	TOG	1	0.115318102	0.588806081	0.047418102
PLA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2003	TOG	1	0.117763158	0.568089385	0.050863158
PLA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2004	TOG	1	0.120388091	0.568162508	0.051988091
PLA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2005	TOG	1	0.124431818	0.528	0.058731818
PLA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2006	TOG	1	0.127083333	0.528	0.059983333
PLA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2007	TOG	1	0.129924242	0.528	0.061324242
PLA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2008	TOG	1	0.13254203	0.467021669	0.07064203
PLA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2009	TOG	1	0.134778435	0.467433829	0.071778435
PLA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2010	TOG	1	0.138068182	0.425876543	0.079268182
PLA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2012	TOG	1	0.142992424	0.427295364	0.081892424
PLA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2015	TOG	1	0.151325758	0.426893617	0.086725758
PLA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2018	TOG	1	0.160984848	0.425505882	0.092484848
PLA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2020	TOG	1	0.166477273	0.427085324	0.095377273
PLA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.094044665	0.403	0.056144665
PLA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.097022333	0.403	0.057922333
PLA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.099255583	0.403	0.059255583
PLA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.101736973	0.403	0.060736973
PLA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.104466501	0.403	0.062366501
PLA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.106947891	0.403	0.063847891
PLA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.109181141	0.403	0.065181141
PLA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.111662531	0.403	0.066662531
PLA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.113895782	0.403	0.067995782
PLA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.116129032	0.403	0.069329032
PLA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.120843672	0.403	0.072143672
PLA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.127791563	0.403	0.076291563
PLA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.135483871	0.403	0.080883871
PLA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.140694789	0.403	0.083994789
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		0.87934224	0.973	0.02374224
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.106200676	0.887	0.012000676
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		0.896813977	0.973	0.024213977
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.108455468	0.887	0.012255468
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		0.914612868	0.917	0.075912868
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.110558069	0.663	0.037258069
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		0.931797753	0.89	0.102497753
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.112681159	0.552	0.050481159
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		0.94988764	0.89	0.10448764
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.115036232	0.552	0.051536232
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		0.968105516	0.834	0.160705516
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.117378049	0.328	0.078878049
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		0.982853717	0.834	0.163153717
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.118902439	0.328	0.079902439
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		0.997482014	0.834	0.165582014

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 112 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.120426829	0.328	0.080926829
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		1.01270983	0.834	0.168109832
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.122865854	0.328	0.082565854
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		1.02757794	0.834	0.170577938
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.124390244	0.328	0.083590244
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		1.04304556	0.834	0.173145564
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.126219512	0.328	0.084819512
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		1.0736211	0.834	0.178221103
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.129573171	0.328	0.087073171
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		1.12086331	0.834	0.186063309
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.135365854	0.328	0.090965854
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		1.16882494	0.834	0.19402494
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.141768293	0.328	0.095268293
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		1.20191847	0.834	0.199518465
PLA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.145121951	0.328	0.097521951
PLA	PLA_APDC	246	Natural Gas-Fired Water Heaters	2000	NOX		0.198198198	0.999	0.000198198
PLA	PLA_APDC	246	Natural Gas-Fired Water Heaters	2001	NOX		0.201703407	0.998	0.000403407
PLA	PLA_APDC	246	Natural Gas-Fired Water Heaters	2002	NOX		0.205616851	0.997	0.000616851
PLA	PLA_APDC	246	Natural Gas-Fired Water Heaters	2003	NOX		0.209437751	0.996	0.000837751
PLA	PLA_APDC	246	Natural Gas-Fired Water Heaters	2004	NOX		0.213366834	0.995	0.001066834
PLA	PLA_APDC	246	Natural Gas-Fired Water Heaters	2005	NOX		0.217102616	0.994	0.001302616
PLA	PLA_APDC	246	Natural Gas-Fired Water Heaters	2006	NOX		0.220745217	0.993	0.001545217
PLA	PLA_APDC	246	Natural Gas-Fired Water Heaters	2007	NOX		0.224471299	0.993	0.001571299
PLA	PLA_APDC	246	Natural Gas-Fired Water Heaters	2008	NOX		0.228096677	0.993	0.001596677
PLA	PLA_APDC	246	Natural Gas-Fired Water Heaters	2009	NOX		0.231923464	0.993	0.001623464
PLA	PLA_APDC	246	Natural Gas-Fired Water Heaters	2010	NOX		0.235649547	0.993	0.001649547
PLA	PLA_APDC	246	Natural Gas-Fired Water Heaters	2012	NOX		0.242799597	0.993	0.001699597
PLA	PLA_APDC	246	Natural Gas-Fired Water Heaters	2015	NOX		0.253575025	0.993	0.001775025
PLA	PLA_APDC	246	Natural Gas-Fired Water Heaters	2018	NOX		0.264451158	0.993	0.001851158
PLA	PLA_APDC	246	Natural Gas-Fired Water Heaters	2020	NOX		0.271601208	0.993	0.001901208
PLA	PLA_APDC	236&238	Wood Products Coatings & Factory Coating of Flatwo	2005	TOG	0.9879	0.004829545	0.704	0.001429545
PLA	PLA_APDC	236&238	Wood Products Coatings & Factory Coating of Flatwo	2006	TOG	0.9879	0.0046875	0.704	0.0013875
PLA	PLA_APDC	236&238	Wood Products Coatings & Factory Coating of Flatwo	2007	TOG	0.9879	0.004829545	0.704	0.001429545
PLA	PLA_APDC	236&238	Wood Products Coatings & Factory Coating of Flatwo	2008	TOG	0.9879	0.004971591	0.704	0.001471591
PLA	PLA_APDC	236&238	Wood Products Coatings & Factory Coating of Flatwo	2009	TOG	0.9879	0.005255682	0.704	0.001555682
PLA	PLA_APDC	236&238	Wood Products Coatings & Factory Coating of Flatwo	2010	TOG	0.9879	0.005539773	0.704	0.001639773
PLA	PLA_APDC	236&238	Wood Products Coatings & Factory Coating of Flatwo	2012	TOG	0.9879	0.005965909	0.704	0.001765909
PLA	PLA_APDC	236&238	Wood Products Coatings & Factory Coating of Flatwo	2015	TOG	0.9879	0.006534091	0.704	0.001934091
PLA	PLA_APDC	236&238	Wood Products Coatings & Factory Coating of Flatwo	2018	TOG	0.9879	0.006960227	0.704	0.002060227
PLA	PLA_APDC	236&238	Wood Products Coatings & Factory Coating of Flatwo	2020	TOG	0.9879	0.007386364	0.704	0.002186364
PLA	PLA_APDC	CARL_MOYER	Carl Moyer Ag Pump Reductions	2000	NOX		0.340501044	0.958	0.014301044
PLA	PLA_APDC	CARL_MOYER	Carl Moyer Ag Pump Reductions	2001	NOX		0.340376106	0.906	0.031995354
PLA	PLA_APDC	CARL_MOYER	Carl Moyer Ag Pump Reductions	2002	NOX		0.340692124	0.842	0.053829356
PLA	PLA_APDC	CARL_MOYER	Carl Moyer Ag Pump Reductions	2003	NOX		0.340341656	0.767	0.079299606
PLA	PLA_APDC	CARL_MOYER	Carl Moyer Ag Pump Reductions	2004	NOX		0.340686922	0.767	0.079380053
PLA	PLA_APDC	CARL_MOYER	Carl Moyer Ag Pump Reductions	2005	NOX		0.340824468	0.767	0.079412101
PLA	PLA_APDC	CARL_MOYER	Carl Moyer Ag Pump Reductions	2006	NOX		0.340841248	0.767	0.079416011
PLA	PLA_APDC	CARL_MOYER	Carl Moyer Ag Pump Reductions	2007	NOX		0.340525588	0.767	0.079342462
PLA	PLA_APDC	CARL_MOYER	Carl Moyer Ag Pump Reductions	2008	NOX		0.341018388	0.767	0.079457284

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 113 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
PLA	PLA_APCD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2009	NOX		0.340692641	0.767	0.079381385
PLA	PLA_APCD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2010	NOX		0.340707965	0.767	0.079384956
PLA	PLA_APCD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2012	NOX		0.34109375	0.767	0.079474844
PLA	PLA_APCD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2015	NOX		0.341074523	0.767	0.079470364
PLA	PLA_APCD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2018	NOX		0.341304348	0.767	0.079523913
PLA	PLA_APCD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2020	NOX		0.341189427	0.767	0.079497137
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2000	NOX		5.60535253	0.992123149	0.044152525
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2001	NOX		5.65502105	0.960350094	0.224221053
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2002	NOX		5.70277574	0.908189316	0.52357574
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2003	NOX		5.75734096	0.849558856	0.866140961
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2004	NOX		5.81057895	0.796461083	1.18267895
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2005	PM	1	0.128248106	0.966096138	0.004348106
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2005	NOX		5.86533207	0.726761921	1.60263207
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2005	TOG	0.8785	0.255744949	0.968543076	0.008044949
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2006	PM	1	0.129460913	0.933872601	0.008560913
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2006	NOX		5.92483516	0.681065361	1.88963516
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2006	TOG	0.8785	0.257624633	0.946726238	0.013724633
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2007	PM	1	0.1307097	0.907354239	0.0121097
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2007	NOX		5.98309274	0.643279348	2.13429274
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2007	TOG	0.8785	0.259390023	0.921777937	0.020290023
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2008	PM	1	0.131938384	0.880714136	0.015738384
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2008	NOX		6.04258318	0.621935998	2.28448318
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2008	TOG	0.8785	0.261213934	0.899262901	0.026313934
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2009	PM	1	0.133242514	0.863838402	0.018142514
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2009	NOX		6.10418182	0.600522741	2.43848182
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2009	TOG	0.8785	0.263009327	0.873733271	0.033209327
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2010	PM	1	0.134568089	0.844925424	0.020868089
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2010	NOX		6.17082552	0.587538893	2.54522552
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2010	TOG	0.8785	0.265114329	0.855479976	0.038314329
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2012	PM	1	0.137966604	0.816139536	0.025366604
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2012	NOX		6.32642465	0.571570864	2.71042465
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2012	TOG	0.8785	0.271032895	0.837167755	0.044132895
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2015	PM	1	0.143221739	0.778513099	0.031721739
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2015	NOX		6.57209508	0.543860056	2.99779508
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2015	TOG	0.8785	0.280493775	0.800730783	0.055893775
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2018	PM	1	0.148833676	0.739080044	0.038833676
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2018	NOX		6.83144928	0.511092136	3.33994928
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2018	TOG	0.8785	0.290509893	0.769336966	0.067009893
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2020	PM	1	0.152573713	0.718341304	0.042973713
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2020	NOX		7.01149254	0.498852417	3.51379254
SAC	ARB	TRAIN\$	TRAIN\$ EPA MOU	2020	TOG	0.8785	0.297333868	0.742935883	0.076433868
SAC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.848095981	10.6262592	0.955557346	0.472259157
SAC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.847842592	10.9680853	0.952071369	0.525685313
SAC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.844162853	11.1575937	0.930585958	0.774493671
SAC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.848896521	11.4024185	0.860834394	1.58682448
SAC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.848293882	11.6186837	0.857454619	1.6561897
SAC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.852913592	11.8099711	0.807325768	2.27547711
SAC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.852902404	12.0111914	0.807413161	2.31319738
SAC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.852835162	12.3133754	0.800632945	2.45488138

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 114 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SAC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.852771031	12.5138308	0.800569717	2.49563681
SAC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.852691266	12.7154037	0.800438132	2.53750972
SAC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.852643826	12.9152265	0.800411361	2.57773247
SAC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.852634318	13.2735102	0.800707111	2.64531619
SAC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.852617841	13.8088354	0.801225715	2.74484138
SAC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.85260653	14.4068337	0.801695518	2.85693969
SAC	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.85258859	14.8046851	0.801995715	2.93139108
SAC	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.713158927	1.02751142	0.876	0.127411416
SAC	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.713158927	1.02751142	0.876	0.127411416
SAC	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.713158927	1.02751142	0.876	0.127411416
SAC	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.713158927	1.02751142	0.876	0.127411416
SAC	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.713158927	1.02751142	0.876	0.127411416
SAC	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.713158927	1.02751142	0.876	0.127411416
SAC	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.713158927	1.02751142	0.876	0.127411416
SAC	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.713158927	1.02751142	0.876	0.127411416
SAC	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.713158927	1.02751142	0.876	0.127411416
SAC	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.713158927	1.02751142	0.876	0.127411416
SAC	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.713158927	1.02751142	0.876	0.127411416
SAC	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2003	TOG	0.978730374	4.75903174	0.86446156	0.645031738
SAC	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2004	TOG	0.979663063	4.8096715	0.811240435	0.907871499
SAC	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2005	TOG	0.97969856	4.85278523	0.811513351	0.914685226
SAC	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2006	TOG	0.979717419	4.90059017	0.811473692	0.923890173
SAC	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2007	TOG	0.979727626	4.94759871	0.811444143	0.932898715
SAC	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2008	TOG	0.979732718	4.99276425	0.81137418	0.941764249
SAC	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2009	TOG	0.979742193	5.04053682	0.811381832	0.950736818
SAC	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2010	TOG	0.979751354	5.08547941	0.811349268	0.959379413
SAC	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2012	TOG	0.979756337	5.18113246	0.811328418	0.977532458
SAC	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2015	TOG	0.979783852	5.31839729	0.811560281	1.00219729
SAC	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2018	TOG	0.979798905	5.48717	0.811930376	1.03197
SAC	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2020	TOG	0.979801349	5.60426647	0.812024201	1.05346647
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	PM	0.96	0.043843844	0.999	0.000043844
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	NOX		0.603653445	0.999	0.000603653
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	PM	0.96	0.043831494	0.997	0.000131494
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	NOX		0.603539823	0.998	0.00120708
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	PM	0.96	0.043762575	0.994	0.000262575
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	NOX		0.603937947	0.995	0.00301969
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	PM	0.96	0.043781598	0.989	0.000481598
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	NOX		0.603547963	0.992	0.004828384
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	PM	0.96	0.043845371	0.983	0.000745371
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	NOX		0.603963012	0.987	0.007851519
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	PM	0.96	0.043794872	0.975	0.001094872
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	NOX		0.604255319	0.981	0.011480851
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	PM	0.96	0.043835616	0.949	0.002235616
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	NOX		0.604206242	0.961	0.023564043
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	PM	0.96	0.043831169	0.924	0.003331169
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	NOX		0.60373444	0.942	0.035016598
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	PM	0.96	0.04376392	0.898	0.00446392
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	NOX		0.604526167	0.922	0.047153041
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	PM	0.96	0.043807339	0.872	0.005607339

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 115 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	NOX		0.604040404	0.903	0.058591919
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	PM	0.96	0.043853428	0.846	0.006753428
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	NOX		0.603982301	0.884	0.070061947
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	PM	0.96	0.043899371	0.795	0.008999371
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	NOX		0.6046875	0.835	0.099773438
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	PM	0.96	0.043871866	0.718	0.012371866
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	NOX		0.604852686	0.753	0.149398614
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	PM	0.96	0.043837754	0.641	0.015737754
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	NOX		0.60513834	0.66	0.205747036
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	PM	0.96	0.043898305	0.59	0.017998305
SAC	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	NOX		0.604625551	0.592	0.246687225
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	CO		0.216091954	0.957	0.009291954
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	PM	0.6671	0.031095041	0.968	0.000995041
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO		0.216079295	0.908	0.019879295
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	PM	0.6671	0.031016043	0.935	0.002016043
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	NOX		0.581333333	0.975	0.014533333
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	TOG	0.6849	0.079099678	0.933	0.005299678
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		0.216046512	0.86	0.030246512
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	PM	0.6671	0.030998852	0.871	0.003998852
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	NOX		0.581263383	0.934	0.038363383
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	TOG	0.6849	0.079090909	0.88	0.009490909
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		0.216133005	0.812	0.040633005
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	PM	0.6671	0.03101737	0.806	0.00601737
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX		0.581298992	0.893	0.062198992
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	TOG	0.6849	0.079081016	0.827	0.013681016
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		0.216145833	0.768	0.050145833
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	PM	0.6671	0.031007752	0.774	0.007007752
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		0.581338028	0.852	0.086038028
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	TOG	0.6849	0.079042691	0.773	0.017942691
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.216051136	0.704	0.063951136
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	PM	0.6671	0.030989957	0.697	0.009389957
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		0.581321474	0.787	0.123821474
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	TOG	0.6849	0.079076479	0.693	0.024276479
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.216091954	0.609	0.084491954
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	PM	0.6671	0.030981067	0.581	0.012981067
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		0.581304348	0.69	0.180204348
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	TOG	0.6849	0.079057592	0.573	0.033757592
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.216058394	0.548	0.097658394
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	PM	0.6671	0.030967742	0.465	0.016567742
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		0.581290323	0.62	0.220890323
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.6849	0.079107505	0.493	0.040107505
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.21617357	0.507	0.10657357
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	PM	0.6671	0.031007752	0.387	0.019007752
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		0.581326353	0.573	0.248226353
SAC	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	TOG	0.6849	0.079090909	0.44	0.044290909
SAC	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2012	TOG	0.987758458	0.209184286	0.892992509	0.022384286
SAC	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2015	TOG	0.98775439	0.215574728	0.892961815	0.023074728
SAC	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2018	TOG	0.987758921	0.224077152	0.892995997	0.023977152
SAC	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2020	TOG	0.987755436	0.229683042	0.892969711	0.024583042

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 116 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SAC	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.323705722	0.734	0.086105722
SAC	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.330852713	0.645	0.117452713
SAC	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.335855856	0.555	0.149455856
SAC	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.340772532	0.466	0.181972532
SAC	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.3472	0.375	0.217
SAC	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.352533333	0.375	0.220333333
SAC	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.362666667	0.375	0.226666667
SAC	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.3776	0.375	0.236
SAC	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.395733333	0.375	0.247333333
SAC	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.407466667	0.375	0.254666667
SAC	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2000	TOG	1	0.52138009	0.884	0.06048009
SAC	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2001	TOG	1	0.53800905	0.884	0.06240905
SAC	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2002	TOG	1	0.551131222	0.884	0.063931222
SAC	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2003	TOG	1	0.563122172	0.884	0.065322172
SAC	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2004	TOG	1	0.576244344	0.884	0.066844344
SAC	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2005	TOG	1	0.589479638	0.884	0.068379638
SAC	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2006	TOG	1	0.602375566	0.884	0.069875566
SAC	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2007	TOG	1	0.612104072	0.884	0.071004072
SAC	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2008	TOG	1	0.621945701	0.884	0.072145701
SAC	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2009	TOG	1	0.632692308	0.884	0.073392308
SAC	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2010	TOG	1	0.642420814	0.884	0.074520814
SAC	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2012	TOG	1	0.661877828	0.884	0.076777828
SAC	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2015	TOG	1	0.689932127	0.884	0.080032127
SAC	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2018	TOG	1	0.723755656	0.884	0.083955656
SAC	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2020	TOG	1	0.745248869	0.884	0.086448869
SAC	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.403831418	0.392	0.245529502
SAC	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.413793103	0.392	0.251586207
SAC	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.422605364	0.392	0.256944061
SAC	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.432183908	0.392	0.262767816
SAC	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.442145594	0.392	0.268824521
SAC	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.451724138	0.392	0.274648276
SAC	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.45862069	0.392	0.278841379
SAC	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.465900383	0.392	0.283267433
SAC	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.47394636	0.392	0.288159387
SAC	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.480842912	0.392	0.29235249
SAC	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.495019157	0.392	0.300971648
SAC	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.51532567	0.392	0.313318008
SAC	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.540229885	0.392	0.32845977
SAC	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.555938697	0.392	0.338010728
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		3.48931141	0.973	0.094211408
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.39199549	0.887	0.04429549
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		3.55930113	0.973	0.096101131
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.399774521	0.887	0.045174521
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		3.62998909	0.917	0.301289095
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.407843137	0.663	0.137443137
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		3.69921348	0.89	0.406913483
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.41576087	0.552	0.18626087
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		3.77022472	0.89	0.414724719
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.423731884	0.552	0.189831884

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 117 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		3.84268585	0.834	0.637885851
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.432012195	0.328	0.290312195
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		3.90059952	0.834	0.64749952
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.438414634	0.328	0.294614634
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		3.95947242	0.834	0.657272422
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.445121951	0.328	0.299121951
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		4.01918465	0.834	0.667184652
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.451829268	0.328	0.303629268
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		4.0793765	0.834	0.677176499
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.458536585	0.328	0.308136585
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		4.14040767	0.834	0.687307674
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.46554878	0.328	0.31284878
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		4.26091127	0.834	0.707311271
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.478963415	0.328	0.321863415
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		4.44940048	0.834	0.73860048
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.500304878	0.328	0.336204878
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		4.63908873	0.834	0.770088729
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.521646341	0.328	0.350546341
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		4.76990408	0.834	0.791804077
SAC	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.536280488	0.328	0.360380488
SAC	SAC_AQMD	414	Natural Gas-Fired Water Heaters	2000	NOX		1.33343343	0.999	0.001333433
SAC	SAC_AQMD	414	Natural Gas-Fired Water Heaters	2001	NOX		1.34769539	0.998	0.002695391
SAC	SAC_AQMD	414	Natural Gas-Fired Water Heaters	2002	NOX		1.36369107	0.997	0.004091073
SAC	SAC_AQMD	414	Natural Gas-Fired Water Heaters	2003	NOX		1.37841365	0.996	0.005513655
SAC	SAC_AQMD	414	Natural Gas-Fired Water Heaters	2004	NOX		1.39437186	0.995	0.006971859
SAC	SAC_AQMD	414	Natural Gas-Fired Water Heaters	2005	NOX		1.40945674	0.994	0.00845674
SAC	SAC_AQMD	414	Natural Gas-Fired Water Heaters	2006	NOX		1.42598187	0.993	0.009981873
SAC	SAC_AQMD	414	Natural Gas-Fired Water Heaters	2007	NOX		1.44118832	0.993	0.010088318
SAC	SAC_AQMD	414	Natural Gas-Fired Water Heaters	2008	NOX		1.45639476	0.993	0.010194763
SAC	SAC_AQMD	414	Natural Gas-Fired Water Heaters	2009	NOX		1.47160121	0.993	0.010301208
SAC	SAC_AQMD	414	Natural Gas-Fired Water Heaters	2010	NOX		1.48670695	0.993	0.010406949
SAC	SAC_AQMD	414	Natural Gas-Fired Water Heaters	2012	NOX		1.51379658	0.993	0.010596576
SAC	SAC_AQMD	414	Natural Gas-Fired Water Heaters	2015	NOX		1.55347432	0.993	0.01087432
SAC	SAC_AQMD	414	Natural Gas-Fired Water Heaters	2018	NOX		1.59647533	0.993	0.011175327
SAC	SAC_AQMD	414	Natural Gas-Fired Water Heaters	2020	NOX		1.62517623	0.993	0.011376234
SAC	SAC_AQMD	448	Gas Transfer Into Stationary Storage Containers	2001	TOG	1	0.484231418	0.720622165	0.135283525
SAC	SAC_AQMD	448	Gas Transfer Into Stationary Storage Containers	2002	TOG	1	0.496093103	0.720575254	0.13862069
SAC	SAC_AQMD	448	Gas Transfer Into Stationary Storage Containers	2003	TOG	1	0.506605364	0.720546194	0.141572797
SAC	SAC_AQMD	448	Gas Transfer Into Stationary Storage Containers	2004	TOG	1	0.518183908	0.720598021	0.144781609
SAC	SAC_AQMD	448	Gas Transfer Into Stationary Storage Containers	2005	TOG	1	0.530045594	0.720554655	0.148118774
SAC	SAC_AQMD	448	Gas Transfer Into Stationary Storage Containers	2006	TOG	1	0.541524138	0.720552464	0.151327586
SAC	SAC_AQMD	448	Gas Transfer Into Stationary Storage Containers	2007	TOG	1	0.54992069	0.72061802	0.153637931
SAC	SAC_AQMD	448	Gas Transfer Into Stationary Storage Containers	2008	TOG	1	0.558600383	0.72059341	0.156076628
SAC	SAC_AQMD	448	Gas Transfer Into Stationary Storage Containers	2009	TOG	1	0.56814636	0.720543786	0.158772031
SAC	SAC_AQMD	448	Gas Transfer Into Stationary Storage Containers	2010	TOG	1	0.576542912	0.720606442	0.161082375
SAC	SAC_AQMD	448	Gas Transfer Into Stationary Storage Containers	2012	TOG	1	0.593519157	0.720596352	0.165831418
SAC	SAC_AQMD	448	Gas Transfer Into Stationary Storage Containers	2015	TOG	1	0.61782567	0.720577976	0.1726341
SAC	SAC_AQMD	448	Gas Transfer Into Stationary Storage Containers	2018	TOG	1	0.647629885	0.720554879	0.180977011
SAC	SAC_AQMD	448	Gas Transfer Into Stationary Storage Containers	2020	TOG	1	0.666538697	0.72058717	0.186239464

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 118 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SAC	SAC_AQMD	450	Graphic Arts Operations	2000	TOG	1	0.754674556	0.845	0.116974556
SAC	SAC_AQMD	450	Graphic Arts Operations	2001	TOG	1	0.76816568	0.845	0.11906568
SAC	SAC_AQMD	450	Graphic Arts Operations	2002	TOG	1	0.776449704	0.845	0.120349704
SAC	SAC_AQMD	450	Graphic Arts Operations	2003	TOG	1	0.784852071	0.845	0.121652071
SAC	SAC_AQMD	450	Graphic Arts Operations	2004	TOG	1	0.793254438	0.845	0.122954438
SAC	SAC_AQMD	450	Graphic Arts Operations	2005	TOG	1	0.80035503	0.845	0.12405503
SAC	SAC_AQMD	450	Graphic Arts Operations	2006	TOG	1	0.804852071	0.845	0.124752071
SAC	SAC_AQMD	450	Graphic Arts Operations	2007	TOG	1	0.820591716	0.845	0.127191716
SAC	SAC_AQMD	450	Graphic Arts Operations	2008	TOG	1	0.837159763	0.845	0.129759763
SAC	SAC_AQMD	450	Graphic Arts Operations	2009	TOG	1	0.853964497	0.845	0.132364497
SAC	SAC_AQMD	450	Graphic Arts Operations	2010	TOG	1	0.870650888	0.845	0.134950888
SAC	SAC_AQMD	450	Graphic Arts Operations	2012	TOG	1	0.904497041	0.845	0.140197041
SAC	SAC_AQMD	450	Graphic Arts Operations	2015	TOG	1	0.955976331	0.845	0.148176331
SAC	SAC_AQMD	450	Graphic Arts Operations	2018	TOG	1	1.00461538	0.845	0.155715385
SAC	SAC_AQMD	450	Graphic Arts Operations	2020	TOG	1	1.03680473	0.845	0.160704734
SAC	SAC_AQMD	463	Wood Products Coatings	2005	TOG	0.99264039	0.327414773	0.704	0.096914773
SAC	SAC_AQMD	463	Wood Products Coatings	2006	TOG	0.992781458	0.315625	0.704	0.093425
SAC	SAC_AQMD	463	Wood Products Coatings	2007	TOG	0.992693516	0.326420455	0.704	0.096620455
SAC	SAC_AQMD	463	Wood Products Coatings	2008	TOG	0.992677596	0.337926136	0.704	0.100026136
SAC	SAC_AQMD	463	Wood Products Coatings	2009	TOG	0.992596864	0.348721591	0.704	0.103221591
SAC	SAC_AQMD	463	Wood Products Coatings	2010	TOG	0.992601457	0.360795455	0.704	0.106795455
SAC	SAC_AQMD	463	Wood Products Coatings	2012	TOG	0.992533852	0.383096591	0.704	0.113396591
SAC	SAC_AQMD	463	Wood Products Coatings	2015	TOG	0.992432295	0.414772727	0.704	0.122772727
SAC	SAC_AQMD	463	Wood Products Coatings	2018	TOG	0.992425255	0.444886364	0.704	0.131686364
SAC	SAC_AQMD	463	Wood Products Coatings	2020	TOG	0.992404509	0.463068182	0.704	0.137068182
SAC	SAC_AQMD	485	Municipal Landfill Gas	2000	TOG	0.011705127	14.148	0.975	0.3537
SAC	SAC_AQMD	485	Municipal Landfill Gas	2001	TOG	0.011705159	14.395163	0.951	0.705362986
SAC	SAC_AQMD	485	Municipal Landfill Gas	2002	TOG	0.011705163	14.6568035	0.926	1.08460346
SAC	SAC_AQMD	485	Municipal Landfill Gas	2003	TOG	0.011705254	14.6628191	0.901	1.45161909
SAC	SAC_AQMD	485	Municipal Landfill Gas	2004	TOG	0.011705267	14.9253425	0.876	1.85074247
SAC	SAC_AQMD	485	Municipal Landfill Gas	2005	TOG	0.011705276	15.1705399	0.852	2.24523991
SAC	SAC_AQMD	485	Municipal Landfill Gas	2006	TOG	0.011705283	15.4332527	0.827	2.66995272
SAC	SAC_AQMD	485	Municipal Landfill Gas	2007	TOG	0.011705278	15.6962594	0.802	3.10785935
SAC	SAC_AQMD	485	Municipal Landfill Gas	2008	TOG	0.011705278	15.9393316	0.778	3.53853162
SAC	SAC_AQMD	485	Municipal Landfill Gas	2009	TOG	0.011705201	16.4586985	0.753	4.06529854
SAC	SAC_AQMD	485	Municipal Landfill Gas	2010	TOG	0.011705204	16.7226648	0.728	4.54856484
SAC	SAC_AQMD	485	Municipal Landfill Gas	2012	TOG	0.011705122	17.4932692	0.728	4.75816923
SAC	SAC_AQMD	485	Municipal Landfill Gas	2015	TOG	0.01170505	18.5210165	0.728	5.03771648
SAC	SAC_AQMD	485	Municipal Landfill Gas	2018	TOG	0.011704978	19.5486264	0.728	5.31722637
SAC	SAC_AQMD	485	Municipal Landfill Gas	2020	TOG	0.011704971	20.0629121	0.728	5.45711209
SAC	SAC_AQMD	466&454	Solvent Cleaning & Degreasing Operations	2000	TOG	0.90478079	3.55958622	0.819112061	0.643886216
SAC	SAC_AQMD	466&454	Solvent Cleaning & Degreasing Operations	2001	TOG	0.90307229	3.58380156	0.819185982	0.64800156
SAC	SAC_AQMD	466&454	Solvent Cleaning & Degreasing Operations	2002	TOG	0.901449014	3.60893706	0.8192717	0.652237061
SAC	SAC_AQMD	466&454	Solvent Cleaning & Degreasing Operations	2003	TOG	0.905333596	3.64014403	0.494952943	1.83844403
SAC	SAC_AQMD	466&454	Solvent Cleaning & Degreasing Operations	2004	TOG	0.896188943	3.6781417	0.44160887	2.0538417
SAC	SAC_AQMD	466&454	Solvent Cleaning & Degreasing Operations	2005	TOG	0.894177149	3.71727022	0.441587483	2.07577022
SAC	SAC_AQMD	466&454	Solvent Cleaning & Degreasing Operations	2006	TOG	0.892381164	3.75112554	0.441574131	2.09472554
SAC	SAC_AQMD	466&454	Solvent Cleaning & Degreasing Operations	2007	TOG	0.890917221	3.78600878	0.441573197	2.11420878
SAC	SAC_AQMD	466&454	Solvent Cleaning & Degreasing Operations	2008	TOG	0.889325272	3.82387353	0.4415418	2.13547353

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 119 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SAC	SAC_AQMD	466&454	Solvent Cleaning & Degreasing Operations	2009	TOG	0.888223441	3.88214366	0.441431372	2.16844366
SAC	SAC_AQMD	466&454	Solvent Cleaning & Degreasing Operations	2010	TOG	0.887097965	3.94190454	0.44130952	2.20230454
SAC	SAC_AQMD	466&454	Solvent Cleaning & Degreasing Operations	2012	TOG	0.884929186	4.05597282	0.441127217	2.26677282
SAC	SAC_AQMD	466&454	Solvent Cleaning & Degreasing Operations	2015	TOG	0.882083524	4.2319335	0.440862316	2.3662335
SAC	SAC_AQMD	466&454	Solvent Cleaning & Degreasing Operations	2018	TOG	0.879994381	4.39273071	0.440796426	2.45643071
SAC	SAC_AQMD	466&454	Solvent Cleaning & Degreasing Operations	2020	TOG	0.878588721	4.49783439	0.440767673	2.51533439
SAC	SAC_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2000	NOX		0.603653445	0.958	0.025353445
SAC	SAC_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2001	NOX		0.603539823	0.906	0.056732743
SAC	SAC_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2002	NOX		0.603937947	0.842	0.095422196
SAC	SAC_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2003	NOX		0.603547963	0.767	0.140626675
SAC	SAC_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2004	NOX		0.603963012	0.767	0.140723382
SAC	SAC_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2005	NOX		0.604255319	0.767	0.140791489
SAC	SAC_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2006	NOX		0.604206242	0.767	0.140780054
SAC	SAC_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2007	NOX		0.60373444	0.767	0.140670124
SAC	SAC_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2008	NOX		0.604526167	0.767	0.140854597
SAC	SAC_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2009	NOX		0.604040404	0.767	0.140741414
SAC	SAC_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2010	NOX		0.603982301	0.767	0.140727876
SAC	SAC_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2012	NOX		0.6046875	0.767	0.140892188
SAC	SAC_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2015	NOX		0.604852686	0.767	0.140930676
SAC	SAC_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2018	NOX		0.60513834	0.767	0.140997233
SAC	SAC_AQMD	CARL_MOYER	Carl Moyer Ag Pump Reductions	2020	NOX		0.604625551	0.767	0.140877753
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2000	NOX		5.42793939	0.990062639	0.053939394
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2001	NOX		5.51182105	0.950302985	0.273921053
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2002	NOX		5.59172323	0.890530485	0.612123229
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2003	NOX		5.67993211	0.820854882	1.01753211
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2004	NOX		5.76821053	0.761050586	1.37831053
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2005	PM	1	0.121332071	0.960174827	0.004832071
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2005	NOX		5.85643738	0.681335723	1.86623738
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2005	TOG	0.8785	0.191505682	0.960284824	0.007605682
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2006	PM	1	0.123315766	0.920401368	0.009815766
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2006	NOX		5.94897436	0.631453386	2.19247436
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2006	TOG	0.8785	0.194506354	0.93056086	0.013506354
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2007	PM	1	0.125208668	0.890513429	0.013708668
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2007	NOX		6.04135403	0.591506471	2.46785403
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2007	TOG	0.8785	0.197512472	0.900702616	0.019612472
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2008	PM	1	0.127116998	0.860624475	0.017716998
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2008	NOX		6.13392015	0.571461629	2.62862015
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2008	TOG	0.8785	0.200470326	0.870951843	0.025870326
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2009	PM	1	0.12917403	0.840726264	0.02057403
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2009	NOX		6.23068449	0.551416141	2.79498449
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2009	TOG	0.8785	0.203657339	0.841118718	0.032357339
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2010	PM	1	0.131234756	0.820666744	0.023534756
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2010	NOX		6.33169344	0.541324376	2.90419344
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2010	TOG	0.8785	0.206910569	0.821127701	0.037010569
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2012	PM	1	0.13519526	0.790708196	0.02829526
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2012	NOX		6.52187963	0.531150557	3.05777963
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2012	TOG	0.8785	0.213059211	0.801185734	0.042359211
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2015	PM	1	0.141318841	0.750784535	0.035218841
SHA	ARB	TRAIN\$	TRAIN\$ EPA MOU	2015	NOX		6.82204136	0.510932112	3.33644136

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 120 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SHA	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	0.222904641	0.7613121	0.053204641
SHA	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	0.147998101	0.710819932	0.042798101
SHA	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		7.13904891	0.480848365	3.70624891
SHA	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	0.233173516	0.731215118	0.062673516
SHA	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.152573713	0.690813626	0.047173713
SHA	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		7.35895522	0.470786938	3.89445522
SHA	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	0.240399679	0.701332051	0.071799679
SHA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.846048157	1.50846913	0.955074237	0.067769126
SHA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.845885091	1.54264801	0.951740118	0.074448012
SHA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.84288367	1.58539767	0.930113643	0.110797667
SHA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.847237882	1.6241613	0.860444097	0.226661296
SHA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.846590197	1.66311567	0.85688568	0.238015668
SHA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.851294978	1.68470531	0.813139241	0.314805313
SHA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.85131792	1.71777425	0.813145268	0.320974246
SHA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.851232054	1.74828972	0.813537932	0.325989715
SHA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.851096967	1.78108375	0.812763577	0.33348375
SHA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.851105745	1.81440728	0.812551853	0.340107282
SHA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.850938884	1.84517269	0.812281696	0.346372688
SHA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.851086747	1.89792756	0.811832881	0.357127562
SHA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.851000867	1.9738725	0.811906542	0.371272504
SHA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.851027987	2.04627257	0.812306253	0.384072566
SHA	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.851061042	2.09624867	0.812212799	0.393648669
SHA	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.713148044	0.145890411	0.876	0.018090411
SHA	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.713148044	0.145890411	0.876	0.018090411
SHA	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.713148044	0.145890411	0.876	0.018090411
SHA	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.713148044	0.145890411	0.876	0.018090411
SHA	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.713148044	0.145890411	0.876	0.018090411
SHA	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.713148044	0.145890411	0.876	0.018090411
SHA	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.713148044	0.145890411	0.876	0.018090411
SHA	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.713148044	0.145890411	0.876	0.018090411
SHA	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.713148044	0.145890411	0.876	0.018090411
SHA	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.713148044	0.145890411	0.876	0.018090411
SHA	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.713148044	0.145890411	0.876	0.018090411
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	CO		0.026272066	0.963	0.000972066
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO		0.026241901	0.926	0.001941901
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	NOX		0.073948718	0.975	0.001848718
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	TOG	0.6927	0.010666667	0.9	0.001066667
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		0.02632171	0.889	0.00292171
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	NOX		0.073880597	0.938	0.004580597
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	TOG	0.6927	0.010666667	0.9	0.001066667
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		0.026257669	0.815	0.004857669
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	PM	0.7333	0.004533333	0.75	0.001133333
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX		0.073888889	0.9	0.007388889
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	TOG	0.6927	0.01075	0.8	0.00215
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		0.02622108	0.778	0.00582108
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	PM	0.7333	0.004533333	0.75	0.001133333
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		0.073928158	0.863	0.010128158
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	TOG	0.6927	0.01075	0.8	0.00215
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.026286509	0.719	0.007386509

**CCOS EMISSION REDUCTIONS BY RULE, v2.11**  
 December 8, 2003

Page 121 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	PM	0.7333	0.004615385	0.65	0.001615385
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		0.073896595	0.793	0.015296595
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	TOG	0.6927	0.010694444	0.72	0.002994444
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.026190476	0.63	0.009690476
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	PM	0.7333	0.0046	0.5	0.0023
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		0.073982558	0.688	0.023082558
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	TOG	0.6927	0.010666667	0.6	0.004266667
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.026287744	0.563	0.011487744
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	PM	0.7333	0.0046	0.5	0.0023
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		0.073870968	0.62	0.028070968
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.6927	0.010625	0.48	0.005525
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.026204239	0.519	0.012604239
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	PM	0.7333	0.0046	0.5	0.0023
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		0.073913043	0.575	0.031413043
SHA	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	TOG	0.6927	0.01075	0.4	0.00645
SHA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.046866485	0.734	0.012466485
SHA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.047596899	0.645	0.016896899
SHA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.048288288	0.555	0.021488288
SHA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.048927039	0.466	0.026127039
SHA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.0496	0.375	0.031
SHA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.0512	0.375	0.032
SHA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.052533333	0.375	0.032833333
SHA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.054666667	0.375	0.034166667
SHA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.0576	0.375	0.036
SHA	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.058933333	0.375	0.036833333
SHA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2000	TOG	1	0.063864043	0.559	0.028164043
SHA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2001	TOG	1	0.066010733	0.559	0.029110733
SHA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2002	TOG	1	0.066905188	0.559	0.029505188
SHA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2003	TOG	1	0.06940966	0.559	0.03060966
SHA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2004	TOG	1	0.070304114	0.559	0.031004114
SHA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2005	TOG	1	0.072450805	0.559	0.031950805
SHA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2006	TOG	1	0.073703041	0.559	0.032503041
SHA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2007	TOG	1	0.074955277	0.559	0.033055277
SHA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2008	TOG	1	0.075849732	0.559	0.033449732
SHA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2009	TOG	1	0.076923077	0.559	0.033923077
SHA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2010	TOG	1	0.079248658	0.559	0.034948658
SHA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2012	TOG	1	0.081395349	0.559	0.035895349
SHA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2015	TOG	1	0.084615385	0.559	0.037315385
SHA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2018	TOG	1	0.089087657	0.559	0.039287657
SHA	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2020	TOG	1	0.091234347	0.559	0.040234347
SHA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.057668354	0.816739102	0.010568354
SHA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.058821519	0.817727948	0.010721519
SHA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.060027848	0.816287799	0.011027848
SHA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.061134177	0.814601623	0.011334177
SHA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.062240506	0.812975391	0.011640506
SHA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.062693671	0.811884187	0.011793671
SHA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.064046835	0.813467202	0.011946835
SHA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.0654	0.814984709	0.0121
SHA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.066853165	0.816715265	0.012253165

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 122 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SHA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.068812658	0.815256981	0.012712658
SHA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.071618987	0.818218774	0.013018987
SHA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.075778481	0.822133133	0.013478481
SHA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.080044304	0.822044754	0.014244304
SHA	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.082450633	0.82352309	0.014550633
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		0.66012333	0.973	0.01782333
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.074520857	0.887	0.008420857
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		0.673381295	0.973	0.018181295
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.075986471	0.887	0.008586471
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		0.686695747	0.917	0.056995747
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.077526395	0.663	0.026126395
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		0.699775281	0.89	0.076975281
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.079166667	0.552	0.035466667
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		0.713370787	0.89	0.078470787
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.080615942	0.552	0.036115942
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		0.726858513	0.834	0.120658513
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.082317073	0.328	0.055317073
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		0.738009592	0.834	0.122509592
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.083536585	0.328	0.056136585
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		0.749160671	0.834	0.124360671
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.084756098	0.328	0.056956098
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		0.760431655	0.834	0.126231655
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.08597561	0.328	0.05777561
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		0.771702638	0.834	0.128102638
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.087195122	0.328	0.058595122
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		0.783453237	0.834	0.130053237
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.088414634	0.328	0.059414634
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		0.805995204	0.834	0.133795204
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.090853659	0.328	0.061053659
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		0.841846523	0.834	0.139746523
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.094817073	0.328	0.063717073
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		0.877697842	0.834	0.145697842
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.099390244	0.328	0.066790244
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		0.902398082	0.834	0.149798082
SHA	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.102134146	0.328	0.068634146
SIS	ARB	TRAINS	TRAINS EPA MOU	2000	NOX		6.75343434	0.99	0.067534343
SIS	ARB	TRAINS	TRAINS EPA MOU	2001	NOX		6.85936842	0.95	0.342968421
SIS	ARB	TRAINS	TRAINS EPA MOU	2002	NOX		6.95988764	0.89	0.76558764
SIS	ARB	TRAINS	TRAINS EPA MOU	2003	NOX		7.07097561	0.82	1.27277561
SIS	ARB	TRAINS	TRAINS EPA MOU	2004	NOX		7.18210526	0.76	1.72370526
SIS	ARB	TRAINS	TRAINS EPA MOU	2005	PM	1	0.152083333	0.96	0.006083333
SIS	ARB	TRAINS	TRAINS EPA MOU	2005	NOX		7.29338235	0.68	2.33388235
SIS	ARB	TRAINS	TRAINS EPA MOU	2005	TOG	0.8785	0.226979167	0.96	0.009079167
SIS	ARB	TRAINS	TRAINS EPA MOU	2006	PM	1	0.154456522	0.92	0.012356522
SIS	ARB	TRAINS	TRAINS EPA MOU	2006	NOX		7.40968254	0.63	2.74158254
SIS	ARB	TRAINS	TRAINS EPA MOU	2006	TOG	0.8785	0.230645161	0.93	0.016145161
SIS	ARB	TRAINS	TRAINS EPA MOU	2007	PM	1	0.156966292	0.89	0.017266292
SIS	ARB	TRAINS	TRAINS EPA MOU	2007	NOX		7.52627119	0.59	3.08577119
SIS	ARB	TRAINS	TRAINS EPA MOU	2007	TOG	0.8785	0.234222222	0.9	0.023422222

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 123 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SIS	ARB	TRAINS	TRAINS EPA MOU	2008	PM	1	0.159302326	0.86	0.022302326
SIS	ARB	TRAINS	TRAINS EPA MOU	2008	NOX		7.64263158	0.57	3.28633158
SIS	ARB	TRAINS	TRAINS EPA MOU	2008	TOG	0.8785	0.237931034	0.87	0.030931034
SIS	ARB	TRAINS	TRAINS EPA MOU	2009	PM	1	0.161904762	0.84	0.025904762
SIS	ARB	TRAINS	TRAINS EPA MOU	2009	NOX		7.76436364	0.55	3.49396364
SIS	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	0.241666667	0.84	0.038666667
SIS	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	0.164512195	0.82	0.029612195
SIS	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		7.89148148	0.54	3.63008148
SIS	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	0.245609756	0.82	0.044209756
SIS	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	0.169493671	0.79	0.035593671
SIS	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		8.12962264	0.53	3.82092264
SIS	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	0.253	0.8	0.0506
SIS	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	0.177333333	0.75	0.044333333
SIS	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		8.50529412	0.51	4.16759412
SIS	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	0.264736842	0.76	0.063536842
SIS	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	0.185633803	0.71	0.053833803
SIS	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		8.90229167	0.48	4.62919167
SIS	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	0.277123288	0.73	0.074823288
SIS	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.191304348	0.69	0.059304348
SIS	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		9.17744681	0.47	4.86404681
SIS	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	0.285714286	0.7	0.085714286
SIS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.842553982	0.380453096	0.953862654	0.017553096
SIS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.842935799	0.381302734	0.950163656	0.019002734
SIS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.842065617	0.393224629	0.928985554	0.027924629
SIS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.846173876	0.399662672	0.857222914	0.057062672
SIS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.845558384	0.405559953	0.854290881	0.059099553
SIS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.84957997	0.406063102	0.811450237	0.076563102
SIS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.849797266	0.4103489	0.811260856	0.0774489
SIS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.849647068	0.413853394	0.811640075	0.077953394
SIS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.849915103	0.418069509	0.810869946	0.079069509
SIS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.849806343	0.421779783	0.811086765	0.079679783
SIS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.849767438	0.426804634	0.809503864	0.081304634
SIS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.849620051	0.433902388	0.8103205	0.082302388
SIS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.849573098	0.444391379	0.810546777	0.084191379
SIS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.849733406	0.45513297	0.81163094	0.08573297
SIS	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.849791071	0.463106931	0.810180057	0.087906931
SIS	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.712662931	0.039726027	0.876	0.004926027
SIS	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.712662931	0.039726027	0.876	0.004926027
SIS	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.712662931	0.039726027	0.876	0.004926027
SIS	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.712662931	0.039726027	0.876	0.004926027
SIS	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.712662931	0.039726027	0.876	0.004926027
SIS	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.712662931	0.039726027	0.876	0.004926027
SIS	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.712662931	0.039726027	0.876	0.004926027
SIS	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.712662931	0.039726027	0.876	0.004926027
SIS	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.712662931	0.039726027	0.876	0.004926027
SIS	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.712662931	0.039726027	0.876	0.004926027
SIS	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.712662931	0.039726027	0.876	0.004926027
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	NOX		0.024397906	0.955	0.001097906
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO		0.007934656	0.857	0.001134656

**CCOS EMISSION REDUCTIONS BY RULE, v2.11**  
 December 8, 2003

Page 124 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	NOX		0.024422442	0.909	0.002222442
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	TOG	0.7273	0.003298351	0.667	0.001098351
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		0.007934656	0.857	0.001134656
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	NOX		0.024421296	0.864	0.003321296
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	TOG	0.7273	0.003298351	0.667	0.001098351
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		0.007934656	0.857	0.001134656
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX		0.024421296	0.864	0.003321296
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	TOG	0.7273	0.003298351	0.667	0.001098351
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		0.007983193	0.714	0.002283193
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		0.024449878	0.818	0.004449878
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	TOG	0.7273	0.003298351	0.667	0.001098351
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.007914764	0.657	0.002714764
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		0.02442953	0.745	0.00622953
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	TOG	0.7273	0.003377111	0.533	0.001577111
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.007880911	0.571	0.003380911
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		0.024371069	0.636	0.008871069
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	TOG	0.7273	0.003303303	0.333	0.002203303
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.007880911	0.571	0.003380911
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	PM	0.75	0.001246883	0.401	0.000746883
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		0.024444062	0.581	0.01024062
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.7273	0.003303303	0.333	0.002203303
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.007880911	0.571	0.003380911
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		0.02440367	0.545	0.01110367
SIS	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	TOG	0.7273	0.003303303	0.333	0.002203303
SIS	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2012	TOG	0.9334	0.000326264	0.613	0.000126264
SIS	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2015	TOG	0.9334	0.000326264	0.613	0.000126264
SIS	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2018	TOG	0.9334	0.000326264	0.613	0.000126264
SIS	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2020	TOG	0.9334	0.000326264	0.613	0.000126264
SIS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.013760218	0.734	0.003660218
SIS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.013643411	0.645	0.004843411
SIS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.013693694	0.555	0.006093694
SIS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.013733906	0.466	0.007333906
SIS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.0144	0.375	0.009
SIS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.0144	0.375	0.009
SIS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.0144	0.375	0.009
SIS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.0144	0.375	0.009
SIS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.0152	0.375	0.0095
SIS	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.0152	0.375	0.0095
SIS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2000	TOG	1	0.10173913	0.92	0.00813913
SIS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2001	TOG	1	0.10173913	0.92	0.00813913
SIS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2002	TOG	1	0.101570681	0.764	0.023970681
SIS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2003	TOG	1	0.101754386	0.684	0.032154386
SIS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2004	TOG	1	0.107163743	0.684	0.033863743
SIS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2005	TOG	1	0.107007576	0.528	0.050507576
SIS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2006	TOG	1	0.107007576	0.528	0.050507576
SIS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2007	TOG	1	0.107007576	0.528	0.050507576
SIS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2008	TOG	1	0.106849315	0.292	0.075649315
SIS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2009	TOG	1	0.112328767	0.292	0.079528767
SIS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2010	TOG	1	0.112121212	0.132	0.097321212

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 125 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SIS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2012	TOG	1	0.112121212	0.132	0.097321212
SIS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2015	TOG	1	0.112121212	0.132	0.097321212
SIS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2018	TOG	1	0.117424242	0.132	0.101924242
SIS	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2020	TOG	1	0.117424242	0.132	0.101924242
SIS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.017721519	0.395	0.010721519
SIS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.017721519	0.395	0.010721519
SIS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.017721519	0.395	0.010721519
SIS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.018481013	0.395	0.011181013
SIS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.018481013	0.395	0.011181013
SIS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.018481013	0.395	0.011181013
SIS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.018481013	0.395	0.011181013
SIS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.018481013	0.395	0.011181013
SIS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.019493671	0.395	0.011793671
SIS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.019493671	0.395	0.011793671
SIS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.019493671	0.395	0.011793671
SIS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.019493671	0.395	0.011793671
SIS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.020506329	0.395	0.012406329
SIS	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.020506329	0.395	0.012406329
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		0.149331963	0.973	0.004031963
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.008117249	0.887	0.000917249
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		0.152415211	0.973	0.004115211
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.008342728	0.887	0.000942728
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		0.155228896	0.917	0.012888986
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.008446456	0.663	0.002846456
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		0.158426966	0.89	0.017426966
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.008695652	0.552	0.003895652
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		0.161348315	0.89	0.017748315
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.008876812	0.552	0.003976812
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		0.164388489	0.834	0.027288489
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.009146341	0.328	0.006146341
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		0.167026379	0.834	0.027726379
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.009146341	0.328	0.006146341
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		0.169544365	0.834	0.028144365
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.009146341	0.328	0.006146341
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		0.172182254	0.834	0.028582254
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.00945122	0.328	0.00635122
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		0.17470024	0.834	0.02900024
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.00945122	0.328	0.00635122
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		0.177338129	0.834	0.029438129
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.009756098	0.328	0.006556098
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		0.182254197	0.834	0.030254197
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.010060976	0.328	0.006760976
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		0.190407674	0.834	0.031607674
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.010365854	0.328	0.006965854
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		0.198681055	0.834	0.032981055
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.01097561	0.328	0.00737561
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		0.204076739	0.834	0.033876739
SIS	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.011280488	0.328	0.007580488
SJU	ARB	TRAINS	TRAINS EPA MOU	2000	NOX		32.8978859	0.990276401	0.319885859

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 126 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SJU	ARB	TRAINS	TRAINS EPA MOU	2001	NOX		33.3840947	0.951339261	1.62449474
SJU	ARB	TRAINS	TRAINS EPA MOU	2002	NOX		33.8466797	0.892341592	3.64387966
SJU	ARB	TRAINS	TRAINS EPA MOU	2003	NOX		34.359609	0.823784112	6.054709
SJU	ARB	TRAINS	TRAINS EPA MOU	2004	NOX		34.8712368	0.764641648	8.20723684
SJU	ARB	TRAINS	TRAINS EPA MOU	2005	PM	1	0.766275253	0.960751372	0.030075253
SJU	ARB	TRAINS	TRAINS EPA MOU	2005	NOX		35.3837998	0.685921244	11.1132998
SJU	ARB	TRAINS	TRAINS EPA MOU	2005	TOG	0.8785	1.45678977	0.961085825	0.056689773
SJU	ARB	TRAINS	TRAINS EPA MOU	2006	PM	1	0.777693237	0.921700185	0.060893237
SJU	ARB	TRAINS	TRAINS EPA MOU	2006	NOX		35.9227473	0.636435177	13.0602473
SJU	ARB	TRAINS	TRAINS EPA MOU	2006	TOG	0.8785	1.47847833	0.932106998	0.100378332
SJU	ARB	TRAINS	TRAINS EPA MOU	2007	PM	1	0.789470305	0.892117152	0.085170305
SJU	ARB	TRAINS	TRAINS EPA MOU	2007	NOX		36.4606113	0.596679518	14.7053113
SJU	ARB	TRAINS	TRAINS EPA MOU	2007	TOG	0.8785	1.50001134	0.90272651	0.145911338
SJU	ARB	TRAINS	TRAINS EPA MOU	2008	PM	1	0.801024934	0.862519967	0.110124934
SJU	ARB	TRAINS	TRAINS EPA MOU	2008	NOX		36.9993708	0.576480073	15.6699708
SJU	ARB	TRAINS	TRAINS EPA MOU	2008	TOG	0.8785	1.52178747	0.873643674	0.192287474
SJU	ARB	TRAINS	TRAINS EPA MOU	2009	PM	1	0.813192194	0.842851179	0.127792194
SJU	ARB	TRAINS	TRAINS EPA MOU	2009	NOX		37.5624385	0.556273789	16.6674385
SJU	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	1.54392121	0.844149296	0.240621208
SJU	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	0.825879065	0.823001852	0.146179065
SJU	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		38.1511691	0.54587318	17.3254691
SJU	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	1.56756606	0.824335277	0.275366057
SJU	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	0.850317802	0.793115231	0.175917802
SJU	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		39.2795773	0.535115229	18.2604773
SJU	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	1.61350658	0.804521046	0.315406579
SJU	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	0.888808696	0.753367967	0.219208696
SJU	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		41.0593473	0.514141149	19.9490473
SJU	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	1.68586304	0.764890128	0.396363045
SJU	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	0.929583795	0.713437566	0.266383795
SJU	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		42.9395652	0.483779933	22.1662652
SJU	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	1.76250228	0.734694084	0.467602283
SJU	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.957441279	0.693306226	0.293641279
SJU	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		44.2428993	0.473492929	23.2941993
SJU	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	1.81533547	0.705103833	0.535335474
SJU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.847257724	28.4698575	0.955298072	1.27265753
SJU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.846896371	29.2476753	0.95181582	1.40927526
SJU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.843621885	30.0624948	0.930428437	2.09149475
SJU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.84789445	30.8696051	0.860824098	4.29630514
SJU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.847300955	31.6805497	0.857507218	4.51424965
SJU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.851880834	32.5493741	0.803947871	6.38137407
SJU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.85188876	33.2963487	0.804142227	6.5213487
SJU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.851840812	34.0435891	0.80399866	6.67258907
SJU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.851776357	34.7845151	0.803938186	6.81991514
SJU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.851713874	35.6313109	0.801567477	7.0704109
SJU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.851653597	36.3783359	0.801455022	7.22273589
SJU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.851656398	37.7895134	0.801862666	7.48751344
SJU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.851658284	39.9028613	0.802476288	7.88176129
SJU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.851648181	42.3625944	0.803036276	8.34389435
SJU	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.851655052	44.0011626	0.803378773	8.6515626

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 127 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SJU	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.713111552	2.75593607	0.876	0.341736073
SJU	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.713111552	2.75593607	0.876	0.341736073
SJU	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.713111552	2.75593607	0.876	0.341736073
SJU	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.713111552	2.75593607	0.876	0.341736073
SJU	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.713111552	2.75593607	0.876	0.341736073
SJU	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.713111552	2.75593607	0.876	0.341736073
SJU	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.713111552	2.75593607	0.876	0.341736073
SJU	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.713111552	2.75593607	0.876	0.341736073
SJU	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.713111552	2.75593607	0.876	0.341736073
SJU	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.713111552	2.75593607	0.876	0.341736073
SJU	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.713111552	2.75593607	0.876	0.341736073
SJU	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2003	TOG	0.978849939	12.6472893	0.863631703	1.72468931
SJU	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2004	TOG	0.97981908	12.7842864	0.809673661	2.43318644
SJU	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2005	TOG	0.979840177	12.9301385	0.809589165	2.46203846
SJU	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2006	TOG	0.979873163	13.0562046	0.809630389	2.48550459
SJU	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2007	TOG	0.979883558	13.172406	0.809586341	2.50820603
SJU	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2008	TOG	0.979901384	13.2862191	0.809583215	2.52991913
SJU	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2009	TOG	0.979912521	13.4039214	0.809457146	2.55402145
SJU	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2010	TOG	0.97992673	13.5182926	0.809362565	2.57709263
SJU	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2012	TOG	0.979944655	13.7710343	0.809285619	2.62633427
SJU	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2015	TOG	0.979985336	14.1300645	0.80934521	2.69396447
SJU	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2018	TOG	0.980007459	14.6044008	0.809639516	2.78010081
SJU	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2020	TOG	0.980017001	14.9231709	0.809754178	2.83907092
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	PM	0.96	1.70630631	0.999	0.001706306
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	NOX		23.2786787	0.999	0.023278679
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	PM	0.96	1.70070211	0.997	0.005102106
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	NOX		23.1926854	0.998	0.046385371
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	PM	0.96	1.69496982	0.994	0.010169819
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	NOX		23.1326633	0.995	0.115663317
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	PM	0.96	1.69029323	0.989	0.018593225
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	NOX		23.0498992	0.992	0.184399194
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	PM	0.96	1.68535097	0.983	0.028650966
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	NOX		22.9902736	0.987	0.298873556
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	PM	0.96	1.67989744	0.975	0.041997436
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	NOX		22.9178389	0.981	0.43543894
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	PM	0.96	1.6748156	0.949	0.085415595
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	NOX		22.8559834	0.961	0.891383351
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	PM	0.96	1.66937229	0.924	0.126872294
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	NOX		22.7850318	0.942	1.32153185
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	PM	0.96	1.6642539	0.898	0.169753898
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	NOX		22.7240781	0.922	1.77247809
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	PM	0.96	1.6608945	0.872	0.212594495
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	NOX		22.6534884	0.903	2.19738837
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	PM	0.96	1.65591017	0.846	0.255010165
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	NOX		22.5678733	0.884	2.6178733
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	PM	0.96	1.64553459	0.795	0.337334591
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	NOX		22.440479	0.835	3.70267904
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	PM	0.96	1.63008357	0.718	0.459683565
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	NOX		22.2308101	0.753	5.49101009

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 128 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	PM	0.96	1.61684867	0.641	0.580448674
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	NOX		22.0459091	0.66	7.49560909
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	PM	0.96	1.60694915	0.59	0.658849153
SJU	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	NOX		21.9025338	0.592	8.93623378
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2005	CO		0.638274916	0.842740309	0.100374916
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2005	PM	0.694750076	0.078545236	0.833914361	0.013045236
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2005	NOX		1.73235254	0.886136027	0.197252543
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2005	TOG	0.692875442	0.21973987	0.874670584	0.02753987
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	CO		0.638304985	0.80196773	0.126404985
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	PM	0.694816372	0.078600062	0.792620241	0.016300062
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	NOX		1.73242252	0.850139029	0.259622521
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	TOG	0.692846532	0.219889514	0.832690911	0.036789514
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO		0.638077997	0.759781723	0.153277997
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	PM	0.695217065	0.078505383	0.746445628	0.019905383
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	NOX		1.73238797	0.816387567	0.318087969
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	TOG	0.692865928	0.219573551	0.780604037	0.048173551
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		0.638289207	0.724279832	0.175989207
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	PM	0.695359677	0.078641714	0.709547101	0.022841714
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	NOX		1.732522	0.782385449	0.377021997
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	TOG	0.692869245	0.21958406	0.741857128	0.05668406
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		0.638367627	0.681895481	0.203067627
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	PM	0.695856371	0.078647218	0.658637413	0.026847218
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX		1.73269587	0.746813114	0.438695873
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	TOG	0.692870402	0.219524375	0.691039436	0.067824375
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		0.638262127	0.64158593	0.228762127
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	PM	0.695082582	0.078504181	0.621622946	0.029704181
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		1.73219476	0.713199249	0.496794758
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	TOG	0.692885604	0.21965398	0.648292373	0.07725398
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.638249112	0.588641634	0.262549112
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	PM	0.695247945	0.078337246	0.559121007	0.034537246
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		1.73248917	0.659051737	0.590689174
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	TOG	0.692904242	0.219635415	0.579596875	0.092335415
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.63832573	0.509301106	0.31322573
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	PM	0.695666667	0.078652806	0.465336227	0.042052806
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		1.73225543	0.578494362	0.730155429
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	TOG	0.692919025	0.219665028	0.476179576	0.115065028
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.638240276	0.460014842	0.344640276
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	PM	0.695037586	0.078570853	0.369093614	0.049570853
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		1.73213456	0.518955063	0.833234559
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.692895	0.219824116	0.409418228	0.129824116
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.638093227	0.427053585	0.365593227
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	PM	0.69445875	0.078800952	0.304564847	0.054800952
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		1.73256685	0.479288865	0.902166853
SJU	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	TOG	0.692871606	0.220005827	0.364990332	0.139705827
SJU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.738010899	0.734	0.196310899
SJU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.753178295	0.645	0.267378295
SJU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.761621622	0.555	0.338921622
SJU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.770600858	0.466	0.411500858
SJU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.783733333	0.375	0.489833333

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 129 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SJU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.795466667	0.375	0.497166667
SJU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.816533333	0.375	0.510333333
SJU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.847733333	0.375	0.529833333
SJU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.882133333	0.375	0.551333333
SJU	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.905333333	0.375	0.565833333
SJU	A_NOR_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2002	TOG	0.9219	1.40824053	0.449	0.775940535
SJU	A_NOR_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2003	TOG	0.9219	1.43541203	0.449	0.790912027
SJU	A_NOR_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2004	TOG	0.9219	1.46302895	0.449	0.806128953
SJU	A_NOR_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2005	TOG	0.9219	1.48868502	0.327	1.00188502
SJU	A_NOR_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2006	TOG	0.9219	1.51131498	0.327	1.01711498
SJU	A_NOR_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2007	TOG	0.9219	1.53455657	0.327	1.03275657
SJU	A_NOR_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2008	TOG	0.9219	1.55749235	0.327	1.04819235
SJU	A_NOR_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2009	TOG	0.9219	1.58134557	0.327	1.06424557
SJU	A_NOR_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2010	TOG	0.9219	1.60428135	0.327	1.07968135
SJU	A_NOR_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2012	TOG	0.9219	1.65137615	0.327	1.11137615
SJU	A_NOR_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2015	TOG	0.9219	1.72415902	0.327	1.16035902
SJU	A_NOR_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2018	TOG	0.9219	1.79785933	0.327	1.20995933
SJU	A_NOR_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2020	TOG	0.9219	1.84770642	0.327	1.24350642
SJU	SJU_APCD	4305	Boilers, Steam Generators & Process Heaters	2000	NOX		5.77033352	0.896412656	0.597733523
SJU	SJU_APCD	4305	Boilers, Steam Generators & Process Heaters	2001	NOX		5.8541744	0.896795969	0.604174398
SJU	SJU_APCD	4305	Boilers, Steam Generators & Process Heaters	2002	NOX		5.88995696	0.896797724	0.607856963
SJU	SJU_APCD	4305	Boilers, Steam Generators & Process Heaters	2003	NOX		5.89924874	0.896741302	0.609148742
SJU	SJU_APCD	4305	Boilers, Steam Generators & Process Heaters	2004	NOX		5.89905241	0.89651687	0.610452409
SJU	SJU_APCD	4305	Boilers, Steam Generators & Process Heaters	2005	NOX		5.90904749	0.896286586	0.612847488
SJU	SJU_APCD	4305	Boilers, Steam Generators & Process Heaters	2006	NOX		5.93756932	0.896090591	0.61696932
SJU	SJU_APCD	4305	Boilers, Steam Generators & Process Heaters	2007	NOX		5.94245645	0.896077244	0.617556451
SJU	SJU_APCD	4305	Boilers, Steam Generators & Process Heaters	2008	NOX		5.92006039	0.896325315	0.613760394
SJU	SJU_APCD	4305	Boilers, Steam Generators & Process Heaters	2009	NOX		5.93525354	0.896322283	0.615353539
SJU	SJU_APCD	4305	Boilers, Steam Generators & Process Heaters	2010	NOX		5.9549922	0.896323592	0.617392198
SJU	SJU_APCD	4305	Boilers, Steam Generators & Process Heaters	2012	NOX		6.04147263	0.896718455	0.62397263
SJU	SJU_APCD	4305	Boilers, Steam Generators & Process Heaters	2015	NOX		6.17091857	0.897046353	0.635318569
SJU	SJU_APCD	4305	Boilers, Steam Generators & Process Heaters	2018	NOX		6.35783351	0.897035129	0.654633506
SJU	SJU_APCD	4305	Boilers, Steam Generators & Process Heaters	2020	NOX		6.54169519	0.896984624	0.673895186
SJU	SJU_APCD	4354	Glass Melting Furnaces	2002	NOX		12.9568536	0.970135216	0.386953634
SJU	SJU_APCD	4354	Glass Melting Furnaces	2003	NOX		13.1899955	0.961319509	0.510195497
SJU	SJU_APCD	4354	Glass Melting Furnaces	2004	NOX		13.2296448	0.961771185	0.505744848
SJU	SJU_APCD	4354	Glass Melting Furnaces	2005	NOX		13.2896617	0.902633963	1.29396169
SJU	SJU_APCD	4354	Glass Melting Furnaces	2006	NOX		13.3299805	0.715327379	3.79468049
SJU	SJU_APCD	4354	Glass Melting Furnaces	2007	NOX		13.6490182	0.715648546	3.881111816
SJU	SJU_APCD	4354	Glass Melting Furnaces	2008	NOX		14.0014556	0.715261348	3.98675559
SJU	SJU_APCD	4354	Glass Melting Furnaces	2009	NOX		14.2520701	0.714850541	4.06397008
SJU	SJU_APCD	4354	Glass Melting Furnaces	2010	NOX		14.6301393	0.714695859	4.17403934
SJU	SJU_APCD	4354	Glass Melting Furnaces	2012	NOX		15.2232196	0.715032713	4.33811959
SJU	SJU_APCD	4354	Glass Melting Furnaces	2015	NOX		16.2836347	0.714410524	4.65043469
SJU	SJU_APCD	4354	Glass Melting Furnaces	2018	NOX		17.1453828	0.713935651	4.90468276
SJU	SJU_APCD	4354	Glass Melting Furnaces	2020	NOX		17.6895717	0.713731245	5.06397166
SJU	SJU_APCD	4606	Wood Coating Operations	2005	TOG	0.986203443	1.01466109	0.790116038	0.212961089
SJU	SJU_APCD	4606	Wood Coating Operations	2006	TOG	0.986159368	0.988331647	0.790625295	0.206931647
SJU	SJU_APCD	4606	Wood Coating Operations	2007	TOG	0.986552801	1.00959792	0.771	0.231197925

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 130 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SJU	SJU_AP_CD	4606	Wood Coating Operations	2008	TOG	0.986599888	1.04254215	0.771	0.238742153
SJU	SJU_AP_CD	4606	Wood Coating Operations	2009	TOG	0.986633143	1.06990921	0.771	0.245009209
SJU	SJU_AP_CD	4606	Wood Coating Operations	2010	TOG	0.986705871	1.1311284	0.771	0.259028405
SJU	SJU_AP_CD	4606	Wood Coating Operations	2012	TOG	0.986765162	1.18054475	0.771	0.270344747
SJU	SJU_AP_CD	4606	Wood Coating Operations	2015	TOG	0.986758797	1.31738003	0.771	0.301680026
SJU	SJU_AP_CD	4606	Wood Coating Operations	2018	TOG	0.986844164	1.41348898	0.771	0.323688975
SJU	SJU_AP_CD	4606	Wood Coating Operations	2020	TOG	0.986872849	1.44837873	0.771	0.331678729
SJU	SJU_AP_CD	4621	Gasoline Transfer into Stationary Storage	2001	TOG	0.998442743	3.45598476	0.943609484	0.194884763
SJU	SJU_AP_CD	4621	Gasoline Transfer into Stationary Storage	2002	TOG	0.998425042	3.53165915	0.943579166	0.199259155
SJU	SJU_AP_CD	4621	Gasoline Transfer into Stationary Storage	2003	TOG	0.998410097	3.61188462	0.943597958	0.20371767
SJU	SJU_AP_CD	4621	Gasoline Transfer into Stationary Storage	2004	TOG	0.998389992	3.68421257	0.9435864	0.207839693
SJU	SJU_AP_CD	4621	Gasoline Transfer into Stationary Storage	2005	TOG	0.998374167	3.76472316	0.943571306	0.212438412
SJU	SJU_AP_CD	4621	Gasoline Transfer into Stationary Storage	2006	TOG	0.998363063	3.84380348	0.943594202	0.216812804
SJU	SJU_AP_CD	4621	Gasoline Transfer into Stationary Storage	2007	TOG	0.998334516	3.88893903	0.943599915	0.219336492
SJU	SJU_AP_CD	4621	Gasoline Transfer into Stationary Storage	2008	TOG	0.9983055	3.93896494	0.943625681	0.222056466
SJU	SJU_AP_CD	4621	Gasoline Transfer into Stationary Storage	2009	TOG	0.998281239	4.00359409	0.94363221	0.225673752
SJU	SJU_AP_CD	4621	Gasoline Transfer into Stationary Storage	2010	TOG	0.998255228	4.06230886	0.943632404	0.228982586
SJU	SJU_AP_CD	4621	Gasoline Transfer into Stationary Storage	2012	TOG	0.998205353	4.16985546	0.943640398	0.235011396
SJU	SJU_AP_CD	4621	Gasoline Transfer into Stationary Storage	2015	TOG	0.998135382	4.32934607	0.943669936	0.243872343
SJU	SJU_AP_CD	4621	Gasoline Transfer into Stationary Storage	2018	TOG	0.998086289	4.50988636	0.94370524	0.253882971
SJU	SJU_AP_CD	4621	Gasoline Transfer into Stationary Storage	2020	TOG	0.998056106	4.62755981	0.943718813	0.260444558
SJU	SJU_AP_CD	4623	Storage of Organic Liquids	2003	TOG	0.747523418	8.97023305	0.944	0.502333051
SJU	SJU_AP_CD	4623	Storage of Organic Liquids	2004	TOG	0.748743659	9.07023305	0.944	0.507933051
SJU	SJU_AP_CD	4623	Storage of Organic Liquids	2005	TOG	0.750132259	9.17658898	0.944	0.513888983
SJU	SJU_AP_CD	4623	Storage of Organic Liquids	2006	TOG	0.751380998	9.36154661	0.944	0.52424661
SJU	SJU_AP_CD	4623	Storage of Organic Liquids	2007	TOG	0.752637005	9.28315678	0.944	0.51985678
SJU	SJU_AP_CD	4623	Storage of Organic Liquids	2008	TOG	0.754176121	9.21144068	0.944	0.515840678
SJU	SJU_AP_CD	4623	Storage of Organic Liquids	2009	TOG	0.755694968	9.14851695	0.944	0.512316949
SJU	SJU_AP_CD	4623	Storage of Organic Liquids	2010	TOG	0.757218955	9.08728814	0.944	0.508888136
SJU	SJU_AP_CD	4623	Storage of Organic Liquids	2012	TOG	0.759906562	8.98548729	0.944	0.503187288
SJU	SJU_AP_CD	4623	Storage of Organic Liquids	2015	TOG	0.764133803	8.83792373	0.944	0.494923729
SJU	SJU_AP_CD	4623	Storage of Organic Liquids	2018	TOG	0.767848769	8.74110169	0.944	0.489501695
SJU	SJU_AP_CD	4623	Storage of Organic Liquids	2020	TOG	0.770297064	8.67129237	0.944	0.485592373
SJU	SJU_AP_CD	4662	Organic Solvent Degreasing Operations	2000	TOG	0.89663338	12.2889094	0.909055445	1.11760939
SJU	SJU_AP_CD	4662	Organic Solvent Degreasing Operations	2001	TOG	0.887783778	12.1095037	0.818563687	2.1971037
SJU	SJU_AP_CD	4662	Organic Solvent Degreasing Operations	2002	TOG	0.877740109	11.9395825	0.728417429	3.24258252
SJU	SJU_AP_CD	4662	Organic Solvent Degreasing Operations	2003	TOG	0.679807923	11.8050341	0.141134704	10.1389341
SJU	SJU_AP_CD	4662	Organic Solvent Degreasing Operations	2004	TOG	0.669442568	11.6456068	0.142740523	9.98330678
SJU	SJU_AP_CD	4662	Organic Solvent Degreasing Operations	2005	TOG	0.658960346	11.468236	0.14449476	9.81113595
SJU	SJU_AP_CD	4662	Organic Solvent Degreasing Operations	2006	TOG	0.647877359	11.2981553	0.146324772	9.64495531
SJU	SJU_AP_CD	4662	Organic Solvent Degreasing Operations	2007	TOG	0.6395108	11.2012189	0.147724994	9.54651892
SJU	SJU_AP_CD	4662	Organic Solvent Degreasing Operations	2008	TOG	0.63133443	11.1259655	0.149137619	9.46666546
SJU	SJU_AP_CD	4662	Organic Solvent Degreasing Operations	2009	TOG	0.626203143	11.1722073	0.150095675	9.49530733
SJU	SJU_AP_CD	4662	Organic Solvent Degreasing Operations	2010	TOG	0.620487773	11.224743	0.151121499	9.52844305
SJU	SJU_AP_CD	4662	Organic Solvent Degreasing Operations	2012	TOG	0.610391413	11.3136749	0.152965328	9.58307492
SJU	SJU_AP_CD	4662	Organic Solvent Degreasing Operations	2015	TOG	0.595918871	11.4553907	0.155664703	9.67219073
SJU	SJU_AP_CD	4662	Organic Solvent Degreasing Operations	2018	TOG	0.584058489	11.5763547	0.15798583	9.74745467
SJU	SJU_AP_CD	4662	Organic Solvent Degreasing Operations	2020	TOG	0.576165722	11.6554397	0.159513502	9.79623967
SJU	SJU_AP_CD	4663	Organic Solvent Cleaning, Storage and Disposal	2003	TOG	0.457630504	2.65645161	0.31	1.83295161

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 131 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SJU	SJU_APCD	4663	Organic Solvent Cleaning, Storage and Disposal	2004	TOG	0.457399741	2.74290323	0.31	1.89260323
SJU	SJU_APCD	4663	Organic Solvent Cleaning, Storage and Disposal	2005	TOG	0.457195755	2.83419355	0.31	1.95559355
SJU	SJU_APCD	4663	Organic Solvent Cleaning, Storage and Disposal	2006	TOG	0.457101047	2.92612903	0.31	2.01902903
SJU	SJU_APCD	4663	Organic Solvent Cleaning, Storage and Disposal	2007	TOG	0.456988436	3.00709677	0.31	2.07489677
SJU	SJU_APCD	4663	Organic Solvent Cleaning, Storage and Disposal	2008	TOG	0.456991188	3.08967742	0.31	2.13187742
SJU	SJU_APCD	4663	Organic Solvent Cleaning, Storage and Disposal	2009	TOG	0.456696413	3.17451613	0.31	2.19041613
SJU	SJU_APCD	4663	Organic Solvent Cleaning, Storage and Disposal	2010	TOG	0.456477299	3.2583871	0.31	2.2482871
SJU	SJU_APCD	4663	Organic Solvent Cleaning, Storage and Disposal	2012	TOG	0.456283927	3.42387097	0.31	2.36247097
SJU	SJU_APCD	4663	Organic Solvent Cleaning, Storage and Disposal	2015	TOG	0.456335113	3.67290323	0.31	2.53430323
SJU	SJU_APCD	4663	Organic Solvent Cleaning, Storage and Disposal	2018	TOG	0.456155589	3.88741935	0.31	2.68231935
SJU	SJU_APCD	4663	Organic Solvent Cleaning, Storage and Disposal	2020	TOG	0.456010533	4.03032258	0.31	2.78092258
SJU	SJU_APCD	4692	Commercial Charbroiling	2003	PM	0.7	1.96846071	0.929	0.13976071
SJU	SJU_APCD	4692	Commercial Charbroiling	2003	TOG	0.6986	0.65587918	0.927	0.04787918
SJU	SJU_APCD	4692	Commercial Charbroiling	2004	PM	0.7	2.00699677	0.929	0.142496771
SJU	SJU_APCD	4692	Commercial Charbroiling	2004	TOG	0.6986	0.668932039	0.927	0.048832039
SJU	SJU_APCD	4692	Commercial Charbroiling	2005	PM	0.7	2.04800861	0.929	0.145408611
SJU	SJU_APCD	4692	Commercial Charbroiling	2005	TOG	0.6986	0.682632147	0.927	0.049832147
SJU	SJU_APCD	4692	Commercial Charbroiling	2006	PM	0.7	2.07244349	0.929	0.147143488
SJU	SJU_APCD	4692	Commercial Charbroiling	2006	TOG	0.6986	0.690722762	0.927	0.050422762
SJU	SJU_APCD	4692	Commercial Charbroiling	2007	PM	0.7	2.10365985	0.929	0.149359849
SJU	SJU_APCD	4692	Commercial Charbroiling	2007	TOG	0.6986	0.701078749	0.927	0.051178749
SJU	SJU_APCD	4692	Commercial Charbroiling	2008	PM	0.7	2.13724435	0.929	0.151744349
SJU	SJU_APCD	4692	Commercial Charbroiling	2008	TOG	0.6986	0.712405609	0.927	0.052005609
SJU	SJU_APCD	4692	Commercial Charbroiling	2009	PM	0.7	2.17050592	0.929	0.15410592
SJU	SJU_APCD	4692	Commercial Charbroiling	2009	TOG	0.6986	0.723300971	0.927	0.052800971
SJU	SJU_APCD	4692	Commercial Charbroiling	2010	PM	0.7	2.20796555	0.929	0.156765554
SJU	SJU_APCD	4692	Commercial Charbroiling	2010	TOG	0.6986	0.73570658	0.927	0.05370658
SJU	SJU_APCD	4692	Commercial Charbroiling	2012	PM	0.7	2.2744887	0.929	0.161488698
SJU	SJU_APCD	4692	Commercial Charbroiling	2012	TOG	0.6986	0.758036677	0.927	0.055336677
SJU	SJU_APCD	4692	Commercial Charbroiling	2015	PM	0.7	2.37470398	0.929	0.168603983
SJU	SJU_APCD	4692	Commercial Charbroiling	2015	TOG	0.6986	0.791477886	0.927	0.057777886
SJU	SJU_APCD	4692	Commercial Charbroiling	2018	PM	0.7	2.46942949	0.929	0.175329494
SJU	SJU_APCD	4692	Commercial Charbroiling	2018	TOG	0.6986	0.822977346	0.927	0.060077346
SJU	SJU_APCD	4692	Commercial Charbroiling	2020	PM	0.7	2.53240043	0.929	0.179800431
SJU	SJU_APCD	4692	Commercial Charbroiling	2020	TOG	0.6986	0.84390507	0.927	0.06160507
SJU	SJU_APCD	4693	Bakery Ovens	2003	TOG	1	0.817138365	0.636	0.297438365
SJU	SJU_APCD	4693	Bakery Ovens	2004	TOG	1	0.823899371	0.636	0.299899371
SJU	SJU_APCD	4693	Bakery Ovens	2005	TOG	1	0.823899371	0.636	0.299899371
SJU	SJU_APCD	4693	Bakery Ovens	2006	TOG	1	0.823899371	0.636	0.299899371
SJU	SJU_APCD	4693	Bakery Ovens	2007	TOG	1	0.831289308	0.636	0.302589308
SJU	SJU_APCD	4693	Bakery Ovens	2008	TOG	1	0.843867925	0.636	0.307167925
SJU	SJU_APCD	4693	Bakery Ovens	2009	TOG	1	0.856446541	0.636	0.311746541
SJU	SJU_APCD	4693	Bakery Ovens	2010	TOG	1	0.864465409	0.636	0.314665409
SJU	SJU_APCD	4693	Bakery Ovens	2012	TOG	1	0.896226415	0.636	0.326226415
SJU	SJU_APCD	4693	Bakery Ovens	2015	TOG	1	0.936949686	0.636	0.341049686
SJU	SJU_APCD	4693	Bakery Ovens	2018	TOG	1	0.970283019	0.636	0.353183019
SJU	SJU_APCD	4693	Bakery Ovens	2020	TOG	1	0.989779874	0.636	0.360279874
SJU	SJU_APCD	4701	Internal Combustion Engines	2001	NOX		36.8467119	0.463250693	19.7774471
SJU	SJU_APCD	4701	Internal Combustion Engines	2002	NOX		36.9634479	0.465267346	19.7655626

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 132 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SJU	SJU_APCD	4701	Internal Combustion Engines	2003	NOX		37.3323939	0.466926604	19.900906
SJU	SJU_APCD	4701	Internal Combustion Engines	2004	NOX		37.6646353	0.468225065	20.029109
SJU	SJU_APCD	4701	Internal Combustion Engines	2005	NOX		37.9469371	0.469700088	20.1232574
SJU	SJU_APCD	4701	Internal Combustion Engines	2006	NOX		38.6044198	0.471372914	20.4073419
SJU	SJU_APCD	4701	Internal Combustion Engines	2007	NOX		38.3751935	0.471924534	20.2649982
SJU	SJU_APCD	4701	Internal Combustion Engines	2008	NOX		37.7615866	0.470399305	19.9985625
SJU	SJU_APCD	4701	Internal Combustion Engines	2009	NOX		37.4493708	0.470766313	19.8194686
SJU	SJU_APCD	4701	Internal Combustion Engines	2010	NOX		37.2540201	0.470931197	19.7099398
SJU	SJU_APCD	4701	Internal Combustion Engines	2012	NOX		36.9781031	0.472078255	19.5215447
SJU	SJU_APCD	4701	Internal Combustion Engines	2015	NOX		36.6180407	0.473821191	19.267637
SJU	SJU_APCD	4701	Internal Combustion Engines	2018	NOX		36.5292377	0.476335148	19.1290779
SJU	SJU_APCD	4701	Internal Combustion Engines	2020	NOX		36.4389659	0.478087854	19.0179389
SJU	SJU_APCD	4703	Stationary Gas Turbines	2000	NOX		10.0954494	0.790999995	2.10994944
SJU	SJU_APCD	4703	Stationary Gas Turbines	2001	NOX		10.3669649	0.790999951	2.16669616
SJU	SJU_APCD	4703	Stationary Gas Turbines	2002	NOX		11.9450203	0.790999957	2.49650975
SJU	SJU_APCD	4703	Stationary Gas Turbines	2003	NOX		12.3052594	0.751000372	3.06400501
SJU	SJU_APCD	4703	Stationary Gas Turbines	2004	NOX		12.5730964	0.670001182	4.14910695
SJU	SJU_APCD	4703	Stationary Gas Turbines	2005	NOX		12.8597214	0.672001136	4.21797399
SJU	SJU_APCD	4703	Stationary Gas Turbines	2006	NOX		13.3518442	0.570002065	5.74126543
SJU	SJU_APCD	4703	Stationary Gas Turbines	2007	NOX		13.2634796	0.42900343	7.57340136
SJU	SJU_APCD	4703	Stationary Gas Turbines	2008	NOX		13.7819995	0.345004075	9.0271535
SJU	SJU_APCD	4703	Stationary Gas Turbines	2009	NOX		14.3188217	0.345003922	9.37877202
SJU	SJU_APCD	4703	Stationary Gas Turbines	2010	NOX		14.3579627	0.345003912	9.40440939
SJU	SJU_APCD	4703	Stationary Gas Turbines	2012	NOX		14.7040602	0.34500382	9.63110327
SJU	SJU_APCD	4703	Stationary Gas Turbines	2015	NOX		15.1900287	0.345003697	9.94941262
SJU	SJU_APCD	4703	Stationary Gas Turbines	2018	NOX		16.2819339	0.345003449	10.6646105
SJU	SJU_APCD	4703	Stationary Gas Turbines	2020	NOX		17.0009353	0.345003304	11.1355564
SJU	SJU_APCD	4902	Residual Water Heaters	2000	NOX		1.60924025	0.974	0.041840246
SJU	SJU_APCD	4902	Residual Water Heaters	2001	NOX		1.62413066	0.949	0.082830664
SJU	SJU_APCD	4902	Residual Water Heaters	2002	NOX		1.64062839	0.923	0.126328386
SJU	SJU_APCD	4902	Residual Water Heaters	2003	NOX		1.65510907	0.871	0.21350907
SJU	SJU_APCD	4902	Residual Water Heaters	2004	NOX		1.6719715	0.842	0.264171496
SJU	SJU_APCD	4902	Residual Water Heaters	2005	NOX		1.68660934	0.814	0.313709337
SJU	SJU_APCD	4902	Residual Water Heaters	2006	NOX		1.70101781	0.786	0.364017812
SJU	SJU_APCD	4902	Residual Water Heaters	2007	NOX		1.71490765	0.758	0.415007652
SJU	SJU_APCD	4902	Residual Water Heaters	2008	NOX		1.72915531	0.734	0.459955313
SJU	SJU_APCD	4902	Residual Water Heaters	2009	NOX		1.74332425	0.734	0.463724251
SJU	SJU_APCD	4902	Residual Water Heaters	2010	NOX		1.75776567	0.734	0.467565668
SJU	SJU_APCD	4902	Residual Water Heaters	2012	NOX		1.78324251	0.734	0.474342507
SJU	SJU_APCD	4902	Residual Water Heaters	2015	NOX		1.82070845	0.734	0.484308447
SJU	SJU_APCD	4902	Residual Water Heaters	2018	NOX		1.8613079	0.734	0.495107902
SJU	SJU_APCD	4902	Residual Water Heaters	2020	NOX		1.88773842	0.734	0.50213842
SJU	C_COSOXPMPM	ARB_C118	TEOR STEAM GENERATORS LIQUIDS	2000	SOX		0.672662602	0.984	0.010762602
SJU	C_COSOXPMPM	ARB_C118	TEOR STEAM GENERATORS LIQUIDS	2001	SOX		0.671341463	0.984	0.010741463
SJU	C_COSOXPMPM	ARB_C118	TEOR STEAM GENERATORS LIQUIDS	2002	SOX		0.670426829	0.984	0.010726829
SJU	C_COSOXPMPM	ARB_C118	TEOR STEAM GENERATORS LIQUIDS	2003	SOX		0.670731707	0.984	0.010731707
SJU	C_COSOXPMPM	ARB_C118	TEOR STEAM GENERATORS LIQUIDS	2004	SOX		0.671239837	0.984	0.010739837
SJU	C_COSOXPMPM	ARB_C118	TEOR STEAM GENERATORS LIQUIDS	2005	SOX		0.671443089	0.984	0.010743089
SJU	C_COSOXPMPM	ARB_C118	TEOR STEAM GENERATORS LIQUIDS	2006	SOX		0.672764228	0.984	0.010764228

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 133 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SJU	C_COSOXPMPM	ARB_C118	TEOR STEAM GENERATORS LIQUIDS	2007	SOX		0.671036585	0.984	0.010736585
SJU	C_COSOXPMPM	ARB_C118	TEOR STEAM GENERATORS LIQUIDS	2008	SOX		0.668902439	0.984	0.010702439
SJU	C_COSOXPMPM	ARB_C118	TEOR STEAM GENERATORS LIQUIDS	2009	SOX		0.667174797	0.984	0.010674797
SJU	C_COSOXPMPM	ARB_C118	TEOR STEAM GENERATORS LIQUIDS	2010	SOX		0.665345528	0.984	0.010645528
SJU	C_COSOXPMPM	ARB_C118	TEOR STEAM GENERATORS LIQUIDS	2012	SOX		0.662398374	0.984	0.010598374
SJU	C_COSOXPMPM	ARB_C118	TEOR STEAM GENERATORS LIQUIDS	2015	SOX		0.657723577	0.984	0.010523577
SJU	C_COSOXPMPM	ARB_C118	TEOR STEAM GENERATORS LIQUIDS	2018	SOX		0.654268293	0.984	0.010468293
SJU	C_COSOXPMPM	ARB_C118	TEOR STEAM GENERATORS LIQUIDS	2020	SOX		0.651829268	0.984	0.010429268
SJU	C_COSOXPMPM	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		11.5350462	0.973	0.311446249
SJU	C_COSOXPMPM	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		11.7654676	0.973	0.317667626
SJU	C_COSOXPMPM	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		11.9985823	0.917	0.995882334
SJU	C_COSOXPMPM	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		12.2283146	0.89	1.34511461
SJU	C_COSOXPMPM	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		12.4632584	0.89	1.37095843
SJU	C_COSOXPMPM	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		12.7019185	0.834	2.10851847
SJU	C_COSOXPMPM	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		12.8947242	0.834	2.14052422
SJU	C_COSOXPMPM	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		13.0882494	0.834	2.1726494
SJU	C_COSOXPMPM	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		13.2854916	0.834	2.20539161
SJU	C_COSOXPMPM	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		13.4844125	0.834	2.23841247
SJU	C_COSOXPMPM	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		13.6860911	0.834	2.27189113
SJU	C_COSOXPMPM	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		14.0851319	0.834	2.33813189
SJU	C_COSOXPMPM	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		14.7079137	0.834	2.44151367
SJU	C_COSOXPMPM	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		15.3351319	0.834	2.54563189
SJU	C_COSOXPMPM	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		15.7665468	0.834	2.61724676
SLO	ARB	TRAINS	TRAINS EPA MOU	2000	NOX		2.07939394	0.99	0.020793939
SLO	ARB	TRAINS	TRAINS EPA MOU	2001	NOX		2.112	0.95	0.1056
SLO	ARB	TRAINS	TRAINS EPA MOU	2002	NOX		2.14303371	0.89	0.235733708
SLO	ARB	TRAINS	TRAINS EPA MOU	2003	NOX		2.17719512	0.82	0.391895122
SLO	ARB	TRAINS	TRAINS EPA MOU	2004	NOX		2.21144737	0.76	0.530747368
SLO	ARB	TRAINS	TRAINS EPA MOU	2005	PM	1	0.046979167	0.96	0.001879167
SLO	ARB	TRAINS	TRAINS EPA MOU	2005	NOX		2.24558824	0.68	0.718588235
SLO	ARB	TRAINS	TRAINS EPA MOU	2005	TOG	0.8785	0.082604167	0.96	0.003304167
SLO	ARB	TRAINS	TRAINS EPA MOU	2006	PM	1	0.047717391	0.92	0.003817391
SLO	ARB	TRAINS	TRAINS EPA MOU	2006	NOX		2.28142857	0.63	0.844128571
SLO	ARB	TRAINS	TRAINS EPA MOU	2006	TOG	0.8785	0.083978495	0.93	0.005878495
SLO	ARB	TRAINS	TRAINS EPA MOU	2007	PM	1	0.048426966	0.89	0.005326966
SLO	ARB	TRAINS	TRAINS EPA MOU	2007	NOX		2.31728814	0.59	0.950088136
SLO	ARB	TRAINS	TRAINS EPA MOU	2007	TOG	0.8785	0.085333333	0.9	0.008533333
SLO	ARB	TRAINS	TRAINS EPA MOU	2008	PM	1	0.049186047	0.86	0.006886047
SLO	ARB	TRAINS	TRAINS EPA MOU	2008	NOX		2.35315789	0.57	1.01185789
SLO	ARB	TRAINS	TRAINS EPA MOU	2008	TOG	0.8785	0.086551724	0.87	0.011251724
SLO	ARB	TRAINS	TRAINS EPA MOU	2009	PM	1	0.05	0.84	0.008
SLO	ARB	TRAINS	TRAINS EPA MOU	2009	NOX		2.39072727	0.55	1.07582727
SLO	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	0.08797619	0.84	0.01407619
SLO	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	0.050853659	0.82	0.009153659
SLO	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		2.42981481	0.54	1.11771481
SLO	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	0.089390244	0.82	0.016090244
SLO	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	0.052405063	0.79	0.011005063
SLO	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		2.50320755	0.53	1.17650755
SLO	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	0.092125	0.8	0.018425

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 134 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SLO	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	0.0548	0.75	0.0137
SLO	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		2.61882353	0.51	1.28322353
SLO	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	0.096315789	0.76	0.023115789
SLO	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	0.057323944	0.71	0.016623944
SLO	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		2.74104167	0.48	1.42534167
SLO	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	0.100821918	0.73	0.027221918
SLO	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.059130435	0.69	0.018330435
SLO	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		2.82574468	0.47	1.49764468
SLO	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	0.104	0.7	0.0312
SLO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.847080642	2.18498981	0.955153195	0.097989811
SLO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.846819905	2.22534369	0.951583348	0.10774369
SLO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.843571157	2.30265221	0.930361952	0.160352205
SLO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.847782036	2.38036079	0.860583827	0.331860793
SLO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.847156411	2.45837937	0.857150049	0.351179374
SLO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.851785865	2.50895162	0.81404519	0.466551623
SLO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.851793145	2.57238257	0.813836956	0.478882571
SLO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.851672142	2.6351988	0.813638805	0.491098796
SLO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.851640718	2.69719401	0.813475039	0.503094008
SLO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.851633599	2.76196155	0.812936732	0.516661554
SLO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.851556008	2.82358121	0.812868422	0.528381205
SLO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.851583956	2.94295959	0.812651323	0.551359586
SLO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.851558526	3.11886026	0.81282898	0.583760257
SLO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.851562921	3.29763193	0.812765055	0.617431933
SLO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.851537653	3.41617335	0.812722222	0.639773355
SLO	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.713280556	0.209589041	0.876	0.025989041
SLO	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.713280556	0.209589041	0.876	0.025989041
SLO	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.713280556	0.209589041	0.876	0.025989041
SLO	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.713280556	0.209589041	0.876	0.025989041
SLO	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.713280556	0.209589041	0.876	0.025989041
SLO	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.713280556	0.209589041	0.876	0.025989041
SLO	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.713280556	0.209589041	0.876	0.025989041
SLO	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.713280556	0.209589041	0.876	0.025989041
SLO	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.713280556	0.209589041	0.876	0.025989041
SLO	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.713280556	0.209589041	0.876	0.025989041
SLO	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.713280556	0.209589041	0.876	0.025989041
SLO	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2003	TOG	0.978405839	0.939370241	0.860470094	0.131070241
SLO	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2004	TOG	0.979383537	0.948390113	0.803150506	0.186690113
SLO	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2005	TOG	0.979391263	0.957913834	0.802890587	0.188813834
SLO	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2006	TOG	0.979391119	0.967917045	0.80265143	0.191017045
SLO	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2007	TOG	0.979396933	0.975039523	0.80253157	0.192539523
SLO	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2008	TOG	0.979405252	0.982260074	0.80243514	0.194060074
SLO	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2009	TOG	0.979415344	0.989352957	0.802342576	0.195552957
SLO	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2010	TOG	0.979423673	0.99809896	0.802425443	0.19719896
SLO	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2012	TOG	0.979432401	1.01543112	0.802417799	0.200631115
SLO	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2015	TOG	0.979437168	1.04238579	0.802198196	0.206185789
SLO	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2018	TOG	0.979431978	1.07602002	0.802122622	0.212920021
SLO	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2020	TOG	0.979430617	1.09681879	0.802229142	0.216918794
SLO	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.069346049	0.734	0.018446049
SLO	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.070697674	0.645	0.025097674

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 135 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SLO	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.071351351	0.555	0.031751351
SLO	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.071888412	0.466	0.038388412
SLO	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.0728	0.375	0.0455
SLO	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.0736	0.375	0.046
SLO	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.074933333	0.375	0.046833333
SLO	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.0776	0.375	0.0485
SLO	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.080533333	0.375	0.050333333
SLO	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.0824	0.375	0.0515
SLO	COMBINED	ARB_C316	CUTBACK ASPHALT PAVING MATERIA	2000	TOG	1	0.127097506	0.882	0.014997506
SLO	COMBINED	ARB_C316	CUTBACK ASPHALT PAVING MATERIA	2001	TOG	1	0.127437642	0.882	0.015037642
SLO	COMBINED	ARB_C316	CUTBACK ASPHALT PAVING MATERIA	2002	TOG	1	0.129024943	0.882	0.015224943
SLO	COMBINED	ARB_C316	CUTBACK ASPHALT PAVING MATERIA	2003	TOG	1	0.128571429	0.882	0.015171429
SLO	COMBINED	ARB_C316	CUTBACK ASPHALT PAVING MATERIA	2004	TOG	1	0.128117914	0.882	0.015117914
SLO	COMBINED	ARB_C316	CUTBACK ASPHALT PAVING MATERIA	2005	TOG	1	0.128004535	0.882	0.015104535
SLO	COMBINED	ARB_C316	CUTBACK ASPHALT PAVING MATERIA	2006	TOG	1	0.128117914	0.882	0.015117914
SLO	COMBINED	ARB_C316	CUTBACK ASPHALT PAVING MATERIA	2007	TOG	1	0.127777778	0.882	0.015077778
SLO	COMBINED	ARB_C316	CUTBACK ASPHALT PAVING MATERIA	2008	TOG	1	0.12755102	0.882	0.01505102
SLO	COMBINED	ARB_C316	CUTBACK ASPHALT PAVING MATERIA	2009	TOG	1	0.12755102	0.882	0.01505102
SLO	COMBINED	ARB_C316	CUTBACK ASPHALT PAVING MATERIA	2010	TOG	1	0.127664399	0.882	0.015064399
SLO	COMBINED	ARB_C316	CUTBACK ASPHALT PAVING MATERIA	2012	TOG	1	0.128117914	0.882	0.015117914
SLO	COMBINED	ARB_C316	CUTBACK ASPHALT PAVING MATERIA	2015	TOG	1	0.128911565	0.882	0.015211565
SLO	COMBINED	ARB_C316	CUTBACK ASPHALT PAVING MATERIA	2018	TOG	1	0.129591837	0.882	0.015291837
SLO	COMBINED	ARB_C316	CUTBACK ASPHALT PAVING MATERIA	2020	TOG	1	0.130045351	0.882	0.015345351
SLO	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2000	TOG	0.995295671	0.107126697	0.884	0.012426697
SLO	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2001	TOG	0.995252041	0.110859729	0.884	0.012859729
SLO	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2002	TOG	0.995158683	0.113348416	0.884	0.013148416
SLO	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2003	TOG	0.995074146	0.115950226	0.884	0.013450226
SLO	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2004	TOG	0.995073684	0.11821267	0.884	0.01371267
SLO	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2005	TOG	0.99494707	0.119683258	0.884	0.013883258
SLO	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2006	TOG	0.994866667	0.122171946	0.884	0.014171946
SLO	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2007	TOG	0.994827681	0.12341629	0.884	0.01431629
SLO	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2008	TOG	0.994699637	0.124660633	0.884	0.014460633
SLO	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2009	TOG	0.994583857	0.126131222	0.884	0.014631222
SLO	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2010	TOG	0.994465839	0.127488688	0.884	0.014788688
SLO	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2012	TOG	0.994318261	0.130090498	0.884	0.015090498
SLO	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2015	TOG	0.994117992	0.135180995	0.884	0.015680995
SLO	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2018	TOG	0.993932258	0.140271493	0.884	0.016271493
SLO	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2020	TOG	0.993856245	0.144004525	0.884	0.016704525
SLO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.087848101	0.395	0.053148101
SLO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.089620253	0.395	0.054220253
SLO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.09164557	0.395	0.05544557
SLO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.093417722	0.395	0.056517722
SLO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.09443038	0.395	0.05713038
SLO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.096202532	0.395	0.058202532
SLO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.09721519	0.395	0.05881519
SLO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.098227848	0.395	0.059427848
SLO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.099240506	0.395	0.060040506
SLO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.1	0.395	0.0605
SLO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.102025316	0.395	0.061725316

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 136 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
SLO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.105822785	0.395	0.064022785
SLO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.109620253	0.395	0.066320253
SLO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.112405063	0.395	0.068005063
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		1.13679342	0.973	0.030693422
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.127508455	0.887	0.014408455
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		1.15950668	0.973	0.03130668
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.129988726	0.887	0.014688726
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		1.1825518	0.917	0.098151799
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.132579186	0.663	0.044679186
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		1.20516854	0.89	0.132568539
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.135144928	0.552	0.060544928
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		1.22820225	0.89	0.135102247
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.137862319	0.552	0.061762319
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		1.25203837	0.834	0.207838369
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.14054878	0.328	0.09444878
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		1.27074341	0.834	0.210943405
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.142378049	0.328	0.095678049
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		1.28980815	0.834	0.214108153
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.144817073	0.328	0.097317073
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		1.30935252	0.834	0.217352518
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.14695122	0.328	0.09875122
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		1.32889688	0.834	0.220596882
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.149085366	0.328	0.100185366
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		1.34880096	0.834	0.223900959
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.151219512	0.328	0.101619512
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		1.3881295	0.834	0.230429496
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.156097561	0.328	0.104897561
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		1.44976019	0.834	0.240660192
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.1625	0.328	0.1092
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		1.51139089	0.834	0.250890887
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.169512195	0.328	0.113912195
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		1.55383693	0.834	0.25793693
SLO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.174390244	0.328	0.117190244
TEH	ARB	TRAINs	TRAINs EPA MOU	2000	NOX		3.20929293	0.99	0.032092929
TEH	ARB	TRAINs	TRAINs EPA MOU	2001	NOX		3.25957895	0.95	0.162978947
TEH	ARB	TRAINs	TRAINs EPA MOU	2002	NOX		3.30730337	0.89	0.363803371
TEH	ARB	TRAINs	TRAINs EPA MOU	2003	NOX		3.36012195	0.82	0.604821951
TEH	ARB	TRAINs	TRAINs EPA MOU	2004	NOX		3.41302632	0.76	0.819126316
TEH	ARB	TRAINs	TRAINs EPA MOU	2005	PM	1	0.071666667	0.96	0.002866667
TEH	ARB	TRAINs	TRAINs EPA MOU	2005	NOX		3.46573529	0.68	1.10903529
TEH	ARB	TRAINs	TRAINs EPA MOU	2005	TOG	0.8785	0.1128125	0.96	0.0045125
TEH	ARB	TRAINs	TRAINs EPA MOU	2006	PM	1	0.072717391	0.92	0.005817391
TEH	ARB	TRAINs	TRAINs EPA MOU	2006	NOX		3.52111111	0.63	1.30281111
TEH	ARB	TRAINs	TRAINs EPA MOU	2006	TOG	0.8785	0.114623656	0.93	0.008023656
TEH	ARB	TRAINs	TRAINs EPA MOU	2007	PM	1	0.073932584	0.89	0.008132584
TEH	ARB	TRAINs	TRAINs EPA MOU	2007	NOX		3.57644068	0.59	1.46634068
TEH	ARB	TRAINs	TRAINs EPA MOU	2007	TOG	0.8785	0.116444444	0.9	0.011644444
TEH	ARB	TRAINs	TRAINs EPA MOU	2008	PM	1	0.075	0.86	0.0105
TEH	ARB	TRAINs	TRAINs EPA MOU	2008	NOX		3.63175439	0.57	1.56165439

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 137 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
TEH	ARB	TRAINS	TRAINS EPA MOU	2008	TOG	0.8785	0.11816092	0.87	0.01536092
TEH	ARB	TRAINS	TRAINS EPA MOU	2009	PM	1	0.076309524	0.84	0.012209524
TEH	ARB	TRAINS	TRAINS EPA MOU	2009	NOX		3.68963636	0.55	1.66033636
TEH	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	0.120119048	0.84	0.019219048
TEH	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	0.077560976	0.82	0.013960976
TEH	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		3.75	0.54	1.725
TEH	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	0.122073171	0.82	0.021973171
TEH	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	0.079873418	0.79	0.016773418
TEH	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		3.86320755	0.53	1.81570755
TEH	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	0.12575	0.8	0.02515
TEH	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	0.083466667	0.75	0.020866667
TEH	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		4.04176471	0.51	1.98046471
TEH	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	0.131578947	0.76	0.031578947
TEH	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	0.087464789	0.71	0.025364789
TEH	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		4.23041667	0.48	2.19981667
TEH	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	0.137671233	0.73	0.037171233
TEH	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.090144928	0.69	0.027944928
TEH	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		4.3612766	0.47	2.3114766
TEH	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	0.142	0.7	0.0426
TEH	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.844094479	0.476450505	0.954138982	0.021850505
TEH	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.84414296	0.4842025	0.950428798	0.0240025
TEH	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.841131487	0.499729654	0.928502034	0.035729654
TEH	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.845263969	0.515731711	0.857810352	0.073331711
TEH	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.844379094	0.528841252	0.855644295	0.076341252
TEH	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.84899826	0.537570375	0.812544777	0.100770375
TEH	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.84914748	0.552310501	0.811862166	0.103910501
TEH	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.849270449	0.566681557	0.810331648	0.107481557
TEH	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.84901583	0.580479912	0.809674875	0.110479912
TEH	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.848952609	0.594227821	0.809622139	0.113127821
TEH	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.848985056	0.607714715	0.810413156	0.115214715
TEH	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.848951636	0.629962755	0.810365369	0.119462755
TEH	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.849063089	0.664224221	0.810870761	0.125624221
TEH	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.849051113	0.699058019	0.809947079	0.132858019
TEH	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.848912494	0.723603852	0.809697182	0.137703852
TEH	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.711771562	0.048972603	0.876	0.006072603
TEH	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.711771562	0.048972603	0.876	0.006072603
TEH	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.711771562	0.048972603	0.876	0.006072603
TEH	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.711771562	0.048972603	0.876	0.006072603
TEH	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.711771562	0.048972603	0.876	0.006072603
TEH	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.711771562	0.048972603	0.876	0.006072603
TEH	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.711771562	0.048972603	0.876	0.006072603
TEH	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.711771562	0.048972603	0.876	0.006072603
TEH	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.711771562	0.048972603	0.876	0.006072603
TEH	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.711771562	0.048972603	0.876	0.006072603
TEH	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.711771562	0.048972603	0.876	0.006072603
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	PM	0.96	0.022522523	0.999	0.000022523
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	NOX		0.318618619	0.999	0.000318619
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	PM	0.96	0.022668004	0.997	0.000068004
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	NOX		0.319839679	0.998	0.000639679

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 138 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	PM	0.96	0.022736419	0.994	0.000136419
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	NOX		0.321306533	0.995	0.001606533
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	PM	0.96	0.022851365	0.989	0.000251365
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	NOX		0.322479839	0.992	0.002579839
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	PM	0.96	0.022990844	0.983	0.000390844
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	NOX		0.324012158	0.987	0.004212158
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	PM	0.96	0.023076923	0.975	0.000576923
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	NOX		0.325382263	0.981	0.006182263
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	PM	0.96	0.023182297	0.949	0.001182297
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	NOX		0.326847034	0.961	0.012747034
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	PM	0.96	0.023268398	0.924	0.001768398
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	NOX		0.328237792	0.942	0.019037792
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	PM	0.96	0.023273942	0.898	0.002373942
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	NOX		0.329718004	0.922	0.025718004
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	PM	0.96	0.023394495	0.872	0.002994495
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	NOX		0.331118494	0.903	0.032118494
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	PM	0.96	0.023522459	0.846	0.003622459
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	NOX		0.332352941	0.884	0.038552941
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	PM	0.96	0.023773585	0.795	0.004873585
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	NOX		0.335329341	0.835	0.055329341
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	PM	0.96	0.024094708	0.718	0.006794708
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	NOX		0.339442231	0.753	0.083842231
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	PM	0.96	0.024336973	0.641	0.008736973
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	NOX		0.344090909	0.66	0.116990909
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	PM	0.96	0.024576271	0.59	0.010076271
TEH	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	NOX		0.346959459	0.592	0.141559459
TEH	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO		0.002024747	0.889	0.000224747
TEH	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		0.002024747	0.889	0.000224747
TEH	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		0.001928021	0.778	0.000428021
TEH	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		0.001928021	0.778	0.000428021
TEH	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.002043597	0.734	0.000543597
TEH	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	TOG	0.6986	0.00011534	0.867	0.00001534
TEH	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.001949025	0.667	0.000649025
TEH	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.002	0.6	0.0008
TEH	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.001978417	0.556	0.000878417
TEH	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2012	TOG	0.9021	0.002782071	0.647	0.000982071
TEH	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2015	TOG	0.9021	0.002782071	0.647	0.000982071
TEH	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2018	TOG	0.9021	0.002782071	0.647	0.000982071
TEH	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2020	TOG	0.9021	0.002936631	0.647	0.001036631
TEH	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.014850136	0.734	0.003950136
TEH	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.015813953	0.645	0.005613953
TEH	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.015855856	0.555	0.007055856
TEH	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.015665236	0.466	0.008365236
TEH	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.015733333	0.375	0.009833333
TEH	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.0168	0.375	0.0105
TEH	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.0168	0.375	0.0105
TEH	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.0168	0.375	0.0105
TEH	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.0176	0.375	0.011
TEH	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.0176	0.375	0.011

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 139 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
TEH	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2000	TOG	1	0.019499106	0.559	0.008599106
TEH	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2001	TOG	1	0.020751342	0.559	0.009151342
TEH	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2002	TOG	1	0.020751342	0.559	0.009151342
TEH	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2003	TOG	1	0.022003578	0.559	0.009703578
TEH	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2004	TOG	1	0.022003578	0.559	0.009703578
TEH	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2005	TOG	1	0.022003578	0.559	0.009703578
TEH	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2006	TOG	1	0.023434705	0.559	0.010334705
TEH	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2007	TOG	1	0.023434705	0.559	0.010334705
TEH	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2008	TOG	1	0.023434705	0.559	0.010334705
TEH	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2009	TOG	1	0.023434705	0.559	0.010334705
TEH	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2010	TOG	1	0.024686941	0.559	0.010886941
TEH	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2012	TOG	1	0.024686941	0.559	0.010886941
TEH	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2015	TOG	1	0.024686941	0.559	0.010886941
TEH	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2018	TOG	1	0.025939177	0.559	0.011439177
TEH	COMBINED	ARB_C402	GASOLN WRKG LS-TNK CR/TRK:BULK	2020	TOG	1	0.025939177	0.559	0.011439177
TEH	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.018987342	0.395	0.011487342
TEH	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.018987342	0.395	0.011487342
TEH	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.020253165	0.395	0.012253165
TEH	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.020253165	0.395	0.012253165
TEH	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.020253165	0.395	0.012253165
TEH	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.021265823	0.395	0.012865823
TEH	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.021265823	0.395	0.012865823
TEH	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.021265823	0.395	0.012865823
TEH	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.021265823	0.395	0.012865823
TEH	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.022531646	0.395	0.013631646
TEH	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.022531646	0.395	0.013631646
TEH	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.022531646	0.395	0.013631646
TEH	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.023797468	0.395	0.014397468
TEH	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.023797468	0.395	0.014397468
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		0.395889003	0.973	0.010689003
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.04475761	0.887	0.00505761
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		0.403905447	0.973	0.010905447
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.045659526	0.887	0.005159526
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		0.411886587	0.917	0.034186587
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.046606335	0.663	0.015706335
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		0.419775281	0.89	0.046175281
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.047463768	0.552	0.021263768
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		0.427865169	0.89	0.047065169
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.048369565	0.552	0.021669565
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		0.436211031	0.834	0.072411031
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.049390244	0.328	0.033190244
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		0.442925659	0.834	0.073525659
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.05	0.328	0.0336
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		0.449520384	0.834	0.074620384
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.050914634	0.328	0.034214634
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		0.456235012	0.834	0.075735012
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.051829268	0.328	0.034829268
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		0.46294964	0.834	0.07684964
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.052439024	0.328	0.035239024

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 140 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		0.470023981	0.834	0.078023981
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.053353659	0.328	0.035853659
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		0.48381295	0.834	0.08031295
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.054878049	0.328	0.036878049
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		0.505275779	0.834	0.083875779
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.057012195	0.328	0.038312195
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		0.526618705	0.834	0.087418705
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.05945122	0.328	0.03995122
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		0.541366906	0.834	0.089866906
TEH	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.061280488	0.328	0.041180488
TUO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.841355621	0.463590075	0.95364423	0.021490075
TUO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.841355607	0.474077862	0.949843973	0.023777862
TUO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.840601584	0.495903146	0.929415357	0.035003146
TUO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.844714318	0.509149886	0.860061078	0.071249886
TUO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.844302819	0.522605309	0.855330002	0.075605309
TUO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.849139684	0.52942475	0.812957838	0.09902475
TUO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.849066924	0.541834517	0.811317822	0.102234517
TUO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.848978048	0.551416006	0.812091045	0.103616006
TUO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.848732916	0.562140518	0.810651403	0.106440518
TUO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.848824358	0.571747499	0.810672545	0.108247499
TUO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.848717791	0.582656854	0.809395781	0.11056854
TUO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.848750959	0.598182914	0.810287269	0.113482914
TUO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.848841493	0.621590526	0.810340536	0.117890526
TUO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.848981548	0.643066176	0.811580549	0.121166176
TUO	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.848597905	0.660185916	0.809620422	0.125685916
TUO	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.71335	0.047260274	0.876	0.005860274
TUO	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.71335	0.047260274	0.876	0.005860274
TUO	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.71335	0.047260274	0.876	0.005860274
TUO	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.71335	0.047260274	0.876	0.005860274
TUO	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.71335	0.047260274	0.876	0.005860274
TUO	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.71335	0.047260274	0.876	0.005860274
TUO	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.71335	0.047260274	0.876	0.005860274
TUO	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.71335	0.047260274	0.876	0.005860274
TUO	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.71335	0.047260274	0.876	0.005860274
TUO	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.71335	0.047260274	0.876	0.005860274
TUO	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.71335	0.047260274	0.876	0.005860274
TUO	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2012	TOG	0.992	0.005830583	0.909	0.000530583
TUO	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2015	TOG	0.992	0.005940594	0.909	0.000540594
TUO	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2018	TOG	0.992	0.006160616	0.909	0.000560616
TUO	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2020	TOG	0.992	0.006270627	0.909	0.000570627
TUO	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.014441417	0.734	0.003841417
TUO	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.014418605	0.645	0.005118605
TUO	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.014414414	0.555	0.006414414
TUO	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.014377682	0.466	0.007677682
TUO	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.0152	0.375	0.0095
TUO	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.0152	0.375	0.0095
TUO	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.0152	0.375	0.0095
TUO	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.0152	0.375	0.0095
TUO	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.015733333	0.375	0.009833333

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 141 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
TUO	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.015733333	0.375	0.009833333
TUO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2001	TOG	1	0.017721519	0.395	0.010721519
TUO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2002	TOG	1	0.018481013	0.395	0.011181013
TUO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2003	TOG	1	0.018481013	0.395	0.011181013
TUO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2004	TOG	1	0.018481013	0.395	0.011181013
TUO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2005	TOG	1	0.019493671	0.395	0.011793671
TUO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2006	TOG	1	0.019493671	0.395	0.011793671
TUO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2007	TOG	1	0.019493671	0.395	0.011793671
TUO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2008	TOG	1	0.019493671	0.395	0.011793671
TUO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2009	TOG	1	0.020506329	0.395	0.012406329
TUO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2010	TOG	1	0.020506329	0.395	0.012406329
TUO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2012	TOG	1	0.020506329	0.395	0.012406329
TUO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2015	TOG	1	0.020506329	0.395	0.012406329
TUO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2018	TOG	1	0.021265823	0.395	0.012865823
TUO	COMBINED	ARB_C403	GASOLN WRKG LS-UNDG TNK:SVC ST	2020	TOG	1	0.021265823	0.395	0.012865823
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		0.322096608	0.973	0.008696608
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2000	TOG	0.9219	0.036302142	0.887	0.004102142
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		0.328571429	0.973	0.008871429
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2001	TOG	0.9219	0.036978579	0.887	0.004178579
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		0.335005453	0.917	0.027805453
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2002	TOG	0.9219	0.037707391	0.663	0.012707391
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		0.341460674	0.89	0.037560674
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2003	TOG	0.9219	0.038586957	0.552	0.017286957
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		0.347977528	0.89	0.038277528
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2004	TOG	0.9219	0.039130435	0.552	0.017530435
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		0.354676259	0.834	0.058876259
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2005	TOG	0.9219	0.040243902	0.328	0.027043902
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		0.360071942	0.834	0.059771942
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2006	TOG	0.9219	0.04054878	0.328	0.02724878
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		0.365347722	0.834	0.060647722
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2007	TOG	0.9219	0.041158537	0.328	0.027658537
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		0.371103118	0.834	0.061603118
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2008	TOG	0.9219	0.042073171	0.328	0.028273171
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		0.376618705	0.834	0.062518705
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2009	TOG	0.9219	0.042378049	0.328	0.028478049
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		0.382254197	0.834	0.063454197
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2010	TOG	0.9219	0.042987805	0.328	0.028887805
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		0.393165468	0.834	0.065265468
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2012	TOG	0.9219	0.044207317	0.328	0.029707317
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		0.410551559	0.834	0.068151559
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2015	TOG	0.9219	0.046341463	0.328	0.031141463
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		0.428297362	0.834	0.071097362
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2018	TOG	0.9219	0.04847561	0.328	0.03257561
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		0.440167866	0.834	0.073067866
TUO	COMBINED	ARB_C804	OFF-ROAD MOTORCYCLES	2020	TOG	0.9219	0.049695122	0.328	0.033395122
VEN	ARB	TRAINS	TRAINS EPA MOU	2000	NOX		1.28343434	0.99	0.012834343
VEN	ARB	TRAINS	TRAINS EPA MOU	2001	NOX		1.30347368	0.95	0.065173684
VEN	ARB	TRAINS	TRAINS EPA MOU	2002	NOX		1.32258427	0.89	0.14548427
VEN	ARB	TRAINS	TRAINS EPA MOU	2003	NOX		1.34378049	0.82	0.241880488

**CCOS EMISSION REDUCTIONS BY RULE, v2.11**  
 December 8, 2003

Page 142 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
VEN	ARB	TRAINS	TRAINS EPA MOU	2004	NOX		1.36486842	0.76	0.327568421
VEN	ARB	TRAINS	TRAINS EPA MOU	2005	PM	1	0.029375	0.96	0.001175
VEN	ARB	TRAINS	TRAINS EPA MOU	2005	NOX		1.38602941	0.68	0.443529412
VEN	ARB	TRAINS	TRAINS EPA MOU	2005	TOG	0.8785	0.050520833	0.96	0.002020833
VEN	ARB	TRAINS	TRAINS EPA MOU	2006	PM	1	0.029782609	0.92	0.002382609
VEN	ARB	TRAINS	TRAINS EPA MOU	2006	NOX		1.40809524	0.63	0.520995238
VEN	ARB	TRAINS	TRAINS EPA MOU	2006	TOG	0.8785	0.051397849	0.93	0.003597849
VEN	ARB	TRAINS	TRAINS EPA MOU	2007	PM	1	0.030224719	0.89	0.003324719
VEN	ARB	TRAINS	TRAINS EPA MOU	2007	NOX		1.43016949	0.59	0.586369492
VEN	ARB	TRAINS	TRAINS EPA MOU	2007	TOG	0.8785	0.052111111	0.9	0.005211111
VEN	ARB	TRAINS	TRAINS EPA MOU	2008	PM	1	0.030697674	0.86	0.004297674
VEN	ARB	TRAINS	TRAINS EPA MOU	2008	NOX		1.45245614	0.57	0.62455614
VEN	ARB	TRAINS	TRAINS EPA MOU	2008	TOG	0.8785	0.052988506	0.87	0.006888506
VEN	ARB	TRAINS	TRAINS EPA MOU	2009	PM	1	0.031190476	0.84	0.004990476
VEN	ARB	TRAINS	TRAINS EPA MOU	2009	NOX		1.47545455	0.55	0.663954545
VEN	ARB	TRAINS	TRAINS EPA MOU	2009	TOG	0.8785	0.053809524	0.84	0.008609524
VEN	ARB	TRAINS	TRAINS EPA MOU	2010	PM	1	0.031707317	0.82	0.005707317
VEN	ARB	TRAINS	TRAINS EPA MOU	2010	NOX		1.49962963	0.54	0.68982963
VEN	ARB	TRAINS	TRAINS EPA MOU	2010	TOG	0.8785	0.054756098	0.82	0.009856098
VEN	ARB	TRAINS	TRAINS EPA MOU	2012	PM	1	0.032658228	0.79	0.006858228
VEN	ARB	TRAINS	TRAINS EPA MOU	2012	NOX		1.54490566	0.53	0.72610566
VEN	ARB	TRAINS	TRAINS EPA MOU	2012	TOG	0.8785	0.056375	0.8	0.011275
VEN	ARB	TRAINS	TRAINS EPA MOU	2015	PM	1	0.034266667	0.75	0.008566667
VEN	ARB	TRAINS	TRAINS EPA MOU	2015	NOX		1.61627451	0.51	0.79197451
VEN	ARB	TRAINS	TRAINS EPA MOU	2015	TOG	0.8785	0.058947368	0.76	0.014147368
VEN	ARB	TRAINS	TRAINS EPA MOU	2018	PM	1	0.035774648	0.71	0.010374648
VEN	ARB	TRAINS	TRAINS EPA MOU	2018	NOX		1.69166667	0.48	0.879666667
VEN	ARB	TRAINS	TRAINS EPA MOU	2018	TOG	0.8785	0.061643836	0.73	0.016643836
VEN	ARB	TRAINS	TRAINS EPA MOU	2020	PM	1	0.036956522	0.69	0.011456522
VEN	ARB	TRAINS	TRAINS EPA MOU	2020	NOX		1.74404255	0.47	0.924342553
VEN	ARB	TRAINS	TRAINS EPA MOU	2020	TOG	0.8785	0.063571429	0.7	0.019071429
VEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2000	TOG	0.847596972	6.63408068	0.955414971	0.295780676
VEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2001	TOG	0.847357419	6.73282042	0.9519339	0.323620419
VEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2002	TOG	0.844090008	6.81977697	0.930572955	0.473476965
VEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2003	TOG	0.84836998	6.90502978	0.861401064	0.957029784
VEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2004	TOG	0.847781636	6.99219216	0.857928367	0.993392161
VEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2005	TOG	0.852349391	7.1031706	0.803092073	1.3986706
VEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2006	TOG	0.852363294	7.1893705	0.803130121	1.4153705
VEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2007	TOG	0.852304441	7.27432072	0.802947825	1.43342072
VEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2008	TOG	0.852231546	7.35994579	0.802804826	1.45134579
VEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2009	TOG	0.852191078	7.44544449	0.802665309	1.46924449
VEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2010	TOG	0.852098003	7.53020842	0.802501028	1.48720842
VEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2012	TOG	0.852130446	7.6715679	0.802639054	1.5140679
VEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2015	TOG	0.852119132	7.88235573	0.802894492	1.55365573
VEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2018	TOG	0.852135678	8.09184598	0.803154189	1.59284598
VEN	ARB	ARB_R003	CONSUMER PRODUCT REGULATIONS & AMENDMENTS	2020	TOG	0.852125883	8.23164586	0.803350886	1.61874586
VEN	ARB	ARB_R007	AEROSOL COATING REGULATION	2004	TOG	0.71324325	0.651141553	0.876	0.080741553
VEN	ARB	ARB_R007	AEROSOL COATING REGULATION	2005	TOG	0.71324325	0.651141553	0.876	0.080741553
VEN	ARB	ARB_R007	AEROSOL COATING REGULATION	2006	TOG	0.71324325	0.651141553	0.876	0.080741553

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 143 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
VEN	ARB	ARB_R007	AEROSOL COATING REGULATION	2007	TOG	0.71324325	0.651141553	0.876	0.080741553
VEN	ARB	ARB_R007	AEROSOL COATING REGULATION	2008	TOG	0.71324325	0.651141553	0.876	0.080741553
VEN	ARB	ARB_R007	AEROSOL COATING REGULATION	2009	TOG	0.71324325	0.651141553	0.876	0.080741553
VEN	ARB	ARB_R007	AEROSOL COATING REGULATION	2010	TOG	0.71324325	0.651141553	0.876	0.080741553
VEN	ARB	ARB_R007	AEROSOL COATING REGULATION	2012	TOG	0.71324325	0.651141553	0.876	0.080741553
VEN	ARB	ARB_R007	AEROSOL COATING REGULATION	2015	TOG	0.71324325	0.651141553	0.876	0.080741553
VEN	ARB	ARB_R007	AEROSOL COATING REGULATION	2018	TOG	0.71324325	0.651141553	0.876	0.080741553
VEN	ARB	ARB_R007	AEROSOL COATING REGULATION	2020	TOG	0.71324325	0.651141553	0.876	0.080741553
VEN	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2003	TOG	0.978576427	2.99055857	0.864721403	0.404558567
VEN	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2004	TOG	0.979490865	3.02637135	0.81100424	0.571971353
VEN	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2005	TOG	0.979492659	3.06354093	0.811022297	0.578940927
VEN	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2006	TOG	0.979490371	3.10024489	0.81100045	0.585944889
VEN	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2007	TOG	0.979491513	3.13666101	0.811021655	0.592761005
VEN	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2008	TOG	0.979488908	3.17386631	0.810966735	0.599966312
VEN	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2009	TOG	0.97948906	3.21001202	0.810962696	0.606812017
VEN	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2010	TOG	0.979490376	3.24675362	0.810963907	0.613753621
VEN	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2012	TOG	0.979490968	3.30926138	0.810996683	0.625461377
VEN	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2015	TOG	0.979490101	3.40443928	0.810970552	0.643539277
VEN	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2018	TOG	0.979493555	3.49910113	0.811036862	0.661201128
VEN	ARB	ARCH_SCM	ARCHITECTURAL COATINGS SCM	2020	TOG	0.97948987	3.56292482	0.81099101	0.673424824
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	PM	0.96	0.208908909	0.999	0.000208909
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2000	NOX		2.52832833	0.999	0.002528328
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	PM	0.96	0.208826479	0.997	0.000626479
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2001	NOX		2.52665331	0.998	0.005053307
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	PM	0.96	0.208752515	0.994	0.001252515
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2002	NOX		2.52763819	0.995	0.012638191
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	PM	0.96	0.208796764	0.989	0.002296764
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2003	NOX		2.52620968	0.992	0.020209677
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	PM	0.96	0.208850458	0.983	0.003550458
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2004	NOX		2.52725431	0.987	0.032854306
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	PM	0.96	0.208820513	0.975	0.005220513
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2005	NOX		2.52680938	0.981	0.048009378
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	PM	0.96	0.208746048	0.949	0.010646048
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2006	NOX		2.52757544	0.961	0.098575442
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	PM	0.96	0.208766234	0.924	0.015866234
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2007	NOX		2.52728238	0.942	0.146582378
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	PM	0.96	0.208685969	0.898	0.021285969
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2008	NOX		2.52819957	0.922	0.197199566
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	PM	0.96	0.208944954	0.872	0.026744954
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2009	NOX		2.52790698	0.903	0.245206977
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	PM	0.96	0.208865248	0.846	0.032165248
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2010	NOX		2.52590498	0.884	0.293004977
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	PM	0.96	0.208805031	0.795	0.042805031
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2012	NOX		2.52682635	0.835	0.416926347
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	PM	0.96	0.208774373	0.718	0.058874373
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2015	NOX		2.52576361	0.753	0.623863612
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	PM	0.96	0.208892356	0.641	0.074992356
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2018	NOX		2.52757576	0.66	0.859375758
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	PM	0.96	0.208983051	0.59	0.085683051

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 144 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
VEN	ARB	AG_IC_ATCM	Agricultural IC Engine ATCM Benefits	2020	NOX		2.52618243	0.592	1.03068243
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2005	CO		0.16	0.75	0.04
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2005	PM	0.5976	0.022301136	0.704	0.006601136
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2005	NOX		0.426700252	0.794	0.087900252
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2005	TOG	0.6695	0.059302326	0.774	0.013402326
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	CO		0.160084034	0.714	0.045784034
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	PM	0.5976	0.022338831	0.667	0.007438831
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	NOX		0.426701571	0.764	0.100701571
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2006	TOG	0.6695	0.05922865	0.726	0.01622865
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	CO		0.160088365	0.679	0.051388365
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	PM	0.5976	0.022222222	0.63	0.008222222
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	NOX		0.426739427	0.733	0.113939427
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2007	TOG	0.6695	0.059221902	0.694	0.018121902
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	CO		0.160031104	0.643	0.057131104
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	PM	0.5976	0.022259696	0.593	0.009059696
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	NOX		0.426742532	0.703	0.126742532
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2008	TOG	0.6695	0.059224806	0.645	0.021024806
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	CO		0.159967051	0.607	0.062867051
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	PM	0.5976	0.022302158	0.556	0.009902158
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	NOX		0.426636905	0.672	0.139936905
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2009	TOG	0.6695	0.059216966	0.613	0.022916966
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	CO		0.160070053	0.571	0.068670053
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	PM	0.5976	0.022350674	0.519	0.010750674
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	NOX		0.42671875	0.64	0.15361875
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2010	TOG	0.6695	0.059292035	0.565	0.025792035
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	CO		0.160038241	0.523	0.076338241
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	PM	0.5976	0.022362869	0.474	0.011762869
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	NOX		0.426689189	0.592	0.174089189
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2012	TOG	0.6695	0.059171598	0.507	0.029171598
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	CO		0.159955752	0.452	0.087655752
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	PM	0.5976	0.022358722	0.407	0.013258722
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	NOX		0.426589595	0.519	0.205189595
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2015	TOG	0.6695	0.059188544	0.419	0.034388544
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	CO		0.160146699	0.409	0.094646699
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	PM	0.5976	0.022327044	0.318	0.015227044
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	NOX		0.426609442	0.466	0.227809442
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2018	TOG	0.6695	0.059279778	0.361	0.037879778
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	CO		0.160104987	0.381	0.099104987
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	PM	0.5976	0.022393822	0.259	0.016593822
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	NOX		0.426744186	0.43	0.243244186
VEN	ARB	NONAGICENG	Non-Ag IC Engine Scalers	2020	TOG	0.6695	0.059133127	0.323	0.040033127
VEN	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2012	TOG	0.970904797	0.027306452	0.992439457	0.000206452
VEN	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2015	TOG	0.970947518	0.028414516	0.992450474	0.000214516
VEN	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2018	TOG	0.970881911	0.029523387	0.992433555	0.000223387
VEN	DPR	DPR_R001	DPR TOG/PRODUCT RATIOS	2020	TOG	0.970939535	0.030329032	0.992448415	0.000229032
VEN	ARB2	SPILLAGE	Phase II VR Spillage Controls	2005	TOG	1	0.177520436	0.734	0.047220436
VEN	ARB2	SPILLAGE	Phase II VR Spillage Controls	2006	TOG	1	0.179224806	0.645	0.063624806
VEN	ARB2	SPILLAGE	Phase II VR Spillage Controls	2007	TOG	1	0.180900901	0.555	0.080500901
VEN	ARB2	SPILLAGE	Phase II VR Spillage Controls	2008	TOG	1	0.18304721	0.466	0.09774721

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 145 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
VEN	ARB2	SPILLAGE	Phase II VR Spillage Controls	2009	TOG	1	0.1856	0.375	0.116
VEN	ARB2	SPILLAGE	Phase II VR Spillage Controls	2010	TOG	1	0.188	0.375	0.1175
VEN	ARB2	SPILLAGE	Phase II VR Spillage Controls	2012	TOG	1	0.1912	0.375	0.1195
VEN	ARB2	SPILLAGE	Phase II VR Spillage Controls	2015	TOG	1	0.196266667	0.375	0.122666667
VEN	ARB2	SPILLAGE	Phase II VR Spillage Controls	2018	TOG	1	0.2024	0.375	0.1265
VEN	ARB2	SPILLAGE	Phase II VR Spillage Controls	2020	TOG	1	0.2064	0.375	0.129
VEN	A_SOU_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2002	TOG	0.9219	0.428953229	0.449	0.236353229
VEN	A_SOU_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2003	TOG	0.9219	0.437193764	0.449	0.240893764
VEN	A_SOU_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2004	TOG	0.9219	0.445657016	0.449	0.245557016
VEN	A_SOU_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2005	TOG	0.9219	0.45351682	0.327	0.30521682
VEN	A_SOU_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2006	TOG	0.9219	0.460550459	0.327	0.309950459
VEN	A_SOU_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2007	TOG	0.9219	0.467584098	0.327	0.314684098
VEN	A_SOU_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2008	TOG	0.9219	0.474617737	0.327	0.319417737
VEN	A_SOU_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2009	TOG	0.9219	0.481651376	0.327	0.324151376
VEN	A_SOU_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2010	TOG	0.9219	0.488685015	0.327	0.328885015
VEN	A_SOU_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2012	TOG	0.9219	0.503058104	0.327	0.338558104
VEN	A_SOU_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2015	TOG	0.9219	0.525076453	0.327	0.353376453
VEN	A_SOU_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2018	TOG	0.9219	0.547400612	0.327	0.368400612
VEN	A_SOU_TN	ARB_R006	OFF-ROAD MOTORCYCLES AND ATV STANDARDS	2020	TOG	0.9219	0.562996942	0.327	0.378896942
VEN	VEN_APDC	N-102	BOILERS,STEAM GEN,HEATERS <1MMBTU	2000	NOX		0.114253622	0.991653468	0.000953622
VEN	VEN_APDC	N-102	BOILERS,STEAM GEN,HEATERS <1MMBTU	2001	NOX		0.11507447	0.950688719	0.00567447
VEN	VEN_APDC	N-102	BOILERS,STEAM GEN,HEATERS <1MMBTU	2002	NOX		0.115594863	0.910940134	0.010294863
VEN	VEN_APDC	N-102	BOILERS,STEAM GEN,HEATERS <1MMBTU	2003	NOX		0.115540866	0.869822115	0.015040866
VEN	VEN_APDC	N-102	BOILERS,STEAM GEN,HEATERS <1MMBTU	2004	NOX		0.114967719	0.829798144	0.019567719
VEN	VEN_APDC	N-102	BOILERS,STEAM GEN,HEATERS <1MMBTU	2005	NOX		0.114725981	0.788836142	0.024225981
VEN	VEN_APDC	N-102	BOILERS,STEAM GEN,HEATERS <1MMBTU	2006	NOX		0.114617769	0.747702569	0.028917769
VEN	VEN_APDC	N-102	BOILERS,STEAM GEN,HEATERS <1MMBTU	2007	NOX		0.114590545	0.706864602	0.033590545
VEN	VEN_APDC	N-102	BOILERS,STEAM GEN,HEATERS <1MMBTU	2008	NOX		0.114315433	0.665701895	0.038215433
VEN	VEN_APDC	N-102	BOILERS,STEAM GEN,HEATERS <1MMBTU	2009	NOX		0.114269021	0.624841271	0.042869021
VEN	VEN_APDC	N-102	BOILERS,STEAM GEN,HEATERS <1MMBTU	2010	NOX		0.114339728	0.61395983	0.044139728
VEN	VEN_APDC	N-102	BOILERS,STEAM GEN,HEATERS <1MMBTU	2012	NOX		0.114178391	0.613075727	0.044178391
VEN	VEN_APDC	N-102	BOILERS,STEAM GEN,HEATERS <1MMBTU	2015	NOX		0.114967075	0.611479418	0.044667075
VEN	VEN_APDC	N-102	BOILERS,STEAM GEN,HEATERS <1MMBTU	2018	NOX		0.115882815	0.610099088	0.045182815
VEN	VEN_APDC	N-102	BOILERS,STEAM GEN,HEATERS <1MMBTU	2020	NOX		0.116538555	0.609240438	0.045538555
VEN	VEN_APDC	N-108	STATIONARY IC ENGINES	2002	NOX		0.273717631	0.982764607	0.004717631
VEN	VEN_APDC	N-108	STATIONARY IC ENGINES	2003	NOX		0.272142149	0.982942191	0.004642149
VEN	VEN_APDC	N-108	STATIONARY IC ENGINES	2004	NOX		0.270666667	0.983128079	0.004566667
VEN	VEN_APDC	N-108	STATIONARY IC ENGINES	2005	NOX		0.269028926	0.983165655	0.004528926
VEN	VEN_APDC	N-108	STATIONARY IC ENGINES	2006	NOX		0.268153444	0.983392182	0.004453444
VEN	VEN_APDC	N-108	STATIONARY IC ENGINES	2007	NOX		0.267315702	0.98348132	0.004415702
VEN	VEN_APDC	N-108	STATIONARY IC ENGINES	2008	NOX		0.266577961	0.983577182	0.004377961
VEN	VEN_APDC	N-108	STATIONARY IC ENGINES	2009	NOX		0.26564022	0.983661283	0.00434022
VEN	VEN_APDC	N-108	STATIONARY IC ENGINES	2010	NOX		0.264802479	0.983752118	0.004302479
VEN	VEN_APDC	N-108	STATIONARY IC ENGINES	2012	NOX		0.263726997	0.983972072	0.004226997
VEN	VEN_APDC	N-108	STATIONARY IC ENGINES	2015	NOX		0.261913774	0.984293403	0.004113774
VEN	VEN_APDC	N-108	STATIONARY IC ENGINES	2018	NOX		0.261138292	0.984535811	0.004038292
VEN	VEN_APDC	N-108	STATIONARY IC ENGINES	2020	NOX		0.26036281	0.984779662	0.00396281
VEN	VEN_APDC	N-110	FAN TYPE CENTRAL FURNACES	2000	NOX		0.375886777	0.968110672	0.011986777
VEN	VEN_APDC	N-110	FAN TYPE CENTRAL FURNACES	2001	NOX		0.379295868	0.968109677	0.012095868

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 146 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
VEN	VEN_APCD	N-110	FAN TYPE CENTRAL FURNACES	2002	NOX		0.382745523	0.927247945	0.027845523
VEN	VEN_APCD	N-110	FAN TYPE CENTRAL FURNACES	2003	NOX		0.386080158	0.887380491	0.043480158
VEN	VEN_APCD	N-110	FAN TYPE CENTRAL FURNACES	2004	NOX		0.389579669	0.846553417	0.059779669
VEN	VEN_APCD	N-110	FAN TYPE CENTRAL FURNACES	2005	NOX		0.392963275	0.806691159	0.075963275
VEN	VEN_APCD	N-110	FAN TYPE CENTRAL FURNACES	2006	NOX		0.396872186	0.773800762	0.089772186
VEN	VEN_APCD	N-110	FAN TYPE CENTRAL FURNACES	2007	NOX		0.400185425	0.74190608	0.103285425
VEN	VEN_APCD	N-110	FAN TYPE CENTRAL FURNACES	2008	NOX		0.403374612	0.710009979	0.116974612
VEN	VEN_APCD	N-110	FAN TYPE CENTRAL FURNACES	2009	NOX		0.406873373	0.677114843	0.131373373
VEN	VEN_APCD	N-110	FAN TYPE CENTRAL FURNACES	2010	NOX		0.410575739	0.644217315	0.146075739
VEN	VEN_APCD	N-110	FAN TYPE CENTRAL FURNACES	2012	NOX		0.417980311	0.580410114	0.175380311
VEN	VEN_APCD	N-110	FAN TYPE CENTRAL FURNACES	2015	NOX		0.429804669	0.515583045	0.208204669
VEN	VEN_APCD	N-110	FAN TYPE CENTRAL FURNACES	2018	NOX		0.441288716	0.515762112	0.213688716
VEN	VEN_APCD	N-110	FAN TYPE CENTRAL FURNACES	2020	NOX		0.448876265	0.515732326	0.217376265
VEN	VEN_APCD	R-108	STATIONARY IC ENGINES	2002	TOG	0.0914	2.3089	0.995062584	0.0114
VEN	VEN_APCD	R-108	STATIONARY IC ENGINES	2003	TOG	0.0914	2.29484348	0.995100547	0.011243478
VEN	VEN_APCD	R-108	STATIONARY IC ENGINES	2004	TOG	0.0914	2.28079565	0.995135184	0.011095652
VEN	VEN_APCD	R-108	STATIONARY IC ENGINES	2005	TOG	0.0914	2.26684783	0.995170463	0.010947826
VEN	VEN_APCD	R-108	STATIONARY IC ENGINES	2006	TOG	0.0914	2.25813478	0.995201888	0.010834783
VEN	VEN_APCD	R-108	STATIONARY IC ENGINES	2007	TOG	0.0914	2.24932174	0.995233346	0.010721739
VEN	VEN_APCD	R-108	STATIONARY IC ENGINES	2008	TOG	0.0914	2.2407087	0.995265473	0.010608696
VEN	VEN_APCD	R-108	STATIONARY IC ENGINES	2009	TOG	0.0914	2.23189565	0.995297427	0.010495652
VEN	VEN_APCD	R-108	STATIONARY IC ENGINES	2010	TOG	0.0914	2.2233913	0.995326372	0.010391304
VEN	VEN_APCD	R-108	STATIONARY IC ENGINES	2012	TOG	0.0914	2.21101739	0.995378873	0.010217391
VEN	VEN_APCD	R-108	STATIONARY IC ENGINES	2015	TOG	0.0914	2.19276522	0.995455411	0.009965217
VEN	VEN_APCD	R-108	STATIONARY IC ENGINES	2018	TOG	0.0914	2.18176522	0.995524167	0.009765217
VEN	VEN_APCD	R-108	STATIONARY IC ENGINES	2020	TOG	0.0914	2.17473478	0.995569675	0.009634783
VEN	VEN_APCD	R-303	ARCHITECTURAL COATING	2005	TOG	0.96508167	0.760537616	0.999516816	0.00036748
VEN	VEN_APCD	R-303	ARCHITECTURAL COATING	2006	TOG	0.965082202	0.76964808	0.999514085	0.000373984
VEN	VEN_APCD	R-303	ARCHITECTURAL COATING	2007	TOG	0.965082721	0.778782307	0.999511432	0.000380488
VEN	VEN_APCD	R-303	ARCHITECTURAL COATING	2008	TOG	0.965083062	0.78844876	0.999509173	0.000386992
VEN	VEN_APCD	R-303	ARCHITECTURAL COATING	2009	TOG	0.965084034	0.79756085	0.999504587	0.000395122
VEN	VEN_APCD	R-303	ARCHITECTURAL COATING	2010	TOG	0.96508453	0.806795077	0.999502196	0.000401626
VEN	VEN_APCD	R-303	ARCHITECTURAL COATING	2012	TOG	0.965084173	0.822438215	0.999503756	0.00040813
VEN	VEN_APCD	R-303	ARCHITECTURAL COATING	2015	TOG	0.965084237	0.845718904	0.999503958	0.000419512
VEN	VEN_APCD	R-303	ARCHITECTURAL COATING	2018	TOG	0.965084063	0.869423355	0.999504391	0.000430894
VEN	VEN_APCD	R-303	ARCHITECTURAL COATING	2020	TOG	0.965083739	0.885298719	0.999505931	0.000437398
VEN	VEN_APCD	R-305	SYNTHETIC SOLVENT DRY CLEANING	2000	TOG		0.149945355	0.915	0.012745355
VEN	VEN_APCD	R-305	SYNTHETIC SOLVENT DRY CLEANING	2001	TOG		0.151803279	0.915	0.012903279
VEN	VEN_APCD	R-305	SYNTHETIC SOLVENT DRY CLEANING	2002	TOG		0.153703704	0.81	0.029203704
VEN	VEN_APCD	R-305	SYNTHETIC SOLVENT DRY CLEANING	2003	TOG		0.155823864	0.704	0.046123864
VEN	VEN_APCD	R-305	SYNTHETIC SOLVENT DRY CLEANING	2004	TOG		0.157762938	0.599	0.063262938
VEN	VEN_APCD	R-305	SYNTHETIC SOLVENT DRY CLEANING	2005	TOG		0.15951417	0.494	0.08071417
VEN	VEN_APCD	R-305	SYNTHETIC SOLVENT DRY CLEANING	2006	TOG		0.161538462	0.494	0.081738462
VEN	VEN_APCD	R-305	SYNTHETIC SOLVENT DRY CLEANING	2007	TOG		0.163360324	0.494	0.082660324
VEN	VEN_APCD	R-305	SYNTHETIC SOLVENT DRY CLEANING	2008	TOG		0.165384615	0.494	0.083684615
VEN	VEN_APCD	R-305	SYNTHETIC SOLVENT DRY CLEANING	2009	TOG		0.167408907	0.494	0.084708907
VEN	VEN_APCD	R-305	SYNTHETIC SOLVENT DRY CLEANING	2010	TOG		0.169230769	0.494	0.085630769
VEN	VEN_APCD	R-305	SYNTHETIC SOLVENT DRY CLEANING	2012	TOG		0.172469636	0.494	0.087269636
VEN	VEN_APCD	R-305	SYNTHETIC SOLVENT DRY CLEANING	2015	TOG		0.177327935	0.494	0.089727935

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 147 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
VEN	VEN_APCD	R-305	SYNTHETIC SOLVENT DRY CLEANING	2018	TOG		0.181983806	0.494	0.092083806
VEN	VEN_APCD	R-305	SYNTHETIC SOLVENT DRY CLEANING	2020	TOG		0.185222672	0.494	0.093722672
VEN	VEN_APCD	R-306	WOOD PRODUCT COATING	2000	TOG	0.938544788	0.158895706	0.978	0.003495706
VEN	VEN_APCD	R-306	WOOD PRODUCT COATING	2001	TOG	0.938612838	0.162474438	0.978	0.003574438
VEN	VEN_APCD	R-306	WOOD PRODUCT COATING	2002	TOG	0.938739901	0.165541922	0.978	0.003641922
VEN	VEN_APCD	R-306	WOOD PRODUCT COATING	2003	TOG	0.93908293	0.168916155	0.978	0.003716155
VEN	VEN_APCD	R-306	WOOD PRODUCT COATING	2004	TOG	0.939039252	0.172188139	0.978	0.003788139
VEN	VEN_APCD	R-306	WOOD PRODUCT COATING	2005	TOG	0.939049593	0.175664622	0.978	0.003864622
VEN	VEN_APCD	R-306	WOOD PRODUCT COATING	2006	TOG	0.939043004	0.179038855	0.978	0.003938855
VEN	VEN_APCD	R-306	WOOD PRODUCT COATING	2007	TOG	0.938991307	0.182310838	0.978	0.004010838
VEN	VEN_APCD	R-306	WOOD PRODUCT COATING	2008	TOG	0.938772907	0.185685072	0.978	0.004085072
VEN	VEN_APCD	R-306	WOOD PRODUCT COATING	2009	TOG	0.938463081	0.189161554	0.978	0.004161554
VEN	VEN_APCD	R-306	WOOD PRODUCT COATING	2010	TOG	0.93864017	0.192433538	0.978	0.004233538
VEN	VEN_APCD	R-306	WOOD PRODUCT COATING	2012	TOG	0.938937807	0.195807771	0.978	0.004307771
VEN	VEN_APCD	R-306	WOOD PRODUCT COATING	2015	TOG	0.938716175	0.201022495	0.978	0.004422495
VEN	VEN_APCD	R-306	WOOD PRODUCT COATING	2018	TOG	0.938934541	0.20603272	0.978	0.00453272
VEN	VEN_APCD	R-306	WOOD PRODUCT COATING	2020	TOG	0.938885296	0.209304703	0.978	0.004604703
VEN	VEN_APCD	R-316	GRAPHIC ARTS SOLVENTS	2002	TOG	0.999830991	0.632953812	0.97368874	0.016653812
VEN	VEN_APCD	R-316	GRAPHIC ARTS SOLVENTS	2003	TOG	0.999859157	0.641716018	0.935148856	0.041616018
VEN	VEN_APCD	R-316	GRAPHIC ARTS SOLVENTS	2004	TOG	0.99986101	0.65036745	0.935009893	0.04226745
VEN	VEN_APCD	R-316	GRAPHIC ARTS SOLVENTS	2005	TOG	0.99983621	0.659379895	0.934817705	0.042979895
VEN	VEN_APCD	R-316	GRAPHIC ARTS SOLVENTS	2006	TOG	0.999838283	0.667903122	0.934716397	0.043603122
VEN	VEN_APCD	R-316	GRAPHIC ARTS SOLVENTS	2007	TOG	0.999840329	0.676507349	0.934653557	0.044207349
VEN	VEN_APCD	R-316	GRAPHIC ARTS SOLVENTS	2008	TOG	0.999842299	0.685030576	0.934556825	0.044830576
VEN	VEN_APCD	R-316	GRAPHIC ARTS SOLVENTS	2009	TOG	0.999839358	0.693914816	0.934408641	0.045514816
VEN	VEN_APCD	R-316	GRAPHIC ARTS SOLVENTS	2010	TOG	0.999841316	0.702566248	0.934289117	0.046166248
VEN	VEN_APCD	R-316	GRAPHIC ARTS SOLVENTS	2012	TOG	0.999844212	0.715587383	0.934337323	0.046987383
VEN	VEN_APCD	R-316	GRAPHIC ARTS SOLVENTS	2015	TOG	0.999843749	0.735387298	0.934337596	0.048287298
VEN	VEN_APCD	R-316	GRAPHIC ARTS SOLVENTS	2018	TOG	0.999847867	0.755291814	0.934340856	0.049591814
VEN	VEN_APCD	R-316	GRAPHIC ARTS SOLVENTS	2020	TOG	0.999850411	0.768080142	0.934407702	0.050380142
VEN	VEN_APCD	R-321	PLEASURE CRAFT COATING	2000	TOG	0.88880765	0.061088654	0.898693887	0.006188654
VEN	VEN_APCD	R-321	PLEASURE CRAFT COATING	2001	TOG	0.88910395	0.061976058	0.89873415	0.006276058
VEN	VEN_APCD	R-321	PLEASURE CRAFT COATING	2002	TOG	0.889947509	0.062831607	0.894454278	0.006631607
VEN	VEN_APCD	R-321	PLEASURE CRAFT COATING	2003	TOG	0.896544484	0.064005535	0.878049058	0.00705535
VEN	VEN_APCD	R-321	PLEASURE CRAFT COATING	2004	TOG	0.896725439	0.064907816	0.878168503	0.007907816
VEN	VEN_APCD	R-321	PLEASURE CRAFT COATING	2005	TOG	0.895918685	0.06582936	0.878027673	0.00802936
VEN	VEN_APCD	R-321	PLEASURE CRAFT COATING	2006	TOG	0.894813311	0.066769194	0.877650247	0.008169194
VEN	VEN_APCD	R-321	PLEASURE CRAFT COATING	2007	TOG	0.895186723	0.067781245	0.877823947	0.008281245
VEN	VEN_APCD	R-321	PLEASURE CRAFT COATING	2008	TOG	0.894277483	0.068831821	0.877501118	0.008431821
VEN	VEN_APCD	R-321	PLEASURE CRAFT COATING	2009	TOG	0.894355319	0.069624333	0.877566759	0.008524333
VEN	VEN_APCD	R-321	PLEASURE CRAFT COATING	2010	TOG	0.893449516	0.070673936	0.877268244	0.008673936
VEN	VEN_APCD	R-321	PLEASURE CRAFT COATING	2012	TOG	0.894151981	0.071908443	0.877504742	0.008808443
VEN	VEN_APCD	R-321	PLEASURE CRAFT COATING	2015	TOG	0.893683667	0.073973015	0.877346963	0.009073015
VEN	VEN_APCD	R-321	PLEASURE CRAFT COATING	2018	TOG	0.894281532	0.075889292	0.877594172	0.009289292
VEN	VEN_APCD	R-321	PLEASURE CRAFT COATING	2020	TOG	0.893758936	0.077161352	0.877382246	0.009461352
VEN	VEN_APCD	R-415	DELETE - VAPOR RECOVERY EXEMPTION	2001	TOG	1	0.444527832	0.999922102	0.000034628
VEN	VEN_APCD	R-415	DELETE - VAPOR RECOVERY EXEMPTION	2002	TOG	1	0.446989644	0.999922169	0.00003479
VEN	VEN_APCD	R-415	DELETE - VAPOR RECOVERY EXEMPTION	2003	TOG	1	0.450351456	0.999922391	0.000034951
VEN	VEN_APCD	R-415	DELETE - VAPOR RECOVERY EXEMPTION	2004	TOG	1	0.454775081	0.999922434	0.000035275

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 148 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
VEN	VEN_AP_CD	R-415	DELETE - VAPOR RECOVERY EXEMPTION	2005	TOG	1	0.459298706	0.999922493	0.000035599
VEN	VEN_AP_CD	R-415	DELETE - VAPOR RECOVERY EXEMPTION	2006	TOG	1	0.46402233	0.999922585	0.000035922
VEN	VEN_AP_CD	R-415	DELETE - VAPOR RECOVERY EXEMPTION	2007	TOG	1	0.469045955	0.999922724	0.000036246
VEN	VEN_AP_CD	R-415	DELETE - VAPOR RECOVERY EXEMPTION	2008	TOG	1	0.475031392	0.999922676	0.000036731
VEN	VEN_AP_CD	R-415	DELETE - VAPOR RECOVERY EXEMPTION	2009	TOG	1	0.480855016	0.999922938	0.000037055
VEN	VEN_AP_CD	R-415	DELETE - VAPOR RECOVERY EXEMPTION	2010	TOG	1	0.487040453	0.999922921	0.00003754
VEN	VEN_AP_CD	R-415	DELETE - VAPOR RECOVERY EXEMPTION	2012	TOG	1	0.494987702	0.999922851	0.000038188
VEN	VEN_AP_CD	R-415	DELETE - VAPOR RECOVERY EXEMPTION	2015	TOG	1	0.506958576	0.999922758	0.000039159
VEN	VEN_AP_CD	R-415	DELETE - VAPOR RECOVERY EXEMPTION	2018	TOG	1	0.521953074	0.999922497	0.000040453
VEN	VEN_AP_CD	R-415	DELETE - VAPOR RECOVERY EXEMPTION	2020	TOG	1	0.531862136	0.999922419	0.000041262
VEN	VEN_AP_CD	R-424	GASOLINE TRANSFER/DISPENSING	2001	TOG	1	0.548627832	0.975889244	0.013227832
VEN	VEN_AP_CD	R-424	GASOLINE TRANSFER/DISPENSING	2002	TOG	1	0.550789644	0.975871652	0.013289644
VEN	VEN_AP_CD	R-424	GASOLINE TRANSFER/DISPENSING	2003	TOG	1	0.553951456	0.975897786	0.013351456
VEN	VEN_AP_CD	R-424	GASOLINE TRANSFER/DISPENSING	2004	TOG	1	0.558575081	0.975875972	0.013475081
VEN	VEN_AP_CD	R-424	GASOLINE TRANSFER/DISPENSING	2005	TOG	1	0.563519141	0.975868246	0.013598706
VEN	VEN_AP_CD	R-424	GASOLINE TRANSFER/DISPENSING	2006	TOG	1	0.568847136	0.975876946	0.01372233
VEN	VEN_AP_CD	R-424	GASOLINE TRANSFER/DISPENSING	2007	TOG	1	0.574546856	0.975901087	0.013845955
VEN	VEN_AP_CD	R-424	GASOLINE TRANSFER/DISPENSING	2008	TOG	1	0.581478602	0.975869462	0.014031392
VEN	VEN_AP_CD	R-424	GASOLINE TRANSFER/DISPENSING	2009	TOG	1	0.588755016	0.975957715	0.014155016
VEN	VEN_AP_CD	R-424	GASOLINE TRANSFER/DISPENSING	2010	TOG	1	0.596240453	0.975948541	0.014340453
VEN	VEN_AP_CD	R-424	GASOLINE TRANSFER/DISPENSING	2012	TOG	1	0.606387702	0.975943275	0.014587702
VEN	VEN_AP_CD	R-424	GASOLINE TRANSFER/DISPENSING	2015	TOG	1	0.622225243	0.975959548	0.014958576
VEN	VEN_AP_CD	R-424	GASOLINE TRANSFER/DISPENSING	2018	TOG	1	0.641753074	0.975920529	0.015453074
VEN	VEN_AP_CD	R-424	GASOLINE TRANSFER/DISPENSING	2020	TOG	1	0.654562136	0.975919573	0.015762136
VEN	VEN_AP_CD	R-601	LANDFILL GAS RECOVERY SYSTEMS	2001	TOG	0.0129	24.5357524	0.937	1.5457524
VEN	VEN_AP_CD	R-601	LANDFILL GAS RECOVERY SYSTEMS	2002	TOG	0.0129	26.4798292	0.937	1.66822924
VEN	VEN_AP_CD	R-601	LANDFILL GAS RECOVERY SYSTEMS	2003	TOG	0.0129	27.6721451	0.937	1.74334514
VEN	VEN_AP_CD	R-601	LANDFILL GAS RECOVERY SYSTEMS	2004	TOG	0.0129	28.8643543	0.937	1.81845432
VEN	VEN_AP_CD	R-601	LANDFILL GAS RECOVERY SYSTEMS	2005	TOG	0.0129	30.0566702	0.937	1.89357022
VEN	VEN_AP_CD	R-601	LANDFILL GAS RECOVERY SYSTEMS	2006	TOG	0.0129	31.2488794	0.937	1.9686794
VEN	VEN_AP_CD	R-601	LANDFILL GAS RECOVERY SYSTEMS	2007	TOG	0.0129	32.4411953	0.937	2.0437953
VEN	VEN_AP_CD	R-601	LANDFILL GAS RECOVERY SYSTEMS	2008	TOG	0.0129	33.6334045	0.937	2.11890448
VEN	VEN_AP_CD	R-601	LANDFILL GAS RECOVERY SYSTEMS	2009	TOG	0.0129	34.8257204	0.937	2.19402038
VEN	VEN_AP_CD	R-601	LANDFILL GAS RECOVERY SYSTEMS	2010	TOG	0.0129	36.0179296	0.937	2.26912956
VEN	VEN_AP_CD	R-601	LANDFILL GAS RECOVERY SYSTEMS	2012	TOG	0.0129	38.4025614	0.937	2.41936137
VEN	VEN_AP_CD	R-601	LANDFILL GAS RECOVERY SYSTEMS	2015	TOG	0.0129	41.9792956	0.937	2.64469562
VEN	VEN_AP_CD	R-601	LANDFILL GAS RECOVERY SYSTEMS	2018	TOG	0.0129	45.6717182	0.937	2.87731825
VEN	VEN_AP_CD	R-601	LANDFILL GAS RECOVERY SYSTEMS	2020	TOG	0.0129	48.1332978	0.937	3.03239776
VEN	C_COSOXP_M	ARB_C804	OFF-ROAD MOTORCYCLES	2000	CO		3.67440904	0.973	0.099209044
VEN	C_COSOXP_M	ARB_C804	OFF-ROAD MOTORCYCLES	2001	CO		3.74768756	0.973	0.101187564
VEN	C_COSOXP_M	ARB_C804	OFF-ROAD MOTORCYCLES	2002	CO		3.82202835	0.917	0.317228353
VEN	C_COSOXP_M	ARB_C804	OFF-ROAD MOTORCYCLES	2003	CO		3.89494382	0.89	0.42844382
VEN	C_COSOXP_M	ARB_C804	OFF-ROAD MOTORCYCLES	2004	CO		3.97	0.89	0.4367
VEN	C_COSOXP_M	ARB_C804	OFF-ROAD MOTORCYCLES	2005	CO		4.04592326	0.834	0.671623261
VEN	C_COSOXP_M	ARB_C804	OFF-ROAD MOTORCYCLES	2006	CO		4.10719424	0.834	0.681794245
VEN	C_COSOXP_M	ARB_C804	OFF-ROAD MOTORCYCLES	2007	CO		4.16930456	0.834	0.692104556
VEN	C_COSOXP_M	ARB_C804	OFF-ROAD MOTORCYCLES	2008	CO		4.23177458	0.834	0.70247458
VEN	C_COSOXP_M	ARB_C804	OFF-ROAD MOTORCYCLES	2009	CO		4.29520384	0.834	0.713003837
VEN	C_COSOXP_M	ARB_C804	OFF-ROAD MOTORCYCLES	2010	CO		4.35959233	0.834	0.723692326

## CCOS EMISSION REDUCTIONS BY RULE, v2.11

December 8, 2003

Page 149 of 149

DIS	AGENCY	RULENO	RULETITLE	FYEAR	POLN	FRACTION	INVENTORY_TPD	CF	REDUCTIONS_TPD
VEN	C_COSOXPMPM	ARB_C804	OFF-ROAD MOTORCYCLES	2012	CO		4.48669065	0.834	0.744790647
VEN	C_COSOXPMPM	ARB_C804	OFF-ROAD MOTORCYCLES	2015	CO		4.68477218	0.834	0.777672182
VEN	C_COSOXPMPM	ARB_C804	OFF-ROAD MOTORCYCLES	2018	CO		4.88501199	0.834	0.81091199
VEN	C_COSOXPMPM	ARB_C804	OFF-ROAD MOTORCYCLES	2020	CO		5.02218225	0.834	0.833682254