

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls



2800	184.404	119.212	163.011
2801	184.337	119.186	162.876
2802	184.27	119.159	162.741
2803	184.203	119.133	162.606
2804	184.137	119.107	162.471
2805	184.071	119.081	162.337
2806	184.005	119.054	162.203
2807	183.939	119.028	162.069
2808	183.873	119.002	161.935
2809	183.808	118.976	161.801
2810	183.743	118.95	161.668
2811	183.678	118.923	161.535
2812	183.614	118.897	161.402
2813	183.549	118.871	161.269
2814	183.485	118.845	161.136
2815	183.422	118.819	161.004
2816	183.358	118.793	160.872
2817	183.295	118.767	160.74
2818	183.232	118.741	160.608
2819	183.169	118.715	160.477
2820	183.107	118.689	160.346
2821	183.044	118.664	160.214
2822	182.983	118.638	160.084
2823	182.921	118.612	159.953
2824	182.86	118.586	159.822
2825	182.799	118.561	159.692
2826	182.838	118.535	159.562
2827	182.877	118.51	159.432
2828	182.917	118.484	159.302
2829	182.957	118.458	159.172
2830	182.997	118.432	159.042
2831	183.037	118.406	158.912
2832	183.174	118.38	158.782
2833	183.257	118.354	158.652
2834	183.322	118.328	158.522
2835	183.382	118.302	158.392
2836	183.437	118.276	158.262
2837	183.488	118.25	158.132
2838	183.537	118.224	158.002
2839	183.59	118.198	157.872
2840	183.64	118.172	157.742
2841	183.691	118.146	157.612
2842	183.752	118.12	157.482
2843	183.809	118.094	157.352
2844	183.854	118.068	157.222
2845	183.895	118.042	157.092
2846	183.933	118.016	156.962
2847	183.961	117.99	156.832
2848	183.961	117.964	156.702
2849	183.958	117.938	156.572
2850	183.952	117.912	156.442
2851	183.944	117.886	156.312
2852	183.935	117.86	156.182
2853	183.927	117.834	156.052
2854	183.918	117.808	155.922

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls



2855	183.91	118.8	162.758
2856	183.901	118.81	162.708
2857	183.893	118.821	162.659
2858	183.884	118.832	162.609
2859	183.876	118.843	162.559
2860	183.867	118.854	162.51
2861	183.859	118.864	162.46
2862	183.85	118.875	162.411
2863	183.842	118.886	162.362
2864	183.833	118.896	162.312
2865	183.825	118.907	162.263
2866	183.817	118.918	162.214
2867	183.808	118.928	162.165
2868	183.856	118.941	162.352
2869	183.902	118.957	162.542
2870	183.946	118.971	162.718
2871	183.99	118.985	162.888
2872	184.035	118.998	163.061
2873	184.088	119.013	163.247
2874	184.15	119.029	163.445
2875	184.217	119.044	163.652
2876	184.287	119.057	163.871
2877	184.359	119.07	164.115
2878	184.424	119.079	164.321
2879	184.48	119.087	164.496
2880	184.528	119.094	164.646
2881	184.572	119.099	164.779
2882	184.612	119.102	164.899
2883	184.649	119.105	165.008
2884	184.683	119.108	165.108
2885	184.716	119.109	165.198
2886	184.665	119.092	165.048
2887	184.614	119.075	164.897
2888	184.563	119.058	164.747
2889	184.513	119.042	164.597
2890	184.463	119.025	164.448
2891	184.413	119.008	164.299
2892	184.364	118.991	164.151
2893	184.314	118.975	164.002
2894	184.265	118.958	163.855
2895	184.216	118.941	163.707
2896	184.167	118.925	163.56
2897	184.119	118.908	163.413
2898	184.071	118.891	163.267
2899	184.023	118.875	163.121
2900	183.975	118.858	162.975
2901	183.927	118.841	162.83
2902	183.88	118.825	162.685
2903	183.832	118.808	162.54
2904	183.785	118.791	162.396
2905	183.775	118.794	162.305
2906	183.809	118.794	162.409
2907	183.841	118.794	162.503
2908	183.871	118.793	162.586
2909	183.901	118.791	162.659

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls



2910	183.933	118.788	162.733
2911	183.968	118.784	162.806
2912	184.005	118.779	162.88
2913	184.042	118.773	162.955
2914	184.08	118.766	163.031
2915	184.118	118.758	163.109
2916	184.157	118.749	163.187
2917	184.196	118.74	163.265
2918	184.235	118.731	163.344
2919	184.275	118.721	163.423
2920	184.315	118.71	163.502
2921	184.355	118.7	163.581
2922	184.395	118.689	163.659
2923	184.324	118.663	163.523
2924	184.253	118.637	163.387
2925	184.182	118.612	163.25
2926	184.113	118.587	163.114
2927	184.043	118.561	162.978
2928	183.974	118.536	162.842
2929	183.905	118.51	162.706
2930	183.836	118.485	162.57
2931	183.767	118.459	162.435
2932	183.698	118.434	162.3
2933	183.63	118.409	162.165
2934	183.562	118.383	162.03
2935	183.494	118.358	161.896
2936	183.427	118.332	161.762
2937	183.359	118.307	161.628
2938	183.292	118.281	161.494
2939	183.225	118.256	161.361
2940	183.158	118.23	161.227
2941	183.091	118.204	161.094
2942	183.025	118.179	160.962
2943	182.958	118.153	160.829
2944	182.891	118.127	160.697
2945	182.824	118.101	160.566
2946	182.758	118.075	160.436
2947	182.688	118.048	160.306
2948	182.62	118.022	160.176
2949	182.551	117.994	160.048
2950	182.481	117.967	159.92
2951	182.572	117.964	160.193
2952	182.66	117.963	160.461
2953	182.746	117.966	160.715
2954	182.824	117.971	160.946
2955	182.886	117.979	161.146
2956	182.945	117.989	161.336
2957	182.999	118	161.51
2958	183.05	118.014	161.667
2959	183.089	118.03	161.816
2960	183.152	118.049	161.966
2961	183.201	118.069	162.114
2962	183.255	118.089	162.266
2963	183.315	118.107	162.432
2964	183.37	118.124	162.594

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls



2965	183.412	118.14	162.731
2966	183.454	118.155	162.87
2967	183.49	118.17	162.999
2968	183.511	118.185	163.072
2969	183.507	118.201	163.036
2970	183.502	118.214	162.998
2971	183.494	118.225	162.948
2972	183.485	118.236	162.897
2973	183.477	118.247	162.846
2974	183.468	118.258	162.796
2975	183.46	118.269	162.745
2976	183.451	118.28	162.695
2977	183.443	118.291	162.644
2978	183.434	118.302	162.594
2979	183.426	118.313	162.544
2980	183.417	118.324	162.494
2981	183.409	118.335	162.444
2982	183.4	118.346	162.394
2983	183.392	118.357	162.344
2984	183.383	118.368	162.294
2985	183.375	118.378	162.244
2986	183.366	118.389	162.195
2987	183.358	118.4	162.145
2988	183.405	118.41	162.333
2989	183.452	118.424	162.519
2990	183.499	118.44	162.705
2991	183.542	118.454	162.877
2992	183.586	118.468	163.045
2993	183.633	118.483	163.219
2994	183.687	118.499	163.405
2995	183.751	118.516	163.604
2996	183.818	118.531	163.81
2997	183.889	118.546	164.032
2998	183.96	118.565	164.269
2999	184.024	118.569	164.469
3000	184.079	118.578	164.641
3001	184.128	118.585	164.791
3002	184.173	118.591	164.925
3003	184.214	118.596	165.047
3004	184.228	118.602	165.056
3005	184.183	118.588	164.902
3006	184.138	118.576	164.748
3007	184.094	118.563	164.595
3008	184.05	118.55	164.442
3009	184.008	118.538	164.289
3010	183.965	118.526	164.136
3011	183.924	118.515	163.984
3012	183.883	118.504	163.832
3013	183.842	118.493	163.68
3014	183.803	118.482	163.529
3015	183.83	118.49	163.587
3016	183.876	118.496	163.73
3017	183.919	118.501	163.861
3018	183.959	118.505	163.982
3019	183.964	118.51	163.951

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls



3020	183.919	118.496	163.8
3021	183.875	118.483	163.65
3022	183.831	118.469	163.5
3023	183.788	118.457	163.35
3024	183.746	118.444	163.2
3025	183.704	118.432	163.051
3026	183.663	118.42	162.901
3027	183.622	118.408	162.753
3028	183.582	118.397	162.604
3029	183.58	118.405	162.535
3030	183.628	118.411	162.687
3031	183.673	118.416	162.825
3032	183.714	118.42	162.952
3033	183.752	118.423	163.069
3034	183.788	118.426	163.178
3035	183.823	118.427	163.28
3036	183.855	118.429	163.374
3037	183.886	118.43	163.459
3038	183.916	118.43	163.537
3039	183.945	118.429	163.607
3040	183.976	118.428	163.676
3041	184.008	118.427	163.746
3042	184.043	118.424	163.815
3043	184.08	118.421	163.885
3044	184.116	118.418	163.956
3045	184.153	118.413	164.027
3046	184.191	118.408	164.099
3047	184.228	118.403	164.172
3048	184.266	118.396	164.245
3049	184.304	118.39	164.319
3050	184.343	118.383	164.393
3051	184.381	118.375	164.468
3052	184.42	118.367	164.543
3053	184.46	118.358	164.618
3054	184.499	118.349	164.693
3055	184.539	118.34	164.767
3056	184.579	118.331	164.842
3057	184.62	118.321	164.917
3058	184.645	118.296	164.778
3059	184.471	118.272	164.638
3060	184.398	118.248	164.498
3061	184.326	118.224	164.358
3062	184.256	118.2	164.218
3063	184.184	118.177	164.077
3064	184.115	118.153	163.936
3065	184.047	118.13	163.795
3066	183.979	118.107	163.654
3067	183.912	118.085	163.512
3068	183.914	118.079	163.426
3069	183.953	118.072	163.502
3070	183.992	118.064	163.578
3071	184.031	118.056	163.654
3072	184.07	118.048	163.731
3073	184.11	118.039	163.807
3074	184.15	118.03	163.883

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls



3075	184.19	118.021	163.959
3076	184.23	118.011	164.034
3077	184.27	118.001	164.11
3078	184.195	117.977	163.972
3079	184.122	117.953	163.834
3080	184.05	117.929	163.695
3081	183.978	117.905	163.556
3082	183.908	117.882	163.417
3083	183.838	117.859	163.277
3084	183.769	117.836	163.138
3085	183.702	117.813	162.997
3086	183.635	117.79	162.857
3087	183.633	117.786	162.754
3088	183.671	117.778	162.83
3089	183.71	117.771	162.907
3090	183.749	117.763	162.984
3091	183.788	117.755	163.061
3092	183.828	117.746	163.138
3093	183.868	117.737	163.215
3094	183.908	117.728	163.292
3095	183.948	117.719	163.368
3096	183.873	117.694	163.232
3097	183.923	117.694	163.323
3098	184.012	117.694	163.588
3099	184.028	117.698	163.536
3100	183.962	117.677	163.393
3101	183.897	117.656	163.25
3102	183.832	117.635	163.107
3103	183.767	117.614	162.965
3104	183.702	117.593	162.822
3105	183.638	117.572	162.68
3106	183.574	117.551	162.538
3107	183.51	117.53	162.397
3108	183.447	117.509	162.255
3109	183.384	117.488	162.114
3110	183.321	117.467	161.973
3111	183.259	117.446	161.833
3112	183.197	117.425	161.692
3113	183.135	117.404	161.552
3114	183.073	117.383	161.413
3115	183.158	117.388	161.666
3116	183.237	117.395	161.898
3117	183.3	117.405	162.094
3118	183.358	117.417	162.281
3119	183.412	117.431	162.452
3120	183.462	117.447	162.608
3121	183.511	117.464	162.75
3122	183.563	117.485	162.895
3123	183.612	117.508	163.039
3124	183.664	117.529	163.187
3125	183.724	117.549	163.346
3126	183.781	117.568	163.506
3127	183.824	117.585	163.642
3128	183.865	117.602	163.777
3129	183.902	117.618	163.904

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ANEXO 1E
SIMULACIONES, CALCULOS Y GRAFICAS

3130	183.927	117.834	183.989
3131	183.924	117.852	183.957
3132	183.92	117.866	183.915
3133	183.916	117.877	183.876
3134	183.908	117.888	183.823
3135	183.899	117.7	183.771
3136	183.89	117.711	183.719
3137	183.882	117.723	183.667
3138	183.873	117.734	183.615
3139	183.864	117.746	183.563
3140	183.856	117.757	183.511
3141	183.847	117.769	183.459
3142	183.838	117.78	183.407
3143	183.83	117.792	183.355
3144	183.821	117.803	183.304
3145	183.813	117.814	183.252
3146	183.804	117.826	183.201
3147	183.796	117.837	183.149
3148	183.787	117.848	183.098
3149	183.778	117.86	183.047
3150	183.77	117.871	182.995
3151	183.816	117.886	183.179
3152	183.864	117.902	183.364
3153	183.907	117.918	183.535
3154	183.96	117.934	183.7
3155	183.996	117.95	183.868
3156	184.049	117.966	184.049
3157	184.112	117.985	184.243
3158	184.178	118.002	184.445
3159	184.248	118.018	184.66
3160	184.32	118.032	184.898
3161	184.383	118.044	185.095
3162	184.438	118.055	185.262
3163	184.485	118.064	185.405
3164	184.528	118.071	185.532
3165	184.567	118.078	185.645
3166	184.603	118.084	185.748
3167	184.636	118.089	185.841
3168	184.668	118.093	185.924
3169	184.697	118.096	185.997
3170	184.726	118.099	186.061
3171	184.756	118.101	186.122
3172	184.788	118.102	186.184
3173	184.823	118.102	186.245
3174	184.859	118.101	186.309
3175	184.798	118.083	186.156
3176	184.736	118.065	186.003
3177	184.675	118.047	185.851
3178	184.614	118.029	185.699
3179	184.554	118.012	185.547
3180	184.494	117.994	185.395
3181	184.434	117.976	185.244
3182	184.374	117.958	185.093
3183	184.314	117.94	184.942
3184	184.255	117.922	184.792

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls



3185	184.255	117.923	164.698
3186	184.291	117.921	164.785
3187	184.327	117.918	164.833
3188	184.364	117.915	164.902
3189	184.401	117.911	164.972
3190	184.439	117.905	165.043
3191	184.526	117.909	165.3
3192	184.61	117.917	165.54
3193	184.645	117.927	165.58
3194	184.587	117.911	165.427
3195	184.531	117.895	165.274
3196	184.474	117.879	165.121
3197	184.418	117.863	164.969
3198	184.362	117.848	164.817
3199	184.307	117.832	164.665
3200	184.252	117.816	164.514
3201	184.198	117.801	164.362
3202	184.145	117.785	164.211
3203	184.092	117.77	164.06
3204	184.039	117.755	163.909
3205	183.987	117.74	163.758
3206	183.936	117.725	163.607
3207	183.885	117.71	163.457
3208	183.834	117.695	163.307
3209	183.784	117.68	163.158
3210	183.733	117.666	163.009
3211	183.683	117.651	162.86
3212	183.633	117.636	162.712
3213	183.583	117.621	162.564
3214	183.533	117.605	162.416
3215	183.482	117.59	162.27
3216	183.432	117.574	162.123
3217	183.381	117.559	161.977
3218	183.331	117.543	161.832
3219	183.281	117.527	161.686
3220	183.231	117.511	161.542
3221	183.181	117.495	161.397
3222	183.212	117.508	161.472
3223	183.265	117.521	161.641
3224	183.315	117.536	161.795
3225	183.365	117.554	161.942
3226	183.418	117.574	162.09
3227	183.465	117.595	162.236
3228	183.52	117.616	162.39
3229	183.579	117.635	162.551
3230	183.633	117.653	162.708
3231	183.673	117.669	162.84
3232	183.714	117.685	162.98
3233	183.749	117.701	163.103
3234	183.767	117.716	163.16
3235	183.763	117.733	163.121
3236	183.758	117.746	163.082
3237	183.749	117.757	163.031
3238	183.741	117.769	162.979
3239	183.732	117.78	162.928

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls



3240	183.724	117.791	162.677
3241	183.715	117.803	162.826
3242	183.706	117.814	162.775
3243	183.698	117.825	162.724
3244	183.689	117.836	162.673
3245	183.681	117.847	162.622
3246	183.672	117.859	162.572
3247	183.663	117.87	162.521
3248	183.655	117.881	162.47
3249	183.646	117.892	162.42
3250	183.638	117.903	162.369
3251	183.629	117.914	162.319
3252	183.62	117.925	162.269
3253	183.612	117.936	162.218
3254	183.603	117.947	162.168
3255	183.595	117.958	162.118
3256	183.586	117.969	162.068
3257	183.578	117.98	162.018
3258	183.569	117.991	161.968
3259	183.561	118.002	161.918
3260	183.552	118.013	161.868
3261	183.544	118.024	161.818
3262	183.535	118.035	161.768
3263	183.527	118.046	161.718
3264	183.518	118.057	161.668
3265	183.51	118.068	161.618
3266	183.501	118.079	161.568
3267	183.493	118.09	161.518
3268	183.484	118.101	161.468
3269	183.476	118.112	161.418
3270	183.467	118.123	161.368
3271	183.459	118.134	161.318
3272	183.45	118.145	161.268
3273	183.442	118.156	161.218
3274	183.433	118.167	161.168
3275	183.425	118.178	161.118
3276	183.416	118.189	161.068
3277	183.408	118.2	161.018
3278	183.399	118.211	160.968
3279	183.391	118.222	160.918
3280	183.382	118.233	160.868
3281	183.374	118.244	160.818
3282	183.365	118.255	160.768
3283	183.357	118.266	160.718
3284	183.348	118.277	160.668
3285	183.34	118.288	160.618
3286	183.331	118.299	160.568
3287	183.323	118.31	160.518
3288	183.314	118.321	160.468
3289	183.306	118.332	160.418
3290	183.297	118.343	160.368
3291	183.289	118.354	160.318
3292	183.28	118.365	160.268
3293	183.272	118.376	160.218
3294	183.263	118.387	160.168

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls



3295	183.796	117.934	162.975
3296	183.752	117.922	162.825
3297	183.708	117.909	162.675
3298	183.665	117.897	162.526
3299	183.622	117.885	162.378
3300	183.579	117.873	162.229
3301	183.537	117.861	162.081
3302	183.494	117.849	161.934
3303	183.452	117.837	161.787
3304	183.411	117.825	161.64
3305	183.369	117.813	161.494
3306	183.328	117.801	161.348
3307	183.287	117.789	161.202
3308	183.246	117.777	161.057
3309	183.205	117.765	160.913
3310	183.164	117.753	160.768
3311	183.123	117.741	160.625
3312	183.082	117.728	160.481
3313	183.04	117.715	160.339
3314	182.998	117.702	160.197
3315	182.956	117.689	160.055
3316	182.913	117.675	159.914
3317	182.871	117.661	159.773
3318	182.827	117.647	159.633
3319	182.784	117.632	159.493
3320	182.74	117.617	159.354
3321	182.696	117.602	159.215
3322	182.652	117.587	159.077
3323	182.607	117.571	158.939
3324	182.562	117.556	158.802
3325	182.561	117.587	158.745
3326	182.56	117.579	158.688
3327	182.559	117.59	158.631
3328	182.558	117.602	158.575
3329	182.556	117.613	158.519
3330	182.555	117.624	158.463
3331	182.554	117.635	158.406
3332	182.552	117.647	158.349
3333	182.549	117.657	158.289
3334	182.535	117.659	158.209
3335	182.508	117.655	158.108
3336	182.47	117.642	157.987
3337	182.494	117.653	158.041
3338	182.544	117.666	158.202
3339	182.595	117.681	158.36
3340	182.647	117.698	158.518
3341	182.694	117.717	158.674
3342	182.753	117.734	158.843
3343	182.812	117.75	159.016
3344	182.862	117.765	159.176
3345	182.902	117.778	159.319
3346	182.943	117.791	159.47
3347	182.976	117.804	159.595
3348	182.986	117.818	159.627
3349	182.982	117.832	159.597

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls



3350	182.977	117.842	159.567
3351	182.969	117.852	159.52
3352	182.96	117.862	159.473
3353	182.952	117.873	159.426
3354	182.943	117.883	159.378
3355	182.935	117.893	159.331
3356	182.928	117.904	159.284
3357	182.918	117.914	159.238
3358	182.909	117.924	159.191
3359	182.901	117.934	159.144
3360	182.892	117.945	159.097
3361	182.884	117.955	159.051
3362	182.875	117.965	159.004
3363	182.867	117.975	158.958
3364	182.858	117.985	158.911
3365	182.85	117.996	158.865
3366	182.842	118.006	158.818
3367	182.833	118.016	158.772
3368	182.88	118.026	158.964
3369	182.927	118.04	159.156
3370	182.972	118.053	159.343
3371	183.015	118.066	159.518
3372	183.059	118.078	159.693
3373	183.109	118.092	159.879
3374	183.167	118.106	160.078
3375	183.233	118.121	160.288
3376	183.301	118.134	160.505
3377	183.373	118.146	160.744
3378	183.44	118.155	160.971
3379	183.5	118.163	161.16
3380	183.551	118.169	161.325
3381	183.596	118.174	161.469
3382	183.637	118.177	161.599
3383	183.674	118.18	161.716
3384	183.709	118.182	161.824
3385	183.742	118.182	161.921
3386	183.772	118.182	162.007
3387	183.801	118.182	162.082
3388	183.832	118.18	162.156
3389	183.866	118.178	162.229
3390	183.902	118.174	162.302
3391	183.938	118.17	162.376
3392	183.976	118.165	162.451
3393	184.013	118.158	162.528
3394	184.051	118.151	162.605
3395	184.089	118.144	162.683
3396	184.128	118.135	162.762
3397	184.06	118.111	162.624
3398	183.991	118.087	162.487
3399	183.923	118.064	162.35
3400	183.855	118.04	162.213
3401	183.788	118.018	162.076
3402	183.721	117.992	161.94
3403	183.654	117.968	161.804
3404	183.587	117.945	161.668

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ANEXO 1E
SIMULACIONES, CALCULOS Y GRAFICAS

3406	183.521	117.921	161.532
3405	183.455	117.897	161.398
3407	183.369	117.873	161.26
3408	183.324	117.85	161.125
3409	183.258	117.826	160.99
3410	183.194	117.802	160.855
3411	183.129	117.779	160.721
3412	183.065	117.755	160.586
3413	183	117.731	160.452
3414	182.937	117.708	160.318
3415	182.873	117.684	160.184
3416	182.81	117.661	160.051
3417	182.747	117.637	159.917
3418	182.684	117.614	159.784
3419	182.622	117.59	159.651
3420	182.559	117.567	159.519
3421	182.497	117.543	159.386
3422	182.435	117.52	159.254
3423	182.374	117.496	159.122
3424	182.313	117.473	158.991
3425	182.256	117.477	159.235
3426	182.484	117.484	159.45
3427	182.523	117.493	159.645
3428	182.56	117.504	159.829
3429	182.631	117.516	159.993
3430	182.66	117.531	160.146
3431	182.731	117.549	160.299
3432	182.782	117.568	160.451
3433	182.831	117.589	160.602
3434	182.893	117.607	160.768
3435	182.95	117.624	160.936
3436	182.987	117.64	161.085
3437	183.038	117.654	161.224
3438	183.077	117.669	161.364
3439	183.108	117.683	161.479
3440	183.112	117.698	161.481
3441	183.108	117.713	161.446
3442	183.104	117.723	161.412
3443	183.095	117.733	161.362
3444	183.086	117.744	161.313
3445	183.078	117.755	161.263
3446	183.069	117.766	161.214
3447	183.061	117.777	161.165
3448	183.052	117.788	161.116
3449	183.044	117.798	161.067
3450	183.035	117.809	161.018
3451	183.027	117.82	160.969
3452	183.018	117.831	160.92
3453	183.01	117.841	160.871
3454	183.001	117.852	160.822
3455	182.993	117.863	160.773
3456	182.984	117.873	160.725
3457	182.976	117.884	160.676
3458	182.967	117.895	160.628
3459	182.959	117.905	160.579

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

3460	183.005	117.917	160.767
3461	183.053	117.933	160.956
3462	183.097	117.947	161.136
3463	183.14	117.961	161.306
3464	183.185	117.975	161.478
3465	183.236	117.99	161.662
3466	183.296	118.006	161.859
3467	183.363	118.022	162.065
3468	183.432	118.036	162.281
3469	183.504	118.049	162.522
3470	183.569	118.059	162.735
3471	183.627	118.068	162.914
3472	183.676	118.075	163.068
3473	183.72	118.081	163.205
3474	183.76	118.086	163.326
3475	183.797	118.09	163.436
3476	183.831	118.093	163.537
3477	183.863	118.095	163.628
3478	183.893	118.096	163.705
3479	183.922	118.097	163.773
3480	183.953	118.098	163.841
3481	183.987	118.095	163.909
3482	184.023	118.093	163.978
3483	184.06	118.089	164.047
3484	184.097	118.085	164.118
3485	184.134	118.08	164.191
3486	184.172	118.074	164.263
3487	184.211	118.068	164.337
3488	184.142	118.045	164.194
3489	184.074	118.023	164.052
3490	184.007	118	163.909
3491	183.939	117.978	163.767
3492	183.872	117.956	163.625
3493	183.805	117.933	163.483
3494	183.739	117.911	163.341
3495	183.673	117.889	163.2
3496	183.607	117.866	163.059
3497	183.541	117.844	162.918
3498	183.476	117.822	162.777
3499	183.411	117.799	162.637
3500	183.346	117.777	162.496
3501	183.281	117.755	162.356
3502	183.217	117.732	162.217
3503	183.153	117.71	162.077
3504	183.089	117.688	161.938
3505	183.026	117.666	161.799
3506	182.963	117.643	161.66
3507	182.9	117.621	161.521
3508	182.838	117.599	161.383
3509	182.776	117.577	161.244
3510	182.715	117.555	161.106
3511	182.654	117.534	160.968
3512	182.736	117.539	161.207
3513	182.802	117.548	161.413
3514	182.861	117.558	161.603

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3515	182.898	117.571	161.701
3516	182.879	117.574	161.601
3517	182.833	117.56	161.455
3518	182.788	117.548	161.31
3519	182.743	117.532	161.165
3520	182.698	117.518	161.02
3521	182.654	117.504	160.876
3522	182.609	117.49	160.732
3523	182.565	117.476	160.588
3524	182.521	117.462	160.445
3525	182.477	117.448	160.302
3526	182.433	117.434	160.16
3527	182.39	117.42	160.017
3528	182.347	117.406	159.876
3529	182.304	117.392	159.734
3530	182.261	117.378	159.593
3531	182.219	117.364	159.453
3532	182.177	117.35	159.312
3533	182.134	117.337	159.172
3534	182.093	117.323	159.033
3535	182.142	117.337	159.189
3536	182.194	117.354	159.344
3537	182.244	117.372	159.497
3538	182.294	117.393	159.651
3539	182.355	117.411	159.819
3540	182.413	117.427	159.988
3541	182.46	117.442	160.139
3542	182.501	117.457	160.281
3543	182.54	117.471	160.423
3544	182.571	117.484	160.54
3545	182.576	117.499	160.545
3546	182.571	117.513	160.512
3547	182.567	117.523	160.479
3548	182.559	117.534	160.431
3549	182.55	117.544	160.382
3550	182.542	117.555	160.333
3551	182.533	117.565	160.285
3552	182.525	117.576	160.237
3553	182.516	117.587	160.188
3554	182.508	117.597	160.14
3555	182.499	117.608	160.092
3556	182.491	117.618	160.044
3557	182.482	117.629	159.995
3558	182.474	117.639	159.947
3559	182.465	117.65	159.9
3560	182.457	117.66	159.852
3561	182.448	117.671	159.804
3562	182.44	117.681	159.756
3563	182.432	117.692	159.708
3564	182.423	117.702	159.661
3565	182.47	117.714	159.85
3566	182.517	117.729	160.04
3567	182.562	117.743	160.221
3568	182.605	117.756	160.393
3569	182.649	117.77	160.566

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coating application.xls

ALSTOM

3570	182.7	117.784	160.752
3571	182.761	117.8	160.95
3572	182.827	117.815	161.158
3573	182.896	117.829	161.376
3574	182.969	117.842	161.617
3575	183.034	117.852	161.832
3576	183.091	117.86	162.014
3577	183.141	117.867	162.17
3578	183.185	117.872	162.308
3579	183.226	117.877	162.432
3580	183.263	117.88	162.544
3581	183.297	117.883	162.646
3582	183.329	117.884	162.736
3583	183.359	117.885	162.818
3584	183.388	117.885	162.887
3585	183.42	117.885	162.958
3586	183.454	117.883	163.027
3587	183.491	117.88	163.098
3588	183.528	117.876	163.17
3589	183.565	117.871	163.243
3590	183.603	117.865	163.317
3591	183.642	117.859	163.392
3592	183.68	117.851	163.467
3593	183.72	117.843	163.544
3594	183.809	117.844	163.808
3595	183.896	117.848	164.066
3596	183.979	117.854	164.304
3597	184.05	117.864	164.514
3598	184.109	117.876	164.7
3599	184.166	117.89	164.877
3600	184.175	117.906	164.849
3601	184.129	117.894	164.693
3602	184.083	117.882	164.538
3603	184.046	117.876	164.4
3604	184.014	117.873	164.273
3605	183.989	117.874	164.155
3606	183.944	117.862	164.004
3607	183.902	117.853	163.859
3608	183.864	117.845	163.72
3609	183.823	117.835	163.577
3610	183.779	117.824	163.431
3611	183.747	117.82	163.303
3612	183.714	117.815	163.176
3613	183.681	117.81	163.05
3614	183.649	117.806	162.923
3615	183.616	117.801	162.797
3616	183.579	117.793	162.684
3617	183.538	117.783	162.525
3618	183.494	117.771	162.38
3619	183.448	117.757	162.232
3620	183.403	117.743	162.085
3621	183.357	117.729	161.938
3622	183.311	117.716	161.792
3623	183.266	117.702	161.646
3624	183.22	117.688	161.5

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls



3625	183.174	117.673	161.355
3626	183.129	117.659	161.21
3627	183.083	117.645	161.066
3628	183.038	117.63	160.922
3629	182.992	117.616	160.779
3630	182.947	117.601	160.636
3631	182.902	117.587	160.493
3632	182.856	117.572	160.351
3633	182.811	117.557	160.209
3634	182.765	117.542	160.068
3635	182.72	117.527	159.927
3636	182.675	117.512	159.787
3637	182.63	117.497	159.647
3638	182.584	117.482	159.507
3639	182.539	117.466	159.368
3640	182.495	117.451	159.229
3641	182.45	117.436	159.09
3642	182.405	117.42	158.952
3643	182.361	117.405	158.814
3644	182.317	117.39	158.677
3645	182.273	117.374	158.54
3646	182.229	117.359	158.403
3647	182.185	117.344	158.266
3648	182.141	117.328	158.13
3649	182.097	117.313	157.995
3650	182.054	117.297	157.859
3651	182.011	117.282	157.724
3652	181.968	117.266	157.59
3653	181.926	117.251	157.455
3654	181.884	117.236	157.321
3655	181.843	117.222	157.188
3656	181.802	117.207	157.054
3657	181.761	117.193	156.921
3658	181.721	117.179	156.788
3659	181.682	117.166	156.656
3660	181.681	117.171	156.603
3661	181.73	117.175	156.77
3662	181.775	117.178	156.923
3663	181.818	117.18	157.065
3664	181.857	117.181	157.196
3665	181.894	117.181	157.32
3666	181.929	117.181	157.436
3667	181.962	117.181	157.544
3668	181.986	117.181	157.621
3669	181.916	117.162	157.389
3670	181.886	117.143	157.257
3671	181.817	117.124	157.125
3672	181.788	117.106	156.994
3673	181.72	117.087	156.863
3674	181.672	117.069	156.732
3675	181.623	117.05	156.602
3676	181.576	117.032	156.472
3677	181.528	117.013	156.342
3678	181.48	116.995	156.213
3679	181.535	117.005	156.397

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls



3680	181.585	117.016	156.564
3681	181.635	117.03	156.724
3682	181.589	117.047	156.884
3683	181.737	117.065	157.044
3684	181.792	117.082	157.21
3685	181.852	117.098	157.384
3686	181.908	117.113	157.555
3687	181.947	117.126	157.701
3688	181.988	117.139	157.851
3689	182.024	117.152	157.986
3690	182.043	117.164	158.059
3691	182.039	117.179	158.033
3692	182.034	117.19	158.004
3693	182.026	117.2	157.958
3694	182.017	117.21	157.912
3695	182.009	117.22	157.866
3696	182	117.23	157.82
3697	181.992	117.24	157.774
3698	181.984	117.25	157.728
3699	181.975	117.26	157.682
3700	181.967	117.271	157.636
3701	181.958	117.281	157.59
3702	181.95	117.291	157.545
3703	181.941	117.301	157.499
3704	181.933	117.311	157.454
3705	181.924	117.321	157.408
3706	181.916	117.331	157.363
3707	181.908	117.341	157.317
3708	181.899	117.351	157.272
3709	181.891	117.36	157.227
3710	181.938	117.369	157.42
3711	181.984	117.381	157.613
3712	182.031	117.395	157.806
3713	182.074	117.407	157.984
3714	182.117	117.419	158.161
3715	182.155	117.432	158.344
3716	182.22	117.446	158.54
3717	182.285	117.461	158.749
3718	182.352	117.474	158.966
3719	182.423	117.486	159.199
3720	182.493	117.496	159.44
3721	182.555	117.505	159.642
3722	182.609	117.511	159.817
3723	182.656	117.516	159.968
3724	182.698	117.52	160.104
3725	182.737	117.523	160.226
3726	182.772	117.525	160.338
3727	182.805	117.526	160.44
3728	182.836	117.526	160.53
3729	182.866	117.526	160.609
3730	182.896	117.524	160.684
3731	182.93	117.522	160.759
3732	182.967	117.518	160.834
3733	182.972	117.515	160.772
3734	182.914	117.494	160.636

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls



3735	182.855	117.473	160.5
3736	182.797	117.452	160.365
3737	182.738	117.432	160.23
3738	182.68	117.411	160.096
3739	182.621	117.39	159.961
3740	182.563	117.369	159.827
3741	182.505	117.347	159.694
3742	182.446	117.326	159.561
3743	182.388	117.305	159.428
3744	182.33	117.284	159.296
3745	182.272	117.262	159.164
3746	182.213	117.241	159.032
3747	182.155	117.219	158.9
3748	182.097	117.197	158.769
3749	182.037	117.175	158.637
3750	181.977	117.152	158.506
3751	182.06	117.157	158.747
3752	182.125	117.164	158.957
3753	182.185	117.174	159.152
3754	182.24	117.185	159.335
3755	182.291	117.198	159.497
3756	182.34	117.213	159.651
3757	182.392	117.231	159.804
3758	182.442	117.251	159.956
3759	182.492	117.271	160.109
3760	182.553	117.29	160.275
3761	182.611	117.307	160.443
3762	182.657	117.322	160.591
3763	182.697	117.337	160.731
3764	182.736	117.352	160.87
3765	182.766	117.366	160.981
3766	182.798	117.381	160.975
3767	182.783	117.395	160.941
3768	182.759	117.405	160.907
3769	182.751	117.416	160.857
3770	182.742	117.426	160.808
3771	182.734	117.437	160.759
3772	182.725	117.448	160.71
3773	182.717	117.459	160.661
3774	182.708	117.47	160.612
3775	182.7	117.48	160.563
3776	182.691	117.491	160.514
3777	182.683	117.502	160.466
3778	182.674	117.512	160.417
3779	182.666	117.523	160.368
3780	182.657	117.534	160.32
3781	182.649	117.544	160.271
3782	182.64	117.555	160.223
3783	182.632	117.566	160.174
3784	182.623	117.576	160.126
3785	182.615	117.587	160.078
3786	182.606	117.598	160.03
3787	182.709	117.615	160.455
3788	182.753	117.629	160.634
3789	182.796	117.643	160.805

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3790	182.841	117.657	160.977
3791	182.693	117.672	161.163
3792	182.964	117.688	161.361
3793	183.02	117.704	161.568
3794	183.089	117.718	161.786
3795	183.162	117.731	162.028
3796	183.227	117.742	162.239
3797	183.283	117.75	162.417
3798	183.332	117.758	162.57
3799	183.376	117.764	162.706
3800	183.416	117.768	162.827
3801	183.452	117.772	162.936
3802	183.486	117.775	163.036
3803	183.518	117.778	163.126
3804	183.548	117.779	163.204
3805	183.576	117.78	163.272
3806	183.608	117.78	163.341
3807	183.641	117.779	163.409
3808	183.677	117.777	163.476
3809	183.714	117.775	163.547
3810	183.75	117.771	163.617
3811	183.787	117.768	163.688
3812	183.824	117.763	163.76
3813	183.862	117.759	163.832
3814	183.9	117.753	163.905
3815	183.938	117.748	163.978
3816	183.976	117.741	164.052
3817	184.016	117.735	164.126
3818	183.946	117.713	163.983
3819	183.877	117.691	163.84
3820	183.81	117.669	163.697
3821	183.743	117.648	163.554
3822	183.676	117.626	163.411
3823	183.61	117.606	163.268
3824	183.544	117.583	163.126
3825	183.477	117.561	162.986
3826	183.41	117.539	162.844
3827	183.343	117.517	162.703
3828	183.275	117.494	162.564
3829	183.206	117.471	162.425
3830	183.215	117.473	162.338
3831	183.223	117.475	162.251
3832	183.231	117.476	162.165
3833	183.239	117.478	162.078
3834	183.248	117.479	161.992
3835	183.256	117.48	161.907
3836	183.264	117.482	161.818
3837	183.271	117.483	161.728
3838	183.277	117.484	161.638
3839	183.239	117.471	161.548
3840	183.17	117.447	161.363
3841	183.102	117.423	161.248
3842	183.034	117.4	161.113
3843	182.966	117.376	160.978
3844	182.898	117.353	160.843

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3845	182.831	117.329	160.709
3846	182.764	117.305	160.574
3847	182.697	117.282	160.44
3848	182.631	117.258	160.306
3849	182.565	117.235	160.172
3850	182.499	117.212	160.039
3851	182.434	117.188	159.905
3852	182.369	117.165	159.772
3853	182.304	117.141	159.639
3854	182.24	117.118	159.505
3855	182.175	117.095	159.373
3856	182.112	117.072	159.241
3857	182.048	117.048	159.108
3858	181.985	117.025	158.976
3859	181.922	117.002	158.844
3860	182.007	117.005	159.098
3861	182.083	117.012	159.325
3862	182.143	117.021	159.524
3863	182.201	117.032	159.713
3864	182.254	117.045	159.885
3865	182.304	117.059	160.041
3866	182.354	117.076	160.192
3867	182.407	117.096	160.343
3868	182.455	117.116	160.492
3869	182.511	117.136	160.65
3870	182.57	117.155	160.815
3871	182.623	117.172	160.974
3872	182.663	117.187	161.109
3873	182.704	117.203	161.252
3874	182.739	117.217	161.377
3875	182.756	117.232	161.433
3876	182.751	117.249	161.397
3877	182.747	117.261	161.361
3878	182.738	117.272	161.311
3879	182.73	117.283	161.261
3880	182.721	117.294	161.211
3881	182.713	117.305	161.161
3882	182.704	117.316	161.112
3883	182.696	117.327	161.062
3884	182.687	117.338	161.013
3885	182.679	117.349	160.963
3886	182.67	117.359	160.914
3887	182.662	117.37	160.864
3888	182.653	117.381	160.815
3889	182.644	117.392	160.766
3890	182.636	117.403	160.717
3891	182.627	117.414	160.667
3892	182.619	117.424	160.618
3893	182.61	117.435	160.57
3894	182.602	117.446	160.521
3895	182.593	117.456	160.478
3896	182.595	117.47	160.895
3897	182.742	117.486	161.08
3898	182.785	117.501	161.251
3899	182.828	117.515	161.419

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls



3900	182.876	117.53	161.596
3901	182.932	117.546	161.785
3902	182.997	117.563	161.987
3903	183.064	117.579	162.196
3904	183.135	117.593	162.423
3905	183.205	117.606	162.653
3906	183.266	117.616	162.844
3907	183.319	117.625	163.008
3908	183.364	117.632	163.15
3909	183.406	117.638	163.277
3910	183.444	117.643	163.391
3911	183.48	117.647	163.494
3912	183.511	117.651	163.583
3913	183.549	117.655	163.682
3914	183.538	117.675	163.592
3915	183.497	117.665	163.449
3916	183.46	117.658	163.312
3917	183.426	117.653	163.183
3918	183.396	117.651	163.061
3919	183.365	117.647	162.936
3920	183.319	117.634	162.786
3921	183.273	117.621	162.637
3922	183.227	117.607	162.488
3923	183.182	117.594	162.339
3924	183.138	117.581	162.191
3925	183.091	117.567	162.043
3926	183.046	117.554	161.895
3927	183	117.54	161.748
3928	182.956	117.527	161.602
3929	182.91	117.513	161.456
3930	182.864	117.499	161.31
3931	182.819	117.485	161.165
3932	182.774	117.471	161.02
3933	182.729	117.457	160.876
3934	182.684	117.443	160.732
3935	182.639	117.429	160.588
3936	182.594	117.414	160.445
3937	182.549	117.4	160.303
3938	182.504	117.386	160.16
3939	182.459	117.371	160.018
3940	182.415	117.356	159.877
3941	182.37	117.342	159.736
3942	182.325	117.327	159.595
3943	182.28	117.312	159.455
3944	182.236	117.297	159.315
3945	182.191	117.282	159.176
3946	182.147	117.267	159.037
3947	182.103	117.252	158.898
3948	182.058	117.237	158.76
3949	182.014	117.222	158.622
3950	181.97	117.206	158.485
3951	181.926	117.191	158.348
3952	181.881	117.175	158.211
3953	181.837	117.16	158.075
3954	181.793	117.144	157.939

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3955	181.749	117.129	157.803
3956	181.705	117.113	157.868
3957	181.681	117.097	157.534
3958	181.617	117.081	157.399
3959	181.573	117.065	157.265
3960	181.529	117.049	157.132
3961	181.486	117.033	156.999
3962	181.442	117.017	156.866
3963	181.398	117	156.734
3964	181.354	116.984	156.602
3965	181.31	116.968	156.47
3966	181.266	116.951	156.339
3967	181.222	116.934	156.208
3968	181.227	116.936	156.193
3969	181.264	116.936	156.315
3970	181.297	116.935	156.429
3971	181.329	116.933	156.525
3972	181.359	116.93	156.611
3973	181.39	116.926	156.696
3974	181.425	116.921	156.78
3975	181.462	116.916	156.864
3976	181.404	116.893	156.736
3977	181.346	116.87	156.609
3978	181.288	116.847	156.482
3979	181.23	116.824	156.356
3980	181.173	116.802	156.229
3981	181.116	116.779	156.103
3982	181.06	116.756	155.977
3983	181.004	116.734	155.851
3984	180.948	116.712	155.726
3985	180.892	116.69	155.6
3986	180.837	116.668	155.475
3987	180.783	116.646	155.35
3988	180.728	116.624	155.226
3989	180.674	116.602	155.101
3990	180.62	116.58	154.977
3991	180.567	116.559	154.853
3992	180.514	116.537	154.729
3993	180.461	116.516	154.606
3994	180.409	116.494	154.482
3995	180.356	116.473	154.359
3996	180.304	116.451	154.236
3997	180.365	116.457	154.444
3998	180.424	116.465	154.645
3999	180.477	116.475	154.825
4000	180.528	116.487	154.993
4001	180.578	116.501	155.156
4002	180.631	116.517	155.319
4003	180.679	116.535	155.48
4004	180.736	116.552	155.652
4005	180.795	116.567	155.83
4006	180.847	116.581	155.998
4007	180.888	116.593	156.145
4008	180.929	116.608	156.299
4009	180.983	116.618	156.432

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls



4010	180.976	116.63	156.483
4011	180.972	116.644	156.459
4012	180.968	116.653	156.433
4013	180.969	116.663	156.388
4014	180.951	116.673	156.343
4015	180.943	116.683	156.298
4016	180.934	116.693	156.253
4017	180.926	116.703	156.208
4018	180.917	116.713	156.163
4019	180.909	116.723	156.118
4020	180.901	116.732	156.074
4021	180.892	116.742	156.029
4022	180.884	116.752	155.985
4023	180.876	116.762	155.94
4024	180.867	116.771	155.896
4025	180.859	116.781	155.852
4026	180.85	116.791	155.807
4027	180.842	116.801	155.763
4028	180.834	116.81	155.719
4029	180.825	116.82	155.675
4030	180.872	116.828	155.888
4031	180.919	116.841	156.063
4032	180.964	116.854	156.255
4033	181.007	116.866	156.434
4034	181.051	116.878	156.612
4035	181.1	116.89	156.8
4036	181.157	116.903	157.001
4037	181.223	116.918	157.215
4038	181.291	116.93	157.435
4039	181.362	116.942	157.675
4040	181.431	116.951	157.911
4041	181.492	116.958	158.107
4042	181.544	116.964	158.279
4043	181.59	116.968	158.43
4044	181.632	116.972	158.565
4045	181.67	116.974	158.688
4046	181.705	116.975	158.801
4047	181.738	116.976	158.904
4048	181.762	116.976	158.918
4049	181.701	116.958	158.781
4050	181.65	116.94	158.645
4051	181.599	116.922	158.509
4052	181.548	116.904	158.373
4053	181.497	116.885	158.238
4054	181.447	116.867	158.103
4055	181.396	116.849	157.968
4056	181.346	116.83	157.833
4057	181.296	116.812	157.699
4058	181.246	116.794	157.563
4059	181.196	116.775	157.432
4060	181.146	116.757	157.299
4061	181.097	116.738	157.166
4062	181.047	116.72	157.034
4063	180.997	116.701	156.902
4064	180.947	116.682	156.771

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

4065	180.897	116.663	156.64
4066	180.846	116.644	156.509
4067	180.904	116.653	156.704
4068	180.928	116.664	156.752
4069	180.927	116.676	156.699
4070	180.926	116.687	156.646
4071	180.926	116.698	156.594
4072	180.925	116.709	156.541
4073	180.925	116.72	156.488
4074	180.924	116.731	156.435
4075	180.923	116.742	156.382
4076	180.922	116.753	156.329
4077	180.921	116.764	156.276
4078	180.92	116.775	156.222
4079	180.919	116.786	156.17
4080	180.919	116.796	156.118
4081	180.918	116.807	156.066
4082	180.917	116.817	156.015
4083	180.916	116.828	155.964
4084	180.915	116.838	155.912
4085	180.915	116.849	155.861
4086	180.914	116.859	155.811
4087	180.914	116.869	155.76
4088	180.913	116.879	155.71
4089	180.912	116.889	155.659
4090	180.911	116.899	155.609
4091	180.911	116.909	155.558
4092	180.91	116.919	155.51
4093	180.909	116.929	155.461
4094	180.909	116.939	155.411
4095	180.908	116.949	155.362
4096	180.908	116.959	155.314
4097	180.907	116.968	155.267
4098	180.907	116.978	155.219
4099	180.906	116.988	155.172
4100	180.906	116.997	155.125
4101	180.861	116.979	154.999
4102	180.816	116.96	154.873
4103	180.771	116.941	154.748
4104	180.725	116.922	154.623
4105	180.679	116.903	154.499
4106	180.633	116.883	154.375
4107	180.586	116.864	154.251
4108	180.64	116.873	154.435
4109	180.691	116.883	154.605
4110	180.741	116.896	154.771
4111	180.795	116.911	154.936
4112	180.843	116.928	155.1
4113	180.899	116.944	155.273
4114	180.959	116.958	155.453
4115	181.013	116.971	155.627
4116	181.053	116.983	155.775
4117	181.094	116.995	155.931
4118	181.129	117.006	156.068
4119	181.146	117.018	156.137

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls



4120	181.142	117.031	156.114
4121	181.138	117.04	156.09
4122	181.129	117.05	156.046
4123	181.121	117.06	156.002
4124	181.113	117.069	155.958
4125	181.104	117.079	155.914
4126	181.096	117.089	155.87
4127	181.088	117.098	155.826
4128	181.079	117.108	155.782
4129	181.071	117.118	155.738
4130	181.063	117.127	155.694
4131	181.054	117.137	155.65
4132	181.046	117.146	155.607
4133	181.038	117.156	155.563
4134	181.029	117.165	155.52
4135	181.021	117.175	155.476
4136	181.013	117.184	155.433
4137	181.004	117.194	155.39
4138	180.996	117.203	155.346
4139	181.043	117.211	155.542
4140	181.089	117.222	155.739
4141	181.136	117.235	155.934
4142	181.179	117.246	156.115
4143	181.222	117.257	156.295
4144	181.271	117.269	156.484
4145	181.327	117.281	156.685
4146	181.392	117.295	156.9
4147	181.46	117.307	157.121
4148	181.531	117.318	157.36
4149	181.601	117.326	157.603
4150	181.663	117.333	157.806
4151	181.716	117.338	157.983
4152	181.763	117.342	158.138
4153	181.805	117.344	158.277
4154	181.844	117.346	158.404
4155	181.88	117.346	158.52
4156	181.914	117.346	158.627
4157	181.945	117.345	158.723
4158	181.976	117.344	158.809
4159	182.006	117.341	158.888
4160	182.039	117.338	158.968
4161	182.075	117.334	159.047
4162	182.112	117.328	159.127
4163	182.15	117.322	159.207
4164	182.188	117.315	159.29
4165	182.228	117.308	159.372
4166	182.265	117.299	159.458
4167	182.286	117.291	159.456
4168	182.219	117.266	159.325
4169	182.153	117.241	159.195
4170	182.088	117.217	159.065
4171	182.022	117.192	158.934
4172	181.957	117.168	158.805
4173	181.892	117.143	158.675
4174	181.827	117.119	158.545

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls



4175	181.763	117.094	158.418
4176	181.899	117.07	158.287
4177	181.635	117.045	158.158
4178	181.571	117.021	158.029
4179	181.508	116.996	157.901
4180	181.444	116.972	157.773
4181	181.381	116.948	157.645
4182	181.318	116.923	157.517
4183	181.256	116.899	157.39
4184	181.194	116.874	157.262
4185	181.131	116.85	157.135
4186	181.069	116.825	157.008
4187	181.008	116.801	156.882
4188	180.946	116.777	156.755
4189	180.884	116.752	156.63
4190	180.823	116.728	156.504
4191	180.761	116.703	156.379
4192	180.7	116.678	156.254
4193	180.639	116.654	156.129
4194	180.577	116.629	156.004
4195	180.516	116.604	155.88
4196	180.6	116.607	156.132
4197	180.672	116.612	156.357
4198	180.733	116.619	156.56
4199	180.791	116.629	156.754
4200	180.804	116.64	156.762
4201	180.768	116.629	156.643
4202	180.73	116.617	156.523
4203	180.696	116.607	156.41
4204	180.662	116.597	156.297
4205	180.628	116.588	156.185
4206	180.584	116.571	156.054
4207	180.539	116.554	155.923
4208	180.495	116.537	155.792
4209	180.45	116.52	155.662
4210	180.406	116.504	155.533
4211	180.362	116.487	155.403
4212	180.318	116.47	155.274
4213	180.274	116.453	155.145
4214	180.23	116.436	155.017
4215	180.187	116.419	154.889
4216	180.143	116.401	154.761
4217	180.099	116.384	154.634
4218	180.056	116.367	154.507
4219	180.013	116.35	154.38
4220	179.969	116.333	154.254
4221	179.926	116.315	154.128
4222	179.883	116.298	154.002
4223	179.84	116.281	153.877
4224	179.798	116.264	153.752
4225	179.755	116.246	153.627
4226	179.713	116.229	153.503
4227	179.67	116.212	153.379
4228	179.628	116.195	153.255
4229	179.586	116.177	153.132

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls



4230	179.544	116.16	153.009
4231	179.595	116.17	153.181
4232	179.646	116.183	153.347
4233	179.699	116.199	153.515
4234	179.747	116.215	153.68
4235	179.804	116.231	153.855
4236	179.863	116.245	154.037
4237	179.916	116.258	154.21
4238	179.957	116.27	154.36
4239	179.998	116.281	154.518
4240	180.032	116.292	154.655
4241	180.047	116.304	154.718
4242	180.043	116.317	154.895
4243	180.039	116.328	154.873
4244	180.031	116.336	154.629
4245	180.022	116.345	154.588
4246	180.014	116.355	154.543
4247	180.006	116.364	154.499
4248	179.997	116.374	154.458
4249	179.989	116.383	154.413
4250	179.981	116.393	154.37
4251	179.972	116.402	154.327
4252	179.964	116.412	154.284
4253	179.956	116.421	154.241
4254	179.948	116.43	154.198
4255	179.939	116.44	154.155
4256	179.931	116.449	154.113
4257	179.923	116.459	154.07
4258	179.914	116.468	154.027
4259	179.906	116.477	153.985
4260	179.898	116.487	153.942
4261	179.89	116.496	153.9
4262	179.881	116.505	153.857
4263	179.873	116.514	153.815
4264	179.865	116.524	153.773
4265	179.856	116.533	153.731
4266	179.848	116.542	153.688
4267	179.84	116.551	153.646
4268	179.832	116.561	153.604
4269	179.823	116.57	153.562
4270	179.815	116.579	153.52
4271	179.807	116.588	153.478
4272	179.799	116.597	153.437
4273	179.79	116.606	153.395
4274	179.782	116.615	153.353
4275	179.774	116.625	153.312
4276	179.766	116.634	153.27
4277	179.757	116.643	153.228
4278	179.749	116.652	153.187
4279	179.741	116.661	153.146
4280	179.733	116.67	153.104
4281	179.724	116.679	153.063
4282	179.716	116.688	153.022
4283	179.708	116.697	152.981
4284	179.7	116.706	152.939

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

4285	179.691	116.715	152.898
4286	179.683	116.724	152.857
4287	179.675	116.733	152.816
4288	179.667	116.742	152.775
4289	179.659	116.75	152.735
4290	179.65	116.759	152.694
4291	179.642	116.768	152.653
4292	179.634	116.777	152.613
4293	179.626	116.786	152.572
4294	179.618	116.795	152.531
4295	179.609	116.804	152.491
4296	179.601	116.812	152.45
4297	179.593	116.821	152.41
4298	179.585	116.83	152.37
4299	179.577	116.839	152.329
4300	179.568	116.847	152.289
4301	179.56	116.856	152.249
4302	179.552	116.865	152.209
4303	179.544	116.874	152.169
4304	179.536	116.882	152.129
4305	179.527	116.891	152.089
4306	179.519	116.9	152.049
4307	179.511	116.908	152.009
4308	179.503	116.917	151.969
4309	179.495	116.925	151.93
4310	179.487	116.934	151.89
4311	179.478	116.943	151.85
4312	179.47	116.951	151.811
4313	179.462	116.96	151.771
4314	179.454	116.968	151.732
4315	179.446	116.977	151.693
4316	179.438	116.985	151.653
4317	179.429	116.994	151.614
4318	179.421	117.002	151.575
4319	179.413	117.011	151.536
4320	179.405	117.019	151.496
4321	179.397	117.028	151.457
4322	179.389	117.036	151.418
4323	179.381	117.045	151.379
4324	179.372	117.053	151.34
4325	179.364	117.062	151.302
4326	179.356	117.07	151.263
4327	179.348	117.078	151.224
4328	179.34	117.087	151.185
4329	179.332	117.095	151.147
4330	179.324	117.103	151.108
4331	179.315	117.112	151.07
4332	179.307	117.12	151.031
4333	179.299	117.128	150.993
4334	179.291	117.137	150.954
4335	179.283	117.145	150.916
4336	179.275	117.153	150.878
4337	179.267	117.161	150.839
4338	179.259	117.17	150.801
4339	179.251	117.178	150.763

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls



4340	179.242	117.186	150.725
4341	179.234	117.194	150.687
4342	179.226	117.202	150.649
4343	179.218	117.211	150.611
4344	179.21	117.219	150.573
4345	179.202	117.227	150.536
4346	179.194	117.235	150.498
4347	179.186	117.243	150.46
4348	179.178	117.251	150.423
4349	179.17	117.259	150.385
4350	179.161	117.267	150.347
4351	179.153	117.275	150.31
4352	179.145	117.283	150.272
4353	179.137	117.291	150.235
4354	179.129	117.299	150.198
4355	179.121	117.307	150.16
4356	179.113	117.315	150.123
4357	179.105	117.323	150.086
4358	179.097	117.331	150.049
4359	179.089	117.339	150.012
4360	179.081	117.347	149.975
4361	179.073	117.355	149.938
4362	179.065	117.363	149.901
4363	179.057	117.371	149.864
4364	179.049	117.379	149.827
4365	179.04	117.387	149.79
4366	179.032	117.395	149.754
4367	179.024	117.403	149.717
4368	179.016	117.41	149.68
4369	179.008	117.418	149.644
4370	179	117.426	149.607
4371	178.992	117.434	149.571
4372	178.984	117.442	149.534
4373	178.976	117.449	149.498
4374	178.968	117.457	149.462
4375	178.96	117.465	149.426
4376	178.952	117.473	149.389
4377	178.944	117.48	149.353
4378	178.936	117.488	149.317
4379	178.928	117.496	149.281
4380	178.92	117.503	149.245
4381	178.912	117.511	149.209
4382	178.904	117.519	149.173
4383	178.896	117.526	149.137
4384	178.888	117.534	149.101
4385	178.88	117.542	149.066
4386	178.872	117.549	149.03
4387	178.864	117.557	148.994
4388	178.856	117.565	148.959
4389	178.848	117.572	148.923
4390	178.84	117.58	148.887
4391	178.832	117.587	148.852
4392	178.824	117.595	148.817
4393	178.816	117.602	148.781
4394	178.808	117.61	148.746

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Ccasting application.xls

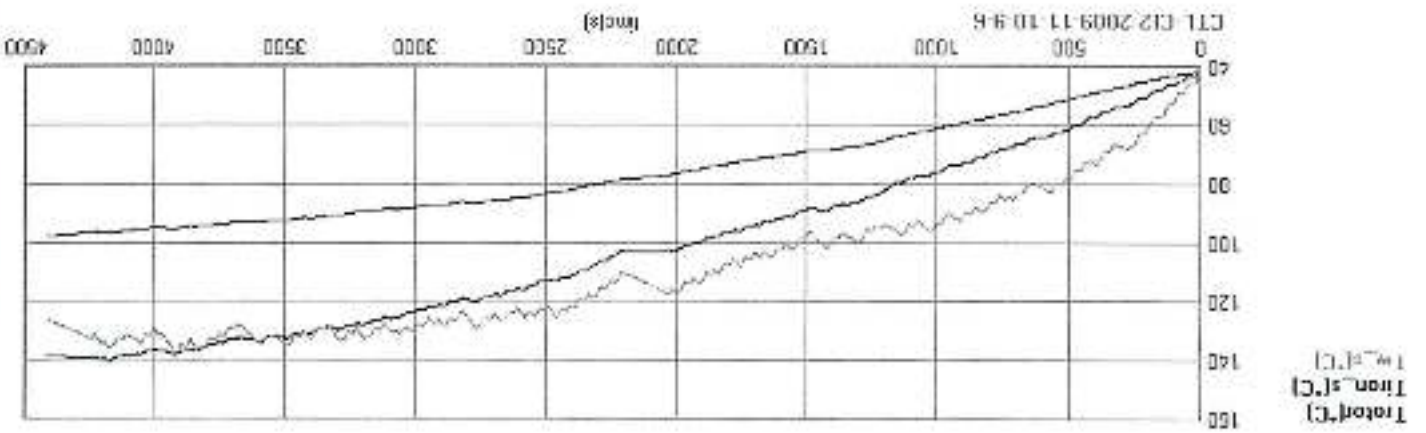


4395	178.8	117.617	148.711
4396	178.792	117.625	148.675
4397	178.784	117.632	148.64
4398	178.776	117.64	148.605
4399	178.768	117.647	148.57
4400	178.76	117.655	148.535
4401	178.752	117.662	148.5
4402	178.744	117.669	148.465
4403	178.736	117.677	148.43
4404	178.728	117.684	148.395
4405	178.72	117.692	148.36
4406	178.712	117.699	148.326
4407	178.704	117.706	148.291
4408	178.696	117.714	148.256
4409	178.688	117.721	148.222
4410	178.68	117.728	148.187
4411	178.672	117.736	148.153
4412	178.664	117.743	148.118
4413	178.656	117.75	148.084
4414	178.648	117.758	148.049
4415	178.64	117.765	148.015
4416	178.632	117.772	147.981
4417	178.625	117.779	147.946
4418	178.617	117.787	147.912
4419	178.609	117.794	147.878
4420	178.601	117.801	147.844
4421	178.593	117.808	147.81
4422	178.585	117.815	147.776
4423	178.577	117.822	147.742
4424	178.569	117.83	147.708

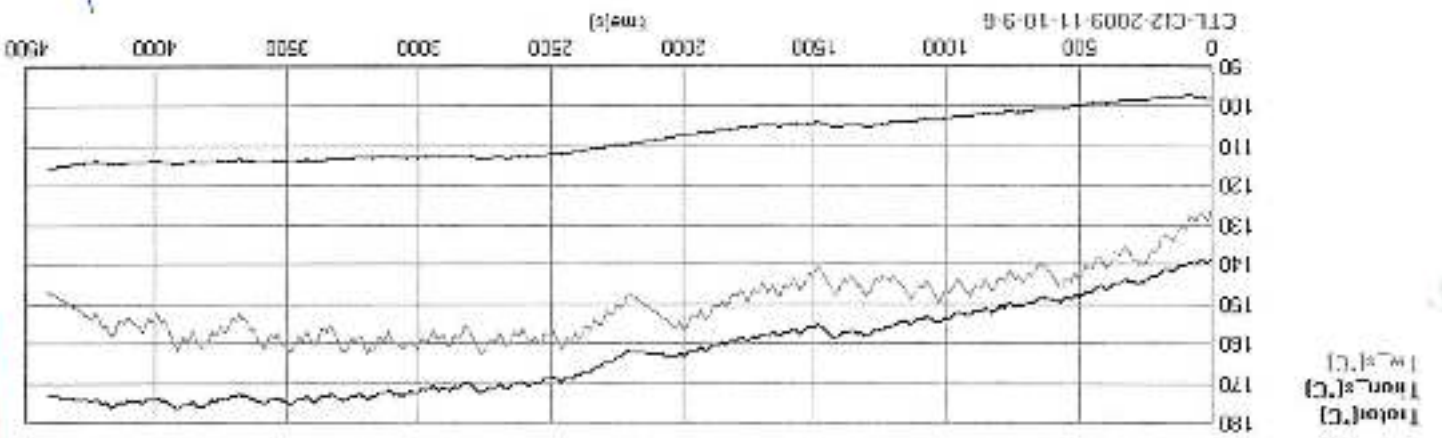
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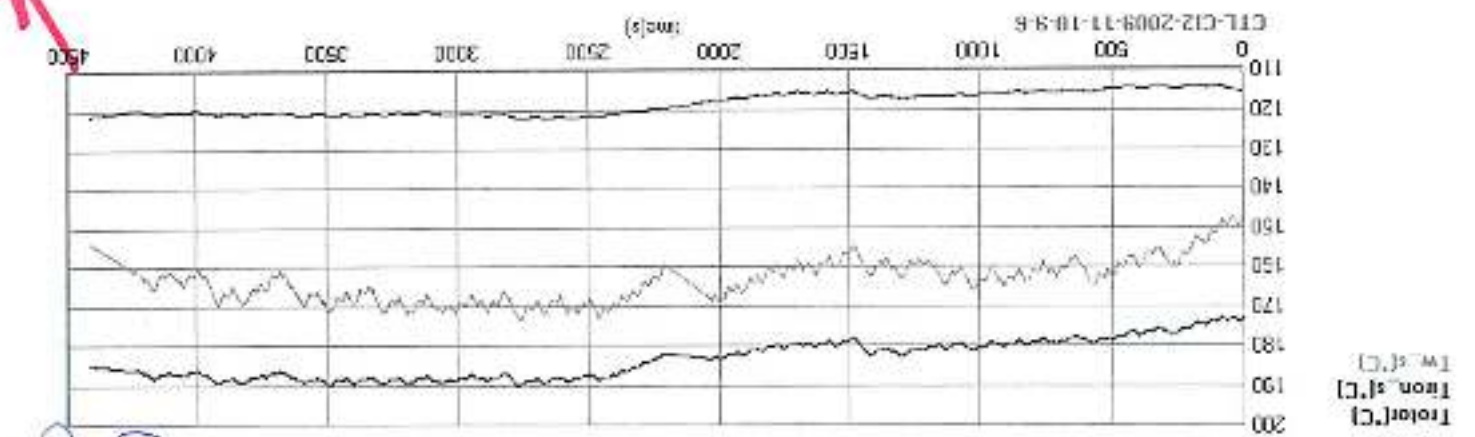
1 Cycle Traction motor temperature 4_LCA 2132_IndF



2 Cycle Traction motor temperature 4_LCA 2132_IndF



3 Cycle Traction motor temperature 4_LCA 2132_IndF

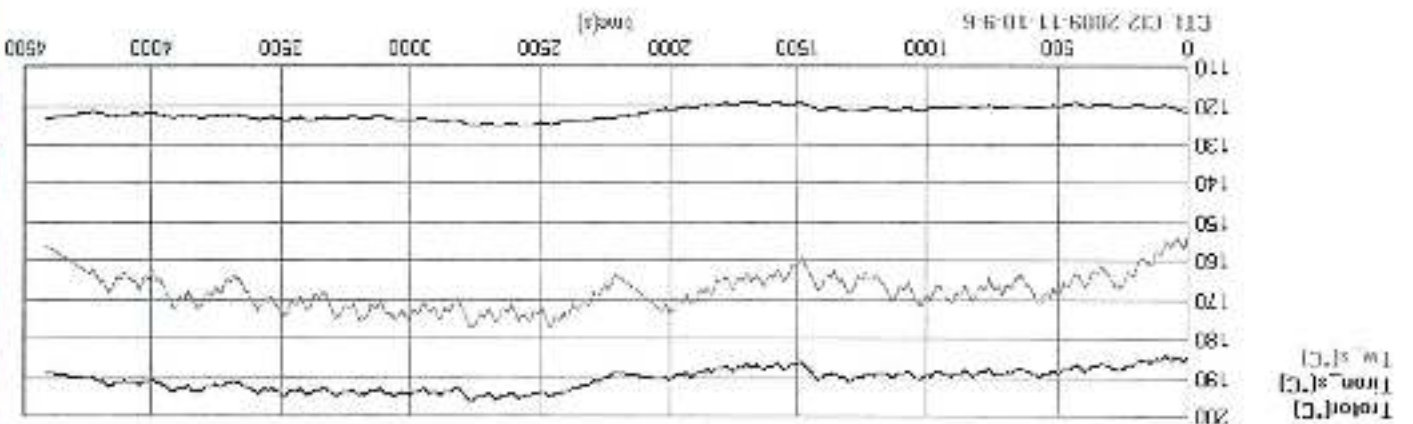


3471

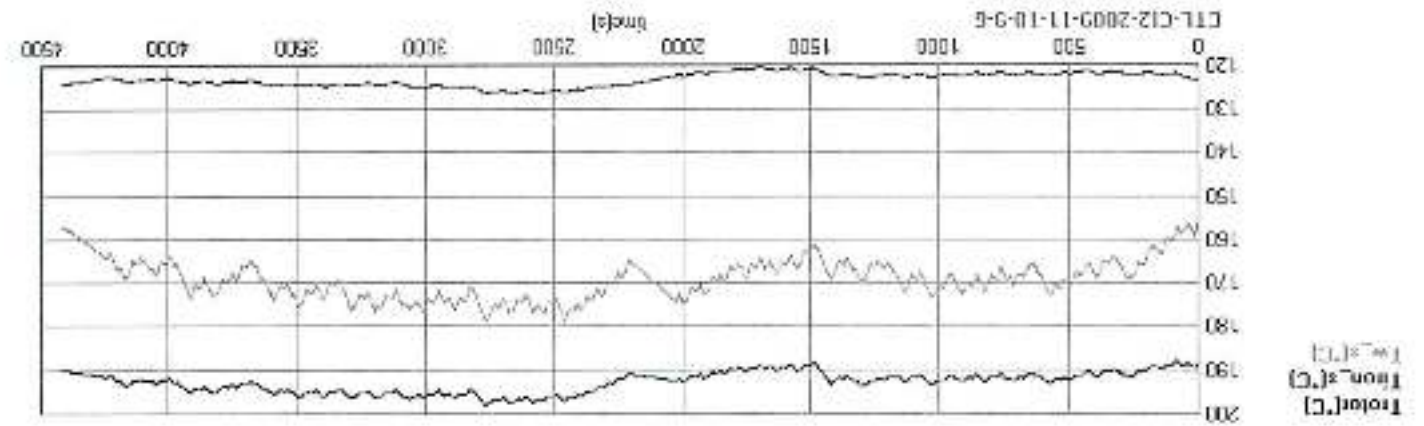
AO

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4Cycle Traction motor temperature 4 LCA 2132_IndF



5Cycle Traction motor temperature 4 LCA 2132_IndF



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00012779

	AW3 8p/m ² All-out running	AW3 8p/m ² Coasting
Time [s]	4340	4424
Distance [m]	47941	47941
Commercial Speed [Km/h]	39.77	39.01
Total Stop Time [s]	972	972
Running Time [s]	3368	3452

Coasting 2.55%				
AW3 8p/m ²				
time(s)	distance(m)	speed(km/h)	F_elec(kN)	gamma(m/s ²)
0	0	0	5.98724	0
1	0.568837	2.32811	228.435	0.560241
2	1.3653	4.94994	397.181	0.985034
3	3.18238	8.49394	397.181	0.984252
4	6.02278	12.0356	397.181	0.983565
5	9.86	15.5748	397.181	0.982883
6	14.6782	19.1115	397.181	0.982122
7	20.4771	22.6455	397.181	0.981334
8	27.2567	26.1766	397.183	0.980502
9	35.0164	29.7047	397.188	0.979636
10	43.757	33.213	392.671	0.968668
11	53.4633	36.6413	369.463	0.918273
12	64.0802	39.7463	330.317	0.816883
13	75.5159	42.5526	306.916	0.753175
14	87.7024	45.1595	286.613	0.699874
15	100.59	47.6056	272.308	0.66245
16	114.138	49.9221	255.743	0.627284
17	128.205	50.8895	0	-2.72E-02
18	142.327	50.7916	0	-2.72E-02
19	156.422	50.6939	0	-2.71E-02
20	170.49	50.5962	0	-2.71E-02
21	184.53	50.4649	0	-6.47E-02
22	198.515	50.2249	0	-6.83E-02
23	212.431	49.9572	0	-9.53E-02
24	226.259	49.5985	0	-0.103347
25	239.983	49.2112	0	-0.111279
26	253.596	48.8083	0	-0.100182
27	267.103	48.4394	0	-0.104429
28	280.506	48.0553	0	-0.108488
29	293.8	47.665	0	-0.108371
30	306.986	47.2751	0	-0.108241
31	320.064	46.8857	0	-0.108112
32	333.034	46.4967	0	-0.107984
33	345.896	46.1082	0	-0.107857
34	358.65	45.7202	0	-0.107731
35	371.296	45.3326	0	-0.107605

5 cycles	Trotor(°C)	Tiron_s(°C)	Tw_s(°C)
Max	198.1	126.3	178.7
time(s)	Trotor(°C)	Tiron_s(°C)	Tw_s(°C)
0	188.863	123.394	155.892
1	188.677	123.399	155.959
2	188.726	123.407	156.175
3	188.769	123.413	156.379
4	188.813	123.418	156.577
5	188.858	123.423	156.778
6	188.91	123.427	156.991
7	188.97	123.433	157.218
8	189.036	123.438	157.453
9	189.105	123.441	157.695
10	189.177	123.444	157.959
11	189.246	123.443	158.217
12	189.308	123.441	158.438
13	189.361	123.438	158.634
14	189.408	123.432	158.809
15	189.451	123.426	158.969
16	189.489	123.418	159.111
17	189.443	123.393	158.992
18	189.397	123.367	158.874
19	189.351	123.342	158.757
20	189.305	123.316	158.639
21	189.26	123.291	158.522
22	189.214	123.266	158.405
23	189.169	123.24	158.289
24	189.125	123.215	158.172
25	189.08	123.19	158.056
26	189.036	123.165	157.94
27	188.992	123.14	157.824
28	188.949	123.116	157.709
29	188.908	123.091	157.594
30	188.863	123.067	157.479
31	188.82	123.043	157.364
32	188.778	123.019	157.249
33	188.736	122.995	157.135
34	188.695	122.972	157.021
35	188.654	122.949	156.907

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls
00012730



36	383.835	44.9455	0	-0.10748
37	396.266	44.5588	0	-0.107356
38	408.589	44.1725	0	-0.107233
39	420.808	43.7867	0	-0.10711
40	432.917	43.4295	0	-8.73E-02
41	444.938	43.1215	0	-8.40E-02
42	456.875	42.8253	0	-8.08E-02
43	468.805	43.5098	286.542	0.577753
44	481.218	45.8418	282.622	0.636286
45	494.262	48.0739	269.569	0.606195
46	507.914	50.2037	257.287	0.577658
47	522.143	52.2321	247.154	0.551257
48	536.923	54.1879	237.484	0.526069
49	552.225	55.9815	229.233	0.48975
50	568.016	57.7055	222.04	0.469392
51	584.277	59.3576	215.148	0.449768
52	600.986	60.9432	209.631	0.433319
53	618.13	62.487	204.987	0.426711
54	635.899	64	200.435	0.414607
55	653.682	65.4704	196.185	0.403197
56	672.067	66.9026	192.402	0.393053
57	690.847	68.3073	188.691	0.389275
58	710.015	69.7063	184.996	0.388047
59	729.572	71.1012	181.288	0.386962
60	749.516	72.4954	177.576	0.392942
61	769.85	73.9119	173.805	0.393973
62	790.578	75.3324	170.023	0.395184
63	811.702	76.7577	166.231	0.396575
64	833.221	78.176	162.457	0.389487
65	855.13	79.5593	158.776	0.379532
66	877.327	79.9581	0	-2.10E-02
67	899.527	79.8826	0	-2.09E-02
68	921.706	79.8072	0	-2.09E-02
69	943.865	79.732	0	-2.09E-02
70	966.002	79.6569	0	-2.08E-02
71	988.119	79.582	0	-2.08E-02
72	1010.21	79.5071	0	-2.08E-02
73	1032.29	79.4324	0	-2.07E-02
74	1054.34	79.3578	0	-2.07E-02
75	1076.38	79.2834	0	-2.07E-02
76	1098.39	79.209	0	-2.06E-02
77	1120.38	79.119	0	-3.60E-02
78	1142.34	78.9851	0	-3.83E-02
79	1164.26	78.8432	0	-4.05E-02
80	1186.14	78.6958	0	-3.52E-02
81	1207.98	78.5692	0	-3.51E-02
82	1229.79	78.4429	0	-3.51E-02
83	1251.56	78.3169	0	-3.50E-02
84	1273.27	77.3264	-321.775	-1.09708
85	1294.2	73.3718	-340.092	-1.09977
86	1314.03	69.4077	-357.39	-1.10234
87	1332.76	65.4347	-368.619	-1.10477
88	1350.38	61.4532	-369.848	-1.10704
89	1368.9	57.4653	-369.849	-1.10242
90	1382.31	53.4983	-369.847	-1.10213

36	188.613	122.925	156.794
37	188.572	122.902	156.68
38	188.532	122.879	156.567
39	188.492	122.857	156.455
40	188.452	122.834	156.342
41	188.412	122.812	156.23
42	188.373	122.79	156.118
43	188.419	122.785	156.288
44	188.465	122.779	156.463
45	188.507	122.771	156.625
46	188.546	122.763	156.775
47	188.582	122.754	156.916
48	188.616	122.744	157.048
49	188.648	122.733	157.171
50	188.679	122.722	157.284
51	188.708	122.71	157.388
52	188.739	122.698	157.489
53	188.771	122.684	157.589
54	188.806	122.67	157.689
55	188.842	122.655	157.79
56	188.879	122.639	157.891
57	188.916	122.622	157.992
58	188.953	122.605	158.095
59	188.991	122.587	158.198
60	189.029	122.568	158.301
61	189.068	122.548	158.405
62	189.107	122.528	158.508
63	189.147	122.507	158.612
64	189.187	122.486	158.715
65	189.227	122.464	158.817
66	189.151	122.427	158.709
67	189.076	122.391	158.6
68	189.001	122.355	158.492
69	188.926	122.318	158.384
70	188.851	122.282	158.276
71	188.776	122.245	158.169
72	188.701	122.209	158.061
73	188.627	122.172	157.954
74	188.552	122.136	157.846
75	188.478	122.1	157.739
76	188.404	122.063	157.632
77	188.33	122.027	157.526
78	188.256	121.99	157.419
79	188.182	121.954	157.312
80	188.109	121.918	157.206
81	188.036	121.882	157.1
82	187.963	121.845	156.994
83	187.89	121.809	156.887
84	187.96	121.793	157.18
85	188.069	121.785	157.469
86	188.156	121.778	157.751
87	188.238	121.774	158.01
88	188.305	121.773	158.24
89	188.363	121.775	158.452
90	188.419	121.779	158.652

91	1395.62	49.5299	-369.844	-1.10247
92	1409.83	45.5604	-369.845	-1.10279
93	1421.93	41.5928	-369.846	-1.10154
94	1432.94	37.6296	-369.848	-1.10037
95	1442.84	33.6694	-369.851	-1.09999
96	1451.64	29.7095	-369.851	-1.1
97	1459.34	25.7495	-369.851	-1.09999
98	1465.95	21.7895	-369.852	-1.09999
99	1471.45	17.8296	-369.852	-1.09999
100	1475.85	13.8696	-369.852	-1.09999
101	1479.15	9.90963	-369.189	-1.09999
102	1481.31	5.94967	-71.2561	-1.09991
103	1482.31	2.84802	-0.69891	-0.96291
104	1482.89	0.46937	-0.11518	-0.710636
105	1483	0	0	0
106	1483	0	0	0
107	1483	0	0	0
108	1483	0	0	0
109	1483	0	0	0
110	1483	0	0	0
111	1483	0	0	0
112	1483	0	0	0
113	1483	0	0	0
114	1483	0	0	0
115	1483	0	0	0
116	1483	0	0	0
117	1483	0	0	0
118	1483	0	0	0
119	1483	0	0	0
120	1483	0	0	0
121	1483	0	0	0
122	1483.45	1.83933	397.162	0.446142
123	1484.04	4.16666	397.162	0.96521
124	1485.71	7.71292	397.161	0.984413
125	1488.33	11.2551	397.161	0.983716
126	1491.64	14.7949	397.161	0.983021
127	1496.54	18.3322	397.161	0.982289
128	1502.12	21.8668	397.161	0.981512
129	1508.69	25.3966	397.161	0.980687
130	1516.23	28.9273	397.19	0.979831
131	1524.76	32.4437	393.753	0.97164
132	1534.26	36.9025	378.778	0.937526
133	1544.67	39.0496	339.101	0.82243
134	1555.91	41.8292	312.641	0.737709
135	1567.89	44.3663	292.64	0.671937
136	1580.53	46.6646	277.811	0.617708
137	1593.8	48.7956	265.349	0.569656
138	1607.63	50.7591	254.513	0.525232
139	1621.96	52.565	245.491	0.477383
140	1636.81	54.2076	237.286	0.437696
141	1652.08	55.7096	230.367	0.396522
142	1667.5	53.8325	-361.652	-1.16782
143	1682.01	51.1691	-42.1082	-0.366472
144	1696.13	50.5009	0	-0.197681
145	1710.06	49.79	0	-0.197337

91	188.469	121.784	158.832	158.832
92	188.518	121.792	159.002	159.002
93	188.569	121.802	159.172	159.172
94	188.619	121.815	159.342	159.342
95	188.669	121.829	159.513	159.513
96	188.729	121.84	159.696	159.696
97	188.787	121.851	159.881	159.881
98	188.833	121.861	160.045	160.045
99	188.873	121.87	160.202	160.202
100	188.912	121.88	160.356	160.356
101	188.942	121.889	160.482	160.482
102	188.944	121.9	160.492	160.492
103	188.94	121.91	160.47	160.47
104	188.936	121.916	160.449	160.449
105	188.927	121.926	160.405	160.405
106	188.918	121.936	160.361	160.361
107	188.909	121.945	160.318	160.318
108	188.901	121.954	160.274	160.274
109	188.892	121.964	160.231	160.231
110	188.883	121.973	160.188	160.188
111	188.874	121.983	160.144	160.144
112	188.866	121.992	160.101	160.101
113	188.857	122.001	160.058	160.058
114	188.848	122.011	160.015	160.015
115	188.839	122.02	159.972	159.972
116	188.831	122.029	159.929	159.929
117	188.822	122.039	159.886	159.886
118	188.813	122.048	159.843	159.843
119	188.804	122.057	159.8	159.8
120	188.796	122.067	159.757	159.757
121	188.787	122.076	159.714	159.714
122	188.834	122.084	159.914	159.914
123	188.882	122.095	160.116	160.116
124	188.827	122.106	160.31	160.31
125	188.97	122.116	160.499	160.499
126	189.014	122.124	160.681	160.681
127	189.063	122.134	160.877	160.877
128	189.121	122.144	161.085	161.085
129	189.186	122.155	161.306	161.306
130	189.254	122.163	161.532	161.532
131	189.324	122.171	161.76	161.76
132	189.395	122.177	162.028	162.028
133	189.468	122.18	162.242	162.242
134	189.512	122.183	162.43	162.43
135	189.56	122.183	162.597	162.597
136	189.604	122.183	162.748	162.748
137	189.644	122.181	162.887	162.887
138	189.681	122.179	163.015	163.015
139	189.716	122.176	163.136	163.136
140	189.749	122.172	163.249	163.249
141	189.78	122.168	163.354	163.354
142	189.832	122.175	163.533	163.533
143	189.829	122.183	163.475	163.475
144	189.783	122.164	163.338	163.338
145	189.736	122.145	163.202	163.202

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012732

146	1723.79	49.0741	0	-0.203324
147	1737.32	48.338	0	-0.205483
148	1750.65	47.5939	0	-0.207741
149	1763.76	46.8121	0	-0.228605
150	1776.68	46.4988	214.545	0.248941
151	1789.8	48.0399	289.768	0.446748
152	1803.36	49.5954	260.671	0.419591
153	1817.34	50.8907	0	5.04E-02
154	1831.35	50.0267	0	-0.226979
155	1845.14	49.2101	0	-0.2267
156	1858.69	48.3945	0	-0.226424
157	1872.02	47.5799	0	-0.226151
158	1885.13	46.7663	0	-0.225882
159	1898.05	46.6812	247.261	0.335131
160	1911.23	48.2842	268.339	0.45128
161	1924.87	49.8623	259.11	0.42735
162	1938.9	50.8593	0	-0.204746
163	1952.92	50.0417	0	-0.226984
164	1966.71	49.2251	0	-0.226705
165	1980.27	48.4095	0	-0.226429
166	1993.6	47.5949	0	-0.226156
167	2006.71	46.7813	0	-0.225887
168	2019.63	46.614	236.993	0.309227
169	2032.8	48.221	268.709	0.45224
170	2046.41	49.8024	259.46	0.428259
171	2060.44	50.8864	0	-7.51E-02
172	2074.46	50.1127	0	-0.208822
173	2088.28	49.371	0	-0.20419
174	2101.89	48.6389	0	-0.207344
175	2115.3	47.8996	0	-0.202114
176	2128.5	47.1823	0	-0.196892
177	2141.55	47.1004	232.579	0.329753
178	2154.87	48.8121	265.252	0.488605
179	2168.67	50.5577	255.519	0.481483
180	2182.95	52.2854	246.888	0.477767
181	2197.71	53.9963	238.341	0.473139
182	2212.95	55.6928	230.437	0.470466
183	2228.65	57.3868	223.37	0.470697
184	2244.83	59.0826	216.295	0.471374
185	2261.48	60.7827	210.114	0.474224
186	2278.6	62.5016	204.943	0.480481
187	2296.2	64.2212	199.77	0.471674
188	2314.27	65.8944	195.065	0.459019
189	2332.8	67.5249	190.758	0.447465
190	2351.78	69.1144	186.559	0.436192
191	2371.2	70.6637	182.453	0.425164
192	2391.04	72.1738	178.432	0.414356
193	2411.29	73.6455	174.514	0.403814
194	2431.8	72.783	-342.821	-1.09818
195	2451.47	68.823	-359.043	-1.09999
196	2470.04	64.863	-369.848	-1.1
197	2487.51	60.9031	-369.848	-1.09999
198	2503.87	56.9431	-369.849	-1.09999
199	2519.14	52.9831	-369.847	-1.09999
200	2533.31	49.0232	-369.844	-1.09999

146	189.691	122.126	183.085
147	189.646	122.107	182.929
148	189.602	122.089	182.793
149	189.558	122.071	182.657
150	189.579	122.072	182.71
151	189.62	122.071	182.852
152	189.659	122.069	182.986
153	189.812	122.049	182.851
154	189.566	122.03	182.715
155	189.52	122.011	182.58
156	189.475	121.992	182.445
157	189.431	121.974	182.31
158	189.388	121.956	182.176
159	189.419	121.956	182.276
160	189.46	121.955	182.418
161	189.499	121.953	182.551
162	189.452	121.933	182.417
163	189.405	121.914	182.282
164	189.36	121.894	182.148
165	189.315	121.876	182.014
166	189.271	121.857	181.88
167	189.227	121.839	181.747
168	189.255	121.839	181.832
169	189.296	121.838	181.976
170	189.335	121.836	182.11
171	189.288	121.816	181.976
172	189.241	121.796	181.843
173	189.196	121.777	181.71
174	189.151	121.758	181.577
175	189.106	121.739	181.445
176	189.063	121.72	181.312
177	189.089	121.72	181.394
178	189.129	121.718	181.534
179	189.167	121.716	181.666
180	189.202	121.713	181.79
181	189.235	121.709	181.906
182	189.266	121.705	182.013
183	189.296	121.7	182.112
184	189.324	121.694	182.201
185	189.353	121.688	182.285
186	189.384	121.681	182.369
187	189.418	121.672	182.452
188	189.453	121.663	182.537
189	189.488	121.653	182.622
190	189.524	121.642	182.709
191	189.56	121.63	182.796
192	189.597	121.618	182.884
193	189.634	121.604	182.972
194	189.721	121.6	183.247
195	189.806	121.599	183.511
196	189.886	121.601	183.753
197	189.948	121.605	183.954
198	190.006	121.612	184.16
199	190.059	121.621	184.341
200	190.108	121.632	184.504

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012733

ALSTOM

201	2546.38	45.0632	-369.845	-1.1
202	2558.34	41.1032	-369.846	-1.09999
203	2569.21	37.1433	-369.849	-1.09999
204	2578.98	33.1833	-369.851	-1.09999
205	2587.65	29.2233	-369.851	-1.09999
206	2595.21	25.2634	-369.852	-1.1
207	2601.68	21.3034	-369.852	-1.09999
208	2607.05	17.3434	-369.852	-1.09999
209	2611.31	13.3835	-369.852	-1.09999
210	2614.47	9.42351	-327.35	-1.09999
211	2616.49	5.46382	-35.4222	-1.09989
212	2617.38	2.55602	-0.62725	-0.931929
213	2617.96	0.177387	-4.35E-02	-0.679555
214	2618	0	0	0
215	2618	0	0	0
216	2618	0	0	0
217	2618	0	0	0
218	2618	0	0	0
219	2618	0	0	0
220	2618	0	0	0
221	2618	0	0	0
222	2618	0	0	0
223	2618	0	0	0
224	2618	0	0	0
225	2618	0	0	0
226	2618	0	0	0
227	2618	0	0	0
228	2618	0	0	0
229	2618	0	0	0
230	2618	0	0	0
231	2618.52	2.12084	397.182	0.514374
232	2619.22	4.60372	397.182	0.985109
233	2620.96	8.14792	397.181	0.884321
234	2623.72	11.6898	397.181	0.983632
235	2627.46	15.2293	397.181	0.982933
236	2632.17	18.7662	397.181	0.982196
237	2637.88	22.3005	397.181	0.981413
238	2644.56	25.8319	397.182	0.980584
239	2652.23	29.3603	397.19	0.979723
240	2660.87	32.8724	393.15	0.969984
241	2670.48	36.3182	373.537	0.92884
242	2681.02	39.4589	333.941	0.826258
243	2692.38	42.2876	309.013	0.758603
244	2704.49	44.9132	288.249	0.704887
245	2717.31	47.383	273.61	0.671513
246	2730.8	49.7426	259.81	0.641828
247	2744.94	52.0054	248.287	0.617894
248	2759.69	54.1878	237.384	0.596195
249	2775.04	56.2973	227.915	0.578129
250	2790.96	58.3493	219.355	0.562928
251	2807.45	60.3484	211.42	0.549228
252	2824.48	62.3103	205.518	0.54127
253	2842.08	64.2445	199.7	0.533768
254	2860.17	66.1424	194.41	0.52078
255	2878.8	67.9922	189.523	0.507667

201	190.156	121.645	164.658
202	190.207	121.681	164.812
203	190.255	121.679	164.964
204	190.306	121.697	165.12
205	190.366	121.714	165.288
206	190.422	121.729	165.457
207	190.466	121.743	165.602
208	190.506	121.758	165.744
209	190.544	121.77	165.881
210	190.57	121.783	165.979
211	190.568	121.798	165.96
212	190.563	121.811	165.924
213	190.56	121.82	165.89
214	190.551	121.831	165.84
215	190.542	121.842	165.79
216	190.533	121.853	165.741
217	190.524	121.864	165.691
218	190.515	121.875	165.641
219	190.506	121.886	165.592
220	190.497	121.896	165.542
221	190.488	121.907	165.493
222	190.479	121.918	165.443
223	190.47	121.929	165.394
224	190.461	121.94	165.345
225	190.452	121.951	165.295
226	190.443	121.961	165.246
227	190.434	121.972	165.197
228	190.425	121.983	165.148
229	190.416	121.994	165.099
230	190.407	122.004	165.051
231	190.454	122.016	165.241
232	190.502	122.031	165.433
233	190.547	122.045	165.613
234	190.59	122.058	165.785
235	190.633	122.071	165.959
236	190.684	122.084	166.143
237	190.742	122.098	166.34
238	190.807	122.113	166.547
239	190.874	122.126	166.76
240	190.945	122.138	166.992
241	191.014	122.148	167.226
242	191.075	122.156	167.422
243	191.127	122.162	167.592
244	191.173	122.167	167.74
245	191.214	122.17	167.873
246	191.252	122.173	167.992
247	191.287	122.174	168.101
248	191.318	122.175	168.201
249	191.348	122.175	168.289
250	191.376	122.174	168.368
251	191.403	122.172	168.435
252	191.432	122.169	168.503
253	191.465	122.165	168.572
254	191.499	122.16	168.641
255	191.533	122.153	168.712

256	2897.94	69.7955	184.76	0.494872
257	2917.57	71.5532	180.085	0.48231
258	2937.69	73.2663	175.624	0.470041
259	2958.27	74.9358	171.079	0.458074
260	2979.31	76.3518	33.7307	0.157883
261	3000.52	76.3675	-2.12059	0
262	3021.73	76.3675	-1.13264	0
263	3042.95	76.3661	0	-2.77E-03
264	3064.15	76.3213	0	-2.13E-02
265	3085.34	76.2098	0	-3.97E-02
266	3106.49	76.032	0	-6.81E-02
267	3127.55	75.0983	-314.459	-0.830543
268	3147.88	71.1582	-350.349	-1.16702
269	3167.07	66.9608	-364.306	-1.17378
270	3185.08	62.7405	-369.848	-1.16647
271	3201.93	58.5451	-369.849	-1.16445
272	3217.61	54.3564	-369.848	-1.16267
273	3232.22	51.3463	-128.176	-0.46722
274	3246.38	50.7685	0	-8.83E-02
275	3260.44	50.4572	0	-8.60E-02
276	3274.41	50.148	0	-8.59E-02
277	3288.3	49.8381	0	-8.57E-02
278	3302.1	49.5306	0	-8.56E-02
279	3315.81	49.1647	0	-0.123976
280	3329.4	48.7117	0	-0.127411
281	3342.87	48.2465	0	-0.130808
282	3356.21	47.7691	0	-0.134168
283	3369.41	47.2798	0	-0.13749
284	3382.47	46.7912	0	-0.121675
285	3395.41	46.3535	0	-0.121531
286	3408.22	45.9162	0	-0.121388
287	3420.92	45.6182	123.432	0.126436
288	3433.78	47.2393	274.445	0.571765
289	3447.19	49.2387	262.757	0.54143
290	3461.11	50.8706	94.5382	0.176995
291	3475.21	50.528	0	-0.122936
292	3489.18	50.0857	0	-0.122784
293	3503.04	49.644	0	-0.122632
294	3516.76	49.2028	0	-0.122482
295	3530.37	48.7621	0	-0.122332
296	3543.85	48.322	0	-0.122184
297	3557.22	47.8824	0	-0.122037
298	3570.46	47.4434	0	-0.12189
299	3583.57	47.0049	0	-0.121745
300	3596.57	46.5669	0	-0.121601
301	3609.44	46.1384	0	-0.117422
302	3622.2	45.7126	0	-0.134389
303	3634.9	45.1048	272.705	0.489764
304	3647.98	48.1028	269.4	0.545643
305	3661.61	50.0105	258.276	0.516602
306	3675.68	50.818	0	-0.137395
307	3689.73	50.3165	0	-0.140929
308	3703.84	49.8685	0	-0.122709
309	3717.43	49.4271	0	-0.122556
310	3731.1	48.9861	0	-0.122408

256	191.588	122.146	168.784
257	191.603	122.138	168.858
258	191.639	122.129	168.932
259	191.675	122.119	169.007
260	191.671	122.11	168.901
261	191.607	122.087	168.764
262	191.538	122.063	168.625
263	191.464	122.037	168.483
264	191.39	122.011	168.341
265	191.316	121.985	168.199
266	191.242	121.959	168.058
267	191.32	121.957	168.284
268	191.405	121.858	168.546
269	191.487	121.962	168.788
270	191.566	121.969	169.002
271	191.614	121.978	169.19
272	191.669	121.99	169.367
273	191.67	122.004	169.314
274	191.621	121.99	169.158
275	191.573	121.975	169.001
276	191.525	121.962	168.845
277	191.478	121.948	168.689
278	191.431	121.934	168.534
279	191.384	121.92	168.38
280	191.336	121.907	168.225
281	191.292	121.893	168.071
282	191.246	121.88	167.917
283	191.201	121.866	167.764
284	191.156	121.853	167.61
285	191.112	121.84	167.458
286	191.068	121.827	167.306
287	191.087	121.833	167.254
288	191.109	121.837	167.388
289	191.147	121.84	167.511
290	191.14	121.844	167.439
291	191.092	121.829	167.288
292	191.045	121.814	167.137
293	190.997	121.799	166.987
294	190.961	121.784	166.836
295	190.905	121.769	166.687
296	190.869	121.756	166.537
297	190.813	121.74	166.389
298	190.768	121.726	166.239
299	190.724	121.712	166.091
300	190.679	121.698	165.943
301	190.635	121.684	165.795
302	190.592	121.67	165.648
303	190.632	121.673	165.777
304	190.672	121.676	165.91
305	190.709	121.678	166.031
306	190.661	121.662	165.884
307	190.614	121.646	165.736
308	190.567	121.63	165.591
309	190.52	121.614	165.445
310	190.474	121.598	165.3

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012735

311	3744.65	48.5458	0	-0.122259
312	3758.07	48.1059	0	-0.122112
313	3771.37	47.6668	0	-0.121966
314	3784.65	47.2278	0	-0.121819
315	3797.61	46.7895	0	-0.121674
316	3810.65	46.3518	0	-0.12153
317	3823.36	45.9146	0	-0.121387
318	3836.06	45.8262	128.854	0.135062
319	3848.92	47.2644	274.303	0.571384
320	3862.33	49.2624	262.619	0.54107
321	3876.27	50.8791	87.2244	0.168201
322	3890.36	50.5231	0	-0.122934
323	3904.34	50.0808	0	-0.122782
324	3918.19	49.6449	0	-0.10401
325	3931.93	49.2872	0	-9.49E-02
326	3945.67	48.9637	0	-8.55E-02
327	3959.13	48.6741	0	-7.61E-02
328	3972.62	48.4182	0	-6.68E-02
329	3986.03	48.1959	24.2425	-5.55E-02
330	3999.63	49.3966	261.833	0.610023
331	4013.55	51.5448	250.588	0.58635
332	4028.16	53.6155	240.244	0.565572
333	4043.33	55.6142	230.765	0.546973
334	4058.63	52.878	-369.847	-1.1003
335	4072.67	48.918	-369.844	-1.09999
336	4085.71	44.958	-369.845	-1.1
337	4097.65	40.9981	-369.846	-1.09999
338	4108.48	37.0381	-369.849	-1.09999
339	4118.22	33.0781	-369.851	-1.09999
340	4128.86	29.1182	-369.851	-1.09999
341	4134.4	25.1582	-369.852	-1.1
342	4140.84	21.1983	-369.852	-1.09999
343	4146.17	17.2383	-369.852	-1.09999
344	4150.41	13.2783	-369.852	-1.09999
345	4153.53	9.31838	-319.598	-1.09999
346	4155.53	5.35869	-27.6713	-1.09988
347	4156.4	2.49288	-0.61175	-0.925228
348	4156.97	0.114207	-2.80E-02	-0.672853
349	4157	0	0	0
350	4157	0	0	0
351	4157	0	0	0
352	4157	0	0	0
353	4157	0	0	0
354	4157	0	0	0
355	4157	0	0	0
356	4157	0	0	0
357	4157	0	0	0
358	4157	0	0	0
359	4157	0	0	0
360	4157	0	0	0
361	4157	0	0	0
362	4157	0	0	0
363	4157	0	0	0
364	4157	0	0	0
365	4157	0	0	0

311	190.428	121.583	165.154
312	190.382	121.568	165.009
313	190.337	121.552	164.864
314	190.293	121.537	164.72
315	190.248	121.522	164.576
316	190.204	121.507	164.432
317	190.161	121.493	164.289
318	190.161	121.497	164.249
319	190.203	121.499	164.39
320	190.241	121.5	164.519
321	190.234	121.502	164.452
322	190.186	121.485	164.309
323	190.139	121.468	164.167
324	190.092	121.452	164.025
325	190.046	121.435	163.884
326	190	121.419	163.743
327	189.954	121.402	163.602
328	189.909	121.386	163.461
329	189.897	121.388	163.378
330	189.936	121.389	163.509
331	189.971	121.389	163.63
332	190.004	121.388	163.741
333	190.035	121.386	163.843
334	190.088	121.395	164.025
335	190.137	121.407	164.188
336	190.184	121.42	164.341
337	190.235	121.436	164.495
338	190.283	121.454	164.648
339	190.334	121.473	164.804
340	190.393	121.489	164.971
341	190.45	121.505	165.141
342	190.493	121.519	165.285
343	190.533	121.532	165.428
344	190.571	121.546	165.564
345	190.596	121.559	165.699
346	190.594	121.574	165.837
347	190.589	121.587	165.962
348	190.585	121.596	165.988
349	190.576	121.607	165.918
350	190.567	121.618	165.848
351	190.558	121.629	165.779
352	190.549	121.64	165.709
353	190.54	121.651	165.64
354	190.531	121.662	165.571
355	190.522	121.673	165.502
356	190.513	121.683	165.433
357	190.504	121.694	165.364
358	190.495	121.705	165.295
359	190.486	121.716	165.226
360	190.477	121.727	165.157
361	190.468	121.738	165.088
362	190.459	121.748	165.019
363	190.45	121.759	164.95
364	190.441	121.77	164.881
365	190.432	121.781	164.812

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012736

366	4157.54	2.18148	397.182	0.529133
367	4158.26	4.69784	397.182	0.985087
368	4160.02	8.24201	397.181	0.984301
369	4162.8	11.7838	397.181	0.983614
370	4166.57	15.3232	397.181	0.982914
371	4171.31	18.8601	397.181	0.982176
372	4177.04	22.3943	397.181	0.981392
373	4183.75	25.9258	397.183	0.980561
374	4191.44	29.4539	397.191	0.9797
375	4200.11	32.9651	393.02	0.989826
376	4209.75	36.4069	372.423	0.925951
377	4220.31	39.5371	332.956	0.823707
378	4231.69	42.3599	308.441	0.757123
379	4243.82	44.9804	287.729	0.703471
380	4256.66	47.4389	273.293	0.666889
381	4270.17	49.7758	259.616	0.634045
382	4284.3	52.0046	248.291	0.60696
383	4299.05	54.1415	237.616	0.582023
384	4314.37	56.1933	228.349	0.560511
385	4330.26	58.1754	220.08	0.541936
386	4346.69	60.0846	212.213	0.514195
387	4363.63	61.9114	206.718	0.501599
388	4381.08	63.6941	201.356	0.489501
389	4399.01	65.431	196.289	0.475769
390	4417.43	67.1229	191.82	0.46767
391	4436.3	68.7841	187.432	0.45589
392	4455.63	70.4034	183.146	0.44438
393	4475.41	71.9818	178.944	0.433085
394	4495.62	73.52	174.848	0.422067
395	4516.25	75.0191	170.857	0.411321
396	4537.29	76.48	166.97	0.400846
397	4558.74	77.9038	163.181	0.390629
398	4580.57	79.1216	32.3895	0.108097
399	4602.54	79.0634	0	-2.14E-02
400	4624.49	78.9865	0	-2.13E-02
401	4646.42	78.911	0	-1.63E-02
402	4668.33	78.8554	0	-1.47E-02
403	4690.23	78.8013	0	-2.11E-02
404	4712.1	78.667	0	-5.21E-02
405	4733.92	78.4193	0	-8.42E-02
406	4755.66	78.0555	0	-0.116404
407	4777.28	77.5762	0	-0.148367
408	4798.74	76.9823	0	-0.180056
409	4820.03	76.2749	0	-0.211426
410	4841.11	75.4908	0	-0.218286
411	4861.97	74.7056	0	-0.217932
412	4882.62	73.9217	0	-0.217581
413	4903.04	73.1391	0	-0.217233
414	4923.25	72.3577	0	-0.216889
415	4943.24	71.5776	0	-0.216548
416	4963.01	70.7986	0	-0.21621
417	4982.57	70.0209	0	-0.215875
418	5001.91	69.2444	0	-0.215543
419	5021.04	68.4763	0	-0.202372
420	5039.97	67.8228	0	-0.159889

366	190.479	121.793	164.92
367	190.527	121.808	165.112
368	190.571	121.821	165.292
369	190.614	121.834	165.465
370	190.658	121.847	165.638
371	190.708	121.861	165.823
372	190.767	121.875	166.02
373	190.832	121.89	166.227
374	190.899	121.903	166.44
375	190.97	121.915	166.674
376	191.038	121.925	166.906
377	191.099	121.933	167.101
378	191.151	121.94	167.271
379	191.196	121.945	167.418
380	191.238	121.949	167.551
381	191.275	121.951	167.671
382	191.309	121.953	167.78
383	191.341	121.954	167.88
384	191.371	121.954	167.969
385	191.398	121.954	168.047
386	191.425	121.952	168.116
387	191.454	121.95	168.184
388	191.485	121.947	168.253
389	191.519	121.942	168.322
390	191.553	121.937	168.392
391	191.587	121.931	168.463
392	191.621	121.923	168.536
393	191.657	121.915	168.61
394	191.692	121.907	168.684
395	191.728	121.897	168.759
396	191.764	121.887	168.834
397	191.8	121.876	168.908
398	191.797	121.866	168.804
399	191.719	121.84	168.663
400	191.641	121.814	168.522
401	191.564	121.788	168.382
402	191.486	121.762	168.242
403	191.409	121.736	168.102
404	191.332	121.71	167.963
405	191.255	121.684	167.823
406	191.179	121.657	167.684
407	191.103	121.631	167.544
408	191.028	121.606	167.405
409	190.954	121.58	167.265
410	190.881	121.554	167.124
411	190.809	121.529	166.984
412	190.738	121.504	166.843
413	190.668	121.479	166.702
414	190.599	121.455	166.561
415	190.53	121.43	166.42
416	190.463	121.406	166.279
417	190.396	121.382	166.138
418	190.331	121.359	165.997
419	190.266	121.335	165.855
420	190.202	121.312	165.714

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012737

421	5058.74	67.3384	0	-0.111917
422	5077.41	67.2996	150.639	0.274746
423	5098.3	68.8222	187.331	0.4586
424	5115.66	70.5447	182.77	0.498521
425	5135.51	72.404	177.82	0.53467
426	5155.89	74.4013	172.502	0.573202
427	5176.85	76.4489	167.053	0.562811
428	5198.36	78.4495	156.564	0.549394
429	5220.3	79.1353	-56.4267	0
430	5242.28	79.1353	-56.5842	0
431	5264.27	79.1353	-56.5842	0
432	5286.25	79.1353	-56.5842	0
433	5308.23	79.1353	-56.5842	0
434	5330.21	79.1353	-48.2928	0
435	5352.19	79.1353	-36.9944	0
436	5374.17	79.0021	-163.31	-0.310038
437	5396.82	76.4052	-326.041	-1.0233
438	5416.53	72.6703	-343.343	-1.0501
439	5438.18	68.8414	-358.991	-1.07555
440	5454.76	64.9234	-369.848	-1.0996
441	5472.26	60.9634	-369.848	-1.09999
442	5488.63	57.0034	-369.849	-1.09999
443	5503.92	53.0435	-369.847	-1.09999
444	5518.1	49.0835	-369.844	-1.09999
445	5531.19	45.1235	-369.845	-1.1
446	5543.17	41.1636	-369.846	-1.09999
447	5554.06	37.2036	-369.849	-1.09999
448	5563.84	33.2436	-369.851	-1.09999
449	5572.52	29.2837	-369.851	-1.09999
450	5580.11	25.3237	-369.852	-1.1
451	5586.59	21.3637	-369.852	-1.09999
452	5591.98	17.4038	-369.852	-1.09999
453	5596.25	13.4438	-369.852	-1.09999
454	5599.43	9.48384	-331.798	-1.09999
455	5601.47	5.52414	-39.8694	-1.09989
456	5602.37	2.59226	-0.63614	-0.935774
457	5602.95	0.213606	-5.24E-02	-0.6834
458	5603	0	0	0
459	5603	0	0	0
460	5603	0	0	0
461	5603	0	0	0
462	5603	0	0	0
463	5603	0	0	0
464	5603	0	0	0
465	5603	0	0	0
466	5603	0	0	0
467	5603	0	0	0
468	5603	0	0	0
469	5603	0	0	0
470	5603	0	0	0
471	5603	0	0	0
472	5603	0	0	0
473	5603	0	0	0
474	5603	0	0	0
475	5603.51	2.08573	397.182	0.505906

421	190.138	121.289	165.573
422	190.156	121.283	165.575
423	190.19	121.276	165.652
424	190.226	121.267	165.731
425	190.261	121.258	165.81
426	190.298	121.248	165.89
427	190.335	121.236	165.97
428	190.369	121.224	166.037
429	190.376	121.221	166.954
430	190.382	121.218	165.871
431	190.388	121.214	165.788
432	190.395	121.211	165.705
433	190.401	121.208	165.623
434	190.407	121.205	165.538
435	190.412	121.201	165.45
436	190.437	121.198	165.447
437	190.524	121.194	165.719
438	190.61	121.193	165.986
439	190.694	121.196	166.243
440	190.773	121.201	166.478
441	190.835	121.209	166.88
442	190.891	121.22	166.858
443	190.944	121.232	167.042
444	190.992	121.246	167.196
445	191.039	121.262	167.341
446	191.089	121.281	167.487
447	191.137	121.301	167.63
448	191.187	121.323	167.777
449	191.246	121.342	167.935
450	191.302	121.36	168.096
451	191.346	121.377	168.233
452	191.386	121.393	168.387
453	191.423	121.409	168.496
454	191.45	121.424	168.589
455	191.448	121.441	168.583
456	191.443	121.456	168.52
457	191.44	121.466	168.48
458	191.43	121.478	168.426
459	191.421	121.49	168.373
460	191.412	121.502	168.32
461	191.403	121.514	168.267
462	191.394	121.525	168.214
463	191.385	121.537	168.161
464	191.376	121.549	168.108
465	191.367	121.561	168.056
466	191.357	121.572	168.003
467	191.348	121.584	167.95
468	191.339	121.596	167.898
469	191.33	121.607	167.845
470	191.321	121.619	167.793
471	191.312	121.63	167.74
472	191.303	121.642	167.688
473	191.294	121.653	167.635
474	191.285	121.665	167.584
475	191.332	121.679	167.769

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012738

476	5604.2	4.54971	397.182	0.985122
477	5605.93	8.09394	397.181	0.984332
478	5608.67	11.6358	397.181	0.983643
479	5612.39	15.1754	397.181	0.982944
480	5617.09	18.7124	397.181	0.982208
481	5622.78	22.2467	397.181	0.981425
482	5629.45	25.7781	397.182	0.980596
483	5637.1	29.3065	397.19	0.979737
484	5645.73	32.8192	393.225	0.970189
485	5655.33	36.2678	374.175	0.930495
486	5665.85	39.4096	334.562	0.82544
487	5677.19	42.2287	309.479	0.754439
488	5689.29	44.834	288.86	0.697949
489	5702.08	47.2617	274.319	0.65584
490	5715.53	49.5485	260.945	0.617633
491	5729.6	51.7083	249.781	0.584585
492	5744.25	53.7521	239.561	0.554181
493	5759.45	55.6916	230.442	0.526154
494	5775.18	57.5392	222.734	0.501882
495	5791.41	59.3009	215.385	0.478409
496	5808.12	60.9885	209.501	0.461242
497	5825.29	62.6219	204.581	0.448186
498	5842.9	64.2111	199.8	0.435451
499	5860.96	65.7557	195.431	0.423705
500	5879.43	67.2607	191.456	0.413043
501	5898.32	68.7279	187.58	0.40284
502	5917.53	69.2274	0	-7.05E-02
503	5936.73	68.9736	0	-7.04E-02
504	5955.85	68.7203	0	-7.03E-02
505	5974.91	68.4673	0	-7.02E-02
506	5993.99	68.2147	0	-7.01E-02
507	6012.8	67.9625	0	-7.00E-02
508	6031.65	67.7107	0	-6.99E-02
509	6050.42	67.4592	0	-6.98E-02
510	6069.12	67.2082	0	-6.97E-02
511	6087.76	66.9575	0	-6.96E-02
512	6106.32	66.7072	0	-6.95E-02
513	6124.82	66.4573	0	-6.92E-02
514	6143.24	66.2174	0	-6.43E-02
515	6161.61	65.9951	0	-5.95E-02
516	6179.9	65.2929	-369.02	-1.12179
517	6197.48	61.2632	-369.848	-1.11723
518	6213.94	57.2494	-369.849	-1.11297
519	6229.28	53.2504	-369.847	-1.10899
520	6243.52	49.2652	-369.844	-1.10531
521	6256.85	45.2927	-369.845	-1.10192
522	6268.69	41.331	-369.846	-1.09999
523	6279.62	37.371	-369.849	-1.09999
524	6289.45	33.411	-369.851	-1.09999
525	6298.18	29.4511	-369.851	-1.09999
526	6305.81	25.4911	-369.851	-1.09999
527	6312.34	21.5311	-369.852	-1.09999
528	6317.77	17.5712	-369.852	-1.09999
529	6322.1	13.6112	-369.852	-1.09999
530	6325.32	9.65123	-344.139	-1.09999

476	191.379	121.696	167.954
477	191.424	121.711	168.128
478	191.468	121.727	168.295
479	191.51	121.742	168.46
480	191.56	121.757	168.637
481	191.617	121.774	168.826
482	191.682	121.791	169.025
483	191.749	121.807	169.23
484	191.819	121.822	169.454
485	191.888	121.834	169.681
486	191.948	121.845	169.87
487	192	121.854	170.033
488	192.045	121.862	170.174
489	192.086	121.868	170.3
490	192.124	121.873	170.413
491	192.158	121.878	170.516
492	192.19	121.881	170.609
493	192.219	121.884	170.693
494	192.247	121.886	170.767
495	192.273	121.888	170.832
496	192.3	121.889	170.893
497	192.329	121.888	170.953
498	192.36	121.887	171.014
499	192.393	121.885	171.076
500	192.426	121.883	171.138
501	192.46	121.879	171.202
502	192.393	121.859	171.047
503	192.326	121.839	170.891
504	192.259	121.819	170.736
505	192.193	121.799	170.581
506	192.127	121.778	170.427
507	192.061	121.758	170.273
508	191.996	121.738	170.119
509	191.931	121.718	169.965
510	191.866	121.698	169.812
511	191.802	121.678	169.659
512	191.737	121.658	169.506
513	191.673	121.638	169.354
514	191.61	121.618	169.202
515	191.546	121.598	169.05
516	191.626	121.605	169.282
517	191.689	121.614	169.481
518	191.745	121.626	169.684
519	191.798	121.639	169.832
520	191.846	121.655	169.981
521	191.893	121.672	170.12
522	191.943	121.692	170.259
523	191.991	121.714	170.395
524	192.04	121.738	170.535
525	192.099	121.758	170.681
526	192.155	121.778	170.841
527	192.199	121.798	170.973
528	192.239	121.814	171.101
529	192.277	121.831	171.226
530	192.304	121.848	171.318

3482

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00912730

531	6327.41	5.69151	-52.2088	-1.0999
532	6328.35	2.69281	-0.66082	-0.946442
533	6328.92	0.314156	-7.71E-02	-0.694068
534	6329	0	0	0
535	6329	0	0	0
536	6329	0	0	0
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538	6329	0	0	0
539	6329	0	0	0
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541	6329	0	0	0
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546	6329	0	0	0
547	6329	0	0	0
548	6329	0	0	0
549	6329	0	0	0
550	6329	0	0	0
551	6329.49	1.98886	397.182	0.482411
552	6330.14	4.39987	397.182	0.985156
553	6331.84	7.94415	397.181	0.984364
554	6334.54	11.4861	397.181	0.983672
555	6338.21	15.0258	397.181	0.982974
556	6342.87	18.5629	397.181	0.98224
557	6348.52	22.0973	397.181	0.981459
558	6355.15	26.6289	397.182	0.980632
559	6362.76	29.1574	397.19	0.979774
560	6371.35	32.6717	393.433	0.970759
561	6380.9	36.1266	375.953	0.93511
562	6391.39	39.2877	336.098	0.831841
563	6402.7	42.1085	310.43	0.732142
564	6414.75	44.6377	290.413	0.677807
565	6427.48	46.9932	275.889	0.636427
566	6440.85	49.2134	262.905	0.599897
567	6454.81	51.3085	251.768	0.56765
568	6469.34	53.2961	241.839	0.538714
569	6484.42	55.2364	232.341	0.528195
570	6500.01	56.8941	69.947	0.208878
571	6515.8	56.7238	0	-5.52E-02
572	6531.53	56.5643	0	-3.47E-02
573	6547.23	56.4782	0	-1.44E-02
574	6562.92	56.4653	0	5.92E-03
575	6578.81	56.5255	0	2.62E-02
576	6594.33	56.6925	0	6.32E-02
577	6610.11	56.921	-35.0938	0
578	6625.92	56.921	-44.5458	0
579	6641.73	56.921	-53.9881	0
580	6657.55	56.9917	0	0.151806
581	6673.45	57.5379	0	0.151634
582	6689.2	55.2032	-340.676	-0.757843
583	6704.3	54	-60.7192	0
584	6719.3	54	-60.7192	0
585	6734.3	54	-54.4652	0

531	192.304	121.866	171.292
532	192.299	121.882	171.243
533	192.295	121.894	171.197
534	192.286	121.906	171.141
535	192.277	121.918	171.088
536	192.268	121.931	171.03
537	192.258	121.943	170.974
538	192.249	121.955	170.919
539	192.24	121.968	170.863
540	192.231	121.98	170.808
541	192.222	121.992	170.753
542	192.212	122.004	170.697
543	192.203	122.017	170.642
544	192.194	122.029	170.587
545	192.185	122.041	170.532
546	192.176	122.053	170.477
547	192.167	122.065	170.422
548	192.157	122.077	170.367
549	192.148	122.089	170.313
550	192.139	122.101	170.258
551	192.188	122.116	170.439
552	192.234	122.134	170.62
553	192.278	122.151	170.79
554	192.321	122.168	170.952
555	192.364	122.184	171.111
556	192.414	122.201	171.283
557	192.471	122.219	171.465
558	192.535	122.238	171.659
559	192.603	122.255	171.858
560	192.672	122.271	172.076
561	192.741	122.285	172.299
562	192.802	122.297	172.484
563	192.854	122.308	172.643
564	192.9	122.316	172.78
565	192.941	122.324	172.902
566	192.979	122.331	173.011
567	193.013	122.337	173.11
568	193.045	122.342	173.2
569	193.075	122.346	173.281
570	193.063	122.351	173.177
571	193.008	122.337	173.011
572	192.954	122.323	172.845
573	192.899	122.308	172.68
574	192.845	122.294	172.519
575	192.79	122.28	172.35
576	192.738	122.265	172.187
577	192.729	122.278	172.093
578	192.722	122.291	172
579	192.716	122.304	171.91
580	192.682	122.289	171.745
581	192.606	122.273	171.586
582	192.652	122.286	171.72
583	192.647	122.3	171.639
584	192.642	122.314	171.558
585	192.637	122.328	171.477

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012790

ALSTOM

586	6749.3	54	-45.599	0
587	6764.3	54	-36.7328	0
588	6779.3	54	-14.205	0
589	6794.3	54	-3.94157	0
590	6809.3	53.9842	0	-1.42E-02
591	6824.28	53.8838	0	-4.00E-02
592	6839.23	53.6903	0	-6.57E-02
593	6854.11	53.4524	0	-7.23E-02
594	6868.92	53.1537	0	-8.80E-02
595	6883.64	52.837	0	-8.79E-02
596	6898.27	52.5207	0	-8.78E-02
597	6912.81	52.2048	0	-8.77E-02
598	6927.27	51.8893	0	-8.76E-02
599	6941.64	51.5742	0	-8.75E-02
600	6955.82	51.2595	0	-8.74E-02
601	6970.12	50.9452	0	-8.73E-02
602	6984.23	50.6313	0	-8.71E-02
603	6998.25	50.3178	0	-8.70E-02
604	7012.18	50.0275	0	-8.94E-02
605	7026.05	49.7841	0	-6.61E-02
606	7039.84	49.5626	0	-6.28E-02
607	7053.58	49.3331	0	-5.95E-02
608	7067.25	49.1254	0	-5.62E-02
609	7080.88	49.1139	136.922	0.232393
610	7094.75	50.9552	253.533	0.58805
611	7109.19	53.0132	243.252	0.559275
612	7124.19	54.9772	233.453	0.533715
613	7139.47	53.5711	-369.848	-1.10747
614	7153.94	51.0962	-80.7771	-0.314332
615	7168.08	50.7859	0	-5.44E-02
616	7182.16	50.5903	0	-5.45E-02
617	7196.18	50.383	0	-6.03E-02
618	7210.14	50.1547	0	-6.61E-02
619	7224.04	49.9057	0	-7.19E-02
620	7237.86	49.5478	0	-0.116751
621	7251.56	49.1096	0	-0.125984
622	7265.14	48.6384	0	-0.13512
623	7278.58	48.1344	0	-0.144153
624	7291.88	47.5982	0	-0.153078
625	7305.02	47.062	0	-0.141917
626	7318.02	46.5408	0	-0.147216
627	7330.88	46.0061	0	-0.148604
628	7343.58	45.4715	0	-0.14843
629	7356.14	44.9375	0	-0.148258
630	7368.55	44.4041	0	-0.148087
631	7380.9	44.9933	287.069	0.558571
632	7393.68	47.0146	275.784	0.547877
633	7407.01	48.9304	264.56	0.518813
634	7420.86	50.6874	169.317	0.334228
635	7434.95	50.546	0	-0.140982
636	7448.93	50.0554	0	-0.132221
637	7462.77	49.8411	0	-0.102866
638	7476.51	49.2944	0	-9.07E-02
639	7480.16	48.9913	0	-7.86E-02
640	7503.73	48.7317	0	-6.86E-02

586	192.632	122.342	171.393
587	192.626	122.355	171.309
588	192.602	122.358	171.194
589	192.558	122.348	171.048
590	192.506	122.333	170.885
591	192.454	122.318	170.726
592	192.403	122.304	170.568
593	192.352	122.289	170.407
594	192.301	122.274	170.249
595	192.25	122.26	170.091
596	192.2	122.245	169.933
597	192.15	122.23	169.776
598	192.1	122.216	169.619
599	192.051	122.202	169.462
600	192.001	122.187	169.305
601	191.953	122.173	169.149
602	191.904	122.158	168.994
603	191.856	122.144	168.838
604	191.809	122.13	168.683
605	191.781	122.116	168.529
606	191.714	122.101	168.375
607	191.687	122.087	168.221
608	191.62	122.073	168.058
609	191.62	122.077	168.024
610	191.656	122.08	168.138
611	191.689	122.081	168.242
612	191.719	122.082	168.337
613	191.773	122.084	168.512
614	191.77	122.107	168.446
615	191.722	122.082	168.293
616	191.673	122.077	168.14
617	191.625	122.062	167.987
618	191.578	122.047	167.835
619	191.53	122.032	167.683
620	191.483	122.018	167.531
621	191.436	122.003	167.38
622	191.39	121.989	167.229
623	191.344	121.974	167.078
624	191.299	121.96	166.928
625	191.254	121.946	166.778
626	191.209	121.932	166.628
627	191.165	121.919	166.479
628	191.122	121.905	166.33
629	191.079	121.892	166.182
630	191.036	121.879	166.034
631	191.081	121.883	166.183
632	191.123	121.888	166.321
633	191.162	121.888	166.449
634	191.169	121.891	166.442
635	191.121	121.875	166.295
636	191.074	121.859	166.147
637	191.027	121.843	166
638	190.98	121.828	165.853
639	190.933	121.812	165.707
640	190.887	121.797	165.561

641	7517.24	48.5152	0	-5.46E-02
642	7530.71	48.8086	203.079	0.408458
643	7544.56	50.9136	253.741	0.504287
644	7558.99	53.0523	243.057	0.585386
645	7574.02	55.1103	232.867	0.559255
646	7589.6	57.082	224.641	0.53786
647	7605.72	58.9778	216.733	0.516933
648	7622.36	60.8021	210.058	0.499022
649	7639.5	62.5716	204.732	0.484874
650	7657.12	64.2909	199.56	0.471116
651	7675.21	65.9622	194.886	0.458539
652	7693.76	67.591	190.683	0.446997
653	7712.76	69.1788	186.389	0.435735
654	7732.19	70.7266	182.286	0.424714
655	7752.05	72.236	178.27	0.413918
656	7772.23	72.7503	0	-3.58E-02
657	7792.42	72.6216	0	-3.58E-02
658	7812.58	72.4928	0	-3.57E-02
659	7832.56	70.6359	-352.789	-1.02079
660	7851.63	66.6847	-365.086	-1.09999
661	7869.61	62.7247	-369.848	-1.09999
662	7886.48	58.7647	-369.849	-1.09999
663	7902.26	54.8048	-369.849	-1.09999
664	7918.93	50.8448	-369.845	-1.09999
665	7930.5	46.8848	-369.845	-1.09999
666	7942.98	42.9249	-369.845	-1.09999
667	7954.36	38.9649	-369.847	-1.09999
668	7964.62	35.0049	-369.861	-1.1
669	7973.8	31.046	-369.861	-1.09999
670	7981.67	27.086	-369.861	-1.09999
671	7988.64	23.126	-369.862	-1.09999
672	7994.71	19.1661	-369.862	-1.09999
673	7999.48	15.2051	-369.862	-1.09999
674	8003.16	11.2451	-369.862	-1.09999
675	8005.71	7.28523	-169.706	-1.09998
676	8007.12	3.65022	-0.89577	-1.04802
677	8007.69	1.27157	-0.31205	-0.79566
678	8008	0	0	0
679	8008	0	0	0
680	8008	0	0	0
681	8008	0	0	0
682	8008	0	0	0
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692	8008	0	0	0
693	8008	0	0	0
694	8008	0	0	0
695	8008.26	1.08662	397.162	0.258691

641	190.841	121.781	165.415
642	190.858	121.783	165.449
643	190.894	121.784	165.568
644	190.927	121.785	165.678
645	190.958	121.784	165.779
646	190.987	121.782	165.868
647	191.014	121.78	165.948
648	191.041	121.777	166.022
649	191.071	121.773	166.096
650	191.104	121.768	166.169
651	191.138	121.762	166.244
652	191.172	121.756	166.32
653	191.206	121.748	166.397
654	191.241	121.74	166.474
655	191.277	121.73	166.553
656	191.207	121.705	166.414
657	191.137	121.68	166.274
658	191.067	121.655	166.136
659	191.152	121.655	166.401
660	191.233	121.658	166.646
661	191.303	121.665	166.864
662	191.36	121.673	167.066
663	191.418	121.684	167.24
664	191.468	121.697	167.403
665	191.513	121.712	167.553
666	191.562	121.729	167.698
667	191.612	121.748	167.844
668	191.657	121.769	167.986
669	191.714	121.789	168.142
670	191.771	121.807	168.302
671	191.821	121.824	168.451
672	191.86	121.84	168.583
673	191.901	121.856	168.722
674	191.933	121.87	168.838
675	191.944	121.886	168.866
676	191.939	121.903	168.823
677	191.935	121.916	168.782
678	191.925	121.927	168.728
679	191.916	121.939	168.676
680	191.907	121.951	168.622
681	191.898	121.962	168.57
682	191.889	121.974	168.517
683	191.88	121.986	168.464
684	191.871	121.997	168.411
685	191.862	122.009	168.359
686	191.852	122.021	168.306
687	191.843	122.032	168.254
688	191.834	122.044	168.201
689	191.825	122.055	168.149
690	191.816	122.067	168.097
691	191.807	122.078	168.045
692	191.798	122.09	167.993
693	191.789	122.101	167.941
694	191.78	122.113	167.889
695	191.827	122.124	168.075

696	8008.83	3.35802	397.182	0.814511
697	8010.02	6.51787	397.181	0.984666
698	8012.33	10.0607	397.181	0.983947
699	8016.62	13.6014	397.181	0.983259
700	8019.88	17.1395	397.181	0.982541
701	8025.13	20.675	397.181	0.981779
702	8031.37	24.2078	397.181	0.98097
703	8038.58	27.7375	397.187	0.980125
704	8046.77	31.2622	396.416	0.979203
705	8055.94	34.7496	390.509	0.982729
706	8066.06	38.0597	351.581	0.871923
707	8077.05	41.0138	319.095	0.7847
708	8088.83	43.7294	297.602	0.729079
709	8101.33	46.2158	280.435	0.645382
710	8114.48	48.466	267.276	0.607744
711	8128.24	50.6487	184.585	0.44947
712	8142.35	50.733	0	-7.60E-02
713	8156.41	50.4525	0	-7.96E-02
714	8170.38	50.1755	0	-8.39E-02
715	8184.29	49.9457	0	-8.38E-02
716	8198.13	49.716	0	-8.38E-02
717	8211.81	49.4867	0	-8.37E-02
718	8225.62	49.2576	0	-8.36E-02
719	8239.27	49.0288	0	-8.35E-02
720	8252.86	48.8003	0	-8.34E-02
721	8266.38	48.572	0	-8.34E-02
722	8279.85	48.4132	0	-8.34E-02
723	8293.28	48.2789	0	-8.11E-02
724	8306.68	48.1956	0	-1.63E-02
725	8320.06	48.1667	0	-1.48E-03
726	8333.44	48.1891	0	1.33E-02
727	8346.91	49.1908	262.285	0.684407
728	8360.91	51.6298	250.163	0.666595
729	8375.58	54.0008	238.319	0.650115
730	8390.91	56.3105	227.86	0.635393
731	8406.86	58.576	218.409	0.624079
732	8423.44	60.8023	210.054	0.61289
733	8440.64	62.9594	203.666	0.598634
734	8458.41	65.0161	197.394	0.58785
735	8476.75	66.9742	192.213	0.581898
736	8495.61	68.8411	187.281	0.506631
737	8514.98	70.617	182.578	0.481342
738	8534.84	72.3026	178.09	0.45641
739	8555.14	73.8992	173.839	0.431811
740	8576.88	75.3466	81.5204	0.233754
741	8596.82	75.3668	0	-9.80E-03
742	8617.75	75.3316	0	-9.79E-03
743	8638.67	75.2964	0	-9.77E-03
744	8659.58	75.2612	0	-9.75E-03
745	8680.48	75.2261	0	-9.74E-03
746	8701.38	75.1911	0	-9.72E-03
747	8722.26	75.1561	0	-9.71E-03
748	8743.13	75.1212	0	-9.69E-03
749	8763.99	75.0864	0	-9.68E-03
750	8784.84	75.0516	0	-9.66E-03

696	191.874	122.14	168.259
697	191.92	122.156	168.44
698	191.963	122.171	168.606
699	192.006	122.186	168.774
700	192.053	122.201	168.946
701	192.107	122.217	169.129
702	192.169	122.234	169.325
703	192.235	122.25	169.528
704	192.304	122.265	169.743
705	192.375	122.279	169.982
706	192.439	122.289	170.188
707	192.495	122.299	170.362
708	192.543	122.307	170.513
709	192.586	122.313	170.648
710	192.625	122.318	170.766
711	192.636	122.323	170.765
712	192.687	122.31	170.604
713	192.536	122.297	170.444
714	192.49	122.284	170.284
715	192.442	122.271	170.125
716	192.394	122.257	169.966
717	192.347	122.244	169.808
718	192.299	122.231	169.65
719	192.252	122.218	169.492
720	192.205	122.205	169.335
721	192.159	122.191	169.178
722	192.112	122.178	169.021
723	192.066	122.165	168.866
724	192.02	122.152	168.71
725	191.974	122.138	168.556
726	191.927	122.125	168.401
727	191.885	122.128	168.52
728	192	122.131	168.629
729	192.031	122.132	168.728
730	192.061	122.133	168.814
731	192.088	122.133	168.889
732	192.115	122.132	168.956
733	192.145	122.129	169.023
734	192.178	122.126	169.09
735	192.211	122.121	169.159
736	192.245	122.115	169.229
737	192.279	122.108	169.3
738	192.314	122.101	169.372
739	192.349	122.092	169.445
740	192.361	122.084	169.371
741	192.278	122.06	169.225
742	192.204	122.036	169.081
743	192.13	122.011	168.936
744	192.057	121.986	168.792
745	191.983	121.961	168.648
746	191.91	121.937	168.504
747	191.837	121.912	168.361
748	191.764	121.887	168.218
749	191.691	121.862	168.076
750	191.618	121.837	167.934

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012700

751	8805.69	75.0168	0	-9.64E-03
752	8826.52	74.9821	0	-9.63E-03
753	8847.34	74.9475	0	-9.61E-03
754	8868.16	74.9115	0	-1.04E-02
755	8888.96	74.8739	0	-1.04E-02
756	8909.75	74.8372	0	-9.58E-03
757	8930.54	74.8027	0	-9.76E-03
758	8951.31	74.7678	0	-9.64E-03
759	8972.07	74.7333	0	-9.67E-03
760	8992.83	74.6909	0	-1.37E-02
761	9013.57	74.6342	0	-1.77E-02
762	9034.27	73.8679	-337.794	-0.873255
763	9054.26	70.0396	-355.533	-1.08891
764	9073.17	66.1125	-366.703	-1.09258
765	9090.99	62.1726	-369.848	-1.09603
766	9107.71	58.2206	-369.849	-1.09928
767	9123.34	54.2608	-369.848	-1.09999
768	9137.86	50.3009	-369.844	-1.1
769	9151.28	46.3409	-369.845	-1.09999
770	9163.6	42.3809	-369.846	-1.09999
771	9174.83	38.421	-369.848	-1.09999
772	9184.95	34.461	-369.851	-1.09999
773	9193.97	30.501	-369.851	-1.09999
774	9201.89	26.5411	-369.851	-1.09999
775	9208.71	22.5811	-369.852	-1.09999
776	9214.43	18.6211	-369.852	-1.09999
777	9219.06	14.6612	-369.852	-1.1
778	9222.57	10.7012	-369.852	-1.09999
779	9225.01	6.74133	-129.607	-1.09995
780	9226.2	3.32351	-0.81559	-1.01338
781	9226.77	0.944857	-0.23187	-0.760985
782	9227	0	0	0
783	9227	0	0	0
784	9227	0	0	0
785	9227	0	0	0
786	9227	0	0	0
787	9227	0	0	0
788	9227	0	0	0
789	9227	0	0	0
790	9227	0	0	0
791	9227	0	0	0
792	9227	0	0	0
793	9227	0	0	0
794	9227	0	0	0
795	9227	0	0	0
796	9227	0	0	0
797	9227	0	0	0
798	9227	0	0	0
799	9227.34	1.38126	397.182	0.335035
800	9227.9	3.67277	397.182	0.890855
801	9229.3	7.00458	397.181	0.984583
802	9231.73	10.5472	397.181	0.983853
803	9235.14	14.0875	397.181	0.983162
804	9239.55	17.6253	397.181	0.982439
805	9244.93	21.1605	397.181	0.981671

761	191.545	121.812	167.792
762	191.472	121.787	167.651
763	191.4	121.761	167.509
764	191.327	121.736	167.369
765	191.255	121.711	167.228
766	191.182	121.685	167.088
767	191.11	121.66	166.948
768	191.038	121.634	166.808
769	190.968	121.609	166.669
760	190.894	121.583	166.53
761	190.822	121.557	166.392
762	190.908	121.556	166.66
763	190.993	121.557	166.923
764	191.074	121.561	167.184
765	191.141	121.568	167.376
766	191.198	121.577	167.565
767	191.253	121.589	167.745
768	191.302	121.602	167.903
769	191.35	121.618	168.05
770	191.399	121.638	168.194
771	191.448	121.658	168.337
772	191.494	121.678	168.479
773	191.553	121.697	168.635
774	191.61	121.716	168.793
775	191.657	121.733	168.938
776	191.697	121.749	169.089
777	191.737	121.765	169.205
778	191.789	121.781	169.316
779	191.776	121.797	169.326
780	191.771	121.814	169.282
781	191.766	121.825	169.24
782	191.757	121.837	169.186
783	191.748	121.849	169.132
784	191.739	121.861	169.079
785	191.73	121.873	169.025
786	191.721	121.885	168.972
787	191.711	121.896	168.918
788	191.702	121.908	168.865
789	191.693	121.92	168.812
790	191.684	121.932	168.759
791	191.675	121.943	168.705
792	191.666	121.955	168.653
793	191.657	121.967	168.6
794	191.648	121.978	168.547
795	191.639	121.99	168.494
796	191.63	122.002	168.441
797	191.62	122.013	168.389
798	191.611	122.025	168.336
799	191.658	122.037	168.52
800	191.708	122.054	168.704
801	191.751	122.071	168.881
802	191.794	122.086	169.047
803	191.837	122.101	169.212
804	191.885	122.116	169.384
805	191.94	122.133	169.568

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00912794

ALSTOM

806	9251.3	24.6928	397.181	0.980855
807	9258.65	28.2221	397.188	0.980006
808	9268.97	31.7441	394.738	0.974342
809	9276.28	35.2245	387.326	0.959897
810	9288.52	38.4851	346.218	0.858036
811	9297.62	41.3886	316.049	0.776988
812	9309.5	44.092	294.732	0.724148
813	9322.1	46.6117	278.12	0.682483
814	9335.39	49.0029	264.136	0.64877
815	9349.32	51.2792	251.915	0.619349
816	9363.87	53.4595	241.023	0.593811
817	9379.01	55.5508	231.029	0.570407
818	9394.72	57.5676	222.815	0.551421
819	9410.98	59.5179	214.479	0.53326
820	9427.78	61.4094	208.228	0.519553
821	9445.1	63.2567	202.671	0.506621
822	9462.92	65.0531	197.288	0.49224
823	9481.23	66.8015	192.669	0.479814
824	9500.03	68.5058	188.187	0.46773
825	9519.29	70.1673	183.775	0.455935
826	9539	71.7866	179.483	0.444347
827	9559.16	73.3649	175.261	0.433044
828	9579.7	74.1288	0	-9.25E-03
829	9600.29	74.0955	0	-9.23E-03
830	9620.86	74.0523	0	-9.22E-03
831	9641.43	74.0292	0	-9.20E-03
832	9661.99	73.9961	0	-9.19E-03
833	9682.54	73.963	0	-9.17E-03
834	9703.08	73.9301	0	-9.16E-03
835	9723.61	73.8971	0	-9.14E-03
836	9744.14	73.8642	0	-9.13E-03
837	9764.65	73.8314	0	-9.11E-03
838	9785.15	73.7986	0	-9.10E-03
839	9805.65	73.7659	0	-9.08E-03
840	9826.13	73.7332	0	-9.07E-03
841	9846.61	73.7006	0	-9.05E-03
842	9867.08	73.668	0	-9.04E-03
843	9887.54	73.6355	0	-9.03E-03
844	9907.99	73.6031	0	-9.01E-03
845	9928.43	73.5706	0	-9.00E-03
846	9948.86	73.5383	0	-8.98E-03
847	9969.28	73.506	0	-8.97E-03
848	9989.7	73.4737	0	-8.95E-03
849	10010.1	73.4415	0	-8.94E-03
850	10030.5	73.4094	0	-8.92E-03
851	10050.9	73.3718	0	-1.11E-02
852	10071.3	73.3305	0	-1.27E-02
853	10091.6	73.2774	0	-1.66E-02
854	10112	72.8813	-337.981	-0.830572
855	10131.7	69.0891	-358.282	-1.08651
856	10150.3	65.1811	-369.336	-1.08995
857	10167.9	61.2512	-369.848	-1.09316
858	10184.4	57.3098	-369.849	-1.09629
859	10199.7	53.3573	-369.847	-1.09928
860	10214	49.3978	-369.844	-1.09999

806	192.003	122.151	169.784
807	192.07	122.167	169.957
808	192.139	122.182	170.183
809	192.21	122.195	170.421
810	192.273	122.206	170.621
811	192.328	122.216	170.79
812	192.375	122.224	170.936
813	192.417	122.23	171.055
814	192.455	122.236	171.18
815	192.49	122.24	171.284
816	192.522	122.244	171.378
817	192.552	122.247	171.462
818	192.58	122.249	171.534
819	192.606	122.25	171.597
820	192.633	122.25	171.657
821	192.663	122.25	171.717
822	192.696	122.248	171.777
823	192.729	122.245	171.838
824	192.783	122.241	171.901
825	192.796	122.236	171.968
826	192.831	122.231	172.031
827	192.865	122.224	172.097
828	192.793	122.202	171.943
829	192.72	122.18	171.789
830	192.648	122.158	171.635
831	192.575	122.135	171.482
832	192.503	122.113	171.33
833	192.431	122.09	171.177
834	192.359	122.067	171.025
835	192.286	122.045	170.874
836	192.214	122.022	170.723
837	192.143	121.999	170.572
838	192.071	121.976	170.422
839	191.999	121.953	170.272
840	191.927	121.93	170.122
841	191.856	121.907	169.973
842	191.784	121.883	169.824
843	191.713	121.86	169.675
844	191.642	121.837	169.527
845	191.571	121.813	169.379
846	191.5	121.79	169.232
847	191.429	121.768	169.085
848	191.358	121.742	168.938
849	191.287	121.719	168.792
850	191.216	121.695	168.646
851	191.145	121.671	168.5
852	191.075	121.647	168.355
853	191.004	121.623	168.21
854	191.088	121.623	168.463
855	191.172	121.626	168.717
856	191.251	121.632	168.949
857	191.314	121.641	169.149
858	191.371	121.652	169.333
859	191.424	121.665	169.503
860	191.473	121.68	169.653

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012705



861	10227.2	45.4377	-369.845	-1.1
862	10239.3	41.4777	-369.846	-1.09999
863	10250.2	37.5177	-369.848	-1.09999
864	10260.1	33.5578	-369.851	-1.09999
865	10268.9	29.5978	-369.851	-1.1
866	10276.5	25.6378	-369.851	-1.09999
867	10283.1	21.6779	-369.852	-1.09999
868	10288.6	17.7179	-369.852	-1.09999
869	10293	13.7579	-369.852	-1.09999
870	10296.2	9.79797	-354.957	-1.09999
871	10298.4	5.83822	-63.0251	-1.09991
872	10299.3	2.78095	-0.68245	-0.955794
873	10299.9	0.402297	-9.87E-02	-0.70342
874	10300	0	0	0
875	10300	0	0	0
876	10300	0	0	0
877	10300	0	0	0
878	10300	0	0	0
879	10300	0	0	0
880	10300	0	0	0
881	10300	0	0	0
882	10300	0	0	0
883	10300	0	0	0
884	10300	0	0	0
885	10300	0	0	0
886	10300	0	0	0
887	10300	0	0	0
888	10300	0	0	0
889	10300	0	0	0
890	10300	0	0	0
891	10300.5	1.90395	397.182	0.461815
892	10301.1	4.26851	397.182	0.985187
893	10302.8	7.81284	397.181	0.984392
894	10305.4	11.3549	397.181	0.983697
895	10309.1	14.8947	397.181	0.983001
896	10313.7	18.4319	397.181	0.982268
897	10319.3	21.9664	397.181	0.981489
898	10325.9	25.4981	397.182	0.980663
899	10333.5	29.0267	397.19	0.979807
900	10342	32.5423	393.615	0.971259
901	10351.5	35.9866	377.719	0.929698
902	10362	39.1051	338.401	0.814157
903	10373.2	41.8546	312.44	0.729275
904	10385.2	44.3496	292.693	0.6626
905	10397.8	46.554	278.457	0.589519
906	10411	48.5068	267.037	0.519227
907	10424.8	50.2824	256.894	0.471165
908	10438.9	50.658	0	-0.199513
909	10452.8	49.9082	0	-0.221025
910	10468.6	49.0997	0	-0.222363
911	10480.1	48.2658	0	-0.239591
912	10493.4	47.3881	0	-0.244212
913	10506.4	46.5095	0	-0.243922
914	10519.2	45.6778	80.6766	-0.103466
915	10532	48.6192	278.076	0.458329

861	191.52	121.697	169.793
862	191.57	121.717	169.933
863	191.618	121.738	170.072
864	191.667	121.761	170.211
865	191.727	121.781	170.364
866	191.783	121.801	170.519
867	191.828	121.818	170.654
868	191.868	121.836	170.782
869	191.906	121.852	170.909
870	191.934	121.869	171.006
871	191.935	121.887	170.985
872	191.93	121.903	170.937
873	191.926	121.915	170.892
874	191.917	121.927	170.836
875	191.908	121.939	170.781
876	191.898	121.951	170.725
877	191.889	121.964	170.67
878	191.88	121.976	170.615
879	191.871	121.988	170.56
880	191.862	122	170.505
881	191.853	122.012	170.45
882	191.844	122.024	170.395
883	191.835	122.036	170.34
884	191.825	122.048	170.285
885	191.816	122.06	170.231
886	191.807	122.072	170.176
887	191.798	122.084	170.122
888	191.789	122.096	170.067
889	191.78	122.108	170.013
890	191.771	122.12	169.959
891	191.818	122.135	170.14
892	191.865	122.153	170.322
893	191.91	122.17	170.493
894	191.953	122.186	170.655
895	191.996	122.202	170.816
896	192.046	122.218	170.987
897	192.103	122.236	171.17
898	192.167	122.255	171.364
899	192.234	122.271	171.564
900	192.304	122.287	171.783
901	192.373	122.301	172.008
902	192.434	122.313	172.196
903	192.488	122.323	172.390
904	192.534	122.331	172.598
905	192.577	122.339	172.623
906	192.616	122.348	172.737
907	192.652	122.352	172.841
908	192.603	122.34	172.674
909	192.556	122.328	172.507
910	192.508	122.317	172.34
911	192.461	122.306	172.173
912	192.418	122.295	172.007
913	192.371	122.285	171.841
914	192.364	122.294	171.753
915	192.406	122.301	171.88

918	10545.2	48.2218	268.704	0.43403
917	10558.8	49.7396	259.828	0.411018
918	10572.8	50.8826	0	-0.173972
919	10586.8	49.9798	0	-0.245087
920	10600.6	49.098	0	-0.244786
921	10614.1	48.2174	0	-0.244489
922	10627.3	47.3378	0	-0.244195
923	10640.4	46.4593	0	-0.243905
924	10653.2	45.5715	103.778	-4.63E-02
925	10665.9	46.7522	277.299	0.456313
926	10678.2	48.3477	267.968	0.432121
927	10692.8	49.8961	268.912	0.420985
928	10708.8	50.8098	0	-0.216465
929	10720.9	50.0766	0	-0.193245
930	10734.7	49.423	0	-0.171087
931	10748.3	48.8482	0	-0.149964
932	10761.8	48.325	0	-0.150543
933	10775.2	47.8147	0	-0.134119
934	10788.4	47.3636	0	-0.117779
935	10801.5	46.971	0	-0.101802
936	10814.5	46.6363	0	-8.56E-02
937	10827.4	46.3718	0	-5.06E-02
938	10840.3	46.2247	0	-3.54E-02
939	10853.1	46.0873	0	-3.54E-02
940	10865.9	45.9701	0	-3.53E-02
941	10878.6	45.8431	0	-3.53E-02
942	10891.4	46.3379	233.35	0.490029
943	10904.6	48.6183	266.385	0.632773
944	10918.4	50.712	136.513	0.363755
945	10932.5	50.8128	0	-3.69E-02
946	10946.6	50.6799	0	-3.69E-02
947	10960.7	50.5472	0	-3.69E-02
948	10974.7	50.4146	0	-3.68E-02
949	10988.7	50.2853	0	-2.45E-02
950	11002.6	50.2264	0	-1.46E-02
951	11016.6	50.1809	0	-1.09E-02
952	11030.5	50.1486	0	-7.26E-03
953	11044.4	50.1295	0	-3.58E-03
954	11058.4	50.1389	53.4313	7.74E-02
955	11072.4	51.7233	249.696	0.630803
956	11087.1	53.9378	238.633	0.601781
957	11102.4	56.0484	228.953	0.573542
958	11118.3	58.0649	220.541	0.548413
959	11134.7	59.9926	212.523	0.524139
960	11151.6	61.8437	208.922	0.505896
961	11169	63.6305	201.547	0.486012
962	11186.9	65.3545	198.491	0.470966
963	11205.3	67.0207	192.09	0.455587
964	11224.1	68.6229	187.858	0.437029
965	11243.4	70.1723	183.761	0.425119
966	11263.1	71.6824	179.741	0.414366
967	11283.2	72.2628	-298.926	-0.749452
968	11302.8	68.5492	-359.816	-1.10059
969	11321.3	64.5877	-369.848	-1.10027
970	11338.7	60.6273	-369.849	-1.09999

916	192.445	122.307	171.958
917	192.483	122.312	172.106
918	192.434	122.3	171.941
919	192.366	122.288	171.777
920	192.339	122.276	171.612
921	192.292	122.264	171.448
922	192.247	122.253	171.284
923	192.202	122.242	171.12
924	192.198	122.251	171.046
925	192.24	122.257	171.174
926	192.279	122.263	171.293
927	192.316	122.268	171.402
928	192.267	122.256	171.239
929	192.219	122.242	171.077
930	192.172	122.23	170.914
931	192.125	122.218	170.753
932	192.079	122.208	170.591
933	192.033	122.194	170.43
934	191.987	122.182	170.269
935	191.942	122.17	170.108
936	191.887	122.158	169.949
937	191.853	122.147	169.789
938	191.808	122.135	169.63
939	191.764	122.123	169.472
940	191.72	122.111	169.314
941	191.676	122.099	169.156
942	191.701	122.105	169.215
943	191.74	122.11	169.337
944	191.74	122.114	169.29
945	191.691	122.1	169.134
946	191.643	122.085	168.978
947	191.595	122.071	168.823
948	191.547	122.057	168.668
949	191.499	122.042	168.513
950	191.451	122.028	168.359
951	191.404	122.013	168.205
952	191.366	121.998	168.052
953	191.308	121.983	167.899
954	191.297	121.988	167.808
955	191.332	121.99	167.948
956	191.384	121.991	168.078
957	191.394	121.991	168.108
958	191.422	121.99	168.187
959	191.448	121.988	168.258
960	191.477	121.987	168.323
961	191.506	121.984	168.392
962	191.542	121.979	168.46
963	191.576	121.974	168.53
964	181.61	121.968	168.601
965	191.644	121.961	168.674
966	191.679	121.953	168.747
967	191.742	121.954	168.911
968	191.825	121.957	169.162
969	191.903	121.963	169.389
970	191.963	121.972	169.586

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012707

971	11355	56.6674	-369.849	-1.09999
972	11370.2	52.7074	-369.847	-1.09999
973	11384.3	48.7474	-369.844	-1.09999
974	11397.2	44.7875	-369.845	-1.1
975	11409.1	40.8275	-369.846	-1.09999
976	11419.9	36.8675	-369.849	-1.09999
977	11429.6	32.9076	-369.851	-1.09999
978	11438.2	28.9476	-369.851	-1.09999
979	11445.7	24.9876	-369.852	-1.1
980	11452.1	21.0277	-369.852	-1.09999
981	11457.4	17.0677	-369.852	-1.09999
982	11461.6	13.1077	-369.852	-1.09999
983	11464.6	9.14778	-307.023	-1.09998
984	11466.6	5.18813	-15.0973	-1.09987
985	11467.4	2.39039	-0.5866	-0.914356
986	11468	1.17E-02	-2.88E-03	-0.661982
987	11468	0	0	0
988	11468	0	0	0
989	11468	0	0	0
990	11468	0	0	0
991	11468	0	0	0
992	11468	0	0	0
993	11468	0	0	0
994	11468	0	0	0
995	11468	0	0	0
996	11468	0	0	0
997	11468	0	0	0
998	11468	0	0	0
999	11468	0	0	0
1000	11468	0	0	0
1001	11468	0	0	0
1002	11468	0	0	0
1003	11468	0	0	0
1004	11468.6	2.28019	397.182	0.553076
1005	11469.3	4.85054	397.181	0.985052
1006	11471.1	8.3946	397.181	0.984272
1007	11473.9	11.9363	397.181	0.983585
1008	11477.8	15.4758	397.181	0.982883
1009	11482.5	19.0124	397.181	0.982143
1010	11488.3	22.5465	397.181	0.981357
1011	11495.1	26.0777	397.183	0.980525
1012	11502.8	29.6058	397.191	0.979661
1013	11511.5	33.1152	392.808	0.969046
1014	11521.2	36.5491	370.625	0.921288
1015	11531.8	39.664	331.355	0.819569
1016	11543.2	42.4768	307.515	0.754728
1017	11555.4	45.089	287.025	0.70126
1018	11568.2	47.5389	272.698	0.663483
1019	11581.8	49.8589	259.13	0.628244
1020	11595.9	52.0625	248.002	0.597828
1021	11610.7	54.135	237.648	0.566489
1022	11626	56.0538	228.931	0.493613
1023	11641.8	57.7603	221.812	0.456789
1024	11658.1	59.336	215.238	0.420866
1025	11674.7	60.7862	210.103	0.387894

971	192.019	121.984	169.767
972	192.072	121.997	169.934
973	192.12	122.012	170.082
974	192.167	122.029	170.221
975	192.217	122.049	170.361
976	192.264	122.071	170.499
977	192.315	122.093	170.641
978	192.374	122.114	170.794
979	192.43	122.133	170.949
980	192.472	122.15	171.079
981	192.512	122.167	171.209
982	192.549	122.184	171.332
983	192.573	122.201	171.409
984	192.569	122.219	171.369
985	192.564	122.234	171.321
986	192.561	122.245	171.276
987	192.552	122.258	171.22
988	192.542	122.27	171.165
989	192.533	122.282	171.109
990	192.524	122.294	171.054
991	192.515	122.307	170.999
992	192.506	122.319	170.944
993	192.497	122.331	170.889
994	192.487	122.343	170.834
995	192.478	122.355	170.779
996	192.469	122.367	170.724
997	192.46	122.379	170.669
998	192.451	122.391	170.614
999	192.442	122.403	170.56
1000	192.433	122.415	170.505
1001	192.423	122.427	170.45
1002	192.414	122.439	170.398
1003	192.405	122.451	170.342
1004	192.452	122.468	170.523
1005	192.5	122.484	170.706
1006	192.544	122.501	170.875
1007	192.587	122.517	171.037
1008	192.631	122.533	171.2
1009	192.681	122.55	171.373
1010	192.74	122.567	171.558
1011	192.805	122.586	171.753
1012	192.872	122.602	171.955
1013	192.942	122.617	172.177
1014	193.01	122.631	172.398
1015	193.07	122.642	172.577
1016	193.121	122.652	172.734
1017	193.168	122.66	172.868
1018	193.206	122.666	172.988
1019	193.243	122.672	173.094
1020	193.276	122.677	173.191
1021	193.307	122.681	173.278
1022	193.336	122.685	173.355
1023	193.364	122.687	173.423
1024	193.39	122.689	173.483
1025	193.416	122.691	173.539

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012708

1026	11691.8	62.1212	173.822	0.321129
1027	11709.1	62.0208	0	-0.140735
1028	11726.3	61.6355	0	-0.129437
1029	11743.3	61.0993	0	-0.11
1030	11760.2	60.7558	0	-8.25E-02
1031	11777.1	60.5565	73.9132	8.51E-02
1032	11794	61.9459	168.376	0.443993
1033	11811.3	62.3368	0	-3.76E-04
1034	11828.7	62.3538	-11.6178	0
1035	11846	62.3538	-13.705	0
1036	11863.3	62.3538	-13.705	0
1037	11880.6	62.3538	-13.705	0
1038	11897.9	62.3538	-13.705	0
1039	11915.3	62.3538	-11.5908	0
1040	11932.6	62.3538	-8.47473	0
1041	11949.9	62.3538	-5.35887	0
1042	11967.2	62.3538	-6.40839	0
1043	11984.5	62.3538	-4.77789	0
1044	12001.9	62.3538	-1.46438	0
1045	12019.2	62.3528	0	-1.62E-03
1046	12036.5	63.0795	203.204	0.499561
1047	12054.3	64.3865	0	-1.72E-02
1048	12072.2	64.3294	0	-1.18E-02
1049	12090	64.287	0	-1.18E-02
1050	12107.9	64.255	0	-7.75E-03
1051	12125.7	64.2288	0	-6.88E-03
1052	12143.6	64.2057	0	-6.01E-03
1053	12161.4	64.1856	0	-5.15E-03
1054	12179.2	64.1678	0	-5.01E-03
1055	12197.1	64.1495	0	-5.00E-03
1056	12214.9	64.1318	0	-4.99E-03
1057	12232.7	64.1136	0	-4.99E-03
1058	12250.5	64.0957	0	-4.98E-03
1059	12268.3	64.0778	0	-4.97E-03
1060	12286.1	64.0599	0	-4.96E-03
1061	12303.9	64.042	0	-4.95E-03
1062	12321.7	64.0242	0	-4.95E-03
1063	12339.4	64.0064	0	-4.94E-03
1064	12357.2	63.9432	0	-2.76E-02
1065	12375	63.8389	0	-3.02E-02
1066	12392.7	63.7251	0	-3.28E-02
1067	12410.4	63.602	0	-3.55E-02
1068	12428	63.5016	0	-2.59E-02
1069	12445.6	63.4086	0	-2.58E-02
1070	12463.2	63.3147	0	-2.71E-02
1071	12480.8	63.2108	0	-3.04E-02
1072	12498.4	63.0948	0	-3.38E-02
1073	12515.8	61.8948	-369.848	-1.04715
1074	12532.5	57.9149	-369.849	-1.10865
1075	12548	53.9179	-369.848	-1.11167
1076	12562.4	49.9174	-369.844	-1.10364
1077	12575.7	46.9432	-369.845	-1.10421
1078	12587.9	41.9669	-369.846	-1.10474
1079	12599	37.9892	-369.848	-1.10474
1080	12609	34.0151	-369.851	-1.10324

1026	193.431	122.692	173.538
1027	193.371	122.675	173.375
1028	193.311	122.658	173.211
1029	193.252	122.642	173.048
1030	193.193	122.625	172.886
1031	193.182	122.627	172.782
1032	193.195	122.628	172.775
1033	193.135	122.61	172.614
1034	193.108	122.609	172.485
1035	193.087	122.61	172.363
1036	193.068	122.611	172.242
1037	193.045	122.612	172.121
1038	193.024	122.613	172
1039	192.997	122.611	171.873
1040	192.961	122.604	171.739
1041	192.916	122.594	171.596
1042	192.874	122.584	171.458
1043	192.828	122.572	171.312
1044	192.772	122.556	171.16
1045	192.712	122.537	171.003
1046	192.742	122.535	171.098
1047	192.68	122.516	170.911
1048	192.618	122.496	170.756
1049	192.556	122.476	170.601
1050	192.494	122.456	170.447
1051	192.433	122.436	170.294
1052	192.371	122.416	170.14
1053	192.309	122.396	169.987
1054	192.248	122.376	169.836
1055	192.186	122.356	169.683
1056	192.125	122.335	169.531
1057	192.063	122.315	169.38
1058	192.002	122.294	169.229
1059	191.941	122.274	169.079
1060	191.88	122.253	168.929
1061	191.818	122.232	168.779
1062	191.757	122.212	168.63
1063	191.696	122.191	168.481
1064	191.635	122.17	168.333
1065	191.574	122.149	168.185
1066	191.514	122.128	168.037
1067	191.453	122.107	167.89
1068	191.393	122.085	167.743
1069	191.332	122.064	167.597
1070	191.272	122.043	167.451
1071	191.212	122.022	167.305
1072	191.152	122.001	167.16
1073	191.219	122.007	167.37
1074	191.276	122.015	167.561
1075	191.33	122.026	167.74
1076	191.379	122.039	167.897
1077	191.427	122.053	168.045
1078	191.477	122.071	168.19
1079	191.526	122.09	168.335
1080	191.574	122.111	168.479

3432

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012739

1081	12617.9	30.0462	-369.851	-1.10191
1082	12625.7	26.0818	-369.851	-1.10072
1083	12632.4	22.1211	-369.852	-1.09999
1084	12638	18.1611	-369.852	-1.09999
1085	12642.5	14.2012	-369.852	-1.09999
1086	12645.9	10.2412	-369.852	-1.1
1087	12648.2	6.2814	-95.698	-1.09993
1088	12649.3	3.04719	-0.74778	-0.984042
1089	12649.8	0.668541	-0.16406	-0.731688
1090	12650	0	0	0
1091	12650	0	0	0
1092	12650	0	0	0
1093	12650	0	0	0
1094	12650	0	0	0
1095	12650	0	0	0
1096	12650	0	0	0
1097	12650	0	0	0
1098	12650	0	0	0
1099	12650	0	0	0
1100	12650	0	0	0
1101	12650	0	0	0
1102	12650	0	0	0
1103	12650	0	0	0
1104	12650	0	0	0
1105	12650	0	0	0
1106	12650	0	0	0
1107	12850.4	1.64746	397.182	0.399602
1108	12651	3.93896	397.182	0.956421
1109	12852.5	7.41622	397.181	0.984476
1110	12855.1	10.9586	397.181	0.983774
1111	12858.6	14.4985	397.181	0.98308
1112	12863.1	18.0361	397.181	0.982352
1113	12868.6	21.5709	397.181	0.981579
1114	12875.1	25.1029	397.181	0.980757
1115	12882.6	28.6319	397.189	0.979905
1116	12691	32.1505	394.166	0.972227
1117	12700.4	35.617	382.377	0.949381
1118	12710.8	38.8228	341.959	0.842581
1119	12722	41.6864	313.771	0.764322
1120	12733.9	44.3273	292.869	0.70791
1121	12748.6	46.7839	277.113	0.663544
1122	12759.9	49.0834	263.665	0.617892
1123	12773.8	51.2412	252.104	0.584621
1124	12788.3	53.2884	241.878	0.554516
1125	12803.4	55.2267	232.381	0.524641
1126	12819	57.0673	224.703	0.499626
1127	12835.1	58.8397	217.309	0.483626
1128	12851.7	60.5555	210.797	0.471358
1129	12868.7	62.2062	205.831	0.453957
1130	12886.3	63.8255	200.96	0.44818
1131	12904.2	65.4171	196.325	0.438615
1132	12922.8	66.984	192.187	0.432237
1133	12941.4	68.5644	188.012	0.43743
1134	12960.7	70.1322	183.868	0.433793
1135	12980.4	71.6822	158.008	0.411509

1081	191.833	122.13	168.638
1082	191.69	122.148	168.799
1083	191.736	122.164	168.941
1084	191.776	122.179	169.075
1085	191.816	122.195	169.209
1086	191.846	122.21	169.319
1087	191.85	122.226	169.317
1088	191.845	122.242	169.274
1089	191.841	122.253	169.233
1090	191.832	122.264	169.18
1091	191.823	122.276	169.126
1092	191.814	122.288	169.073
1093	191.804	122.299	169.02
1094	191.795	122.311	168.967
1095	191.786	122.323	168.914
1096	191.777	122.334	168.862
1097	191.768	122.346	168.809
1098	191.759	122.357	168.756
1099	191.75	122.369	168.704
1100	191.741	122.38	168.651
1101	191.732	122.392	168.599
1102	191.723	122.403	168.546
1103	191.714	122.415	168.494
1104	191.705	122.426	168.442
1105	191.696	122.438	168.39
1106	191.687	122.449	168.338
1107	191.734	122.462	168.523
1108	191.781	122.479	168.709
1109	191.826	122.494	168.866
1110	191.869	122.509	169.053
1111	191.912	122.524	169.219
1112	191.961	122.539	169.394
1113	192.017	122.555	169.581
1114	192.082	122.572	169.779
1115	192.149	122.587	169.984
1116	192.218	122.601	170.205
1117	192.289	122.613	170.439
1118	192.351	122.623	170.636
1119	192.405	122.632	170.805
1120	192.452	122.639	170.95
1121	192.494	122.645	171.079
1122	192.532	122.649	171.195
1123	192.567	122.653	171.3
1124	192.6	122.656	171.396
1125	192.63	122.658	171.483
1126	192.658	122.659	171.56
1127	192.685	122.66	171.627
1128	192.712	122.659	171.688
1129	192.741	122.658	171.749
1130	192.772	122.656	171.811
1131	192.805	122.654	171.872
1132	192.839	122.65	171.935
1133	192.873	122.645	171.999
1134	192.907	122.639	172.064
1135	192.931	122.633	172.084

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012300



1136	13000.4	71.9356	0	-2.68E-02
1137	13020.3	71.8394	0	-2.67E-02
1138	13040.3	71.7433	0	-2.67E-02
1139	13060.2	71.6702	0	-1.70E-02
1140	13080.1	71.6148	0	-1.48E-02
1141	13100	71.5657	0	-1.25E-02
1142	13119.9	71.5249	0	-1.07E-02
1143	13139.7	71.492	0	-2.84E-03
1144	13159.6	71.5255	0	1.99E-02
1145	13179.5	71.6385	0	4.17E-02
1146	13199.4	71.8301	0	6.36E-02
1147	13219.4	72.1003	0	8.55E-02
1148	13239.4	72.4494	0	0.107404
1149	13259.6	72.8776	0	0.129424
1150	13279.9	73.3789	0	0.143147
1151	13300.4	73.8938	0	0.142915
1152	13321	74.4078	0	0.142685
1153	13341.7	74.9211	0	0.142458
1154	13362.6	75.4335	0	0.142226
1155	13383.8	75.5219	-56.4517	0
1156	13404.8	75.5219	-56.4517	0
1157	13425.5	75.5219	-56.4517	0
1158	13446.5	75.5219	-56.4517	0
1159	13467.5	75.5219	-56.4517	0
1160	13488.5	75.5219	-56.4517	0
1161	13509.5	75.5219	-56.4517	0
1162	13530.4	75.5219	-56.4517	0
1163	13551.4	75.5219	-56.4517	0
1164	13572.4	75.5219	-56.4517	0
1165	13593.4	75.5219	-56.4517	0
1166	13614.4	75.5219	-56.6704	0
1167	13635.3	75.5219	-56.694	0
1168	13656.3	75.5219	-56.882	0
1169	13677.3	75.5219	-56.0243	0
1170	13698.3	75.5219	-55.2327	0
1171	13719.2	75.5219	-55.2148	0
1172	13740.2	75.5219	-55.2497	0
1173	13761.2	75.5219	-56.668	0
1174	13782.2	75.5219	-56.8438	0
1175	13803.2	75.5219	-57.0197	0
1176	13824.1	75.5219	-56.2231	0
1177	13845.1	75.5219	-54.9245	0
1178	13866.1	75.5219	-53.5767	0
1179	13887.1	75.5219	-52.2289	0
1180	13908	75.5219	-50.8811	0
1181	13929	75.5219	-49.5332	0
1182	13950	75.5219	-48.25	0
1183	13971	75.5219	-48.25	0
1184	13992	75.5219	-48.25	0
1185	14012.9	75.5219	-48.25	0
1186	14033.9	75.5219	-48.25	0
1187	14054.9	75.5219	-48.25	0
1188	14075.9	75.5219	-48.25	0
1189	14096.9	75.5219	-48.25	0
1190	14117.8	75.5219	-48.25	0

1136	192.851	122.611	171.929
1137	192.791	122.588	171.775
1138	192.721	122.566	171.621
1139	192.652	122.543	171.468
1140	192.583	122.521	171.315
1141	192.514	122.498	171.162
1142	192.444	122.475	171.01
1143	192.375	122.452	170.858
1144	192.306	122.43	170.707
1145	192.237	122.406	170.556
1146	192.168	122.383	170.405
1147	192.098	122.36	170.256
1148	192.029	122.336	170.106
1149	191.958	122.312	169.958
1150	191.887	122.288	169.81
1151	191.816	122.264	169.663
1152	191.744	122.239	169.517
1153	191.672	122.214	169.371
1154	191.599	122.188	169.226
1155	191.604	122.188	169.135
1156	191.609	122.187	169.043
1157	191.614	122.186	168.952
1158	191.619	122.185	168.861
1159	191.624	122.184	168.77
1160	191.629	122.183	168.68
1161	191.634	122.181	168.59
1162	191.638	122.18	168.5
1163	191.643	122.179	168.41
1164	191.648	122.178	168.321
1165	191.653	122.176	168.232
1166	191.658	122.175	168.143
1167	191.663	122.173	168.055
1168	191.668	122.172	167.967
1169	191.673	122.17	167.878
1170	191.678	122.169	167.79
1171	191.683	122.167	167.702
1172	191.687	122.165	167.615
1173	191.692	122.164	167.528
1174	191.697	122.162	167.441
1175	191.702	122.16	167.355
1176	191.707	122.158	167.269
1177	191.712	122.156	167.182
1178	191.716	122.154	167.096
1179	191.721	122.152	167.009
1180	191.725	122.15	166.922
1181	191.729	122.148	166.834
1182	191.734	122.148	166.747
1183	191.738	122.144	166.66
1184	191.742	122.141	166.573
1185	191.746	122.139	166.487
1186	191.75	122.137	166.401
1187	191.755	122.134	166.315
1188	191.759	122.132	166.229
1189	191.763	122.129	166.143
1190	191.767	122.127	166.058

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012301



1191	14138.8	75.5219	-48.25	0
1192	14159.8	75.5219	-48.25	0
1193	14180.8	75.5219	-48.25	0
1194	14201.7	75.5219	-48.25	0
1195	14222.7	75.5219	-48.25	0
1196	14243.7	75.5219	-48.25	0
1197	14264.7	75.5219	-48.25	0
1198	14285.7	75.5219	-48.25	0
1199	14306.6	75.5219	-48.25	0
1200	14327.6	75.5219	-48.25	0
1201	14348.5	74.2508	-336.019	-0.744319
1202	14368.7	70.9337	-351.39	-0.941416
1203	14387.9	67.5446	-362.656	-0.941412
1204	14408.2	64.1555	-369.848	-0.941418
1205	14423.5	60.7664	-369.848	-0.941419
1206	14439.9	57.3773	-369.849	-0.941412
1207	14455.4	53.9882	-369.848	-0.941416
1208	14470	51.2653	-198.397	-0.424705
1209	14484.1	50.9117	-52.1585	0
1210	14498.3	50.9117	-52.1585	0
1211	14512.4	50.9117	-52.1585	0
1212	14526.6	50.9117	-52.1585	0
1213	14540.7	50.9117	-52.1585	0
1214	14554.8	50.9117	-36.5924	0
1215	14569	50.9117	-35.1105	0
1216	14583.1	50.9117	-33.6286	0
1217	14597.3	50.9117	-32.1467	0
1218	14611.4	50.9117	-30.6648	0
1219	14625.6	50.9117	-37.4882	0
1220	14639.7	50.9117	-37.4882	0
1221	14653.8	50.9117	-37.4882	0
1222	14668	50.9117	-37.4882	0
1223	14682.1	50.9117	-37.4882	0
1224	14696.3	50.9117	-37.4882	0
1225	14710.4	50.9117	-37.4882	0
1226	14724.6	50.9117	-37.4882	0
1227	14738.7	50.9117	-37.4882	0
1228	14752.8	50.9117	-37.4882	0
1229	14767	50.9117	-37.4882	0
1230	14781.1	50.9117	-37.4607	0
1231	14795.3	50.9117	-31.2978	0
1232	14809.4	50.9117	-24.9376	0
1233	14823.5	50.9117	-18.5774	0
1234	14837.7	50.9117	-12.2172	0
1235	14851.8	50.9117	-5.85693	0
1236	14866	50.9117	0	-1.59E-04
1237	14879.9	48.5624	-369.844	-1.08054
1238	14892.8	44.6145	-369.845	-1.10335
1239	14904.7	40.6159	-369.846	-1.11675
1240	14915.4	38.5713	-369.849	-1.12889
1241	14925	32.5027	-369.851	-1.11815
1242	14933.5	28.482	-369.851	-1.11591
1243	14940.8	24.4687	-369.852	-1.11398
1244	14947	20.4619	-369.852	-1.11233
1245	14952.2	16.4605	-369.852	-1.11097

1191	191.771	122.124	165.973
1192	191.775	122.122	165.888
1193	191.779	122.119	165.804
1194	191.784	122.116	165.72
1195	191.788	122.113	165.635
1196	191.792	122.111	165.552
1197	191.796	122.108	165.468
1198	191.8	122.105	165.385
1199	191.804	122.102	165.302
1200	191.808	122.099	165.219
1201	191.894	122.095	165.493
1202	191.979	122.094	165.761
1203	192.061	122.096	166.014
1204	192.137	122.1	166.246
1205	192.198	122.107	166.451
1206	192.254	122.116	166.643
1207	192.308	122.126	166.825
1208	192.318	122.135	166.82
1209	192.314	122.15	166.754
1210	192.309	122.162	166.687
1211	192.305	122.174	166.621
1212	192.3	122.185	166.555
1213	192.296	122.197	166.49
1214	192.291	122.208	166.422
1215	192.286	122.22	166.355
1216	192.281	122.231	166.288
1217	192.276	122.243	166.221
1218	192.271	122.254	166.154
1219	192.266	122.265	166.088
1220	192.262	122.278	166.022
1221	192.257	122.287	165.956
1222	192.252	122.298	165.891
1223	192.247	122.308	165.826
1224	192.242	122.32	165.761
1225	192.238	122.331	165.697
1226	192.233	122.341	165.633
1227	192.228	122.352	165.569
1228	192.223	122.362	165.505
1229	192.219	122.373	165.441
1230	192.214	122.383	165.378
1231	192.209	122.394	165.314
1232	192.204	122.403	165.249
1233	192.187	122.406	165.164
1234	192.159	122.402	165.06
1235	192.121	122.391	164.937
1236	192.072	122.373	164.796
1237	192.121	122.384	164.959
1238	192.168	122.397	165.113
1239	192.219	122.412	165.269
1240	192.266	122.43	165.422
1241	192.318	122.448	165.583
1242	192.377	122.463	165.751
1243	192.431	122.478	165.918
1244	192.472	122.491	166.06
1245	192.512	122.505	166.205

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application xls

ALSTOM

00012302

1246	14956.2	12.4835	-369.852	-1.10991
1247	14959.1	8.46976	-257.035	-1.10913
1248	14960.8	4.47864	-1.09906	-1.10853
1249	14961.5	1.96036	-0.48108	-0.873226
1250	14962	0	2.91E-14	0
1251	14962	0	2.91E-14	0
1252	14962	0	2.91E-14	0
1253	14962	0	2.91E-14	0
1254	14962	0	2.91E-14	0
1255	14962	0	2.91E-14	0
1256	14962	0	2.91E-14	0
1257	14962	0	2.91E-14	0
1258	14962	0	2.91E-14	0
1259	14962	0	2.91E-14	0
1260	14962	0	2.91E-14	0
1261	14962	0	2.91E-14	0
1262	14962	0	2.91E-14	0
1263	14962	0	2.91E-14	0
1264	14962	0	2.91E-14	0
1265	14962	0	2.91E-14	0
1266	14962	0	2.91E-14	0
1267	14962.1	0.404333	397.182	9.75E-02
1268	14962.7	2.6862	397.182	0.647543
1269	14963.6	5.463	397.181	0.976933
1270	14965.6	8.97925	397.181	0.976701
1271	14968.5	12.4955	397.181	0.976805
1272	14972.5	16.0127	397.181	0.977147
1273	14977.4	19.5316	397.181	0.977707
1274	14983.3	23.0518	397.181	0.977059
1275	14990.2	26.572	397.184	0.978388
1276	14998.1	30.0977	397.054	0.979518
1277	15006.9	33.6011	392.125	0.967168
1278	15016.8	37.0058	384.867	0.908355
1279	15027.5	40.0703	326.688	0.806318
1280	15039	42.8531	304.538	0.747022
1281	15051.3	45.4389	284.979	0.695344
1282	15064.2	47.8114	271.104	0.636
1283	15077.8	49.9995	258.328	0.583617
1284	15092	52.0109	248.259	0.537395
1285	15108.7	53.8882	238.881	0.5048
1286	15121.9	55.6218	230.733	0.461947
1287	15137.6	57.2023	224.14	0.416576
1288	15153.7	58.6104	218.265	0.372317
1289	15170.1	59.8865	212.942	0.338461
1290	15186.9	61.044	209.327	0.307028
1291	15204	62.0996	206.152	0.282315
1292	15221.4	63.1511	202.989	0.262211
1293	15239.1	64.1908	199.862	0.245768
1294	15257.1	65.2018	196.895	0.232793
1295	15275.3	66.2282	194.183	0.223727
1296	15293.9	67.3226	191.292	0.218502
1297	15312.7	68.4764	188.245	0.216563
1298	15331.9	69.6618	185.113	0.216086
1299	15351.4	70.899	181.827	0.216429
1300	15371.3	72.1954	178.375	0.216802

1246	192.547	122.518	166.337
1247	192.567	122.531	166.408
1248	192.562	122.546	166.375
1249	192.557	122.558	166.34
1250	192.548	122.569	166.29
1251	192.538	122.58	166.241
1252	192.529	122.591	166.191
1253	192.52	122.602	166.142
1254	192.511	122.613	166.093
1255	192.502	122.623	166.043
1256	192.493	122.634	165.994
1257	192.484	122.645	165.945
1258	192.475	122.656	165.896
1259	192.465	122.667	165.847
1260	192.456	122.678	165.798
1261	192.447	122.688	165.749
1262	192.438	122.699	165.7
1263	192.429	122.71	165.652
1264	192.42	122.721	165.603
1265	192.411	122.731	165.554
1266	192.402	122.742	165.506
1267	192.449	122.751	165.697
1268	192.496	122.764	165.888
1269	192.543	122.778	166.08
1270	192.587	122.791	166.258
1271	192.63	122.804	166.432
1272	192.675	122.817	166.608
1273	192.727	122.83	166.796
1274	192.786	122.844	166.995
1275	192.852	122.859	167.204
1276	192.919	122.871	167.42
1277	192.99	122.883	167.658
1278	193.057	122.892	167.884
1279	193.115	122.899	168.074
1280	193.166	122.905	168.241
1281	193.21	122.909	168.386
1282	193.25	122.912	168.517
1283	193.287	122.914	168.636
1284	193.321	122.916	168.746
1285	193.352	122.916	168.847
1286	193.382	122.916	168.94
1287	193.41	122.916	169.024
1288	193.436	122.914	169.1
1289	193.462	122.913	169.169
1290	193.489	122.911	169.238
1291	193.517	122.908	169.307
1292	193.547	122.904	169.375
1293	193.578	122.901	169.444
1294	193.611	122.898	169.512
1295	193.644	122.891	169.581
1296	193.677	122.885	169.651
1297	193.71	122.879	169.722
1298	193.744	122.872	169.794
1299	193.778	122.865	169.866
1300	193.812	122.857	169.939

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012303



1301	15391.6	73.5589	174.745	0.388492
1302	15412.2	74.9457	108.174	0.270741
1303	15433	75.0118	0	-3.92E-02
1304	15453.9	74.8723	0	-3.84E-02
1305	15474.6	74.7377	0	-3.67E-02
1306	15495.4	74.5951	0	-4.06E-02
1307	15516.1	74.4459	0	-4.31E-02
1308	15536.7	74.2909	0	-4.30E-02
1309	15557.3	74.1417	0	-4.00E-02
1310	15577.9	73.998	0	-3.99E-02
1311	15598.5	73.8609	0	-3.78E-02
1312	15619	73.7265	0	-3.71E-02
1313	15639.4	73.5942	0	-3.65E-02
1314	15659.8	73.4762	0	-2.33E-02
1315	15680.2	73.4424	0	3.18E-03
1316	15700.7	73.5038	0	2.95E-02
1317	15721.1	73.6598	0	5.59E-02
1318	15741.8	73.8858	0	7.22E-02
1319	15762.1	74.1955	0	9.86E-02
1320	15782.8	74.6005	0	0.125246
1321	15803.6	75.0847	-24.3226	0.115317
1322	15824.5	75.1076	-56.166	0
1323	15845.3	75.1076	-45.807	0
1324	15866.2	75.1076	-35.448	0
1325	15887	75.1076	-24.8611	0
1326	15907.9	75.1076	-14.7295	0
1327	15928.8	75.1076	-5.07847	0
1328	15949.6	75.0987	0	-1.03E-02
1329	15970.5	75.0198	0	-2.74E-02
1330	15991.3	74.9265	0	-2.46E-02
1331	16012	73.7314	-319.382	-0.788516
1332	16032	70.0048	-355.694	-1.08257
1333	16050.9	66.1098	-366.711	-1.08187
1334	16068.8	62.215	-369.848	-1.08186
1335	16085.5	58.4644	-313.796	-0.853373
1336	16101.5	56.9241	-2.18935	-5.27E-02
1337	16117.3	56.8649	0	-1.70E-02
1338	16133	56.7997	0	-1.91E-02
1339	16148.8	56.7272	0	-2.11E-02
1340	16164.8	56.6475	0	-2.31E-02
1341	16180.3	56.503	0	-5.62E-02
1342	16195.9	56.2907	0	-6.14E-02
1343	16211.6	56.0594	0	-6.67E-02
1344	16227.1	55.8129	0	-7.00E-02
1345	16242.6	55.5569	0	-6.49E-02
1346	16258	55.3467	0	-5.84E-02
1347	16273.3	55.1367	0	-5.83E-02
1348	16288.6	54.9271	0	-5.82E-02
1349	16303.8	54.7177	0	-5.81E-02
1350	16319	54.5086	0	-5.81E-02
1351	16334.1	54.3037	0	-5.49E-02
1352	16349.2	54.1085	0	-5.58E-02
1353	16364.2	53.8633	0	-8.81E-02
1354	16379.1	53.8185	0	-8.80E-02
1355	16393.9	53.3508	0	-8.66E-02

1301	193.846	122.848	170.013
1302	193.854	122.830	169.969
1303	193.78	122.814	169.824
1304	193.706	122.789	169.679
1305	193.632	122.764	169.535
1306	193.559	122.74	169.39
1307	193.486	122.715	169.246
1308	193.413	122.69	169.103
1309	193.34	122.665	168.959
1310	193.267	122.64	168.816
1311	193.195	122.615	168.673
1312	193.123	122.59	168.53
1313	193.051	122.565	168.388
1314	192.979	122.539	168.246
1315	192.907	122.514	168.104
1316	192.836	122.489	167.963
1317	192.764	122.464	167.822
1318	192.692	122.438	167.682
1319	192.619	122.412	167.542
1320	192.547	122.386	167.403
1321	192.549	122.385	167.31
1322	192.553	122.383	167.224
1323	192.556	122.381	167.136
1324	192.559	122.38	167.045
1325	192.561	122.378	166.953
1326	192.555	122.373	166.856
1327	192.505	122.354	166.733
1328	192.431	122.327	166.596
1329	192.358	122.301	166.46
1330	192.285	122.274	166.324
1331	192.361	122.272	166.551
1332	192.445	122.272	166.816
1333	192.525	122.275	167.06
1334	192.592	122.281	167.274
1335	192.63	122.29	167.386
1336	192.581	122.274	167.245
1337	192.526	122.256	167.098
1338	192.471	122.237	166.951
1339	192.417	122.219	166.805
1340	192.363	122.2	166.659
1341	192.309	122.182	166.514
1342	192.255	122.163	166.368
1343	192.201	122.145	166.224
1344	192.148	122.126	166.079
1345	192.095	122.108	165.935
1346	192.042	122.089	165.791
1347	191.989	122.071	165.648
1348	191.937	122.052	165.504
1349	191.884	122.034	165.362
1350	191.832	122.015	165.219
1351	191.78	121.997	165.077
1352	191.729	121.979	164.935
1353	191.677	121.96	164.794
1354	191.626	121.942	164.653
1355	191.575	121.923	164.512

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012304

1356	16408.7	53.0428	0	-8.54E-02
1357	16423.4	52.7662	0	-5.74E-02
1358	16438	52.5596	0	-5.74E-02
1359	16452.5	50.5843	-369.845	-1.12955
1360	16466	48.5478	-369.845	-1.11348
1361	16478.4	42.5444	-369.845	-1.11087
1362	16489.6	38.55	-369.847	-1.10849
1363	16499.8	34.5637	-369.851	-1.10535
1364	16508.8	30.5848	-369.851	-1.10444
1365	16516.8	26.6123	-369.851	-1.10276
1366	16523.6	22.6454	-369.852	-1.10131
1367	16529.4	18.6832	-369.852	-1.10011
1368	16534	14.7233	-369.852	-1.1
1369	16537.5	10.7633	-369.852	-1.09999
1370	16540	6.80343	-134.185	-1.09995
1371	16541.2	3.36081	-0.82474	-1.01732
1372	16541.8	0.982158	-0.24102	-0.764943
1373	16542	0	0	0
1374	16542	0	0	0
1375	16542	0	0	0
1376	16542	0	0	0
1377	16542	0	0	0
1378	16542	0	0	0
1379	16542	0	0	0
1380	16542	0	0	0
1381	16542	0	0	0
1382	16542	0	0	0
1383	16542	0	0	0
1384	16542	0	0	0
1385	16542	0	0	0
1386	16542	0	0	0
1387	16542	0	0	0
1388	16542	0	0	0
1389	16542	0	0	0
1390	16542.3	1.34533	397.182	0.326319
1391	16542.9	3.63684	397.182	0.882139
1392	16544.3	6.94902	397.181	0.984675
1393	16546.7	10.4917	397.181	0.983864
1394	16550.1	14.032	397.181	0.983173
1395	16554.5	17.5898	397.181	0.98245
1396	16559.8	21.105	397.181	0.981683
1397	16566.2	24.6374	397.181	0.980868
1398	16573.5	28.1668	397.188	0.98002
1399	16581.8	31.6891	394.815	0.974556
1400	16591.1	35.1705	388.007	0.960658
1401	16601.4	38.4368	346.826	0.85981
1402	16612.4	41.3548	316.396	0.777713
1403	16624.3	44.0464	295.093	0.72259
1404	16636.9	46.5564	278.444	0.679645
1405	16650.2	48.9409	264.498	0.647756
1406	16664.1	51.2168	252.226	0.620011
1407	16678.6	53.4028	241.305	0.596281
1408	16693.7	55.5064	231.215	0.574585
1409	16709.4	57.5418	222.723	0.557432
1410	16725.7	59.5172	214.482	0.541105

1356	191.525	121.906	164.372
1357	191.475	121.887	164.232
1358	191.424	121.869	164.092
1359	191.474	121.879	164.263
1360	191.522	121.891	164.421
1361	191.571	121.906	164.576
1362	191.621	121.923	164.731
1363	191.667	121.942	164.884
1364	191.725	121.959	165.05
1365	191.782	121.974	165.22
1366	191.83	121.988	165.376
1367	191.87	122.002	165.517
1368	191.91	122.015	165.664
1369	191.942	122.028	165.785
1370	191.949	122.042	165.806
1371	191.944	122.057	165.772
1372	191.94	122.087	165.738
1373	191.931	122.077	165.689
1374	191.921	122.085	165.639
1375	191.912	122.099	165.59
1376	191.903	122.11	165.541
1377	191.894	122.121	165.491
1378	191.885	122.132	165.442
1379	191.876	122.143	165.393
1380	191.867	122.154	165.344
1381	191.858	122.165	165.295
1382	191.849	122.176	165.246
1383	191.839	122.186	165.197
1384	191.83	122.197	165.149
1385	191.821	122.208	165.1
1386	191.812	122.219	165.051
1387	191.803	122.229	165.003
1388	191.794	122.24	164.954
1389	191.785	122.251	164.906
1390	191.832	122.261	165.097
1391	191.879	122.276	165.289
1392	191.925	122.29	165.475
1393	191.968	122.303	165.649
1394	192.011	122.315	165.823
1395	192.059	122.328	166.004
1396	192.114	122.342	166.197
1397	192.177	122.357	166.402
1398	192.243	122.371	166.614
1399	192.313	122.383	166.84
1400	192.384	122.394	167.088
1401	192.447	122.402	167.298
1402	192.502	122.409	167.477
1403	192.549	122.414	167.633
1404	192.592	122.418	167.772
1405	192.63	122.421	167.887
1406	192.665	122.423	168.0
1407	192.697	122.424	168.114
1408	192.727	122.425	168.208
1409	192.754	122.424	168.291
1410	192.78	122.423	168.362

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012305



1411	16742.5	61.4406	208.135	0.529415
1412	16759.8	63.3283	202.456	0.519932
1413	18777.7	65.1819	196.947	0.509436
1414	16796	66.9915	192.167	0.496615
1415	18814.9	68.7555	187.507	0.484106
1416	16834.2	70.4751	182.955	0.47188
1417	16854	72.1511	178.493	0.459884
1418	16874.3	73.7845	174.144	0.448182
1419	16895	75.3763	169.907	0.43677
1420	16916.2	76.9277	165.779	0.425644
1421	16937.8	78.4369	161.763	0.412446
1422	16959.7	79.195	0	-8.44E-05
1423	16981.7	79.1877	0	-4.33E-03
1424	17003.7	79.1641	0	-8.59E-03
1425	17025.7	79.1252	0	-1.28E-02
1426	17047.7	79.071	0	-1.71E-02
1427	17069.6	79.0018	0	-2.05E-02
1428	17091.5	78.928	0	-2.05E-02
1429	17113.5	78.8542	0	-2.05E-02
1430	17135.4	78.7806	0	-2.04E-02
1431	17157.2	78.7071	0	-2.04E-02
1432	17179.1	78.6338	0	-2.04E-02
1433	17200.9	78.5605	0	-2.03E-02
1434	17222.7	78.4874	0	-2.03E-02
1435	17244.5	78.4144	0	-2.03E-02
1436	17266.3	78.3415	0	-2.02E-02
1437	17288	78.2644	0	-2.18E-02
1438	17309.8	78.1871	0	-2.02E-02
1439	17331.5	78.1146	0	-2.01E-02
1440	17353.2	78.0417	0	-2.03E-02
1441	17374.8	77.9691	0	-2.01E-02
1442	17396.5	77.897	0	-2.00E-02
1443	17418.1	77.825	0	-2.00E-02
1444	17439.7	77.7531	0	-2.00E-02
1445	17461.3	77.6813	0	-1.99E-02
1446	17482.9	77.6096	0	-1.99E-02
1447	17504.4	77.5381	0	-1.99E-02
1448	17525.9	77.4667	0	-1.98E-02
1449	17547.5	77.3954	0	-1.98E-02
1450	17568.9	77.3242	0	-1.98E-02
1451	17590.4	77.2531	0	-1.97E-02
1452	17611.9	77.1822	0	-1.97E-02
1453	17633.3	77.1114	0	-1.97E-02
1454	17654.7	77.0407	0	-1.96E-02
1455	17676.1	76.9701	0	-1.96E-02
1456	17697.5	76.8996	0	-1.96E-02
1457	17718.8	76.8292	0	-1.95E-02
1458	17740.1	76.759	0	-1.95E-02
1459	17761.5	76.6888	0	-1.95E-02
1460	17782.8	76.6188	0	-1.94E-02
1461	17804	76.5489	0	-1.94E-02
1462	17825.3	76.4792	0	-1.94E-02
1463	17846.5	76.4095	0	-1.93E-02
1464	17867.7	76.3399	0	-1.93E-02
1465	17888.9	76.2641	0	-2.65E-02

1411	192.808	122.421	168.432
1412	192.838	122.417	168.501
1413	192.871	122.413	168.571
1414	192.904	122.408	168.642
1415	192.938	122.401	168.714
1416	192.972	122.394	168.788
1417	193.006	122.386	168.862
1418	193.041	122.377	168.937
1419	193.076	122.367	169.013
1420	193.111	122.356	169.088
1421	193.147	122.345	169.164
1422	193.068	122.319	169.024
1423	192.989	122.293	168.883
1424	192.91	122.267	168.744
1425	192.831	122.24	168.604
1426	192.753	122.214	168.465
1427	192.674	122.188	168.326
1428	192.596	122.161	168.187
1429	192.517	122.135	168.049
1430	192.439	122.109	167.911
1431	192.361	122.082	167.773
1432	192.284	122.055	167.636
1433	192.206	122.029	167.498
1434	192.128	122.002	167.361
1435	192.051	121.975	167.225
1436	191.974	121.949	167.088
1437	191.897	121.922	166.952
1438	191.82	121.895	166.816
1439	191.743	121.868	166.68
1440	191.667	121.841	166.545
1441	191.59	121.814	166.409
1442	191.514	121.787	166.274
1443	191.438	121.76	166.14
1444	191.362	121.733	166.005
1445	191.286	121.705	165.871
1446	191.21	121.678	165.737
1447	191.134	121.651	165.604
1448	191.059	121.624	165.471
1449	190.984	121.596	165.337
1450	190.908	121.569	165.205
1451	190.833	121.541	165.072
1452	190.759	121.514	164.94
1453	190.684	121.486	164.808
1454	190.609	121.459	164.676
1455	190.535	121.431	164.544
1456	190.46	121.404	164.413
1457	190.386	121.376	164.282
1458	190.312	121.348	164.151
1459	190.238	121.32	164.021
1460	190.164	121.292	163.89
1461	190.091	121.265	163.76
1462	190.017	121.237	163.631
1463	189.944	121.209	163.501
1464	189.87	121.181	163.372
1465	189.797	121.153	163.243

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012006

1466	17910.1	76.1378	0	-4.29E-02
1467	17931.2	75.9526	0	-5.92E-02
1468	17952.3	75.7087	0	-7.55E-02
1469	17973.3	75.4064	0	-9.16E-02
1470	17994.2	75.0462	0	-0.107712
1471	18015	74.6283	0	-0.123672
1472	18035.6	74.1716	0	-0.127072
1473	18056.2	73.7146	0	-0.126868
1474	18076.6	73.2582	0	-0.126666
1475	18096.9	72.8045	0	-0.123056
1476	18117	72.3866	0	-0.10982
1477	18137.1	72.0161	0	-9.67E-02
1478	18157	71.6927	0	-8.36E-02
1479	18176.9	71.4163	0	-7.06E-02
1480	18196.7	71.1865	0	-5.77E-02
1481	18216.5	71.0031	0	-4.48E-02
1482	18236.2	70.8643	0	-3.50E-02
1483	18255.6	70.7384	0	-3.49E-02
1484	18275.5	70.6127	0	-3.49E-02
1485	18295.1	70.4873	0	-3.48E-02
1486	18314.6	70.382	0	-3.48E-02
1487	18334	68.0898	-361.115	-1.09999
1488	18352.4	64.1299	-369.848	-1.09999
1489	18369.6	60.1699	-369.849	-1.1
1490	18385.8	56.2099	-369.849	-1.09999
1491	18400.8	52.25	-369.846	-1.09999
1492	18414.8	48.29	-369.844	-1.09999
1493	18427.7	44.33	-369.845	-1.09999
1494	18439.4	40.3701	-369.846	-1.1
1495	18450.1	36.4101	-369.85	-1.09999
1496	18459.7	32.4502	-369.851	-1.09999
1497	18468.1	28.4902	-369.851	-1.09999
1498	18475.5	24.5302	-369.852	-1.1
1499	18481.8	20.5703	-369.852	-1.09999
1500	18486.9	16.6103	-369.852	-1.09999
1501	18491	12.6503	-369.852	-1.09999
1502	18493.9	8.69037	-273.3	-1.09998
1503	18495.8	4.73078	-1.16094	-1.09985
1504	18496.5	2.11583	-0.51918	-0.885204
1505	18497	0	0	0
1506	18497	0	0	0
1507	18497	0	0	0
1508	18497	0	0	0
1509	18497	0	0	0
1510	18497	0	0	0
1511	18497	0	0	0
1512	18497	0	0	0
1513	18497	0	0	0
1514	18497	0	0	0
1515	18497	0	0	0
1516	18497	0	0	0
1517	18497	0	0	0
1518	18497	0	0	0
1519	18497	0	0	0
1520	18497	0	0	0

1466	189.724	121.125	163.114
1467	189.652	121.097	162.986
1468	189.579	121.069	162.858
1469	189.507	121.041	162.729
1470	189.436	121.013	162.601
1471	189.365	120.985	162.473
1472	189.294	120.958	162.344
1473	189.225	120.93	162.216
1474	189.155	120.903	162.088
1475	189.086	120.875	161.96
1476	189.018	120.848	161.832
1477	188.95	120.821	161.704
1478	188.883	120.794	161.576
1479	188.816	120.767	161.449
1480	188.749	120.74	161.321
1481	188.682	120.713	161.194
1482	188.616	120.686	161.067
1483	188.55	120.659	160.94
1484	188.484	120.632	160.814
1485	188.418	120.605	160.687
1486	188.352	120.578	160.561
1487	188.336	120.577	160.825
1488	188.513	120.58	161.064
1489	188.572	120.585	161.272
1490	188.629	120.582	161.47
1491	188.682	120.601	161.652
1492	188.731	120.612	161.817
1493	188.779	120.625	161.974
1494	188.831	120.641	162.132
1495	188.879	120.659	162.288
1496	188.932	120.676	162.451
1497	188.99	120.691	162.623
1498	189.045	120.706	162.793
1499	189.087	120.719	162.938
1500	189.127	120.732	163.086
1501	189.163	120.745	163.221
1502	189.184	120.758	163.301
1503	189.179	120.772	163.272
1504	189.175	120.784	163.24
1505	189.166	120.794	163.192
1506	189.157	120.805	163.144
1507	189.148	120.816	163.096
1508	189.139	120.826	163.048
1509	189.13	120.837	163
1510	189.121	120.847	162.952
1511	189.112	120.858	162.905
1512	189.103	120.868	162.857
1513	189.094	120.879	162.809
1514	189.085	120.889	162.762
1515	189.076	120.9	162.714
1516	189.068	120.91	162.667
1517	189.059	120.921	162.62
1518	189.05	120.931	162.572
1519	189.041	120.942	162.525
1520	189.032	120.952	162.478

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012307

ALSTOM

1521	18497	0	0	0
1522	18497.1	0.253382	397.182	6.15E-02
1523	18497.6	2.54489	397.182	0.617279
1524	18498.5	5.26001	397.181	0.984957
1525	18500.4	8.8038	397.181	0.984192
1526	18503.3	12.3453	397.181	0.983505
1527	18507.3	15.8843	397.181	0.9828
1528	18512.2	19.4208	397.181	0.982055
1529	18518	22.9545	397.181	0.981263
1530	18524.9	26.4854	397.184	0.980428
1531	18532.8	30.0132	397.067	0.979558
1532	18541.6	33.5176	392.242	0.967491
1533	18551.4	36.9276	385.853	0.908912
1534	18562.1	40.0011	327.173	0.808576
1535	18573.6	42.7884	305.05	0.748347
1536	18585.8	45.3789	285.33	0.696256
1537	18598.8	47.8133	271.093	0.659296
1538	18612.4	50.1188	257.711	0.624346
1539	18626.6	52.3108	248.781	0.595686
1540	18641.4	54.4027	236.311	0.568462
1541	18656.8	56.4024	227.477	0.545088
1542	18672.7	58.3243	219.459	0.524079
1543	18689.2	60.1574	211.995	0.496334
1544	18706.2	61.9156	206.706	0.481383
1545	18723.8	63.6115	201.604	0.462762
1546	18741.5	65.2523	196.761	0.449782
1547	18759.8	66.8622	192.508	0.444763
1548	18778.6	68.442	188.335	0.433662
1549	18797.9	69.9933	184.238	0.427014
1550	18817.5	71.5119	180.195	0.417193
1551	18837.6	72.9861	176.27	0.402219
1552	18858.1	74.4055	172.491	0.388919
1553	18878.9	75.7684	168.863	0.371065
1554	18900.1	76.1863	0	-6.10E-02
1555	18921.2	75.9552	0	-6.71E-02
1556	18942.3	75.7023	0	-7.31E-02
1557	18963.3	75.4284	0	-7.78E-02
1558	18984.2	75.1486	0	-7.77E-02
1559	19005	74.8692	0	-7.75E-02
1560	19025.8	74.5903	0	-7.74E-02
1561	19046.4	74.2988	0	-8.11E-02
1562	19067	74.0068	0	-8.10E-02
1563	19087.6	73.7154	0	-8.08E-02
1564	19108	73.4298	0	-7.80E-02
1565	19128.4	73.15	0	-7.75E-02
1566	19148.6	72.872	0	-7.70E-02
1567	19168.8	72.5956	0	-7.65E-02
1568	19189	72.3204	0	-7.64E-02
1569	19209	72.0455	0	-7.63E-02
1570	19229	71.7711	0	-7.62E-02
1571	19248.9	71.4971	0	-7.61E-02
1572	19268.7	71.2236	0	-7.59E-02
1573	19288.5	70.9504	0	-7.58E-02
1574	19308.1	70.6777	0	-7.57E-02
1575	19327.7	70.4078	0	-7.30E-02

1521	189.023	120.962	162.431
1522	189.071	120.97	162.624
1523	189.118	120.983	162.817
1524	189.165	120.997	163.011
1525	189.209	121.01	163.191
1526	189.252	121.022	163.366
1527	189.297	121.035	163.544
1528	189.348	121.048	163.733
1529	189.408	121.062	163.934
1530	189.473	121.076	164.145
1531	189.541	121.088	164.362
1532	189.612	121.1	164.602
1533	189.679	121.109	164.831
1534	189.739	121.116	165.024
1535	189.79	121.122	165.193
1536	189.835	121.127	165.341
1537	189.876	121.13	165.474
1538	189.913	121.132	165.595
1539	189.947	121.134	165.706
1540	189.979	121.134	165.807
1541	190.008	121.134	165.899
1542	190.037	121.133	165.979
1543	190.063	121.131	166.051
1544	190.092	121.129	166.123
1545	190.124	121.125	166.194
1546	190.158	121.121	166.266
1547	190.192	121.116	166.339
1548	190.227	121.109	166.413
1549	190.262	121.102	166.489
1550	190.297	121.095	166.565
1551	190.333	121.086	166.641
1552	190.369	121.077	166.719
1553	190.405	121.067	166.796
1554	190.332	121.042	166.656
1555	190.258	121.017	166.517
1556	190.185	120.992	166.377
1557	190.112	120.967	166.238
1558	190.04	120.942	166.099
1559	189.968	120.917	165.96
1560	189.896	120.892	165.821
1561	189.825	120.867	165.682
1562	189.754	120.842	165.543
1563	189.684	120.817	165.405
1564	189.614	120.792	165.267
1565	189.544	120.768	165.128
1566	189.475	120.743	164.991
1567	189.406	120.718	164.853
1568	189.337	120.694	164.715
1569	189.269	120.669	164.578
1570	189.201	120.645	164.441
1571	189.133	120.62	164.304
1572	189.066	120.596	164.167
1573	188.999	120.571	164.03
1574	188.932	120.547	163.894
1575	188.866	120.522	163.757

1576	19347.2	70.1561	0	-8.72E-02
1577	19366.7	69.9251	0	-8.14E-02
1578	19385.7	68.597	-1.12127	
1579	19403.7	62.5705	-369.848	-1.11604
1580	19420.5	58.5621	-369.849	-1.11114
1581	19436.2	54.5709	-369.849	-1.10657
1582	19450.8	50.5955	-369.845	-1.10232
1583	19464.3	46.6334	-369.845	-1.09999
1584	19476.7	42.6735	-369.845	-1.09999
1585	19488	38.7135	-369.847	-1.09999
1586	19498.2	34.7535	-369.851	-1.1
1587	19507.3	30.7936	-369.851	-1.09999
1588	19515.3	26.8336	-369.851	-1.09999
1589	19522.2	22.8736	-369.852	-1.09999
1590	19528.1	18.9137	-369.852	-1.09999
1591	19532.8	14.9537	-369.852	-1.1
1592	19536.3	10.9937	-369.852	-1.09999
1593	19538.8	7.03384	-151.172	-1.09996
1594	19540.2	3.49222	-0.55571	-1.032
1595	19540.7	1.12057	-0.27499	-0.779628
1596	19541	0	0	0
1597	19541	0	0	0
1598	19541	0	0	0
1599	19541	0	0	0
1600	19541	0	0	0
1601	19541	0	0	0
1602	19541	0	0	0
1603	19541	0	0	0
1604	19541	0	0	0
1605	19541	0	0	0
1606	19541	0	0	0
1607	19541	0	0	0
1608	19541	0	0	0
1609	19541	0	0	0
1610	19541	0	0	0
1611	19541	0	0	0
1612	19541	0	0	0
1613	19541.3	1.21199	397.182	0.293977
1614	19541.9	3.5035	397.182	0.849796
1615	19543.2	6.74283	397.181	0.984819
1616	19545.5	10.2856	397.181	0.983903
1617	19548.9	13.8261	397.181	0.983214
1618	19553.2	17.364	397.181	0.982494
1619	19558.5	20.8994	397.181	0.981729
1620	19564.8	24.432	397.181	0.980917
1621	19572.1	27.9615	397.187	0.980078
1622	19580.3	31.4908	395.094	0.978492
1623	19589.6	34.994	389.213	0.988848
1624	19599.8	38.3111	348.411	0.875178
1625	19610.8	41.2889	316.917	0.795157
1626	19622.7	44.0501	295.063	0.743619
1627	19635.3	46.6426	277.939	0.703462
1628	19648.6	49.0371	263.936	0.643889
1629	19662.5	51.2973	251.824	0.615231
1630	19677.1	53.4641	241	0.590374

1576	188.8	120.498	163.621
1577	188.734	120.474	163.486
1578	188.816	120.476	163.734
1579	188.885	120.482	163.954
1580	188.944	120.491	164.149
1581	188.999	120.501	164.336
1582	189.049	120.513	164.501
1583	189.097	120.527	164.654
1584	189.147	120.544	164.804
1585	189.197	120.563	164.953
1586	189.243	120.583	165.101
1587	189.301	120.602	165.261
1588	189.358	120.619	165.426
1589	189.407	120.636	165.577
1590	189.447	120.65	165.713
1591	189.488	120.665	165.856
1592	189.52	120.68	165.974
1593	189.53	120.695	165.998
1594	189.525	120.711	165.96
1595	189.52	120.722	165.922
1596	189.511	120.733	165.871
1597	189.502	120.744	165.82
1598	189.493	120.756	165.769
1599	189.484	120.767	165.718
1600	189.475	120.778	165.667
1601	189.466	120.789	165.616
1602	189.457	120.801	165.565
1603	189.448	120.812	165.514
1604	189.439	120.823	165.464
1605	189.43	120.834	165.413
1606	189.421	120.845	165.363
1607	189.412	120.857	165.312
1608	189.404	120.868	165.262
1609	189.395	120.879	165.211
1610	189.386	120.89	165.161
1611	189.377	120.901	165.111
1612	189.368	120.912	165.061
1613	189.415	120.923	165.249
1614	189.462	120.939	165.436
1615	189.508	120.954	165.619
1616	189.55	120.968	165.789
1617	189.594	120.982	165.958
1618	189.641	120.997	166.133
1619	189.696	121.012	166.301
1620	188.759	121.029	166.521
1621	188.825	121.044	166.728
1622	188.894	121.058	166.947
1623	189.966	121.071	167.19
1624	190.03	121.081	167.397
1625	190.085	121.089	167.572
1626	190.133	121.095	167.723
1627	190.175	121.102	167.857
1628	190.214	121.107	167.977
1629	190.249	121.11	168.085
1630	190.282	121.113	168.184

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012309

ALSTOM

1631	19692.2	55.5443	231.057	0.587829
1632	19707.9	57.5524	222.679	0.549263
1633	19724.2	59.4517	117.247	0.345461
1634	19740.7	59.6992	-0.63502	0
1635	19757.3	59.6992	-0.63502	0
1636	19773.8	59.6992	-0.63502	0
1637	19790.5	59.6992	-0.63502	0
1638	19807.1	59.6992	-0.63502	0
1639	19823.7	59.6992	-0.63502	0
1640	19840.2	59.6992	-0.63502	0
1641	19856.8	59.6992	-0.63502	0
1642	19873.4	59.6992	-0.63502	0
1643	19890	59.6992	-0.63502	0
1644	19906.6	59.6992	-0.63502	0
1645	19923.2	59.6992	-0.63502	0
1646	19939.7	59.6992	-0.63502	0
1647	19956.3	59.6992	-0.63502	0
1648	19972.9	59.6992	-0.63502	0
1649	19989.5	59.6992	-0.63502	0
1650	20006.1	59.6992	-0.63502	0
1651	20022.7	59.6994	-4.24816	1.83E-03
1652	20039.2	59.6992	-1.521	0
1653	20055.8	59.6981	0	-1.75E-03
1654	20072.4	59.6904	0	-7.68E-03
1655	20089	59.6415	0	-1.38E-02
1656	20105.6	60.7435	210.232	0.507802
1657	20122.8	62.5257	204.87	0.483915
1658	20140.4	64.2234	199.783	0.480629
1659	20158.4	65.8405	195.207	0.441252
1660	20176.9	67.4079	191.067	0.430147
1661	20195.9	68.9358	187.031	0.419312
1662	20215.2	70.4253	183.088	0.408723
1663	20235	71.877	179.223	0.398335
1664	20255.2	73.2918	175.456	0.388203
1665	20275.7	74.6706	171.785	0.378322
1666	20296.6	76.0143	168.209	0.368688
1667	20317.9	77.3238	164.725	0.359295
1668	20339.6	78.6	161.329	0.350134
1669	20361.6	79.8355	121.045	0.283771
1670	20383.8	79.8533	0	-5.72E-02
1671	20405.9	78.4648	-316.503	-0.836444
1672	20427.2	74.5955	-334.422	-1.11881
1673	20447.3	70.5405	-353.212	-1.13316
1674	20468.3	66.4352	-365.791	-1.1467
1675	20484.2	62.2827	-369.848	-1.15942
1676	20501	58.3811	-269.82	-0.831005
1677	20518.9	56.9216	3.48378	-3.04E-02
1678	20532.7	56.4989	0	-0.123143
1679	20548.3	56.0345	0	-0.1341
1680	20563.8	55.531	0	-0.144949
1681	20579.1	55.0036	0	-0.146479
1682	20594.3	54.4237	0	-0.177356
1683	20609.4	53.7796	0	-0.180297
1684	20624.2	53.1249	0	-0.183198
1685	20638.9	52.4599	0	-0.186058

1631	190.312	121.115	168.274
1632	190.341	121.117	168.352
1633	190.337	121.118	168.288
1634	190.282	121.101	168.137
1635	190.227	121.085	167.987
1636	190.172	121.068	167.836
1637	190.117	121.051	167.686
1638	190.062	121.034	167.537
1639	190.007	121.017	167.388
1640	189.952	121	167.239
1641	189.897	120.983	167.091
1642	189.843	120.966	166.943
1643	189.788	120.948	166.796
1644	189.733	120.931	166.649
1645	189.678	120.913	166.503
1646	189.623	120.895	166.357
1647	189.569	120.878	166.211
1648	189.514	120.86	166.066
1649	189.459	120.842	165.921
1650	189.405	120.824	165.776
1651	189.359	120.811	165.642
1652	189.306	120.794	165.501
1653	189.25	120.774	165.358
1654	189.194	120.755	165.212
1655	189.138	120.736	165.068
1656	189.166	120.734	165.141
1657	189.197	120.731	165.214
1658	189.23	120.727	165.287
1659	189.264	120.722	165.36
1660	189.299	120.716	165.435
1661	189.334	120.709	165.51
1662	189.369	120.702	165.587
1663	189.405	120.693	165.665
1664	189.442	120.684	165.743
1665	189.478	120.675	165.821
1666	189.515	120.665	165.9
1667	189.552	120.654	165.979
1668	189.59	120.642	166.057
1669	189.609	120.631	166.053
1670	189.531	120.605	165.917
1671	189.619	120.602	166.188
1672	189.706	120.601	166.455
1673	189.791	120.603	166.716
1674	189.872	120.609	166.956
1675	189.94	120.617	167.165
1676	189.966	120.628	167.22
1677	189.925	120.618	167.081
1678	189.871	120.603	166.929
1679	189.818	120.587	166.778
1680	189.766	120.571	166.626
1681	189.714	120.555	166.475
1682	189.662	120.54	166.324
1683	189.611	120.525	166.173
1684	189.561	120.51	166.023
1685	189.512	120.495	165.873

3573

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012810

ALSTOM

1686	20653.4	51.7846	0	-0.188877
1687	20667.6	51.1423	0	-0.174633
1688	20681.8	50.5139	0	-0.174445
1689	20695.7	49.8863	0	-0.174229
1690	20709.5	49.2595	0	-0.174015
1691	20723.1	48.6334	0	-0.173803
1692	20736.5	48.0082	0	-0.173593
1693	20749.7	47.3836	0	-0.173385
1694	20762.8	46.7598	0	-0.173178
1695	20775.7	46.1368	0	-0.172974
1696	20788.5	45.5186	36.5424	-0.143963
1697	20801.2	46.4048	279.33	0.532699
1698	20814.3	46.2675	268.437	0.504446
1699	20828	50.0371	258.122	0.483238
1700	20842.1	51.7557	249.534	0.472636
1701	20856.7	53.4388	241.127	0.463083
1702	20871.8	54.4166	-369.848	-1.06116
1703	20886.3	50.1351	-369.844	-1.19265
1704	20899.6	45.8636	-369.845	-1.18143
1705	20911.8	41.8306	-369.846	-1.1712
1706	20922.8	37.4327	-369.849	-1.16196
1707	20932.6	33.2663	-369.851	-1.1537
1708	20941.2	29.1433	-369.851	-1.13118
1709	20948.8	25.0878	-369.852	-1.12328
1710	20955.2	21.0582	-369.852	-1.11651
1711	20960.5	17.0511	-369.852	-1.11094
1712	20964.7	13.0561	-369.852	-1.10937
1713	20967.7	9.06403	-300.848	-1.10872
1714	20969.6	5.07416	-6.69437	-1.1082
1715	20970.4	2.31618	-0.56839	-0.911364
1716	20971	0	0	0
1717	20971	0	0	0
1718	20971	0	0	0
1719	20971	0	0	0
1720	20971	0	0	0
1721	20971	0	0	0
1722	20971	0	0	0
1723	20971	0	0	0
1724	20971	0	0	0
1725	20971	0	0	0
1726	20971	0	0	0
1727	20971	0	0	0
1728	20971	0	0	0
1729	20971	0	0	0
1730	20971	0	0	0
1731	20971	0	0	0
1732	20971	0	0	0
1733	20971	6.34E-02	397.182	1.53E-02
1734	20971.6	2.34563	397.182	0.565572
1735	20972.4	4.93863	397.181	0.977274
1736	20974.2	8.45569	397.181	0.976886
1737	20977	11.9722	397.181	0.976802
1738	20980.8	15.4888	397.181	0.976911
1739	20985.6	19.0063	397.181	0.977186
1740	20991.4	22.5251	397.181	0.977622

1686	183.463	120.481	165.723
1687	189.414	120.466	165.573
1688	189.367	120.452	165.423
1689	189.32	120.438	165.274
1690	189.273	120.424	165.125
1691	189.227	120.41	164.976
1692	189.182	120.397	164.828
1693	189.137	120.384	164.68
1694	189.093	120.371	164.532
1695	189.049	120.358	164.385
1696	189.04	120.384	164.301
1697	189.083	120.389	164.443
1698	189.123	120.372	164.574
1699	189.16	120.375	164.695
1700	189.195	120.378	164.808
1701	189.228	120.38	164.914
1702	189.283	120.391	165.097
1703	189.332	120.404	165.258
1704	189.38	120.42	165.406
1705	189.43	120.438	165.554
1706	189.478	120.458	165.701
1707	189.528	120.479	165.85
1708	189.588	120.498	166.011
1709	189.644	120.515	166.174
1710	189.687	120.531	166.312
1711	189.727	120.547	166.449
1712	189.763	120.562	166.578
1713	189.787	120.578	166.66
1714	189.783	120.594	166.624
1715	189.778	120.608	166.584
1716	189.769	120.62	166.532
1717	189.76	120.631	166.48
1718	189.751	120.643	166.428
1719	189.742	120.654	166.378
1720	189.733	120.666	166.324
1721	189.724	120.677	166.272
1722	189.715	120.689	166.221
1723	189.706	120.7	166.169
1724	189.696	120.712	166.118
1725	189.687	120.723	166.066
1726	189.678	120.734	166.015
1727	189.669	120.746	165.963
1728	189.66	120.757	165.912
1729	189.651	120.768	165.861
1730	189.642	120.78	165.81
1731	189.633	120.791	165.759
1732	189.625	120.802	165.708
1733	189.672	120.812	165.694
1734	189.719	120.826	166.079
1735	189.767	120.842	166.267
1736	189.811	120.858	166.441
1737	189.854	120.873	166.608
1738	189.898	120.887	166.776
1739	189.948	120.903	166.958
1740	190.007	120.92	167.147

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application xls

00912911



1741	20998.1	26.0457	397.183	0.978217
1742	21005.9	29.5688	397.191	0.978986
1743	21014.6	33.0783	392.88	0.969188
1744	21024.2	36.5143	371.065	0.922429
1745	21034.8	39.633	331.745	0.820579
1746	21046.2	42.4483	307.742	0.755313
1747	21058.4	45.0624	287.197	0.701792
1748	21071.2	47.5137	272.845	0.663844
1749	21084.8	49.8351	259.289	0.628605
1750	21098.9	52.0315	248.157	0.59429
1751	21113.7	54.1077	237.785	0.561528
1752	21129	56.0706	228.861	0.531889
1753	21144.7	56.8658	0	-5.22E-02
1754	21160.5	56.8685	0	-5.82E-02
1755	21176.2	56.4454	0	-8.42E-02
1756	21191.8	56.1189	0	-0.102132
1757	21207.4	55.7335	0	-0.111304
1758	21222.8	55.3154	0	-0.120398
1759	21238.1	54.8719	0	-0.124716
1760	21253.3	54.4288	0	-0.112396
1761	21268.3	54.0245	0	-0.112249
1762	21283.3	53.6207	0	-0.112104
1763	21298.1	53.2174	0	-0.11196
1764	21312.8	52.8146	0	-0.111816
1765	21327.5	52.4123	0	-0.111674
1766	21342	52.0126	0	-0.109216
1767	21356.4	51.6304	0	-0.103491
1768	21370.7	51.2688	0	-9.78E-02
1769	21384.8	50.932	0	-8.89E-02
1770	21398.9	50.6258	0	-8.18E-02
1771	21413	50.3092	0	-9.08E-02
1772	21426.9	49.9936	0	-8.51E-02
1773	21440.8	50.0393	176.753	0.30821
1774	21454.9	51.9099	248.764	0.552289
1775	21469.6	53.8543	239.051	0.529604
1776	21484.8	55.756	230.173	0.522519
1777	21500.5	56.8871	0	-5.89E-02
1778	21516.3	56.6751	0	-5.88E-02
1779	21532	56.4634	0	-5.88E-02
1780	21547.7	56.252	0	-5.87E-02
1781	21563.3	56.0409	0	-5.86E-02
1782	21578.8	54.907	-369.849	-0.95883
1783	21593.5	50.8916	-369.845	-1.12955
1784	21607	46.8467	-369.845	-1.11383
1785	21619.5	42.8421	-369.845	-1.1112
1786	21630.8	38.8465	-369.847	-1.10881
1787	21641.1	34.8592	-369.851	-1.10665
1788	21650.2	30.8792	-369.851	-1.10472
1789	21658.2	26.9057	-369.851	-1.10302
1790	21665.1	22.9379	-369.852	-1.10156
1791	21671	18.9749	-369.852	-1.10033
1792	21675.7	15.0148	-369.852	-1.1
1793	21679.3	11.0549	-369.852	-1.09999
1794	21681.8	7.09496	-155.678	-1.09996
1795	21683.1	3.53593	-0.86772	-1.0359

1741	190.072	120.937	167.348
1742	190.139	120.952	167.555
1743	190.209	120.966	167.783
1744	190.277	120.978	168.008
1745	190.337	120.989	168.196
1746	190.389	120.998	168.359
1747	190.434	121.005	168.5
1748	190.475	121.011	168.626
1749	190.512	121.016	168.739
1750	190.546	121.02	168.842
1751	190.578	121.024	168.936
1752	190.607	121.027	169.02
1753	190.553	121.011	168.863
1754	190.5	120.996	168.708
1755	190.446	120.981	168.55
1756	190.393	120.965	168.394
1757	190.34	120.95	168.239
1758	190.288	120.935	168.083
1759	190.236	120.92	167.929
1760	190.184	120.905	167.774
1761	190.133	120.89	167.62
1762	190.082	120.875	167.466
1763	190.032	120.861	167.313
1764	189.982	120.846	167.159
1765	189.932	120.831	167.007
1766	189.883	120.817	166.854
1767	189.834	120.803	166.702
1768	189.785	120.788	166.55
1769	189.737	120.774	166.398
1770	189.69	120.76	166.247
1771	189.642	120.746	166.096
1772	189.595	120.731	165.948
1773	189.604	120.735	165.944
1774	189.639	120.738	166.055
1775	189.671	120.74	166.156
1776	189.701	120.741	166.249
1777	189.648	120.724	166.1
1778	189.594	120.707	165.952
1779	189.541	120.69	165.803
1780	189.488	120.673	165.656
1781	189.438	120.656	165.508
1782	189.492	120.667	165.693
1783	189.542	120.68	165.857
1784	189.59	120.694	166.007
1785	189.639	120.712	166.154
1786	189.689	120.731	166.3
1787	189.735	120.753	166.444
1788	189.792	120.772	166.601
1789	189.85	120.79	166.762
1790	189.899	120.807	166.911
1791	189.939	120.823	167.044
1792	189.98	120.839	167.185
1793	190.012	120.854	167.3
1794	190.022	120.87	167.323
1795	190.017	120.886	167.282

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012812



1796	21683.7	1.15728	-0.284	-0.783523
1797	21684	0	0	0
1798	21684	0	0	0
1799	21684	0	0	0
1800	21684	0	0	0
1801	21684	0	0	0
1802	21684	0	0	0
1803	21684	0	0	0
1804	21684	0	0	0
1805	21684	0	0	0
1806	21684	0	0	0
1807	21684	0	0	0
1808	21684	0	0	0
1809	21684	0	0	0
1810	21684	0	0	0
1811	21684	0	0	0
1812	21684	0	0	0
1813	21684	0	0	0
1814	21684.3	1.17662	397.182	0.285397
1815	21684.9	3.46813	397.182	0.841217
1816	21688.1	6.88813	397.181	0.98463
1817	21688.5	10.2309	397.181	0.983914
1818	21691.8	13.7714	397.181	0.983225
1819	21696.1	17.3095	397.181	0.982505
1820	21701.4	20.8449	397.181	0.981741
1821	21707.7	24.3774	397.181	0.98093
1822	21714.9	27.9071	397.187	0.980084
1823	21723.2	31.4163	395.199	0.968175
1824	21732.4	34.8587	390.042	0.946521
1825	21742.5	38.0869	351.238	0.845806
1826	21753.5	40.9338	319.728	0.751209
1827	21765.3	43.5141	299.306	0.688816
1828	21777.7	45.9008	282.277	0.64374
1829	21790.7	48.1518	269.114	0.609576
1830	21804.4	50.2835	256.889	0.577514
1831	21818.7	52.3115	246.758	0.551133
1832	21833.5	54.2469	237.089	0.52595
1833	21848.8	56.0952	228.754	0.503921
1834	21864.6	57.8833	221.298	0.493136
1835	21881	59.6459	213.929	0.488649
1836	21897.8	61.4029	208.248	0.482252
1837	21915.1	63.088	203.179	0.452012
1838	21932.8	64.6478	198.487	0.416523
1839	21950.9	65.8377	0	-0.107936
1840	21969.1	65.2048	0	-0.131287
1841	21987.2	64.8881	0	-0.154435
1842	22005	64.0885	0	-0.177349
1843	22022.8	63.4069	0	-0.200001
1844	22040.3	62.6525	0	-0.212829
1845	22057.6	61.8869	0	-0.212526
1846	22074.6	61.1229	0	-0.210221
1847	22091.5	60.4084	0	-0.188093
1848	22108.2	59.7731	0	-0.166241
1849	22124.7	59.2159	0	-0.144634
1850	22141.1	58.7361	0	-0.123245

1796	190.012	120.898	167.241
1797	190.003	120.91	167.189
1798	189.994	120.921	167.136
1799	189.985	120.933	167.084
1800	189.976	120.944	167.032
1801	189.967	120.956	166.979
1802	189.958	120.967	166.927
1803	189.949	120.979	166.875
1804	189.94	120.99	166.823
1805	189.931	121.002	166.771
1806	189.922	121.013	166.719
1807	189.913	121.025	166.668
1808	189.904	121.036	166.616
1809	189.895	121.048	166.564
1810	189.886	121.059	166.513
1811	189.877	121.07	166.461
1812	189.868	121.082	166.41
1813	189.859	121.093	166.358
1814	189.903	121.106	166.607
1815	189.95	121.122	166.792
1816	189.996	121.138	166.972
1817	190.039	121.153	167.14
1818	190.082	121.168	167.306
1819	190.129	121.183	167.479
1820	190.184	121.199	167.664
1821	190.247	121.218	167.861
1822	190.313	121.232	168.064
1823	190.382	121.247	168.281
1824	190.453	121.261	168.521
1825	190.518	121.272	168.727
1826	190.574	121.281	168.902
1827	190.623	121.29	169.055
1828	190.667	121.296	169.19
1829	190.707	121.302	169.312
1830	190.743	121.307	169.422
1831	190.777	121.311	169.523
1832	190.809	121.314	169.615
1833	190.838	121.317	169.698
1834	190.866	121.319	169.771
1835	190.892	121.32	169.834
1836	190.92	121.321	169.896
1837	190.951	121.32	169.955
1838	190.984	121.319	170.02
1839	190.921	121.3	169.864
1840	190.859	121.281	169.709
1841	190.797	121.262	169.554
1842	190.736	121.243	169.399
1843	190.675	121.225	169.245
1844	190.616	121.207	169.091
1845	190.557	121.189	168.936
1846	190.498	121.172	168.782
1847	190.441	121.154	168.629
1848	190.384	121.137	168.475
1849	190.328	121.12	168.321
1850	190.272	121.103	168.167

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00010010

ALSTOM

1851	22157.4	58.333	0	-0.102045
1852	22173.4	56.2755	-369.849	-1.15133
1853	22188.5	52.1686	-369.846	-1.13183
1854	22202.4	48.1292	-369.844	-1.1138
1855	22215.2	44.1507	-369.845	-1.09999
1856	22226.9	40.1908	-369.846	-1.1
1857	22237.6	36.2308	-369.85	-1.09999
1858	22247.1	32.2709	-369.851	-1.09999
1859	22255.5	28.3109	-369.851	-1.09999
1860	22262.8	24.3509	-369.852	-1.09999
1861	22269	20.391	-369.852	-1.1
1862	22274.1	16.431	-369.852	-1.09999
1863	22278.1	12.471	-369.852	-1.09999
1864	22281.1	8.51108	-280.082	-1.09997
1865	22282.8	4.55152	-1.11695	-1.09984
1866	22283.5	2.00794	-0.49275	-0.873778
1867	22284	0	0	0
1868	22284	0	0	0
1869	22284	0	0	0
1870	22284	0	0	0
1871	22284	0	0	0
1872	22284	0	0	0
1873	22284	0	0	0
1874	22284	0	0	0
1875	22284	0	0	0
1876	22284	0	0	0
1877	22284	0	0	0
1878	22284	0	0	0
1879	22284	0	0	0
1880	22284	0	0	0
1881	22284	0	0	0
1882	22284	0	0	0
1883	22284	0	0	0
1884	22284.1	0.357132	397.182	8.86E-02
1885	22284.7	2.64864	397.182	0.642444
1886	22285.6	5.42051	397.181	0.98492
1887	22287.5	8.96419	397.181	0.98416
1888	22290.5	12.5055	397.181	0.983474
1889	22294.5	16.0445	397.181	0.982767
1890	22299.4	19.5808	397.181	0.98202
1891	22305.3	23.1145	397.181	0.981226
1892	22312.2	26.6452	397.184	0.98039
1893	22320.1	30.1728	396.949	0.979463
1894	22329	33.6752	392.021	0.966882
1895	22338.8	37.0746	363.998	0.9041
1896	22349.6	40.1317	326.106	0.804318
1897	22361.1	42.9036	304.138	0.740595
1898	22373.4	45.4495	284.917	0.680225
1899	22386.3	47.809	271.118	0.634301
1900	22399.9	50.0074	258.277	0.590338
1901	22414.1	52.0586	248.021	0.552291
1902	22428.8	53.9766	238.44	0.51586
1903	22444.1	55.7671	230.127	0.482046
1904	22459.8	57.4439	223.132	0.451481
1905	22476	59.0123	216.589	0.421744

1851	190.217	121.086	168.014
1852	190.274	121.097	168.197
1853	190.326	121.111	168.362
1854	190.374	121.126	168.51
1855	190.422	121.144	168.651
1856	190.473	121.164	168.792
1857	190.52	121.186	168.931
1858	190.573	121.208	169.077
1859	190.632	121.228	169.232
1860	190.685	121.247	169.384
1861	190.726	121.264	169.512
1862	190.766	121.281	169.644
1863	190.802	121.297	169.764
1864	190.821	121.314	169.824
1865	190.816	121.332	169.779
1866	190.811	121.346	169.733
1867	190.802	121.358	169.678
1868	190.793	121.37	169.623
1869	190.784	121.382	169.568
1870	190.775	121.394	169.514
1871	190.766	121.407	169.459
1872	190.757	121.419	169.405
1873	190.748	121.431	169.35
1874	190.739	121.443	169.296
1875	190.73	121.454	169.242
1876	190.721	121.466	169.188
1877	190.712	121.478	169.134
1878	190.703	121.49	169.08
1879	190.694	121.502	169.026
1880	190.685	121.514	168.972
1881	190.676	121.526	168.918
1882	190.667	121.538	168.864
1883	190.658	121.549	168.811
1884	190.705	121.56	168.995
1885	190.752	121.576	169.176
1886	190.799	121.594	169.358
1887	190.843	121.61	169.525
1888	190.886	121.626	169.688
1889	190.931	121.642	169.852
1890	190.983	121.659	170.028
1891	191.042	121.677	170.216
1892	191.108	121.695	170.413
1893	191.176	121.711	170.616
1894	191.246	121.726	170.842
1895	191.313	121.739	171.056
1896	191.372	121.75	171.233
1897	191.422	121.76	171.386
1898	191.467	121.768	171.519
1899	191.507	121.775	171.638
1900	191.544	121.781	171.744
1901	191.578	121.786	171.842
1902	191.609	121.79	171.93
1903	191.639	121.794	172.01
1904	191.667	121.797	172.081
1905	191.694	121.799	172.142

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012314

ALSTOM

1906	22492.8	60.4759	211.037	0.393969
1907	22509.6	61.8885	206.847	0.381579
1908	22526.9	63.2215	202.777	0.37076
1909	22544.7	64.5361	198.823	0.360241
1910	22562.8	65.8143	195.276	0.350698
1911	22581.3	67.06	191.988	0.341875
1912	22600	68.2744	188.778	0.333268
1913	22619.2	69.4582	185.651	0.324872
1914	22638.6	70.6121	182.59	0.316653
1915	22658.4	71.7368	179.596	0.308607
1916	22678.5	72.8329	176.678	0.300761
1917	22698.8	73.439	0	-0.14487
1918	22719.2	72.918	0	-0.144639
1919	22739.4	72.3903	0	-0.147642
1920	22759.4	71.8532	0	-0.149166
1921	22779.3	71.3167	0	-0.148926
1922	22799	70.7822	0	-0.146862
1923	22818.6	70.2571	0	-0.144788
1924	22838	69.736	0	-0.144929
1925	22857.3	69.2143	0	-0.144902
1926	22876.5	68.6926	0	-0.144986
1927	22895.5	68.1774	0	-0.142594
1928	22914.4	67.6454	0	-0.149192
1929	22933.1	67.1011	0	-0.15313
1930	22951.6	66.5502	0	-0.152374
1931	22970.1	66.0304	0	-0.132977
1932	22988.3	65.5791	0	-0.118594
1933	23006.5	65.1876	0	-0.100712
1934	23024.3	62.2392	-369.848	-1.15346
1935	23041	58.1131	-389.849	-1.13974
1936	23058.6	54.0348	-369.848	-1.12696
1937	23071	50.0005	-389.844	-1.11541
1938	23084.4	46.0054	-369.845	-1.10505
1939	23096.6	42.0414	-369.846	-1.09999
1940	23107.7	38.0815	-369.848	-1.09999
1941	23117.8	34.1215	-369.851	-1.09999
1942	23126.7	30.1615	-369.851	-1.1
1943	23134.5	26.2016	-369.851	-1.09999
1944	23141.2	22.2416	-369.852	-1.09999
1945	23146.9	18.2816	-369.852	-1.09999
1946	23151.4	14.3217	-369.852	-1.09999
1947	23154.8	10.3617	-369.852	-1.1
1948	23157.1	6.40187	-104.58	-1.09993
1949	23158.2	3.11956	-0.76554	-0.991721
1950	23158.8	0.740915	-0.18182	-0.739347
1951	23159	0	0	0
1952	23159	0	0	0
1953	23159	0	0	0
1954	23159	0	0	0
1955	23159	0	0	0
1956	23159	0	0	0
1957	23159	0	0	0
1958	23159	0	0	0
1959	23159	0	0	0
1960	23159	0	0	0

1906	191.72	121.801	172.199
1907	191.749	121.802	172.256
1908	191.779	121.802	172.313
1909	191.812	121.802	172.37
1910	191.845	121.801	172.427
1911	191.879	121.799	172.486
1912	191.912	121.796	172.546
1913	191.946	121.793	172.606
1914	191.98	121.789	172.668
1915	192.015	121.784	172.729
1916	192.05	121.779	172.792
1917	191.978	121.758	172.634
1918	191.907	121.738	172.476
1919	191.837	121.717	172.318
1920	191.767	121.696	172.159
1921	191.698	121.676	172.001
1922	191.63	121.656	171.844
1923	191.562	121.636	171.686
1924	191.495	121.616	171.528
1925	191.429	121.596	171.37
1926	191.363	121.576	171.213
1927	191.297	121.556	171.056
1928	191.233	121.537	170.899
1929	191.168	121.517	170.742
1930	191.105	121.498	170.585
1931	191.042	121.479	170.429
1932	190.979	121.46	170.272
1933	190.917	121.441	170.117
1934	190.855	121.45	170.321
1935	191.042	121.482	170.503
1936	191.096	121.476	170.673
1937	191.145	121.491	170.821
1938	191.192	121.509	170.959
1939	191.242	121.53	171.095
1940	191.291	121.552	171.23
1941	191.338	121.576	171.363
1942	191.397	121.598	171.511
1943	191.454	121.618	171.662
1944	191.501	121.637	171.796
1945	191.54	121.656	171.92
1946	191.58	121.676	172.046
1947	191.611	121.691	172.148
1948	191.615	121.709	172.141
1949	191.61	121.727	172.089
1950	191.606	121.74	172.04
1951	191.597	121.753	171.983
1952	191.588	121.765	171.927
1953	191.579	121.778	171.87
1954	191.569	121.79	171.813
1955	191.56	121.803	171.756
1956	191.551	121.815	171.7
1957	191.542	121.828	171.643
1958	191.533	121.84	171.587
1959	191.524	121.852	171.53
1960	191.515	121.865	171.474

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012015

ALSTOM

1961	23159	0	0	0
1962	23159	0	0	0
1963	23159	0	0	0
1964	23159	0	0	0
1965	23159	0	0	0
1966	23159	0	0	0
1967	23159	0	0	0
1968	23159.4	1.57774	397.182	0.38269
1969	23160	3.86924	397.182	0.93851
1970	23161.5	7.3084	397.181	0.984499
1971	23164	10.8509	397.181	0.983795
1972	23167.5	14.3909	397.181	0.983102
1973	23172	17.9285	397.181	0.982375
1974	23177.4	21.4634	397.181	0.981603
1975	23183.9	24.9955	397.181	0.980783
1976	23191.3	28.5204	397.189	0.975761
1977	23199.7	32.0039	394.372	0.958261
1978	23209.1	35.4032	385.073	0.931279
1979	23219.4	38.5265	345.696	0.81576
1980	23230.5	41.269	317.075	0.724282
1981	23242.3	43.7471	297.462	0.658165
1982	23254.7	45.9985	281.706	0.600211
1983	23267.8	48.0583	269.66	0.548821
1984	23281.4	49.94	258.661	0.500797
1985	23295.5	51.6627	249.999	0.459604
1986	23310.1	53.2413	242.113	0.420161
1987	23325.1	54.6805	234.923	0.382052
1988	23340.5	56.0173	229.083	0.364647
1989	23356.2	57.3082	223.698	0.352327
1990	23372.3	58.5511	218.512	0.339088
1991	23388.7	59.7474	213.522	0.326362
1992	23405.5	60.9018	209.756	0.316061
1993	23422.6	62.0236	206.381	0.307726
1994	23440	63.1147	203.098	0.299003
1995	23457.6	64.175	199.909	0.290523
1996	23475.6	65.1919	196.92	0.275913
1997	23493.9	66.1704	194.336	0.268183
1998	23512.4	67.1101	191.854	0.257588
1999	23531.1	68.0251	189.437	0.251176
2000	23550.2	68.9318	187.042	0.249852
2001	23569.4	69.6821	0	-7.56E-02
2002	23588.7	68.8972	0	-0.21746
2003	23607.7	68.1165	0	-0.216293
2004	23626.5	67.3401	0	-0.215139
2005	23645.1	66.5673	0	-0.214418
2006	23663.5	65.7961	0	-0.213521
2007	23681.7	65.0725	0	-0.189762
2008	23699.7	64.4342	0	-0.166219
2009	23717.5	63.8802	0	-0.142926
2010	23735.2	63.4096	0	-0.119853
2011	23752.7	63.0217	0	-9.70E-02
2012	23770.2	62.7159	0	-7.42E-02
2013	23787.6	62.4917	0	-5.16E-02
2014	23804.9	62.348	0	-3.15E-02
2015	23822.2	62.2348	0	-3.14E-02

1961	191.506	121.877	171.418
1962	191.497	121.889	171.362
1963	191.488	121.902	171.306
1964	191.478	121.914	171.25
1965	191.469	121.926	171.194
1966	191.48	121.939	171.138
1967	191.451	121.951	171.082
1968	191.498	121.965	171.261
1969	191.545	121.984	171.439
1970	191.591	122.002	171.609
1971	191.633	122.019	171.768
1972	191.677	122.036	171.926
1973	191.725	122.054	172.092
1974	191.781	122.072	172.27
1975	191.845	122.092	172.46
1976	191.912	122.11	172.656
1977	191.981	122.127	172.867
1978	192.052	122.142	173.096
1979	192.115	122.155	173.287
1980	192.17	122.166	173.451
1981	192.218	122.176	173.592
1982	192.261	122.185	173.717
1983	192.301	122.193	173.83
1984	192.338	122.2	173.932
1985	192.372	122.206	174.027
1986	192.405	122.212	174.114
1987	192.435	122.217	174.195
1988	192.464	122.222	174.268
1989	192.492	122.226	174.334
1990	192.519	122.229	174.394
1991	192.545	122.232	174.447
1992	192.572	122.235	174.499
1993	192.6	122.237	174.551
1994	192.63	122.238	174.603
1995	192.662	122.239	174.655
1996	192.695	122.239	174.707
1997	192.728	122.238	174.76
1998	192.761	122.237	174.814
1999	192.794	122.236	174.868
2000	192.828	122.234	174.923
2001	192.76	122.215	174.757
2002	192.693	122.197	174.591
2003	192.627	122.179	174.425
2004	192.562	122.161	174.259
2005	192.498	122.143	174.093
2006	192.434	122.126	173.928
2007	192.372	122.109	173.762
2008	192.309	122.092	173.597
2009	192.248	122.075	173.432
2010	192.187	122.058	173.267
2011	192.126	122.041	173.102
2012	192.066	122.025	172.938
2013	192.006	122.008	172.775
2014	191.946	121.991	172.611
2015	191.886	121.975	172.449

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012316



2016	23839.4	60.9233	-369.848	-1.09999
2017	23855.8	56.9533	-369.849	-1.09999
2018	23871.1	53.0034	-369.847	-1.09999
2019	23885.2	49.0434	-369.844	-1.09999
2020	23898.3	45.0834	-369.845	-1.1
2021	23910.3	41.1235	-369.846	-1.09999
2022	23921.2	37.1635	-369.849	-1.09999
2023	23930.9	33.2036	-369.851	-1.09999
2024	23939.6	29.2436	-369.851	-1.09999
2025	23947.2	25.2836	-369.852	-1.1
2026	23953.6	21.3237	-369.852	-1.09999
2027	23959	17.3637	-369.852	-1.09999
2028	23963.3	13.4037	-369.852	-1.09999
2029	23966.5	9.44376	-328.843	-1.09999
2030	23968.5	5.48407	-36.915	-1.09989
2031	23969.4	2.56818	-0.63023	-0.93322
2032	23970	0.189532	-4.65E-02	-0.680845
2033	23970	0	0	0
2034	23970	0	0	0
2035	23970	0	0	0
2036	23970	0	0	0
2037	23970	0	0	0
2038	23970	0	0	0
2039	23970	0	0	0
2040	23970	0	0	0
2041	23970	0	0	0
2042	23970	0	0	0
2043	23970	0	0	0
2044	23970	0	0	0
2045	23970	0	0	0
2046	23970	0	0	0
2047	23970	0	0	0
2048	23970	0	0	0
2049	23970	0	0	0
2050	23970	0	0	0
2051	23970	0	0	0
2052	23970	0	0	0
2053	23970	0	0	0
2054	23970	0	0	0
2055	23970	0	0	0
2056	23970	0	0	0
2057	23970	0	0	0
2058	23970	0	0	0
2059	23970	0	0	0
2060	23970	0	0	0
2061	23970	0	0	0
2062	23970	0	0	0
2063	23970	0	0	0
2064	23970	0	0	0
2065	23970	0	0	0
2066	23970	0	0	0
2067	23970	0	0	0
2068	23970	0	0	0
2069	23970	0	0	0
2070	23970	0	0	0

2016	191.948	121.986	172.639
2017	192.004	121.999	172.814
2018	192.057	122.014	172.974
2019	192.105	122.031	173.115
2020	192.152	122.05	173.246
2021	192.202	122.072	173.377
2022	192.25	122.096	173.507
2023	192.3	122.12	173.639
2024	192.359	122.143	173.784
2025	192.415	122.164	173.93
2026	192.458	122.183	174.054
2027	192.498	122.203	174.176
2028	192.535	122.221	174.292
2029	192.562	122.24	174.372
2030	192.56	122.259	174.332
2031	192.555	122.277	174.277
2032	192.551	122.289	174.226
2033	192.542	122.302	174.167
2034	192.533	122.315	174.108
2035	192.523	122.328	174.049
2036	192.514	122.341	173.991
2037	192.505	122.354	173.932
2038	192.496	122.367	173.874
2039	192.487	122.38	173.816
2040	192.478	122.392	173.757
2041	192.469	122.405	173.699
2042	192.459	122.418	173.641
2043	192.45	122.431	173.583
2044	192.441	122.443	173.525
2045	192.432	122.456	173.467
2046	192.423	122.469	173.409
2047	192.414	122.482	173.351
2048	192.405	122.494	173.294
2049	192.395	122.507	173.236
2050	192.386	122.519	173.179
2051	192.377	122.532	173.121
2052	192.368	122.545	173.064
2053	192.359	122.557	173.007
2054	192.35	122.57	172.95
2055	192.341	122.582	172.892
2056	192.332	122.595	172.835
2057	192.322	122.607	172.779
2058	192.313	122.62	172.722
2059	192.304	122.632	172.665
2060	192.295	122.644	172.608
2061	192.286	122.657	172.552
2062	192.277	122.669	172.495
2063	192.268	122.682	172.439
2064	192.259	122.694	172.382
2065	192.25	122.706	172.326
2066	192.241	122.719	172.27
2067	192.232	122.731	172.214
2068	192.223	122.743	172.157
2069	192.213	122.755	172.101
2070	192.204	122.768	172.046

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012317



2071	23970	0	0	0
2072	23970	0	0	0
2073	23970	0	0	0
2074	23970	0	0	0
2075	23970	0	0	0
2076	23970	0	0	0
2077	23970	0	0	0
2078	23970	0	0	0
2079	23970	0	0	0
2080	23970	0	0	0
2081	23970	0	0	0
2082	23970	0	0	0
2083	23970	0	0	0
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2085	23970	0	0	0
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2087	23970	0	0	0
2088	23970	0	0	0
2089	23970	0	0	0
2090	23970	0	0	0
2091	23970	0	0	0
2092	23970	0	0	0
2093	23970	0	0	0
2094	23970	0	0	0
2095	23970	0	0	0
2096	23970	0	0	0
2097	23970	0	0	0
2098	23970	0	0	0
2099	23970	0	0	0
2100	23970	0	0	0
2101	23970	0	0	0
2102	23970	0	0	0
2103	23970	0	0	0
2104	23970	0	0	0
2105	23970	0	0	0
2106	23970	0	0	0
2107	23970	0	0	0
2108	23970	0	0	0
2109	23970	0	0	0
2110	23970	0	0	0
2111	23970	0	0	0
2112	23970	0	0	0
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2114	23970	0	0	0
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2118	23970	0	0	0
2119	23970	0	0	0
2120	23970	0	0	0
2121	23970	0	0	0
2122	23970	0	0	0
2123	23970	0	0	0
2124	23970	0	0	0
2125	23970	0	0	0

2071	192.195	122.78	171.99
2072	192.186	122.792	171.934
2073	192.177	122.804	171.878
2074	192.168	122.816	171.823
2075	192.159	122.828	171.767
2076	192.15	122.84	171.712
2077	192.141	122.853	171.656
2078	192.132	122.865	171.601
2079	192.123	122.877	171.546
2080	192.114	122.889	171.491
2081	192.105	122.901	171.435
2082	192.096	122.913	171.38
2083	192.087	122.925	171.325
2084	192.078	122.937	171.271
2085	192.069	122.949	171.216
2086	192.06	122.96	171.161
2087	192.051	122.972	171.107
2088	192.042	122.984	171.052
2089	192.033	122.996	170.998
2090	192.024	123.008	170.943
2091	192.015	123.02	170.889
2092	192.006	123.032	170.835
2093	191.997	123.043	170.78
2094	191.988	123.055	170.726
2095	191.979	123.067	170.672
2096	191.97	123.079	170.618
2097	191.961	123.09	170.564
2098	191.952	123.102	170.511
2099	191.943	123.114	170.457
2100	191.934	123.125	170.403
2101	191.925	123.137	170.35
2102	191.916	123.149	170.296
2103	191.907	123.16	170.243
2104	191.898	123.172	170.189
2105	191.889	123.183	170.136
2106	191.88	123.195	170.083
2107	191.871	123.206	170.03
2108	191.862	123.218	169.977
2109	191.853	123.229	169.924
2110	191.844	123.241	169.871
2111	191.835	123.252	169.818
2112	191.826	123.264	169.765
2113	191.817	123.275	169.713
2114	191.808	123.287	169.66
2115	191.799	123.298	169.607
2116	191.79	123.309	169.555
2117	191.781	123.321	169.502
2118	191.772	123.332	169.45
2119	191.763	123.343	169.398
2120	191.754	123.355	169.346
2121	191.745	123.368	169.294
2122	191.736	123.377	169.242
2123	191.728	123.389	169.19
2124	191.719	123.4	169.138
2125	191.71	123.411	169.086

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012818

ALSTOM

2126	23970	0	0	0
2127	23970	0	0	0
2128	23970	0	0	0
2129	23970	0	0	0
2130	23970	0	0	0
2131	23970	0	0	0
2132	23970	0	0	0
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2136	23970	0	0	0
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2138	23970	0	0	0
2139	23970	0	0	0
2140	23970	0	0	0
2141	23970	0	0	0
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2148	23970	0	0	0
2149	23970	0	0	0
2150	23970	0	0	0
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2162	23970	0	0	0
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2164	23970	0	0	0
2165	23970	0	0	0
2166	23970	0	0	0
2167	23970	0	0	0
2168	23970	0	0	0
2169	23970	0	0	0
2170	23970	0	0	0
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2172	23970	0	0	0
2173	23970	0	0	0
2174	23970	0	0	0
2175	23970	0	0	0
2176	23970	0	0	0
2177	23970	0	0	0
2178	23970	0	0	0
2179	23970	0	0	0
2180	23970	0	0	0

2126	191.701	123.422	169.034
2127	191.692	123.433	168.982
2128	191.683	123.444	168.931
2129	191.674	123.456	168.879
2130	191.665	123.467	168.828
2131	191.656	123.478	168.776
2132	191.647	123.489	168.725
2133	191.638	123.5	168.674
2134	191.63	123.511	168.623
2135	191.621	123.522	168.571
2136	191.612	123.533	168.52
2137	191.603	123.544	168.469
2138	191.594	123.555	168.418
2139	191.585	123.566	168.368
2140	191.576	123.577	168.317
2141	191.567	123.588	168.266
2142	191.558	123.599	168.216
2143	191.55	123.61	168.165
2144	191.541	123.62	168.114
2145	191.532	123.631	168.064
2146	191.523	123.642	168.014
2147	191.514	123.653	167.963
2148	191.505	123.664	167.913
2149	191.496	123.675	167.863
2150	191.488	123.685	167.813
2151	191.479	123.696	167.763
2152	191.47	123.707	167.713
2153	191.461	123.718	167.663
2154	191.452	123.728	167.613
2155	191.443	123.739	167.564
2156	191.434	123.75	167.514
2157	191.426	123.76	167.464
2158	191.417	123.771	167.415
2159	191.408	123.782	167.365
2160	191.399	123.792	167.316
2161	191.39	123.803	167.267
2162	191.381	123.813	167.217
2163	191.373	123.824	167.168
2164	191.364	123.834	167.119
2165	191.355	123.845	167.07
2166	191.346	123.855	167.021
2167	191.337	123.866	166.972
2168	191.329	123.876	166.923
2169	191.32	123.887	166.875
2170	191.311	123.897	166.826
2171	191.302	123.908	166.777
2172	191.293	123.918	166.729
2173	191.285	123.928	166.68
2174	191.276	123.939	166.632
2175	191.267	123.949	166.583
2176	191.258	123.959	166.535
2177	191.249	123.97	166.487
2178	191.241	123.98	166.438
2179	191.232	123.99	166.39
2180	191.223	124.001	166.342

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012319

2181	23970	0	0	0
2182	23970	0	0	0
2183	23970	0	0	0
2184	23970	0	0	0
2185	23970	0	0	0
2186	23970	0	0	0
2187	23970	0	0	0
2188	23970	0	0	0
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2191	23970	0	0	0
2192	23970	0	0	0
2193	23970	0	0	0
2194	23970	0	0	0
2195	23970	0	0	0
2196	23970	0	0	0
2197	23970	0	0	0
2198	23970	0	0	0
2199	23970	0	0	0
2200	23970	0	0	0
2201	23970	0	0	0
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2208	23970	0	0	0
2209	23970	0	0	0
2210	23970	0	0	0
2211	23970	0	0	0
2212	23970	0	0	0
2213	23970.5	2.10892	397.182	0.511532
2214	23971.2	4.58559	397.182	0.985113
2215	23972.9	8.1298	397.181	0.984325
2216	23975.7	11.6717	397.181	0.983636
2217	23979.4	15.2112	397.181	0.982937
2218	23984.1	18.7482	397.181	0.9822
2219	23989.8	22.2824	397.181	0.981417
2220	23996.5	25.8138	397.182	0.980588
2221	24004.2	29.3422	397.19	0.979728
2222	24012.8	32.8546	393.175	0.979053
2223	24022.4	36.3012	373.751	0.929397
2224	24033	39.4437	334.132	0.826753
2225	24044.3	42.2737	309.123	0.758888
2226	24056.4	44.9003	288.349	0.705111
2227	24069.2	47.3803	273.742	0.666173
2228	24082.7	49.6898	260.119	0.630811
2229	24096.8	51.9016	248.805	0.60101
2230	24111.6	54.0121	238.252	0.573544
2231	24126.8	56.0281	229.038	0.549178
2232	24142.7	57.9588	220.942	0.534418
2233	24158	59.8929	212.915	0.534815
2234	24175.9	61.8273	206.971	0.540417
2235	24193.4	63.7859	201.079	0.547366

2181	191.214	124.011	166.294
2182	191.205	124.021	166.246
2183	191.197	124.031	166.199
2184	191.188	124.041	166.151
2185	191.179	124.052	166.103
2186	191.17	124.062	166.055
2187	191.162	124.072	166.008
2188	191.153	124.082	165.96
2189	191.144	124.092	165.913
2190	191.135	124.102	165.865
2191	191.127	124.112	165.818
2192	191.118	124.122	165.771
2193	191.109	124.132	165.724
2194	191.1	124.143	165.677
2195	191.092	124.153	165.629
2196	191.083	124.163	165.582
2197	191.074	124.173	165.536
2198	191.065	124.183	165.489
2199	191.057	124.192	165.442
2200	191.048	124.202	165.395
2201	191.039	124.212	165.348
2202	191.03	124.222	165.302
2203	191.022	124.232	165.255
2204	191.013	124.242	165.209
2205	191.004	124.252	165.162
2206	190.996	124.262	165.116
2207	190.987	124.272	165.07
2208	190.978	124.281	165.023
2209	190.969	124.291	164.977
2210	190.961	124.301	164.931
2211	190.952	124.311	164.885
2212	190.943	124.32	164.839
2213	190.991	124.33	165.036
2214	191.038	124.343	165.235
2215	191.083	124.354	165.423
2216	191.127	124.364	165.603
2217	191.171	124.374	165.783
2218	191.222	124.384	165.976
2219	191.281	124.394	166.18
2220	191.347	124.405	166.395
2221	191.415	124.414	166.616
2222	191.488	124.422	166.851
2223	191.556	124.427	167.099
2224	191.618	124.431	167.303
2225	191.672	124.433	167.482
2226	191.719	124.433	167.637
2227	191.761	124.431	167.778
2228	191.8	124.429	167.906
2229	191.836	124.426	168.023
2230	191.87	124.421	168.131
2231	191.901	124.416	168.228
2232	191.931	124.41	168.315
2233	191.958	124.403	168.391
2234	191.989	124.396	168.457
2235	192.022	124.386	168.542

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012320



2236	24211.4	65.7708	195.391	0.55541
2237	24229.9	67.7886	190.061	0.565151
2238	24249	69.8424	184.637	0.575354
2239	24268.6	70.7584	-53.9373	0
2240	24288.3	70.7584	-58.0816	0
2241	24307.9	70.7584	-58.0816	0
2242	24327.6	70.7584	-58.0816	0
2243	24347.3	70.7584	-58.0816	0
2244	24366.9	70.7584	-58.0816	0
2245	24386.6	70.7584	-55.4205	0
2246	24406.2	70.7584	-53.6228	0
2247	24425.9	70.7584	-53.5834	0
2248	24445.5	70.7584	-55.6365	0
2249	24465.2	70.7584	-55.6365	0
2250	24484.8	70.7584	-57.0484	0
2251	24504.5	70.7584	-57.3917	0
2252	24524.2	70.7584	-57.735	0
2253	24543.8	70.7584	-58.0522	0
2254	24563.5	70.7584	-58.0816	0
2255	24583.1	70.7471	-116.394	-5.83E-02
2256	24602.6	68.8515	-358.962	-0.896962
2257	24621.2	65.5198	-368.378	-0.934753
2258	24639	62.1106	-369.848	-0.957747
2259	24655.7	58.621	-369.849	-0.979419
2260	24671.5	55.0573	-369.849	-0.997891
2261	24686.3	51.4298	-369.845	-1.01545
2262	24700.1	47.7399	-369.844	-1.03299
2263	24712.8	43.9892	-369.845	-1.04922
2264	24724.5	40.1825	-369.846	-1.06411
2265	24735.2	36.3247	-369.85	-1.07763
2266	24744.7	32.4205	-369.851	-1.08979
2267	24753.2	28.4769	-369.851	-1.09999
2268	24760.5	24.5156	-369.852	-1.1
2269	24766.8	20.5557	-369.852	-1.09999
2270	24771.9	16.5957	-369.852	-1.09999
2271	24776	12.6357	-369.852	-1.09999
2272	24779	8.67577	-272.224	-1.09998
2273	24780.8	4.71619	-1.15736	-1.09985
2274	24781.5	2.10686	-0.51703	-0.884274
2275	24782	0	0	0
2276	24782	0	0	0
2277	24782	0	0	0
2278	24782	0	0	0
2279	24782	0	0	0
2280	24782	0	0	0
2281	24782	0	0	0
2282	24782	0	0	0
2283	24782	0	0	0
2284	24782	0	0	0
2285	24782	0	0	0
2286	24782	0	0	0
2287	24782	0	0	0
2288	24782	0	0	0
2289	24782	0	0	0
2290	24782	0	0	0

2236	192.058	124.376	168.619
2237	192.094	124.364	168.696
2238	192.13	124.352	168.776
2239	192.136	124.348	168.691
2240	192.142	124.344	168.607
2241	192.148	124.341	168.524
2242	192.154	124.337	168.441
2243	192.16	124.333	168.358
2244	192.166	124.33	168.275
2245	192.171	124.326	168.192
2246	192.177	124.322	168.109
2247	192.183	124.318	168.026
2248	192.188	124.314	167.943
2249	192.194	124.31	167.861
2250	192.2	124.306	167.78
2251	192.206	124.302	167.699
2252	192.212	124.298	167.618
2253	192.218	124.294	167.537
2254	192.224	124.29	167.457
2255	192.236	124.286	167.404
2256	192.321	124.282	167.687
2257	192.402	124.281	167.912
2258	192.471	124.283	168.13
2259	192.53	124.287	168.328
2260	192.586	124.293	168.518
2261	192.638	124.301	168.688
2262	192.687	124.311	168.845
2263	192.736	124.323	168.996
2264	192.788	124.338	169.147
2265	192.835	124.355	169.296
2266	192.888	124.372	169.451
2267	192.948	124.387	169.616
2268	193.002	124.402	169.779
2269	193.044	124.415	169.916
2270	193.085	124.428	170.058
2271	193.121	124.441	170.187
2272	193.142	124.455	170.28
2273	193.137	124.47	170.223
2274	193.132	124.483	170.184
2275	193.123	124.494	170.132
2276	193.114	124.505	170.08
2277	193.105	124.516	170.029
2278	193.097	124.527	169.977
2279	193.088	124.538	169.926
2280	193.079	124.549	169.874
2281	193.07	124.56	169.823
2282	193.061	124.571	169.772
2283	193.052	124.582	169.72
2284	193.043	124.593	169.669
2285	193.034	124.604	169.618
2286	193.025	124.615	169.567
2287	193.016	124.626	169.516
2288	193.007	124.637	169.465
2289	192.998	124.648	169.414
2290	192.989	124.659	169.364

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012021

ALSTOM

2291	24782	0	0	0
2292	24782.1	0.261828	397.182	6.35E-02
2293	24782.6	2.55333	397.182	0.619328
2294	24783.5	5.27308	397.181	0.984954
2295	24785.4	8.81686	397.181	0.984189
2296	24788.4	12.3583	397.181	0.983502
2297	24792.3	15.8973	397.181	0.982797
2298	24797.2	19.4338	397.181	0.982052
2299	24803.1	22.9676	397.181	0.98126
2300	24809.9	26.4984	397.184	0.980425
2301	24817.8	30.0281	397.062	0.979555
2302	24826.6	33.5304	392.224	0.977442
2303	24836.4	36.9396	365.702	0.90852
2304	24847.1	40.0117	327.086	0.808229
2305	24858.6	42.8081	304.893	0.754747
2308	24870.9	45.4367	284.98	0.711703
2307	24883.8	47.9462	270.316	0.683748
2308	24897.5	50.3572	256.521	0.658195
2309	24911.8	52.6894	244.87	0.638997
2310	24928.8	54.9551	233.551	0.621151
2311	24942.3	57.1685	224.289	0.608707
2312	24958.5	59.3189	215.31	0.591062
2313	24975.3	61.4274	208.174	0.58062
2314	24992.6	63.5104	201.908	0.575214
2315	25010.6	65.5503	195.974	0.569371
2316	25029.1	67.5493	190.693	0.565001
2317	25048.1	69.5073	185.522	0.561492
2318	25067.7	71.4236	180.43	0.558654
2319	25087.7	72.1984	-28.2944	0
2320	25107.7	72.1984	-28.5876	0
2321	25127.8	72.1984	-29.0496	0
2322	25147.8	72.1984	-27.0953	0
2323	25167.9	72.1984	-27.0626	0
2324	25187.9	72.1984	-27.078	0
2325	25208	72.1984	-27.8759	0
2326	25228.1	72.1984	-28.5831	0
2327	25248.1	72.1984	-28.7512	0
2328	25268.2	72.1984	-28.9193	0
2329	25288.2	72.1984	-29.0496	0
2330	25308.3	72.1984	-29.0496	0
2331	25328.3	72.1984	-29.0496	0
2332	25348.4	72.1984	-29.0496	0
2333	25368.4	72.1984	-29.0496	0
2334	25388.5	72.1984	-29.0496	0
2335	25408.5	72.1984	-29.0496	0
2336	25428.6	72.1984	-29.0496	0
2337	25448.7	72.1984	-28.1059	0
2338	25468.7	71.796	-255.288	-0.547381
2339	25488.2	68.5847	-359.716	-1.0238
2340	25508.8	64.8722	-369.848	-1.03801
2341	25524.3	61.1093	-369.848	-1.05159
2342	25540.7	57.2989	-369.849	-1.06436
2343	25556.1	53.4441	-369.847	-1.07631
2344	25570.4	49.5477	-369.844	-1.08742
2345	25583.6	45.6129	-369.845	-1.09769

2291	192.88	124.67	169.313
2292	193.028	124.679	169.504
2293	193.076	124.692	169.693
2294	193.123	124.707	169.883
2295	193.167	124.72	170.069
2296	193.211	124.733	170.229
2297	193.256	124.746	170.402
2298	193.308	124.759	170.586
2299	193.368	124.773	170.782
2300	193.434	124.787	170.987
2301	193.502	124.798	171.199
2302	193.573	124.809	171.434
2303	193.641	124.818	171.658
2304	193.701	124.824	171.844
2305	193.753	124.829	172.007
2308	193.797	124.832	172.149
2307	193.838	124.834	172.275
2308	193.875	124.834	172.389
2309	193.909	124.834	172.491
2310	193.94	124.832	172.584
2311	193.97	124.83	172.664
2312	193.997	124.826	172.733
2313	194.025	124.822	172.798
2314	194.057	124.816	172.853
2315	194.091	124.809	172.929
2316	194.126	124.801	172.996
2317	194.161	124.791	173.065
2318	194.196	124.781	173.135
2319	194.199	124.779	173.032
2320	194.202	124.778	172.93
2321	194.205	124.776	172.829
2322	194.208	124.775	172.727
2323	194.211	124.773	172.626
2324	194.215	124.772	172.525
2325	194.218	124.77	172.424
2326	194.221	124.768	172.324
2327	194.224	124.766	172.224
2328	194.227	124.764	172.124
2329	194.23	124.762	172.025
2330	194.233	124.76	171.926
2331	194.236	124.758	171.827
2332	194.239	124.756	171.729
2333	194.242	124.754	171.631
2334	194.245	124.752	171.533
2335	194.248	124.749	171.436
2336	194.251	124.747	171.338
2337	194.254	124.745	171.241
2338	194.3	124.742	171.133
2339	194.383	124.741	171.584
2340	194.462	124.743	171.847
2341	194.526	124.749	172.019
2342	194.583	124.756	172.205
2343	194.636	124.766	172.379
2344	194.685	124.777	172.532
2345	194.732	124.791	172.675

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012022

ALSTOM

2346	25595.7	41.6536	-369.846	-1.09999
2347	25606.8	37.6936	-369.848	-1.09999
2348	25616.7	33.7337	-369.851	-1.09999
2349	25625.5	29.7737	-369.851	-1.1
2350	25633.2	25.8137	-369.851	-1.09999
2351	25639.8	21.8538	-369.852	-1.09999
2352	25645.4	17.8938	-369.852	-1.09999
2353	25649.8	13.9338	-369.852	-1.09999
2354	25653.1	9.97388	-367.926	-1.1
2355	25655.3	6.01411	-75.9923	-1.09991
2356	25658.3	2.88681	-0.70838	-0.967005
2357	25658.9	0.507963	-0.12468	-0.714631
2358	25657	0	0	0
2359	25657	0	0	0
2360	25657	0	0	0
2361	25657	0	0	0
2362	25657	0	0	0
2363	25657	0	0	0
2364	25657	0	0	0
2365	25657	0	0	0
2366	25657	0	0	0
2367	25657	0	0	0
2368	25657	0	0	0
2369	25657	0	0	0
2370	25657	0	0	0
2371	25657	0	0	0
2372	25657	0	0	0
2373	25657	0	0	0
2374	25657	0	0	0
2375	25657.4	1.80215	397.182	0.437124
2376	25658	4.11104	397.182	0.985223
2377	25659.7	7.65543	397.181	0.984425
2378	25662.3	11.1976	397.181	0.983727
2379	25665.9	14.7375	397.181	0.983032
2380	25670.5	18.2748	397.181	0.982301
2381	25676	21.8095	397.181	0.981525
2382	25682.6	25.3413	397.181	0.9807
2383	25690.1	28.87	397.189	0.979846
2384	25698.6	32.387	393.833	0.971859
2385	25708.1	35.8524	379.41	0.944082
2386	25718.5	39.0437	339.175	0.839803
2387	25729.8	41.9086	312.013	0.769038
2388	25741.8	44.5993	290.717	0.72959
2389	25754.5	47.171	274.849	0.703905
2390	25768	49.6652	260.263	0.683515
2391	25782.1	52.0961	247.834	0.689129
2392	25796.9	54.4819	235.916	0.657293
2393	25812.4	56.8325	225.682	0.650259
2394	25828.5	59.1643	215.854	0.64566
2395	25845.2	61.4861	207.998	0.645957
2396	25862.6	63.8187	200.981	0.649853
2397	25880.6	65.4476	-53.8589	8.57E-02
2398	25898.8	65.4501	-58.9887	0
2399	25917	65.4501	-53.7749	0
2400	25935.2	65.4501	-44.4304	0

2346	194.782	124.808	172.817
2347	194.831	124.826	172.958
2348	194.88	124.847	173.099
2349	194.939	124.865	173.254
2350	194.996	124.882	173.411
2351	195.041	124.898	173.549
2352	195.081	124.913	173.679
2353	195.12	124.929	173.809
2354	195.15	124.944	173.914
2355	195.152	124.96	173.899
2356	195.147	124.976	173.852
2357	195.143	124.987	173.808
2358	195.134	124.999	173.752
2359	195.125	125.011	173.697
2360	195.115	125.023	173.642
2361	195.106	125.035	173.587
2362	195.097	125.047	173.532
2363	195.088	125.059	173.477
2364	195.079	125.07	173.422
2365	195.07	125.082	173.367
2366	195.061	125.094	173.312
2367	195.051	125.106	173.258
2368	195.042	125.118	173.203
2369	195.033	125.13	173.149
2370	195.024	125.141	173.094
2371	195.015	125.153	173.04
2372	195.006	125.165	172.986
2373	194.997	125.177	172.931
2374	194.987	125.188	172.877
2375	195.035	125.201	173.061
2376	195.082	125.219	173.245
2377	195.128	125.235	173.419
2378	195.171	125.249	173.584
2379	195.214	125.264	173.747
2380	195.264	125.278	173.921
2381	195.321	125.294	174.106
2382	195.385	125.311	174.302
2383	195.452	125.325	174.505
2384	195.522	125.339	174.725
2385	195.592	125.35	174.954
2386	195.654	125.359	175.146
2387	195.708	125.366	175.31
2388	195.754	125.372	175.45
2389	195.795	125.376	175.574
2390	195.833	125.379	175.683
2391	195.867	125.381	175.781
2392	195.897	125.382	175.868
2393	195.926	125.382	175.943
2394	195.952	125.381	176.005
2395	195.98	125.378	176.066
2396	196.011	125.374	176.121
2397	196.014	125.379	176.018
2398	196.018	125.385	175.917
2399	196.021	125.39	175.814
2400	196.024	125.395	175.71

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012323

2401	25953.4	65.4501	-35.0859	0
2402	25971.5	65.4501	-25.7413	0
2403	25989.7	65.4501	-16.3968	0
2404	26007.9	65.4501	-7.05226	0
2405	26026.1	65.4481	0	-4.48E-03
2406	26044.3	65.393	0	-2.12E-02
2407	26062.4	65.3323	0	-9.45E-03
2408	26080.6	65.3295	0	6.99E-03
2409	26098.7	65.2739	-174.167	-0.333992
2410	26116.5	62.4274	-369.848	-1.05559
2411	26133.3	58.6272	-369.849	-1.05559
2412	26149.1	54.8271	-369.849	-1.0556
2413	26163.8	51.027	-369.845	-1.05559
2414	26177.4	47.2267	-369.845	-1.05516
2415	26190	43.4021	-369.845	-1.06757
2416	26201.5	39.538	-369.846	-1.07802
2417	26212	35.6383	-369.85	-1.08748
2418	26221.3	31.7062	-369.851	-1.09595
2419	26228.6	27.7492	-369.851	-1.09999
2420	26236.7	23.7892	-369.852	-1.09999
2421	26242.8	19.8292	-369.852	-1.1
2422	26247.8	15.8693	-369.852	-1.09999
2423	26251.6	11.9093	-369.852	-1.09999
2424	26254.4	7.94939	-218.671	-1.09997
2425	26256	4.04918	-0.99367	-1.09035
2426	26256.6	1.67053	-0.40995	-0.837979
2427	26257	0	0	0
2428	26257	0	0	0
2429	26257	0	0	0
2430	26257	0	0	0
2431	26257	0	0	0
2432	26257	0	0	0
2433	26257	0	0	0
2434	26257	0	0	0
2435	26257	0	0	0
2436	26257	0	0	0
2437	26257	0	0	0
2438	26257	0	0	0
2439	26257	0	0	0
2440	26257	0	0	0
2441	26257	0	0	0
2442	26257	0	0	0
2443	26257	0	0	0
2444	26257.2	0.682176	397.182	0.165466
2445	26257.7	2.97368	397.182	0.721286
2446	26258.8	5.92333	397.181	0.984804
2447	26260.9	9.46669	397.181	0.984062
2448	26264	13.0077	397.181	0.983376
2449	26268.1	16.5463	397.181	0.982664
2450	26273.2	20.0822	397.181	0.98191
2451	26279.3	23.6156	397.181	0.981109
2452	26286.3	27.1457	397.185	0.980269
2453	26294.3	30.6725	396.246	0.97848
2454	26303.3	34.168	391.327	0.964977
2455	26313.3	37.5303	358.255	0.889215

2401	196.026	125.4	175.605
2402	196.029	125.404	175.5
2403	196.023	125.405	175.387
2404	195.984	125.393	175.248
2405	195.921	125.37	175.089
2406	195.857	125.348	174.93
2407	195.794	125.325	174.772
2408	195.731	125.302	174.614
2409	195.749	125.307	174.579
2410	195.817	125.312	174.787
2411	195.875	125.32	174.971
2412	195.93	125.33	175.146
2413	195.98	125.343	175.301
2414	196.028	125.357	175.442
2415	196.076	125.373	175.578
2416	196.126	125.393	175.714
2417	196.172	125.414	175.847
2418	196.227	125.435	175.989
2419	196.285	125.454	176.139
2420	196.336	125.471	176.283
2421	196.376	125.488	176.404
2422	196.416	125.505	176.534
2423	196.45	125.521	176.648
2424	196.466	125.538	176.684
2425	196.461	125.557	176.632
2426	196.456	125.571	176.581
2427	196.447	125.584	176.523
2428	196.437	125.596	176.465
2429	196.428	125.609	176.407
2430	196.419	125.621	176.35
2431	196.41	125.634	176.292
2432	196.4	125.646	176.235
2433	196.391	125.659	176.178
2434	196.382	125.671	176.12
2435	196.373	125.683	176.063
2436	196.364	125.696	176.006
2437	196.354	125.708	175.949
2438	196.345	125.72	175.892
2439	196.336	125.733	175.835
2440	196.327	125.745	175.778
2441	196.317	125.757	175.722
2442	196.308	125.77	175.665
2443	196.299	125.782	175.609
2444	196.347	125.794	175.791
2445	196.394	125.811	175.971
2446	196.441	125.828	176.148
2447	196.485	125.845	176.311
2448	196.528	125.86	176.47
2449	196.574	125.876	176.633
2450	196.627	125.893	176.807
2451	196.688	125.911	176.993
2452	196.754	125.927	177.187
2453	196.822	125.942	177.39
2454	196.893	125.957	177.617
2455	196.959	125.968	177.822

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012024

2456	26324.2	40.5384	322.857	0.794443
2457	26335.8	43.2877	301.098	0.738123
2458	26348.2	45.7588	283.109	0.65869
2459	26361.2	48.0566	269.87	0.621046
2460	26374.9	50.223	257.191	0.585446
2461	26389.1	52.2732	246.949	0.555741
2462	26403.9	54.2189	237.229	0.527291
2463	26419.2	55.5651	0	-5.84E-02
2464	26434.6	55.3549	0	-5.84E-02
2465	26449.9	55.145	0	-5.83E-02
2466	26465.2	54.9353	0	-5.81E-02
2467	26480.5	54.7377	0	-5.21E-02
2468	26495.6	54.5616	0	-4.61E-02
2469	26510.8	54.407	0	-4.02E-02
2470	26525.9	54.2736	0	-3.43E-02
2471	26540.9	54.1649	0	-2.52E-02
2472	26556	54.0887	0	-1.77E-02
2473	26571	54.002	0	-2.83E-02
2474	26586	53.9187	0	-2.04E-02
2475	26600.9	53.8564	0	-1.46E-02
2476	26615.9	53.8066	0	-1.50E-02
2477	26630.8	53.7468	0	-1.81E-02
2478	26645.8	53.7338	0	-3.40E-03
2479	26660.7	53.7216	0	-3.39E-03
2480	26675.6	53.7093	0	-3.39E-03
2481	26690.6	53.6971	0	-3.39E-03
2482	26705.4	53.685	0	-3.38E-03
2483	26720.3	53.6711	0	-5.49E-03
2484	26735.2	53.6403	0	-1.13E-02
2485	26750.1	53.5886	0	-1.70E-02
2486	26765	53.5349	0	-7.02E-03
2487	26779.9	53.5046	0	-9.64E-03
2488	26794.7	53.4649	0	-1.23E-02
2489	26809.6	53.4157	0	-1.49E-02
2490	26824.4	53.3572	0	-1.75E-02
2491	26839.2	53.287	0	-2.20E-02
2492	26854	53.1969	0	-2.77E-02
2493	26868.8	53.0961	-84.1131	-2.80E-02
2494	26883	49.3892	-369.844	-1.09999
2495	26896.2	45.4292	-369.845	-1.1
2496	26908.3	41.4693	-369.846	-1.09999
2497	26919.3	37.5093	-369.848	-1.09999
2498	26929.1	33.5493	-369.851	-1.09999
2499	26937.9	29.5894	-369.851	-1.1
2500	26945.6	25.6294	-369.851	-1.09999
2501	26952.1	21.6694	-369.852	-1.09999
2502	26957.6	17.7095	-369.852	-1.09999
2503	26962	13.7495	-369.852	-1.09999
2504	26965.2	9.78955	-354.336	-1.09999
2505	26967.4	5.82981	-62.4044	-1.09991
2506	26968.3	2.77589	-0.68121	-0.955257
2507	26968.9	0.397239	-9.75E-02	-0.702883
2508	26969	0	0	0
2509	26969	0	0	0
2510	26969	0	0	0

2456	197.016	125.978	177.992
2457	197.065	125.985	178.138
2458	197.109	125.991	178.265
2459	197.149	125.996	178.378
2460	197.185	126	178.479
2461	197.218	126.004	178.571
2462	197.249	126.006	178.653
2463	197.195	125.99	178.481
2464	197.141	125.973	178.308
2465	197.087	125.957	178.137
2466	197.034	125.941	177.965
2467	196.981	125.925	177.794
2468	196.928	125.909	177.624
2469	196.875	125.893	177.454
2470	196.822	125.876	177.284
2471	196.77	125.86	177.115
2472	196.717	125.844	176.946
2473	196.665	125.827	176.778
2474	196.613	125.811	176.611
2475	196.561	125.794	176.443
2476	196.509	125.777	176.277
2477	196.457	125.761	176.111
2478	196.405	125.744	175.945
2479	196.353	125.727	175.78
2480	196.301	125.71	175.615
2481	196.249	125.693	175.45
2482	196.197	125.675	175.287
2483	196.145	125.658	175.123
2484	196.094	125.641	174.961
2485	196.042	125.623	174.798
2486	195.991	125.606	174.636
2487	195.939	125.588	174.475
2488	195.888	125.57	174.314
2489	195.836	125.553	174.153
2490	195.785	125.535	173.993
2491	195.734	125.517	173.834
2492	195.683	125.499	173.674
2493	195.679	125.509	173.604
2494	195.728	125.52	173.756
2495	195.775	125.534	173.897
2496	195.825	125.554	174.039
2497	195.874	125.569	174.178
2498	195.923	125.589	174.319
2499	195.982	125.607	174.474
2500	196.039	125.624	174.63
2501	196.084	125.64	174.766
2502	196.124	125.655	174.896
2503	196.162	125.671	175.023
2504	196.191	125.686	175.122
2505	196.191	125.703	175.101
2506	196.186	125.718	175.053
2507	196.182	125.729	175.008
2508	196.173	125.741	174.952
2509	196.164	125.753	174.898
2510	196.155	125.765	174.84

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012325

ALSTOM

2511	26969	0	0	0
2512	26969	0	0	0
2513	26969	0	0	0
2514	26969	0	0	0
2515	26969	0	0	0
2516	26969	0	0	0
2517	26969	0	0	0
2518	26969	0	0	0
2519	26969	0	0	0
2520	26969	0	0	0
2521	26969	0	0	0
2522	26969	0	0	0
2523	26969	0	0	0
2524	26969	0	0	0
2525	26969.5	1.90882	397.182	0.462997
2526	26970.1	4.27605	397.182	0.985185
2527	26971.8	7.82038	397.181	0.98439
2528	26974.4	11.3625	397.181	0.983696
2529	26978.1	14.9022	397.181	0.982999
2530	26982.7	18.4437	397.181	0.984956
2531	26988.3	21.9977	397.181	0.988898
2532	26994.9	25.5672	397.182	0.99362
2533	27002.5	29.1369	397.19	0.969415
2534	27011.1	32.6248	393.498	0.965975
2535	27020.6	36.0754	376.598	0.937855
2536	27031.1	39.2584	336.468	0.840538
2537	27042.4	42.1436	310.153	0.776432
2538	27054.5	44.8451	288.771	0.728776
2539	27067.3	47.4021	273.498	0.696147
2540	27080.8	49.8923	258.935	0.683862
2541	27095	52.3134	248.748	0.663521
2542	27109.9	54.6669	234.991	0.645424
2543	27125.4	56.7268	79.7104	0.310494
2544	27141.2	56.921	-23.3724	0
2545	27157	56.921	-23.3724	0
2546	27172.8	56.921	-23.3724	0
2547	27188.6	56.921	-23.3724	0
2548	27204.4	56.921	-23.3724	0
2549	27220.2	56.921	-23.3724	0
2550	27236.1	56.921	-23.3724	0
2551	27251.9	56.921	-23.3724	0
2552	27267.7	56.921	-23.3724	0
2553	27283.5	56.921	-23.3724	0
2554	27299.3	56.921	-23.3724	0
2555	27315.1	56.921	-23.3724	0
2556	27330.9	56.921	-23.3724	0
2557	27346.7	56.921	-23.3724	0
2558	27362.6	56.921	-30.0684	0
2559	27378.4	56.921	-30.0737	0
2560	27394.2	56.921	-26.9294	0
2561	27410	56.921	-23.7851	0
2562	27425.8	57.005	76.0037	0.192177
2563	27441.8	58.7845	217.639	0.589207
2564	27458.5	60.8415	209.937	0.556967
2565	27475.6	62.7935	204.065	0.529107

2511	196.145	125.777	174.785
2512	196.136	125.789	174.729
2513	196.127	125.801	174.674
2514	196.118	125.813	174.618
2515	196.109	125.825	174.563
2516	196.099	125.837	174.508
2517	196.09	125.849	174.453
2518	196.081	125.861	174.397
2519	196.072	125.873	174.342
2520	196.063	125.885	174.286
2521	196.054	125.896	174.233
2522	196.044	125.908	174.178
2523	196.035	125.92	174.123
2524	196.026	125.932	174.069
2525	196.074	125.945	174.252
2526	196.121	125.963	174.436
2527	196.167	125.978	174.61
2528	196.21	125.993	174.774
2529	196.253	126.007	174.936
2530	196.303	126.022	175.11
2531	196.36	126.038	175.295
2532	196.425	126.054	175.491
2533	196.493	126.068	175.693
2534	196.563	126.082	175.914
2535	196.632	126.092	176.141
2536	196.693	126.101	176.329
2537	196.746	126.108	176.49
2538	196.791	126.113	176.628
2539	196.832	126.117	176.75
2540	196.889	126.12	176.857
2541	196.903	126.121	176.953
2542	196.933	126.122	177.039
2543	196.923	126.122	176.941
2544	196.915	126.132	176.843
2545	196.908	126.141	176.746
2546	196.901	126.151	176.648
2547	196.894	126.16	176.552
2548	196.886	126.169	176.455
2549	196.879	126.178	176.359
2550	196.872	126.187	176.263
2551	196.865	126.196	176.168
2552	196.857	126.205	176.072
2553	196.85	126.213	175.978
2554	196.843	126.222	175.883
2555	196.836	126.23	175.789
2556	196.829	126.239	175.695
2557	196.822	126.247	175.602
2558	196.815	126.255	175.509
2559	196.808	126.263	175.417
2560	196.801	126.272	175.325
2561	196.794	126.28	175.238
2562	196.783	126.279	175.139
2563	196.81	126.275	175.208
2564	196.836	126.271	175.271
2565	196.866	126.265	175.334

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00013326

ALSTOM

2566	27493.3	64.6461	198.492	0.501656
2567	27511.5	66.4024	193.723	0.475818
2568	27530.2	68.0851	189.278	0.461641
2569	27549.4	69.7249	184.947	0.450007
2570	27569	71.3232	180.897	0.438591
2571	27589	72.881	176.56	0.427437
2572	27609.4	74.3992	172.508	0.416558
2573	27630.3	75.8787	168.57	0.405951
2574	27651.8	77.3206	164.733	0.395807
2575	27673.3	78.7257	160.994	0.38552
2576	27695.3	79.9789	46.3454	0.150296
2577	27717.5	79.9301	0	-2.10E-02
2578	27739.7	79.1827	-274.498	-0.675519
2579	27761.2	75.8282	-329.639	-1.08187
2580	27781.7	71.7334	-347.684	-1.08186
2581	27801.1	67.8286	-361.853	-1.08929
2582	27819.4	63.8878	-369.848	-1.09935
2583	27836.8	60.4978	-211.125	-0.619552
2584	27853.2	59.6554	0	-4.84E-02
2585	27869.8	59.4639	0	-5.74E-02
2586	27886.3	59.2399	0	-6.64E-02
2587	27902.7	58.9837	0	-7.54E-02
2588	27919	58.6952	0	-8.54E-02
2589	27935.3	58.2767	0	-0.118715
2590	27951.4	57.8438	0	-0.121648
2591	27967.4	57.4003	0	-0.124553
2592	27983.3	56.9464	0	-0.127432
2593	27999.1	56.5153	0	-0.115005
2594	28014.7	56.1016	0	-0.114851
2595	28030.2	55.6884	0	-0.114699
2596	28045.6	55.2758	0	-0.114548
2597	28060.9	54.8637	0	-0.114397
2598	28076.1	54.4522	0	-0.114248
2599	28091.2	54.0412	0	-0.114099
2600	28106.1	53.6307	0	-0.113952
2601	28121	53.2208	0	-0.113805
2602	28136.7	52.8113	0	-0.113659
2603	28150.3	52.4024	0	-0.113514
2604	28164.8	51.9941	0	-0.11337
2605	28179.2	51.5862	0	-0.113227
2606	28193.5	51.1789	0	-0.113084
2607	28207.6	50.772	0	-0.112943
2608	28221.7	50.3657	0	-0.112803
2609	28235.6	49.9635	0	-0.109456
2610	28249.5	49.5809	0	-0.103508
2611	28263.2	49.8608	234.04	0.43423
2612	28277.3	51.7934	249.346	0.537189
2613	28292	53.6915	239.864	0.51868
2614	28306.8	51.4676	-369.845	-1.13825
2615	28320.5	47.3853	-369.845	-1.12984
2616	28333.1	43.3341	-369.845	-1.12212
2617	28344.6	39.3084	-369.847	-1.11509
2618	28354.9	35.3068	-369.851	-1.10875
2619	28364.2	31.3269	-369.851	-1.10307
2620	28372.3	27.3638	-369.851	-1.09999

2566	196.899	126.259	175.397
2567	196.932	126.251	175.461
2568	196.966	126.242	175.526
2569	196.999	126.232	175.593
2570	197.034	126.222	175.661
2571	197.068	126.21	175.729
2572	197.103	126.198	175.798
2573	197.138	126.184	175.868
2574	197.174	126.17	175.938
2575	197.21	126.156	176.007
2576	197.207	126.142	175.903
2577	197.127	126.112	175.755
2578	197.192	126.105	175.925
2579	197.278	126.101	176.189
2580	197.363	126.099	176.446
2581	197.445	126.101	176.689
2582	197.519	126.106	176.906
2583	197.532	126.114	176.89
2584	197.473	126.094	176.725
2585	197.415	126.075	176.561
2586	197.357	126.056	176.397
2587	197.3	126.036	176.233
2588	197.243	126.017	176.07
2589	197.186	125.998	175.907
2590	197.13	125.978	175.744
2591	197.074	125.959	175.582
2592	197.018	125.94	175.42
2593	196.964	125.922	175.258
2594	196.909	125.903	175.096
2595	196.855	125.884	174.935
2596	196.802	125.866	174.774
2597	196.748	125.847	174.613
2598	196.696	125.829	174.453
2599	196.643	125.811	174.293
2600	196.591	125.793	174.133
2601	196.54	125.775	173.974
2602	196.489	125.757	173.815
2603	196.438	125.74	173.656
2604	196.387	125.722	173.498
2605	196.338	125.705	173.34
2606	196.288	125.687	173.183
2607	196.239	125.67	173.025
2608	196.19	125.653	172.868
2609	196.142	125.636	172.711
2610	196.094	125.619	172.555
2611	196.121	125.619	172.629
2612	196.156	125.619	172.737
2613	196.187	125.618	172.837
2614	196.238	125.628	173.001
2615	196.288	125.64	173.15
2616	196.334	125.654	173.293
2617	196.384	125.672	173.436
2618	196.43	125.691	173.577
2619	196.485	125.709	173.728
2620	196.543	125.728	173.886

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00912027

ALSTOM

2621	28379.4	23.4038	-369.852	-1.09999
2622	28385.3	19.4439	-369.852	-1.09999
2623	28390.2	15.4839	-369.852	-1.09999
2624	28393.9	11.5239	-369.852	-1.09999
2625	28396.6	7.56403	-190.26	-1.09999
2626	28398.1	3.8177	-0.93687	-1.06579
2627	28398.7	1.43905	-0.35314	-0.813419
2628	28399	0	0	0
2629	28399	0	0	0
2630	28399	0	0	0
2631	28399	0	0	0
2632	28399	0	0	0
2633	28399	0	0	0
2634	28399	0	0	0
2635	28399	0	0	0
2636	28399	0	0	0
2637	28399	0	0	0
2638	28399	0	0	0
2639	28399	0	0	0
2640	28399	0	0	0
2641	28399	0	0	0
2642	28399	0	0	0
2643	28399	0	0	0
2644	28399	0	0	0
2645	28399.2	0.90518	397.182	0.219557
2646	28399.8	3.19689	397.182	0.775377
2647	28400.9	6.26831	397.181	0.984724
2648	28403.1	9.8114	397.181	0.983995
2649	28406.4	13.3522	397.181	0.983308
2650	28410.5	16.8905	397.181	0.982592
2651	28415.7	20.4262	397.181	0.981834
2652	28421.9	23.9591	397.181	0.981029
2653	28429	27.4891	397.186	0.980188
2654	28437.2	31.0148	396.764	0.977159
2655	28446.3	34.5058	390.852	0.983872
2656	28456.3	37.8388	354.388	0.879145
2657	28467.3	40.8149	320.689	0.788777
2658	28479	43.5447	299.084	0.73286
2659	28491.4	46.0888	281.178	0.688234
2660	28504.6	48.5025	267.062	0.655433
2661	28518.4	50.803	254.293	0.62593
2662	28532.8	53.0089	243.274	0.601438
2663	28547.8	55.1293	232.788	0.578262
2664	28563.4	57.1765	224.247	0.560395
2665	28579.8	59.1812	215.987	0.543411
2666	28596.3	61.0894	209.191	0.530063
2667	28613.5	62.9783	203.509	0.519983
2668	28631.2	64.829	197.942	0.507649
2669	28649.5	66.6313	193.118	0.494631
2670	28668.3	68.3883	188.477	0.482174
2671	28687.5	70.1011	183.951	0.470018
2672	28707.2	71.7705	179.508	0.458073
2673	28727.4	73.3974	169.551	0.44642
2674	28747.9	73.8412	-1.77715	0
2675	28768.4	73.8412	-1.77715	0

2621	193.593	125.742	174.035
2622	196.633	125.757	174.163
2623	198.674	125.772	174.3
2624	196.707	125.786	174.416
2625	196.72	125.802	174.449
2626	196.715	125.819	174.403
2627	196.71	125.832	174.358
2628	196.701	125.844	174.303
2629	196.691	125.856	174.248
2630	196.682	125.867	174.193
2631	196.673	125.879	174.139
2632	196.664	125.891	174.084
2633	196.654	125.903	174.029
2634	196.645	125.915	173.975
2635	196.636	125.927	173.92
2636	196.627	125.938	173.866
2637	196.618	125.95	173.811
2638	196.608	125.962	173.757
2639	196.599	125.974	173.703
2640	196.59	125.985	173.649
2641	196.581	125.997	173.595
2642	196.571	126.009	173.541
2643	196.562	126.02	173.487
2644	196.553	126.032	173.433
2645	196.601	126.043	173.62
2646	196.648	126.059	173.804
2647	196.695	126.075	173.985
2648	196.738	126.09	174.153
2649	198.751	126.104	174.318
2650	196.828	126.118	174.488
2651	196.882	126.133	174.669
2652	196.943	126.149	174.863
2653	197.01	126.163	175.064
2654	197.078	126.177	175.276
2655	197.15	126.189	175.512
2656	197.215	126.198	175.72
2657	197.271	126.205	175.894
2658	197.32	126.211	176.044
2659	197.363	126.215	176.176
2660	197.402	126.218	176.293
2661	197.437	126.22	176.398
2662	197.469	126.221	176.492
2663	197.499	126.221	176.578
2664	197.527	126.22	176.651
2665	197.553	126.218	176.714
2666	197.579	126.215	176.773
2667	197.609	126.211	176.831
2668	197.641	126.208	176.89
2669	197.673	126.2	176.95
2670	197.706	126.193	177.012
2671	197.739	126.184	177.075
2672	197.773	126.175	177.139
2673	197.804	126.165	177.19
2674	197.739	126.141	177.037
2675	197.673	126.118	176.884

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00013328

2676	28788.9	73.8412	-1.77715	0
2677	28809.4	73.8412	-1.77715	0
2678	28829.9	73.8412	-1.77715	0
2679	28850.4	73.8412	-0.26601	0
2680	28870.9	73.8412	-0.23248	0
2681	28891.4	73.8412	-0.24094	0
2682	28911.9	73.8412	-0.84918	0
2683	28932.5	73.8412	-1.42339	0
2684	28953	73.8412	-1.56668	0
2685	28973.5	73.8412	-1.70997	0
2686	28994	73.8412	-0.27438	0
2687	29014.5	73.8333	0	-4.99E-03
2688	29035	73.8041	0	-1.09E-02
2689	29055.5	73.7534	0	-1.69E-02
2690	29076	73.6814	0	-2.28E-02
2691	29096.4	73.598	0	-2.87E-02
2692	29118.9	73.4734	0	-3.46E-02
2693	29137.3	73.344	0	-3.61E-02
2694	29157.6	73.2134	0	-4.06E-02
2695	29177.9	73.0551	0	-4.44E-02
2696	29198.2	72.8861	0	-4.96E-02
2697	29218.4	72.7075	0	-4.96E-02
2698	29238.6	72.5425	0	-4.31E-02
2699	29258.7	72.3874	-137.213	-4.31E-02
2700	29278.3	68.6565	-359.513	-1.10271
2701	29296.9	64.6886	-369.848	-1.10174
2702	29314.3	60.7242	-369.848	-1.10082
2703	29330.6	56.7629	-369.849	-1.09999
2704	29345.8	52.8029	-369.847	-1.09999
2705	29359.9	48.843	-369.844	-1.09999
2706	29372.9	44.883	-369.845	-1.1
2707	29384.9	40.923	-369.846	-1.09999
2708	29395.7	36.9631	-369.849	-1.09999
2709	29405.4	33.0031	-369.851	-1.09999
2710	29414	29.0431	-369.851	-1.09999
2711	29421.5	25.0832	-369.852	-1.1
2712	29428	21.1232	-369.852	-1.09999
2713	29433.3	17.1632	-369.852	-1.09999
2714	29437.5	13.2033	-369.852	-1.09999
2715	29440.6	9.24331	-314.065	-1.09998
2716	29442.6	5.28355	-22.1388	-1.09988
2717	29443.4	2.44777	-0.60069	-0.920444
2718	29444	6.91E-02	-1.70E-02	-0.68807
2719	29444	0	0	0
2720	29444	0	0	0
2721	29444	0	0	0
2722	29444	0	0	0
2723	29444	0	0	0
2724	29444	0	0	0
2725	29444	0	0	0
2726	29444	0	0	0
2727	29444	0	0	0
2728	29444	0	0	0
2729	29444	0	0	0
2730	29444	0	0	0

2676	197.607	126.095	176.732
2677	197.542	126.071	176.58
2678	197.477	126.047	176.429
2679	197.405	126.022	176.273
2680	197.332	125.995	176.118
2681	197.26	125.969	175.964
2682	197.191	125.944	175.812
2683	197.124	125.92	175.661
2684	197.058	125.895	175.511
2685	196.993	125.871	175.362
2686	196.921	125.844	175.21
2687	196.848	125.817	175.057
2688	196.776	125.79	174.905
2689	196.703	125.763	174.753
2690	196.631	125.736	174.601
2691	196.558	125.709	174.449
2692	196.486	125.682	174.298
2693	196.414	125.655	174.147
2694	196.342	125.627	173.997
2695	196.271	125.6	173.846
2696	196.199	125.573	173.697
2697	196.128	125.546	173.547
2698	196.058	125.518	173.397
2699	196.071	125.516	173.346
2700	196.154	125.516	173.599
2701	196.232	125.519	173.828
2702	196.293	125.525	174.024
2703	196.349	125.533	174.207
2704	196.401	125.544	174.374
2705	196.449	125.556	174.523
2706	196.496	125.571	174.661
2707	196.546	125.589	174.801
2708	196.594	125.608	174.938
2709	196.644	125.629	175.079
2710	196.703	125.647	175.231
2711	196.759	125.665	175.386
2712	196.802	125.681	175.516
2713	196.842	125.697	175.646
2714	196.879	125.713	175.768
2715	196.904	125.729	175.846
2716	196.9	125.746	175.809
2717	196.896	125.762	175.76
2718	196.892	125.773	175.713
2719	196.882	125.785	175.657
2720	196.873	125.797	175.6
2721	196.864	125.809	175.544
2722	196.855	125.822	175.487
2723	196.845	125.834	175.431
2724	196.836	125.846	175.375
2725	196.827	125.858	175.319
2726	196.817	125.87	175.263
2727	196.808	125.883	175.207
2728	196.799	125.895	175.151
2729	196.79	125.907	175.095
2730	196.78	125.919	175.039

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00013320



2731	29444	0	0	0
2732	29444	0	0	0
2733	29444	0	0	0
2734	29444	0	0	0
2735	29444	0	0	0
2736	29444.5	2.22491	397.182	0.539668
2737	29445.3	4.76503	397.182	0.985072
2738	29447.1	8.30915	397.181	0.984288
2739	29449.9	11.8509	397.181	0.983601
2740	29453.6	15.3903	397.181	0.9829
2741	29458.4	18.9271	397.181	0.982181
2742	29464.2	22.4613	397.181	0.981376
2743	29470.9	25.9925	397.183	0.980546
2744	29478.8	29.5207	397.191	0.979683
2745	29487.3	33.0311	392.927	0.969371
2746	29496.9	36.4696	371.628	0.923889
2747	29507.5	39.5929	332.251	0.821886
2748	29518.9	42.4115	308.033	0.758066
2749	29531.1	45.0283	287.38	0.702496
2750	29543.9	47.4814	273.034	0.664336
2751	29557.4	49.8044	259.449	0.629072
2752	29571.6	52.0108	248.26	0.599589
2753	29586.3	54.1164	237.741	0.572188
2754	29601.6	56.1279	228.622	0.548087
2755	29617.6	58.0605	220.559	0.526964
2756	29633.9	59.9186	212.808	0.508644
2757	29650.8	61.7131	207.315	0.49174
2758	29668.2	63.4587	202.07	0.477792
2759	29686	65.1509	197.029	0.464284
2760	29704.3	66.8001	192.872	0.452602
2761	29723.1	68.4205	188.392	0.445014
2762	29742.4	70.0428	184.106	0.441092
2763	29762	71.6687	179.777	0.442215
2764	29782.2	73.2992	175.436	0.453586
2765	29802.8	74.9351	171.081	0.455202
2766	29823.8	76.5773	166.711	0.457062
2767	29845.3	78.2266	162.323	0.459157
2768	29867.3	79.8128	83.5197	0.29802
2769	29889.5	80	-20.4439	0
2770	29911.7	80	-20.4439	0
2771	29933.9	80	-16.2429	0
2772	29956.1	80	-9.38982	0
2773	29978.4	80	-2.53671	0
2774	30000.6	79.9885	0	-1.01E-02
2775	30022.8	79.9198	0	-2.73E-02
2776	30045	79.7892	0	-4.45E-02
2777	30067.1	79.5994	0	-5.71E-02
2778	30089.2	79.3941	0	-5.70E-02
2779	30111.2	79.1892	0	-5.69E-02
2780	30133.2	78.9847	0	-5.68E-02
2781	30155.1	78.7805	0	-5.67E-02
2782	30177	78.5766	0	-5.66E-02
2783	30198.8	78.3731	0	-5.65E-02
2784	30220.5	78.1699	0	-5.64E-02
2785	30242.2	77.967	0	-5.63E-02

2731	198.771	125.931	174.984
2732	198.762	125.943	174.928
2733	198.753	125.955	174.872
2734	198.743	125.967	174.817
2735	198.734	125.979	174.762
2736	198.725	125.994	174.943
2737	198.829	126.011	175.127
2738	198.874	126.027	175.297
2739	198.917	126.042	175.46
2740	198.961	126.057	175.622
2741	197.012	126.073	175.795
2742	197.07	126.089	175.981
2743	197.135	126.106	176.176
2744	197.202	126.12	176.377
2745	197.273	126.134	176.589
2746	197.341	126.145	176.82
2747	197.401	126.154	177.002
2748	197.453	126.162	177.16
2749	197.497	126.168	177.294
2750	197.538	126.172	177.413
2751	197.574	126.175	177.52
2752	197.608	126.178	177.616
2753	197.639	126.179	177.702
2754	197.667	126.18	177.778
2755	197.694	126.179	177.844
2756	197.719	126.178	177.899
2757	197.746	126.176	177.955
2758	197.776	126.173	178.01
2759	197.809	126.168	178.065
2760	197.841	126.163	178.122
2761	197.874	126.157	178.18
2762	197.907	126.149	178.24
2763	197.94	126.141	178.301
2764	197.974	126.132	178.362
2765	198.008	126.121	178.425
2766	198.043	126.11	178.487
2767	198.078	126.098	178.55
2768	198.081	126.087	178.472
2769	198.083	126.083	178.358
2770	198.084	126.08	178.245
2771	198.086	126.076	178.132
2772	198.055	126.063	178.002
2773	197.987	126.039	177.854
2774	197.905	126.012	177.699
2775	197.824	125.984	177.545
2776	197.743	125.957	177.391
2777	197.662	125.929	177.237
2778	197.582	125.901	177.083
2779	197.502	125.874	176.93
2780	197.422	125.846	176.777
2781	197.343	125.818	176.628
2782	197.264	125.791	176.47
2783	197.185	125.763	176.318
2784	197.106	125.735	176.165
2785	197.028	125.708	176.012

3523

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012330

ALSTOM

2786	30263.8	77.7645	0	-5.62E-02
2787	30285.4	77.5624	0	-5.81E-02
2788	30308.9	77.3605	0	-5.60E-02
2789	30328.4	77.159	0	-5.59E-02
2790	30349.8	76.9578	0	-5.58E-02
2791	30371.1	76.757	0	-5.57E-02
2792	30392.4	76.5565	0	-5.57E-02
2793	30413.7	76.3563	0	-5.56E-02
2794	30434.8	76.1565	0	-5.55E-02
2795	30456	75.957	0	-5.54E-02
2796	30477	75.7578	0	-5.53E-02
2797	30498.1	75.5589	0	-5.52E-02
2798	30519	75.3603	0	-5.51E-02
2799	30539.9	75.1621	0	-5.50E-02
2800	30560.8	74.9642	0	-5.49E-02
2801	30581.6	74.7666	0	-5.48E-02
2802	30602.3	74.5694	0	-5.48E-02
2803	30623	74.3724	0	-5.47E-02
2804	30643.8	74.1732	0	-5.61E-02
2805	30664.2	73.9713	0	-5.60E-02
2806	30684.7	73.774	0	-5.44E-02
2807	30705.2	73.5783	0	-5.46E-02
2808	30725.6	73.3822	0	-5.43E-02
2809	30746	73.187	0	-5.41E-02
2810	30766.3	72.9923	0	-5.41E-02
2811	30786.5	72.7978	0	-5.40E-02
2812	30806.7	72.6037	0	-5.39E-02
2813	30826.8	72.4099	0	-5.38E-02
2814	30846.9	72.2164	0	-5.37E-02
2815	30867	72.0232	0	-5.38E-02
2816	30886.9	71.8278	0	-5.58E-02
2817	30906.9	71.6197	0	-5.96E-02
2818	30926.7	71.3981	0	-6.33E-02
2819	30946.5	71.163	0	-6.71E-02
2820	30966.3	71.0185	101.433	0.143863
2821	30986.2	72.2566	178.212	0.374066
2822	31006.4	73.5779	174.694	0.360664
2823	31027	74.8539	171.297	0.349789
2824	31048	76.0963	167.991	0.340883
2825	31069.3	77.307	164.769	0.332198
2826	31090.9	78.487	161.63	0.323729
2827	31112.9	79.6368	158.57	0.315471
2828	31135.1	79.8345	0	-8.44E-02
2829	31157.2	79.5311	0	-8.42E-02
2830	31179.3	79.0996	-257.332	-0.691604
2831	31200.8	75.4191	-330.607	-1.13463
2832	31221.2	71.3471	-349.474	-1.12803
2833	31240.4	67.2981	-383.353	-1.12179
2834	31258.5	63.2708	-369.848	-1.11593
2835	31275.6	59.2641	-369.849	-1.11043
2836	31291.5	55.2765	-369.849	-1.10528
2837	31306.3	51.3069	-369.845	-1.10048
2838	31320	47.3469	-369.845	-1.09999
2839	31332.6	43.3869	-369.845	-1.09999
2840	31344.1	39.4269	-369.847	-1.09999

2786	196.95	125.68	175.86
2787	196.873	125.653	175.708
2788	196.796	125.625	175.556
2789	196.719	125.597	175.404
2790	196.642	125.57	175.253
2791	196.566	125.542	175.101
2792	196.49	125.514	174.95
2793	196.414	125.487	174.799
2794	196.339	125.459	174.648
2795	196.264	125.431	174.498
2796	196.189	125.404	174.347
2797	196.114	125.376	174.197
2798	196.04	125.349	174.047
2799	195.966	125.321	173.897
2800	195.892	125.294	173.748
2801	195.819	125.266	173.599
2802	195.746	125.238	173.45
2803	195.673	125.211	173.301
2804	195.6	125.183	173.152
2805	195.528	125.156	173.004
2806	195.456	125.128	172.855
2807	195.385	125.101	172.707
2808	195.313	125.073	172.56
2809	195.242	125.046	172.412
2810	195.171	125.018	172.265
2811	195.1	124.991	172.118
2812	195.03	124.963	171.971
2813	194.96	124.936	171.825
2814	194.89	124.908	171.679
2815	194.82	124.881	171.533
2816	194.751	124.854	171.387
2817	194.682	124.826	171.241
2818	194.613	124.799	171.096
2819	194.544	124.771	170.951
2820	194.549	124.761	170.894
2821	194.584	124.749	170.97
2822	194.62	124.736	171.047
2823	194.656	124.722	171.124
2824	194.692	124.708	171.201
2825	194.729	124.693	171.278
2826	194.765	124.678	171.355
2827	194.802	124.662	171.432
2828	194.723	124.632	171.293
2829	194.644	124.602	171.153
2830	194.702	124.595	171.292
2831	194.789	124.59	171.581
2832	194.874	124.588	171.824
2833	194.956	124.589	172.07
2834	195.028	124.594	172.288
2835	195.085	124.601	172.478
2836	195.141	124.61	172.658
2837	195.191	124.622	172.819
2838	195.239	124.635	172.964
2839	195.287	124.652	173.105
2840	195.337	124.67	173.245

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012031

ALSTOM

2841	31354.5	35.467	-369.85	-1.1
2842	31363.8	31.507	-369.851	-1.09999
2843	31372	27.547	-369.851	-1.09999
2844	31379.1	23.5871	-369.852	-1.09999
2845	31385.1	19.6271	-369.852	-1.1
2846	31390	15.6671	-369.852	-1.09999
2847	31393.8	11.7072	-369.852	-1.09999
2848	31396.5	7.74724	-203.768	-1.09996
2849	31398.1	3.92775	-0.96387	-1.07747
2850	31398.6	1.5491	-0.38015	-0.825095
2851	31399	0	0	0
2852	31399	0	0	0
2853	31399	0	0	0
2854	31399	0	0	0
2855	31399	0	0	0
2856	31399	0	0	0
2857	31399	0	0	0
2858	31399	0	0	0
2859	31399	0	0	0
2860	31399	0	0	0
2861	31399	0	0	0
2862	31399	0	0	0
2863	31399	0	0	0
2864	31399	0	0	0
2865	31399	0	0	0
2866	31399	0	0	0
2867	31399	0	0	0
2868	31399.2	0.789157	397.182	0.193841
2869	31399.8	3.09066	397.182	0.74966
2870	31400.8	6.10429	397.181	0.984762
2871	31403	9.64753	397.181	0.984027
2872	31406.2	13.1884	397.181	0.98334
2873	31410.3	16.7268	397.181	0.982626
2874	31415.5	20.2627	397.181	0.98187
2875	31421.6	23.7957	397.181	0.981067
2876	31428.7	27.3259	397.186	0.980225
2877	31436.8	30.8521	395.993	0.977787
2878	31445.9	34.3452	391.078	0.984293
2879	31455.8	37.6926	356.209	0.883914
2880	31466.7	40.6838	321.708	0.791466
2881	31478.4	43.4226	300.03	0.73536
2882	31490.8	45.8797	282.401	0.656863
2883	31503.9	48.1713	268.999	0.61931
2884	31517.6	50.3316	256.648	0.584011
2885	31531.8	52.3295	246.668	0.537852
2886	31546.6	54.2178	237.234	0.512593
2887	31562	56.0968	228.752	0.518795
2888	31577.7	56.8578	0	-5.89E-02
2889	31593.5	56.6473	0	-5.63E-02
2890	31609.2	56.4483	0	-5.45E-02
2891	31624.8	56.2096	0	-5.89E-02
2892	31640.4	55.9617	0	-6.88E-02
2893	31655.9	55.7141	0	-8.87E-02
2894	31671.4	55.464	0	-7.08E-02
2895	31686.7	55.22	0	-5.83E-02

2841	195.383	124.691	173.383
2842	195.438	124.711	173.53
2843	195.495	124.729	173.685
2844	195.547	124.746	173.832
2845	195.586	124.762	173.958
2846	195.627	124.778	174.092
2847	195.66	124.793	174.206
2848	195.674	124.81	174.242
2849	195.669	124.828	174.194
2850	195.684	124.841	174.147
2851	195.655	124.854	174.091
2852	195.646	124.866	174.036
2853	195.637	124.878	173.98
2854	195.627	124.89	173.924
2855	195.618	124.902	173.869
2856	195.609	124.914	173.813
2857	195.6	124.926	173.758
2858	195.591	124.938	173.702
2859	195.581	124.95	173.647
2860	195.572	124.962	173.592
2861	195.563	124.974	173.537
2862	195.554	124.986	173.482
2863	195.544	124.998	173.427
2864	195.535	125.01	173.372
2865	195.526	125.022	173.317
2866	195.517	125.034	173.262
2867	195.508	125.046	173.208
2868	195.555	125.057	173.392
2869	195.603	125.074	173.575
2870	195.649	125.091	173.754
2871	195.693	125.106	173.919
2872	195.736	125.121	174.082
2873	195.782	125.136	174.249
2874	195.835	125.152	174.427
2875	195.897	125.169	174.618
2876	195.962	125.185	174.816
2877	196.031	125.2	175.024
2878	196.102	125.213	175.258
2879	196.167	125.224	175.463
2880	196.224	125.233	175.635
2881	196.273	125.24	175.786
2882	196.316	125.248	175.914
2883	196.356	125.25	176.03
2884	196.392	125.254	176.135
2885	196.425	125.257	176.23
2886	196.455	125.259	176.317
2887	196.484	125.26	176.394
2888	196.429	125.243	176.227
2889	196.374	125.226	176.06
2890	196.319	125.209	175.894
2891	196.264	125.192	175.728
2892	196.21	125.175	175.562
2893	196.156	125.158	175.397
2894	196.102	125.141	175.232
2895	196.049	125.124	175.068

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012032

ALSTOM

2896	31702	55.0103	0	-5.82E-02
2897	31717.3	54.8008	0	-5.82E-02
2898	31732.5	54.5912	0	-5.86E-02
2899	31747.6	54.3766	0	-6.05E-02
2900	31762.7	54.1552	0	-6.24E-02
2901	31777.7	53.9678	0	-4.74E-02
2902	31792.7	53.7997	0	-4.61E-02
2903	31807.6	53.6361	0	-4.48E-02
2904	31822.5	53.4772	0	-4.36E-02
2905	31837.3	53.3229	0	-4.23E-02
2906	31852.1	53.1675	0	-4.40E-02
2907	31866.8	53.0054	0	-4.59E-02
2908	31881.6	53.1273	163.185	0.310628
2909	31896.6	54.9792	233.448	0.54278
2910	31912.1	58.8931	225.429	0.522685
2911	31928.2	58.74	217.725	0.50458
2912	31944.7	60.5238	210.692	0.488451
2913	31961.8	62.2599	205.67	0.476783
2914	31979.3	63.9529	200.577	0.46122
2915	31997.3	65.5494	195.976	0.427676
2916	32015.7	67.0291	192.067	0.396909
2917	32034.5	68.3944	188.461	0.364285
2918	32053.7	69.6453	185.157	0.331708
2919	32073.2	70.7764	182.153	0.298359
2920	32093	71.7882	179.459	0.265452
2921	32113.1	72.6828	177.078	0.233039
2922	32133.4	73.4976	174.908	0.223418
2923	32153.9	74.267	172.86	0.211542
2924	32174.6	75.0681	170.727	0.232519
2925	32195.6	75.9447	168.394	0.253529
2926	32216.8	76.9045	165.84	0.278174
2927	32238.4	77.9568	163.04	0.302493
2928	32260.2	79.0856	160.037	0.323615
2929	32282.3	79.981	0	-5.06E-02
2930	32304.5	79.8331	0	-3.90E-02
2931	32326.6	79.6927	0	-3.90E-02
2932	32348.8	79.5524	0	-3.89E-02
2933	32370.8	79.406	0	-4.26E-02
2934	32392.9	79.2509	0	-4.53E-02
2935	32414.9	79.088	0	-4.52E-02
2936	32436.8	78.9287	0	-4.21E-02
2937	32458.7	78.7771	0	-4.21E-02
2938	32480.6	78.6318	0	-4.05E-02
2939	32502.4	78.486	0	-4.05E-02
2940	32524.2	78.3401	0	-4.06E-02
2941	32545.9	78.2018	0	-3.30E-02
2942	32567.6	78.109	0	-1.49E-02
2943	32589.3	78.1077	0	1.30E-02
2944	32611	78.2076	0	4.12E-02
2945	32632.8	78.4212	0	7.55E-02
2946	32654.6	78.7512	0	0.105539
2947	32676.5	79.1808	0	0.132367
2948	32698.6	79.6777	0	0.140552
2949	32720.8	80	-56.4228	0
2950	32743	79.8061	-223.28	-0.410888

2896	195.996	125.107	174.904
2897	195.942	125.09	174.74
2898	195.89	125.073	174.577
2899	195.837	125.056	174.414
2900	195.785	125.039	174.252
2901	195.732	125.022	174.09
2902	195.68	125.005	173.928
2903	195.629	124.988	173.767
2904	195.577	124.971	173.606
2905	195.525	124.954	173.446
2906	195.474	124.937	173.287
2907	195.423	124.92	173.127
2908	195.428	124.922	173.108
2909	195.458	124.921	173.199
2910	195.487	124.92	173.28
2911	195.514	124.918	173.35
2912	195.54	124.915	173.413
2913	195.569	124.912	173.477
2914	195.6	124.907	173.541
2915	195.633	124.901	173.605
2916	195.666	124.894	173.67
2917	195.699	124.887	173.738
2918	195.733	124.879	173.803
2919	195.767	124.87	173.871
2920	195.801	124.86	173.94
2921	195.835	124.851	174.008
2922	195.87	124.84	174.077
2923	195.905	124.83	174.147
2924	195.939	124.819	174.216
2925	195.974	124.807	174.286
2926	196.01	124.796	174.355
2927	196.045	124.783	174.425
2928	196.081	124.77	174.494
2929	196	124.743	174.346
2930	195.92	124.715	174.198
2931	195.839	124.688	174.05
2932	195.76	124.66	173.902
2933	195.68	124.632	173.754
2934	195.6	124.605	173.607
2935	195.521	124.577	173.46
2936	195.442	124.549	173.313
2937	195.364	124.522	173.166
2938	195.286	124.494	173.02
2939	195.207	124.466	172.874
2940	195.129	124.438	172.728
2941	195.052	124.41	172.582
2942	194.974	124.383	172.436
2943	194.897	124.355	172.291
2944	194.819	124.327	172.146
2945	194.741	124.298	172.002
2946	194.663	124.27	171.859
2947	194.585	124.241	171.716
2948	194.505	124.212	171.574
2949	194.511	124.207	171.484
2950	194.555	124.201	171.562

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012000

ALSTOM

2951	32764.8	76.9742	-323.406	-0.973027
2952	32785.7	73.4188	-339.874	-1.00092
2953	32805.6	69.7826	-356.33	-1.01618
2954	32824.5	66.0881	-366.772	-1.03667
2955	32842.3	62.3178	-369.848	-1.05739
2956	32859.1	58.4298	-369.849	-1.08953
2957	32874.8	54.4719	-369.848	-1.10778
2958	32889.4	50.4898	-369.844	-1.09999
2959	32902.8	46.51	-369.845	-1.09999
2960	32915.2	42.5474	-369.845	-1.10375
2961	32926.5	38.5759	-369.847	-1.10276
2962	32936.6	34.6077	-369.851	-1.10188
2963	32945.7	30.6426	-369.851	-1.10108
2964	32953.6	26.6762	-369.851	-1.1023
2965	32960.5	22.7118	-369.852	-1.09999
2966	32968.3	18.7519	-369.852	-1.09999
2967	32970.9	14.7919	-369.852	-1.1
2968	32974.5	10.8319	-369.852	-1.09999
2969	32976.9	6.87204	-139.243	-1.09995
2970	32978.2	3.40202	-0.83486	-1.02169
2971	32978.8	1.02337	-0.25114	-0.769316
2972	32979	0	0	0
2973	32979	0	0	0
2974	32979	0	0	0
2975	32979	0	0	0
2976	32979	0	0	0
2977	32979	0	0	0
2978	32979	0	0	0
2979	32979	0	0	0
2980	32979	0	0	0
2981	32979	0	0	0
2982	32979	0	0	0
2983	32979	0	0	0
2984	32979	0	0	0
2985	32979	0	0	0
2986	32979	0	0	0
2987	32979	0	0	0
2988	32979	0	0	0
2989	32979.3	1.30563	397.182	0.316688
2990	32979.9	3.69713	397.182	0.872508
2991	32981.2	6.88762	397.181	0.984588
2992	32983.6	10.4303	397.181	0.983876
2993	32987	13.9707	397.181	0.983186
2994	32991.4	17.5086	397.181	0.982463
2995	32996.7	21.0436	397.181	0.981697
2996	33003.1	24.5762	397.181	0.980883
2997	33010.4	28.1057	397.188	0.980035
2998	33018.7	31.6054	394.933	0.936887
2999	33027.9	34.9277	390.258	0.911234
3000	33038.1	38.0204	352.077	0.80759
3001	33049	40.726	321.372	0.709893
3002	33060.7	43.152	302.171	0.643847
3003	33073	45.3488	285.506	0.582586
3004	33085.8	47.3519	273.791	0.534134
3005	33099.3	49.2815	262.624	0.508143

2951	194.641	124.196	171.83
2952	194.727	124.194	172.094
2953	194.811	124.194	172.352
2954	194.891	124.198	172.588
2955	194.959	124.204	172.796
2956	195.016	124.213	172.982
2957	195.07	124.224	173.157
2958	195.119	124.237	173.31
2959	195.166	124.253	173.451
2960	195.215	124.27	173.589
2961	195.264	124.291	173.726
2962	195.31	124.313	173.861
2963	195.367	124.333	174.01
2964	195.424	124.352	174.162
2965	195.473	124.369	174.302
2966	195.512	124.386	174.427
2967	195.552	124.403	174.558
2968	195.584	124.419	174.665
2969	195.692	124.437	174.873
2970	195.687	124.454	174.623
2971	195.682	124.467	174.574
2972	195.573	124.48	174.518
2973	195.564	124.492	174.461
2974	195.554	124.504	174.404
2975	195.545	124.517	174.348
2976	195.536	124.529	174.291
2977	195.527	124.541	174.235
2978	195.517	124.554	174.178
2979	195.508	124.566	174.122
2980	195.499	124.578	174.066
2981	195.489	124.591	174.01
2982	195.48	124.603	173.954
2983	195.471	124.615	173.898
2984	195.462	124.627	173.842
2985	195.452	124.639	173.786
2986	195.443	124.652	173.731
2987	195.434	124.664	173.675
2988	195.425	124.676	173.62
2989	195.472	124.689	173.802
2990	195.52	124.707	173.982
2991	195.565	124.724	174.157
2992	195.608	124.74	174.319
2993	195.651	124.756	174.479
2994	195.699	124.772	174.646
2995	195.754	124.789	174.825
2996	195.817	124.807	175.016
2997	195.883	124.823	175.213
2998	195.952	124.838	175.424
2999	196.024	124.852	175.66
3000	196.088	124.863	175.86
3001	196.145	124.873	176.03
3002	196.194	124.882	176.179
3003	196.238	124.889	176.31
3004	196.279	124.895	176.428
3005	196.316	124.9	176.536

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012004

3006	33113.2	50.8849	97.0765	0.228062
3007	33127.3	50.2988	0	-0.187375
3008	33141.1	49.6943	0	-0.202851
3009	33154.8	48.8346	0	-0.21808
3010	33168.3	48.0371	0	-0.221773
3011	33181.5	47.2392	0	-0.221507
3012	33194.5	46.4423	0	-0.221244
3013	33207.3	45.7447	107.178	-1.40E-02
3014	33220.1	46.9228	276.301	0.478475
3015	33233.4	48.5888	266.558	0.451211
3016	33247.1	50.1667	257.472	0.427404
3017	33261.2	50.6172	0	-0.222551
3018	33275.1	49.8162	0	-0.222375
3019	33288.8	49.0162	0	-0.222103
3020	33302.4	48.2171	0	-0.221833
3021	33315.6	47.419	0	-0.221567
3022	33328.7	46.6219	0	-0.221303
3023	33341.5	45.8257	13.5724	-0.221043
3024	33354.3	46.359	279.598	0.485018
3025	33367.4	48.055	269.68	0.459306
3026	33381	49.6612	260.286	0.434949
3027	33395	50.9116	2.65962	2.17E-02
3028	33409	50.1868	0	-0.19996
3029	33422.9	49.4745	0	-0.196062
3030	33436.5	48.7761	0	-0.192224
3031	33450	48.0914	0	-0.188442
3032	33463.2	47.4338	53.2191	-0.111262
3033	33476.5	48.3865	267.741	0.491376
3034	33490.2	50.1049	257.781	0.465342
3035	33504.3	51.7387	249.819	0.444039
3036	33518.9	53.298	241.829	0.423782
3037	33533.9	54.7882	234.395	0.404407
3038	33549.3	56.21	228.279	0.388217
3039	33565.1	57.5788	222.569	0.373265
3040	33581.3	58.8949	217.078	0.358884
3041	33597.8	60.1604	211.985	0.345303
3042	33614.7	61.3848	208.302	0.336522
3043	33631.9	62.5745	204.723	0.326013
3044	33649.5	63.7305	201.246	0.316769
3045	33667.3	64.8537	197.867	0.307782
3046	33685.5	65.9464	194.927	0.299856
3047	33704	67.0115	192.114	0.292313
3048	33722.7	68.0498	189.371	0.284955
3049	33741.8	69.062	186.698	0.277778
3050	33761.1	70.0487	184.09	0.270779
3051	33780.7	71.0105	181.53	0.263902
3052	33800.5	71.9478	179.034	0.257196
3053	33820.7	72.8613	176.602	0.250657
3054	33841	73.7516	174.232	0.244281
3055	33861.6	74.6192	171.922	0.238084
3056	33882.5	75.4648	169.671	0.232004
3057	33903.6	76.2888	167.479	0.226097
3058	33924.9	77.0919	165.342	0.220338
3059	33946.4	77.8745	163.259	0.214724
3060	33968.1	78.6371	161.23	0.20925

3006	196.308	124.905	176.447
3007	196.259	124.892	176.276
3008	196.21	124.88	176.106
3009	196.163	124.867	175.935
3010	196.116	124.855	175.765
3011	196.069	124.843	175.595
3012	196.024	124.831	175.426
3013	196.019	124.839	175.349
3014	196.061	124.845	175.473
3015	196.099	124.849	175.587
3016	196.135	124.853	175.691
3017	196.086	124.84	175.523
3018	196.037	124.826	175.355
3019	195.989	124.813	175.187
3020	195.942	124.801	175.019
3021	195.896	124.788	174.852
3022	195.85	124.776	174.685
3023	195.837	124.783	174.576
3024	195.88	124.788	174.705
3025	195.919	124.792	174.824
3026	195.956	124.796	174.933
3027	195.914	124.788	174.778
3028	195.865	124.772	174.612
3029	195.817	124.758	174.447
3030	195.769	124.745	174.281
3031	195.722	124.731	174.116
3032	195.712	124.737	174.017
3033	195.751	124.741	174.136
3034	195.787	124.744	174.245
3035	195.821	124.747	174.346
3036	195.853	124.749	174.441
3037	195.883	124.75	174.528
3038	195.911	124.751	174.608
3039	195.939	124.751	174.68
3040	195.965	124.751	174.745
3041	195.99	124.75	174.804
3042	196.017	124.748	174.863
3043	196.046	124.746	174.922
3044	196.076	124.743	174.981
3045	196.108	124.739	175.04
3046	196.141	124.736	175.1
3047	196.174	124.73	175.161
3048	196.206	124.725	175.222
3049	196.239	124.719	175.284
3050	196.272	124.712	175.347
3051	196.306	124.705	175.411
3052	196.339	124.697	175.475
3053	196.373	124.689	175.539
3054	196.407	124.681	175.604
3055	196.441	124.672	175.669
3056	196.475	124.662	175.734
3057	196.51	124.652	175.799
3058	196.544	124.642	175.864
3059	196.579	124.632	175.929
3060	196.614	124.621	175.994

Handwritten scribbles or marks, possibly initials or a signature.

2004 03 21

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012835

3061	33990.1	79.3803	159.253	0.203911
3062	34012.2	79.9279	0	-0.201146
3063	34034.3	79.1978	0	-0.204379
3064	34056.2	78.4558	0	-0.207576
3065	34077.9	77.7026	0	-0.210737
3066	34099.4	76.9381	0	-0.21386
3067	34120.6	76.1623	0	-0.218947
3068	34141.7	75.3774	0	-0.218234
3069	34162.5	74.8354	145.558	0.110131
3070	34183.4	75.5684	169.398	0.205544
3071	34204.5	76.2959	167.46	0.198303
3072	34225.8	77.0001	165.588	0.193196
3073	34247.3	77.6864	163.76	0.188355
3074	34269	78.3623	161.961	0.186311
3075	34290.8	79.0252	160.198	0.182113
3076	34312.9	79.6728	158.474	0.17785
3077	34335	79.6752	0	-0.221256
3078	34357.1	78.8756	0	-0.222128
3079	34378.9	78.078	0	-0.222087
3080	34400.4	77.2767	0	-0.222006
3081	34421.8	76.4805	0	-0.220733
3082	34442.9	75.6866	0	-0.220372
3083	34463.8	74.8967	28.0617	-0.187767
3084	34484.7	75.2958	170.121	0.208534
3085	34505.7	76.0364	168.16	0.203226
3086	34526.9	76.7583	166.23	0.198051
3087	34548.3	77.4617	164.358	0.193005
3088	34569.9	78.1472	162.534	0.188086
3089	34591.7	78.8153	160.756	0.183291
3090	34613.7	79.4663	159.024	0.178616
3091	34635.9	79.9321	0	-0.222335
3092	34658	79.1324	0	-0.221959
3093	34679.8	78.3468	0	-0.209107
3094	34701.5	77.6396	0	-0.184942
3095	34723	77.019	0	-0.181021
3096	34744.3	76.484	0	-0.137318
3097	34765.5	76.0341	0	-0.113805
3098	34786.6	75.6684	0	-9.05E-02
3099	34807.3	75.1184	-246.141	-0.724915
3100	34827.4	71.9722	0	-6.47E-02
3101	34847.3	71.7397	0	-6.48E-02
3102	34867.2	71.5056	0	-6.91E-02
3103	34887.1	71.2529	0	-7.12E-02
3104	34906.8	70.9726	0	-8.26E-02
3105	34926.5	70.6712	0	-8.48E-02
3106	34946.1	70.3617	0	-8.71E-02
3107	34965.8	70.0448	0	-8.41E-02
3108	34985	69.7643	0	-7.44E-02
3109	35004.3	69.5109	0	-6.68E-02
3110	35023.6	69.2849	0	-5.92E-02
3111	35042.8	69.0861	0	-5.16E-02
3112	35062	68.9144	0	-4.41E-02
3113	35081.1	68.7697	0	-3.66E-02
3114	35100.2	68.6706	0	-2.11E-02
3115	35119.3	68.6074	0	-2.36E-02

3061	196.649	124.61	176.059
3062	196.587	124.585	175.905
3063	196.487	124.559	175.752
3064	196.407	124.534	175.597
3065	196.329	124.509	175.443
3066	196.252	124.484	175.288
3067	196.176	124.46	175.132
3068	196.1	124.435	174.977
3069	196.121	124.427	174.985
3070	196.156	124.417	175.051
3071	196.19	124.407	175.117
3072	196.225	124.397	175.183
3073	196.26	124.387	175.249
3074	196.294	124.377	175.315
3075	196.329	124.366	175.381
3076	196.364	124.355	175.447
3077	196.283	124.329	175.294
3078	196.203	124.304	175.141
3079	196.124	124.279	174.987
3080	196.047	124.254	174.833
3081	195.97	124.23	174.679
3082	195.894	124.206	174.524
3083	195.887	124.199	174.408
3084	195.921	124.189	174.473
3085	195.956	124.18	174.54
3086	195.99	124.17	174.608
3087	196.025	124.16	174.673
3088	196.06	124.15	174.74
3089	196.095	124.139	174.807
3090	196.13	124.128	174.873
3091	196.048	124.103	174.722
3092	195.968	124.078	174.57
3093	195.889	124.053	174.418
3094	195.81	124.028	174.265
3095	195.733	124.003	174.112
3096	195.656	123.979	173.959
3097	195.58	123.954	173.806
3098	195.505	123.93	173.654
3099	195.547	123.931	173.726
3100	195.476	123.908	173.57
3101	195.405	123.885	173.419
3102	195.334	123.862	173.28
3103	195.264	123.84	173.105
3104	195.194	123.817	172.951
3105	195.124	123.794	172.797
3106	195.055	123.771	172.643
3107	194.987	123.748	172.489
3108	194.918	123.726	172.335
3109	194.85	123.703	172.182
3110	194.782	123.68	172.029
3111	194.715	123.658	171.876
3112	194.647	123.635	171.724
3113	194.58	123.612	171.572
3114	194.513	123.59	171.42
3115	194.448	123.567	171.269



99403824

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012836

3116	35138.1	65.8045	-367.574	-1.08941
3117	35155.8	61.8822	-369.848	-1.0897
3118	35172.4	57.9539	-369.849	-1.09265
3119	35188	54.0159	-369.848	-1.09269
3120	35202.4	50.0867	-369.844	-1.09238
3121	35215.8	46.1501	-369.845	-1.09447
3122	35228.1	42.2062	-369.846	-1.09638
3123	35239.3	38.2557	-369.848	-1.09813
3124	35249.3	34.2993	-369.851	-1.09972
3125	35258.3	30.339	-369.851	-1.10002
3126	35266.2	26.379	-369.851	-1.09999
3127	35273	22.4191	-369.852	-1.09999
3128	35278.6	18.4591	-369.852	-1.09999
3129	35283.2	14.4991	-369.852	-1.1
3130	35286.7	10.5392	-369.852	-1.1
3131	35289.1	6.57931	-117.662	-1.09994
3132	35290.2	3.22617	-0.7917	-1.00303
3133	35290.8	0.847517	-0.20798	-0.750657
3134	35291	0	0	0
3135	35291	0	0	0
3136	35291	0	0	0
3137	35291	0	0	0
3138	35291	0	0	0
3139	35291	0	0	0
3140	35291	0	0	0
3141	35291	0	0	0
3142	35291	0	0	0
3143	35291	0	0	0
3144	35291	0	0	0
3145	35291	0	0	0
3146	35291	0	0	0
3147	35291	0	0	0
3148	35291	0	0	0
3149	35291	0	0	0
3150	35291	0	0	0
3151	35291.4	1.47504	397.182	0.35778
3152	35291.9	3.76654	397.182	0.9136
3153	35293.4	7.14959	397.181	0.984533
3154	35295.8	10.6921	397.181	0.983825
3155	35299.3	14.2323	397.181	0.983133
3156	35303.7	17.77	397.181	0.982408
3157	35309.2	21.3051	397.181	0.981639
3158	35315.6	24.8373	397.181	0.980821
3159	35323	28.3665	397.188	0.979971
3160	35331.3	31.8874	394.536	0.973789
3161	35340.7	35.3654	385.549	0.957911
3162	35351	38.6092	344.653	0.852655
3163	35362.1	41.5025	315.227	0.77119
3164	35374	44.1672	294.137	0.714295
3165	35386.6	46.6055	278.157	0.647191
3166	35399.9	48.86	264.972	0.608378
3167	35413.7	50.9799	253.409	0.573196
3168	35428.2	52.9835	243.401	0.542133
3169	35443.2	54.8776	233.938	0.512301
3170	35458.7	56.6943	226.259	0.488451

3116	194.528	123.571	171.504
3117	194.591	123.579	171.71
3118	194.648	123.588	171.894
3119	194.701	123.6	172.068
3120	194.749	123.614	172.22
3121	194.796	123.63	172.361
3122	194.845	123.648	172.5
3123	194.894	123.669	172.638
3124	194.94	123.691	172.775
3125	194.999	123.712	172.926
3126	195.055	123.731	173.08
3127	195.102	123.748	173.218
3128	195.142	123.765	173.344
3129	195.181	123.782	173.475
3130	195.212	123.798	173.581
3131	195.218	123.818	173.581
3132	195.213	123.833	173.532
3133	195.208	123.845	173.485
3134	195.199	123.858	173.428
3135	195.19	123.87	173.372
3136	195.18	123.882	173.318
3137	195.171	123.895	173.26
3138	195.162	123.907	173.204
3139	195.153	123.919	173.148
3140	195.143	123.932	173.093
3141	195.134	123.944	173.037
3142	195.125	123.956	172.981
3143	195.115	123.968	172.926
3144	195.106	123.981	172.87
3145	195.097	123.993	172.815
3146	195.088	124.005	172.759
3147	195.078	124.017	172.704
3148	195.069	124.029	172.649
3149	195.08	124.041	172.594
3150	195.05	124.053	172.539
3151	195.098	124.067	172.721
3152	195.145	124.085	172.902
3153	195.191	124.102	173.076
3154	195.233	124.118	173.238
3155	195.276	124.133	173.399
3156	195.325	124.15	173.568
3157	195.38	124.167	173.748
3158	195.443	124.185	173.941
3159	195.51	124.202	174.139
3160	195.579	124.217	174.353
3161	195.65	124.231	174.585
3162	195.712	124.242	174.779
3163	195.768	124.252	174.944
3164	195.812	124.26	175.085
3165	195.854	124.267	175.209
3166	195.892	124.272	175.32
3167	195.927	124.277	175.421
3168	195.958	124.281	175.512
3169	195.988	124.284	175.595
3170	196.016	124.286	175.667



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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012837

3171	35474.7	58.4459	218.951	0.476192
3172	35491.1	60.1202	212.106	0.456092
3173	35508.1	61.7374	207.242	0.443167
3174	35525.4	63.3088	202.515	0.4306
3175	35543.2	64.8356	197.922	0.41838
3176	35561.4	66.321	193.938	0.407633
3177	35580	67.3177	0	-8.18E-02
3178	35598.7	67.0356	0	-7.04E-02
3179	35617.3	68.7877	0	-6.75E-02
3180	35635.8	66.5503	0	-6.46E-02
3181	35654.3	66.3233	0	-6.17E-02
3182	35672.7	66.5894	192.032	0.403355
3183	35691.4	68.1036	189.229	0.416141
3184	35710.5	69.5818	185.325	0.405655
3185	35730	71.0227	181.497	0.395376
3186	35750	72.427	177.759	0.385324
3187	35770.3	73.7956	174.115	0.375521
3188	35791	75.1293	170.564	0.36596
3189	35812	76.4292	167.105	0.356641
3190	35833.4	76.7219	-297.211	-0.775714
3191	35854.2	72.9041	-342.26	-1.13425
3192	35873.9	68.8175	-359.058	-1.13913
3193	35892.4	64.7435	-369.848	-1.05371
3194	35910	62.4727	-51.3903	-0.252932
3195	35927.3	62.1556	0	-7.94E-02
3196	35944.5	61.8539	0	-8.97E-02
3197	35961.7	61.5135	0	-9.89E-02
3198	35978.7	61.1394	0	-0.108357
3199	35995.6	60.7031	0	-0.130261
3200	36012.4	60.2159	0	-0.139844
3201	36029.1	59.6929	0	-0.150108
3202	36045.6	59.1378	0	-0.156054
3203	36062	58.5608	0	-0.145262
3204	36078.2	58.0682	0	-0.145054
3205	36094.2	57.5463	0	-0.144868
3206	36110.1	57.0265	0	-0.141075
3207	36125.9	56.5679	0	-0.115377
3208	36141.6	56.2015	0	-8.99E-02
3209	36157.1	55.9263	0	-6.46E-02
3210	36172.6	55.742	0	-3.94E-02
3211	36188.1	55.6481	0	-1.44E-02
3212	36203.6	55.6443	0	1.06E-02
3213	36219	55.7101	0	2.31E-02
3214	36234.5	55.8124	0	3.31E-02
3215	36250	55.9494	0	3.96E-02
3216	36265.6	56.063	0	2.45E-02
3217	36281.2	56.1221	0	9.32E-03
3218	36296.8	56.1266	0	-5.82E-03
3219	36312.4	56.0767	0	-2.09E-02
3220	36327.9	56.0094	0	-2.16E-02
3221	36343.5	55.9079	0	-3.40E-02
3222	36359	55.7823	0	-3.37E-02
3223	36374.2	52.9714	-369.847	-1.1021
3224	36388.4	49.0085	-369.844	-1.09999
3225	36401.4	45.0486	-369.845	-1.1

3171	196.042	124.288	175.731
3172	196.067	124.289	175.785
3173	196.094	124.289	175.84
3174	196.123	124.288	175.896
3175	196.155	124.286	175.951
3176	196.187	124.284	176.007
3177	196.12	124.264	175.842
3178	196.054	124.244	175.678
3179	195.988	124.224	175.515
3180	195.923	124.204	175.352
3181	195.857	124.184	175.189
3182	195.889	124.181	175.244
3183	195.922	124.177	175.304
3184	195.954	124.172	175.365
3185	195.987	124.168	175.426
3186	196.021	124.159	175.489
3187	196.055	124.152	175.552
3188	196.088	124.144	175.616
3189	196.123	124.135	175.68
3190	196.193	124.135	175.872
3191	196.277	124.137	176.126
3192	196.359	124.142	176.369
3193	196.436	124.15	176.587
3194	196.432	124.161	176.478
3195	196.37	124.144	176.31
3196	196.309	124.128	176.142
3197	196.248	124.111	175.975
3198	196.187	124.095	175.807
3199	196.127	124.078	175.64
3200	196.068	124.062	175.474
3201	196.009	124.046	175.307
3202	195.95	124.03	175.14
3203	195.893	124.014	174.974
3204	195.836	123.998	174.808
3205	195.779	123.982	174.642
3206	195.723	123.966	174.477
3207	195.668	123.951	174.311
3208	195.613	123.935	174.146
3209	195.558	123.92	173.982
3210	195.504	123.904	173.818
3211	195.449	123.889	173.654
3212	195.395	123.873	173.491
3213	195.34	123.858	173.328
3214	195.286	123.842	173.166
3215	195.231	123.826	173.004
3216	195.177	123.809	172.843
3217	195.122	123.793	172.682
3218	195.067	123.776	172.522
3219	195.013	123.76	172.362
3220	194.958	123.743	172.203
3221	194.904	123.727	172.044
3222	194.85	123.71	171.886
3223	194.902	123.722	172.054
3224	194.95	123.736	172.203
3225	194.998	123.752	172.342

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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012838

3226	36413.4	41.0886	-369.846	-1.09999
3227	36424.2	37.1286	-369.849	-1.09999
3228	36434	33.1687	-369.851	-1.09999
3229	36442.7	29.2087	-369.851	-1.09999
3230	36450.2	25.2487	-369.852	-1.1
3231	36456.7	21.2888	-369.852	-1.09999
3232	36462.1	17.3288	-369.852	-1.09999
3233	36466.3	13.3688	-369.852	-1.09999
3234	36469.5	9.40887	-326.271	-1.09999
3235	36471.5	5.44918	-34.3431	-1.09969
3236	36472.4	2.54722	-0.62509	-0.930998
3237	36473	0.168574	-4.14E-02	-0.678622
3238	36473	0	0	0
3239	36473	0	0	0
3240	36473	0	0	0
3241	36473	0	0	0
3242	36473	0	0	0
3243	36473	0	0	0
3244	36473	0	0	0
3245	36473	0	0	0
3246	36473	0	0	0
3247	36473	0	0	0
3248	36473	0	0	0
3249	36473	0	0	0
3250	36473	0	0	0
3251	36473	0	0	0
3252	36473	0	0	0
3253	36473	0	0	0
3254	36473	0	0	0
3255	36473.5	2.12911	397.182	0.516429
3256	36474.2	4.61682	397.182	0.985106
3257	36478	8.16102	397.181	0.984318
3258	36478.7	11.7029	397.181	0.98363
3259	36482.5	15.2423	397.181	0.98293
3260	36487.2	18.7793	397.181	0.982193
3261	36492.9	22.3136	397.181	0.98141
3262	36499.6	25.8449	397.182	0.98058
3263	36507.3	29.3733	397.191	0.97972
3264	36515.9	32.8853	393.132	0.969934
3265	36525.5	36.3305	373.381	0.928438
3266	36536.1	39.4698	333.803	0.825903
3267	36547.4	42.2977	308.933	0.758397
3268	36559.5	44.9226	288.177	0.704655
3269	36572.4	47.3814	273.619	0.665854
3270	36585.8	49.7098	260.002	0.630507
3271	36600	51.9207	248.71	0.600762
3272	36614.7	54.0303	238.171	0.573308
3273	36630	56.0455	228.965	0.548988
3274	36645.8	57.9812	220.89	0.52783
3275	36662.2	59.8423	213.126	0.507478
3276	36679.1	61.6347	207.551	0.488869
3277	36696.4	63.368	202.337	0.474943
3278	36714.3	65.0519	197.29	0.461067
3279	36732.5	66.6847	192.977	0.449444
3280	36751.3	67.9221	0	3.02E-02

3226	195.046	123.771	172.482
3227	195.093	123.792	172.62
3228	195.143	123.814	172.761
3229	195.201	123.834	172.913
3230	195.257	123.852	173.068
3231	195.3	123.869	173.2
3232	195.34	123.886	173.329
3233	195.377	123.902	173.453
3234	195.403	123.919	173.538
3235	195.401	123.937	173.505
3236	195.396	123.952	173.456
3237	195.392	123.963	173.411
3238	195.383	123.976	173.355
3239	195.373	123.988	173.299
3240	195.364	124	173.243
3241	195.355	124.013	173.187
3242	195.345	124.025	173.131
3243	195.336	124.037	173.076
3244	195.327	124.05	173.02
3245	195.318	124.062	172.965
3246	195.308	124.074	172.909
3247	195.299	124.088	172.854
3248	195.29	124.098	172.799
3249	195.28	124.11	172.743
3250	195.271	124.122	172.688
3251	195.262	124.135	172.633
3252	195.252	124.147	172.578
3253	195.243	124.159	172.523
3254	195.234	124.171	172.469
3255	195.281	124.185	172.65
3256	195.329	124.203	172.833
3257	195.373	124.22	173.003
3258	195.416	124.235	173.166
3259	195.46	124.251	173.327
3260	195.51	124.267	173.5
3261	195.567	124.284	173.685
3262	195.632	124.302	173.88
3263	195.699	124.318	174.081
3264	195.769	124.333	174.302
3265	195.837	124.346	174.524
3266	195.897	124.356	174.708
3267	195.949	124.365	174.866
3268	195.993	124.372	175.001
3269	196.033	124.379	175.122
3270	196.07	124.384	175.229
3271	196.103	124.388	175.326
3272	196.134	124.391	175.413
3273	196.162	124.393	175.49
3274	196.189	124.395	175.557
3275	196.213	124.396	175.613
3276	196.24	124.395	175.669
3277	196.27	124.394	175.725
3278	196.301	124.392	175.781
3279	196.334	124.389	175.838
3280	196.286	124.368	175.675



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ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012833

3281	36770.1	67.764	0	-4.55E-02
3282	36788.9	67.5941	0	-4.87E-02
3283	36807.6	66.4871	-338.288	-0.860439
3284	36825.8	62.5812	-369.848	-1.12202
3285	36842.4	58.5356	-369.849	-1.12529
3286	36858.1	54.4796	-369.848	-1.12718
3287	36872.7	51.4021	-152.412	-0.494567
3288	36886.9	50.83	0	-5.44E-02
3289	36901	50.6344	0	-5.43E-02
3290	36915	50.439	0	-5.42E-02
3291	36929	50.2439	0	-5.42E-02
3292	36942.9	50.049	0	-5.41E-02
3293	36956.8	49.7976	0	-9.23E-02
3294	36970.6	49.4586	0	-9.58E-02
3295	36984.3	49.107	0	-9.93E-02
3296	36997.9	48.7429	0	-0.102744
3297	37011.4	48.3863	0	-0.106177
3298	37024.8	47.9966	0	-9.04E-02
3299	37038	47.6715	0	-9.02E-02
3300	37051.2	47.3468	0	-9.01E-02
3301	37064.3	47.0225	0	-9.00E-02
3302	37077.4	46.6986	0	-8.99E-02
3303	37090.3	46.3751	0	-8.98E-02
3304	37103.1	46.052	0	-8.96E-02
3305	37115.9	45.7657	0	-7.08E-02
3306	37128.8	45.5478	0	-5.18E-02
3307	37141.2	45.398	0	-3.30E-02
3308	37153.8	45.3159	0	-1.42E-02
3309	37166.4	45.3013	0	4.57E-03
3310	37179	45.3541	0	2.33E-02
3311	37191.6	45.5016	0	5.32E-02
3312	37204.2	45.7354	0	7.49E-02
3313	37217	46.046	0	9.60E-02
3314	37229.8	46.4316	0	0.119587
3315	37242.8	46.8906	0	0.136744
3316	37255.9	47.3899	0	0.153156
3317	37269.1	47.8324	0	0.115354
3318	37282.5	48.2406	0	0.111696
3319	37295.9	48.6356	0	0.108011
3320	37309.5	49.0173	0	0.104302
3321	37323.1	49.3856	0	0.10057
3322	37336.9	49.786	0	0.117467
3323	37350.8	50.2086	0	0.117322
3324	37364.5	50.6307	0	0.117176
3325	37378.9	50.9117	-46.4829	0
3326	37393.1	50.9117	-46.4829	0
3327	37407.2	50.9117	-46.4829	0
3328	37421.3	50.9117	-46.4829	0
3329	37435.5	50.9117	-46.4829	0
3330	37449.6	50.9117	-46.4829	0
3331	37463.8	50.9117	-42.4353	0
3332	37477.9	50.9117	-35.1665	0
3333	37492.1	50.9117	-27.8976	0
3334	37506.2	50.9117	-20.6288	0
3335	37520.3	50.9117	-13.36	0

3281	196.199	124.348	175.512
3282	196.133	124.327	175.35
3283	196.2	124.334	175.528
3284	196.267	124.342	175.731
3285	196.324	124.354	175.909
3286	196.377	124.367	176.077
3287	196.38	124.383	176.024
3288	196.33	124.37	175.852
3289	196.28	124.358	175.682
3290	196.23	124.345	175.512
3291	196.181	124.333	175.342
3292	196.131	124.321	175.173
3293	196.082	124.308	175.004
3294	196.034	124.296	174.836
3295	195.985	124.283	174.668
3296	195.938	124.271	174.5
3297	195.89	124.259	174.333
3298	195.843	124.247	174.166
3299	195.796	124.235	174
3300	195.749	124.223	173.834
3301	195.703	124.211	173.669
3302	195.657	124.199	173.504
3303	195.611	124.187	173.339
3304	195.566	124.176	173.175
3305	195.521	124.164	173.011
3306	195.476	124.152	172.848
3307	195.431	124.141	172.685
3308	195.386	124.129	172.523
3309	195.342	124.117	172.362
3310	195.297	124.105	172.2
3311	195.252	124.093	172.04
3312	195.207	124.08	171.88
3313	195.162	124.068	171.72
3314	195.118	124.055	171.561
3315	195.07	124.041	171.403
3316	195.024	124.027	171.245
3317	194.977	124.013	171.088
3318	194.93	123.999	170.931
3319	194.883	123.984	170.775
3320	194.836	123.969	170.619
3321	194.788	123.954	170.464
3322	194.739	123.938	170.31
3323	194.691	123.923	170.156
3324	194.642	123.906	170.003
3325	194.637	123.918	169.931
3326	194.631	123.929	169.859
3327	194.626	123.94	169.788
3328	194.621	123.951	169.717
3329	194.616	123.962	169.646
3330	194.611	123.973	169.575
3331	194.606	123.984	169.505
3332	194.601	123.995	169.433
3333	194.595	124.006	169.361
3334	194.582	124.011	169.275
3335	194.556	124.009	169.166

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012840

3336	37634.5	50.9117	-6.09115	0
3337	37548.6	50.5651	-260.598	-0.590456
3338	37562.2	47.1775	-369.845	-1.07018
3339	37574.8	43.2994	-369.845	-1.08313
3340	37586.3	39.3768	-369.847	-1.09497
3341	37596.7	35.4133	-369.851	-1.10559
3342	37606	31.4368	-369.851	-1.10351
3343	37614.1	27.4688	-369.851	-1.10135
3344	37621.2	23.5072	-369.852	-1.09999
3345	37627.2	19.5472	-369.852	-1.1
3346	37632.1	15.5873	-369.852	-1.09999
3347	37635.9	11.6273	-369.852	-1.09999
3348	37638.5	7.66739	-197.881	-1.09996
3349	37640.1	3.87979	-0.9521	-1.07238
3350	37640.6	1.50114	-0.36838	-0.820006
3351	37641	0	0	0
3352	37641	0	0	0
3353	37641	0	0	0
3354	37641	0	0	0
3355	37641	0	0	0
3356	37641	0	0	0
3357	37641	0	0	0
3358	37641	0	0	0
3359	37641	0	0	0
3360	37641	0	0	0
3361	37641	0	0	0
3362	37641	0	0	0
3363	37641	0	0	0
3364	37641	0	0	0
3365	37641	0	0	0
3366	37641	0	0	0
3367	37641	0	0	0
3368	37641.2	0.845368	397.182	0.205048
3369	37641.8	3.13687	397.182	0.760869
3370	37642.9	6.17577	397.181	0.984745
3371	37645.1	9.71895	397.181	0.984013
3372	37648.3	13.2598	397.181	0.983328
3373	37652.4	16.7982	397.181	0.982611
3374	37657.6	20.3339	397.181	0.981855
3375	37663.7	23.867	397.181	0.98105
3376	37670.8	27.397	397.186	0.980208
3377	37678.9	30.9231	395.893	0.977513
3378	37688	34.4152	390.979	0.964022
3379	37698	37.7666	355.403	0.881825
3380	37709	40.741	321.254	0.790291
3381	37720.7	43.4758	299.809	0.73427
3382	37733.1	46.0206	281.577	0.686513
3383	37746.2	48.4188	267.552	0.648387
3384	37760	50.6618	254.899	0.612482
3385	37774.4	52.8273	244.181	0.581785
3386	37789.3	54.8649	234.002	0.552333
3387	37804.8	56.8049	225.798	0.527563
3388	37820.9	58.6592	218.062	0.504171
3389	37837.4	60.4307	211.172	0.480349
3390	37854.4	62.1276	206.088	0.463411

3336	194.517	123.998	169.035
3337	194.538	124.009	169.077
3338	194.585	124.021	169.231
3339	194.633	124.036	169.379
3340	194.684	124.053	169.528
3341	194.729	124.072	169.674
3342	194.784	124.09	169.831
3343	194.842	124.106	169.994
3344	194.893	124.121	170.148
3345	194.932	124.135	170.282
3346	194.973	124.15	170.424
3347	195.006	124.164	170.545
3348	195.02	124.178	170.586
3349	195.015	124.195	170.546
3350	195.01	124.207	170.506
3351	195	124.218	170.453
3352	194.991	124.23	170.401
3353	194.982	124.241	170.348
3354	194.973	124.253	170.296
3355	194.964	124.264	170.244
3356	194.954	124.276	170.192
3357	194.945	124.287	170.14
3358	194.936	124.298	170.088
3359	194.927	124.31	170.036
3360	194.917	124.321	169.984
3361	194.908	124.332	169.932
3362	194.899	124.344	169.881
3363	194.89	124.355	169.829
3364	194.881	124.366	169.778
3365	194.871	124.378	169.726
3366	194.862	124.389	169.675
3367	194.853	124.4	169.623
3368	194.9	124.41	169.812
3369	194.948	124.425	170
3370	194.994	124.441	170.185
3371	195.037	124.455	170.356
3372	195.081	124.468	170.525
3373	195.127	124.482	170.699
3374	195.18	124.496	170.884
3375	195.242	124.511	171.062
3376	195.308	124.526	171.288
3377	195.376	124.539	171.503
3378	195.447	124.551	171.743
3379	195.512	124.56	171.956
3380	195.569	124.567	172.135
3381	195.617	124.573	172.291
3382	195.66	124.577	172.427
3383	195.699	124.581	172.549
3384	195.735	124.583	172.659
3385	195.767	124.584	172.76
3386	195.797	124.584	172.851
3387	195.825	124.584	172.932
3388	195.851	124.583	173.003
3389	195.877	124.581	173.066
3390	195.905	124.578	173.13

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012841

3391	37871.9	63.7644	201.144	0.446897
3392	37889.9	65.3458	196.514	0.43344
3393	37908.2	66.8875	192.442	0.424069
3394	37927	68.3942	188.462	0.413587
3395	37946.2	69.8637	184.58	0.403364
3396	37965.8	71.2968	180.768	0.393331
3397	37985.8	72.694	177.047	0.383412
3398	38006.2	74.0558	173.422	0.373656
3399	38027	75.383	169.889	0.364142
3400	38048	75.9589	0	-6.44E-02
3401	38069.1	75.7251	0	-6.43E-02
3402	38090.1	75.4937	0	-6.42E-02
3403	38111	75.2627	0	-6.41E-02
3404	38131.9	75.032	0	-6.40E-02
3405	38152.7	74.8017	0	-6.39E-02
3406	38173.5	74.5718	0	-6.38E-02
3407	38194.1	74.3423	0	-6.37E-02
3408	38214.8	74.1131	0	-6.36E-02
3409	38235.3	73.8843	0	-6.35E-02
3410	38255.8	73.6558	0	-6.34E-02
3411	38276.2	73.4278	0	-6.33E-02
3412	38296.6	73.2	0	-6.32E-02
3413	38316.9	72.9727	0	-6.31E-02
3414	38337.1	72.7457	0	-6.30E-02
3415	38357.3	72.5191	0	-6.29E-02
3416	38377.4	72.2928	0	-6.28E-02
3417	38397.5	72.0669	0	-6.27E-02
3418	38417.5	71.8414	0	-6.26E-02
3419	38437.4	71.6162	0	-6.25E-02
3420	38457.3	71.3913	0	-6.24E-02
3421	38477.1	71.1668	0	-6.23E-02
3422	38496.8	70.9427	0	-6.22E-02
3423	38516.5	70.7218	0	-5.97E-02
3424	38536.1	70.5142	0	-5.58E-02
3425	38555.3	67.1207	-363.854	-1.11723
3426	38573.4	63.1054	-369.848	-1.11372
3427	38590.3	59.1023	-369.849	-1.11043
3428	38606.2	55.1108	-369.849	-1.10736
3429	38621	51.1299	-369.845	-1.10448
3430	38634.6	47.1589	-369.845	-1.10183
3431	38647.2	43.1967	-369.845	-1.09989
3432	38658.6	39.2368	-369.847	-1.09999
3433	38669	35.2788	-369.851	-1.1
3434	38678.2	31.3189	-369.851	-1.09999
3435	38686.3	27.3589	-369.851	-1.09999
3436	38693.4	23.3989	-369.852	-1.09999
3437	38699.3	19.4389	-369.852	-1.09999
3438	38704.2	15.477	-369.852	-1.09999
3439	38707.9	11.517	-369.852	-1.09999
3440	38710.6	7.55711	-189.75	-1.09996
3441	38712.1	3.61354	-0.93585	-1.06535
3442	38712.7	1.43489	-0.35212	-0.812978
3443	38713	0	0	0
3444	38713	0	0	0
3445	38713	0	0	0

3391	195.935	124.574	173.193
3392	195.967	124.569	173.257
3393	196	124.564	173.322
3394	196.033	124.557	173.388
3395	196.066	124.55	173.455
3396	196.099	124.541	173.523
3397	196.133	124.532	173.592
3398	196.167	124.523	173.662
3399	196.202	124.512	173.732
3400	196.126	124.487	173.581
3401	196.05	124.461	173.431
3402	195.975	124.435	173.28
3403	195.9	124.41	173.13
3404	195.825	124.384	172.98
3405	195.751	124.359	172.831
3406	195.677	124.333	172.681
3407	195.603	124.307	172.532
3408	195.53	124.282	172.383
3409	195.457	124.256	172.234
3410	195.384	124.231	172.085
3411	195.312	124.205	171.937
3412	195.239	124.18	171.789
3413	195.168	124.154	171.64
3414	195.096	124.129	171.493
3415	195.025	124.103	171.345
3416	194.954	124.078	171.198
3417	194.884	124.053	171.051
3418	194.813	124.027	170.904
3419	194.743	124.002	170.757
3420	194.674	123.976	170.611
3421	194.604	123.951	170.465
3422	194.535	123.926	170.319
3423	194.466	123.9	170.173
3424	194.398	123.875	170.028
3425	194.479	123.877	170.275
3426	194.55	123.882	170.494
3427	194.607	123.889	170.685
3428	194.662	123.899	170.867
3429	194.712	123.911	171.029
3430	194.759	123.925	171.177
3431	194.807	123.941	171.32
3432	194.858	123.96	171.463
3433	194.903	123.981	171.603
3434	194.958	124	171.755
3435	195.018	124.018	171.912
3436	195.068	124.035	172.06
3437	195.105	124.05	172.189
3438	195.146	124.066	172.325
3439	195.179	124.081	172.441
3440	195.192	124.097	172.474
3441	195.187	124.115	172.428
3442	195.182	124.128	172.384
3443	195.173	124.14	172.329
3444	195.163	124.152	172.274
3445	195.154	124.164	172.22

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012842

3446	38713	0	0	0
3447	38713	0	0	0
3448	38713	0	0	0
3449	38713	0	0	0
3450	38713	0	0	0
3451	38713	0	0	0
3452	38713	0	0	0
3453	38713	0	0	0
3454	38713	0	0	0
3455	38713	0	0	0
3456	38713	0	0	0
3457	38713	0	0	0
3458	38713	0	0	0
3459	38713	0	0	0
3460	38713.2	0.909185	397.182	0.220529
3461	38713.8	3.20069	397.182	0.776349
3462	38714.9	6.2745	397.181	0.984722
3463	38717.1	9.81758	397.181	0.983994
3464	38720.4	13.3583	397.181	0.983307
3465	38724.8	18.8967	397.181	0.982591
3466	38729.7	20.4324	397.181	0.981833
3467	38735.9	23.9653	397.181	0.981027
3468	38743.1	27.4953	397.186	0.980184
3469	38751.2	31.021	395.755	0.977135
3470	38760.3	34.5117	390.843	0.963649
3471	38770.3	37.8441	354.299	0.878965
3472	38781.3	40.8198	320.63	0.788676
3473	38793	43.5493	299.027	0.732766
3474	38805.4	46.0891	281.176	0.685472
3475	38818.6	48.486	267.159	0.649085
3476	38832.4	50.7563	254.527	0.615332
3477	38846.8	52.9119	243.758	0.584479
3478	38861.8	54.959	233.532	0.554918
3479	38877.3	56.9087	225.364	0.530231
3480	38893.4	58.7724	217.589	0.506729
3481	38909.9	60.5539	210.802	0.485341
3482	38927	62.2686	205.644	0.468314
3483	38944.5	63.9228	200.688	0.451671
3484	38962.5	65.518	196.059	0.435802
3485	38980.9	67.0621	191.98	0.423524
3486	38999.8	68.5665	188.007	0.412858
3487	39019	70.033	184.132	0.402453
3488	39038.7	71.4619	180.328	0.391404
3489	39058.7	72.852	176.627	0.381439
3490	39079.1	74.2068	173.02	0.371745
3491	39099.9	75.5268	140.551	0.327888
3492	39120.9	75.5776	0	-6.44E-02
3493	39141.9	75.3461	0	-6.42E-02
3494	39162.8	75.1152	0	-6.41E-02
3495	39183.6	74.8848	0	-6.40E-02
3496	39204.4	74.6548	0	-6.39E-02
3497	39225.1	74.4251	0	-6.38E-02
3498	39245.8	74.1958	0	-6.36E-02
3499	39266.3	73.9668	0	-6.35E-02
3500	39286.9	73.7383	0	-6.34E-02

3446	195.145	124.178	172.185
3447	195.135	124.188	172.111
3448	195.126	124.199	172.057
3449	195.117	124.211	172.002
3450	195.108	124.223	171.948
3451	195.098	124.235	171.894
3452	195.089	124.247	171.84
3453	195.08	124.259	171.786
3454	195.071	124.271	171.732
3455	195.061	124.282	171.678
3456	195.052	124.294	171.625
3457	195.043	124.306	171.571
3458	195.034	124.318	171.518
3459	195.024	124.329	171.464
3460	195.072	124.341	171.65
3461	195.119	124.357	171.833
3462	195.166	124.373	172.013
3463	195.209	124.389	172.18
3464	195.252	124.403	172.344
3465	195.298	124.418	172.514
3466	195.352	124.434	172.695
3467	195.413	124.451	172.888
3468	195.479	124.467	173.089
3469	195.548	124.481	173.3
3470	195.619	124.494	173.536
3471	195.683	124.505	173.743
3472	195.74	124.514	173.918
3473	195.788	124.521	174.068
3474	195.831	124.527	174.197
3475	195.889	124.531	174.314
3476	195.905	124.535	174.419
3477	195.937	124.537	174.514
3478	195.966	124.539	174.6
3479	195.994	124.54	174.675
3480	196.02	124.54	174.74
3481	196.046	124.54	174.799
3482	196.074	124.538	174.858
3483	196.104	124.535	174.918
3484	196.136	124.532	174.975
3485	196.169	124.528	175.035
3486	196.202	124.522	175.097
3487	196.234	124.516	175.16
3488	196.268	124.509	175.224
3489	196.301	124.501	175.288
3490	196.335	124.493	175.353
3491	196.355	124.484	175.354
3492	196.279	124.46	175.198
3493	196.204	124.435	175.042
3494	196.129	124.411	174.888
3495	196.054	124.387	174.731
3496	195.98	124.363	174.575
3497	195.906	124.339	174.421
3498	195.832	124.314	174.266
3499	195.759	124.29	174.111
3500	195.685	124.266	173.957

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012843

3501	39307.3	73.5101	0	-6.33E-02
3502	39327.7	73.2822	0	-6.32E-02
3503	39348	73.0548	0	-6.31E-02
3504	39368.3	72.8276	0	-6.30E-02
3505	39388.5	72.5978	0	-6.73E-02
3506	39408.6	72.331	0	-8.02E-02
3507	39428.7	72.0179	0	-9.31E-02
3508	39448.6	71.6587	0	-0.105838
3509	39468.5	71.2537	0	-0.11851
3510	39488.2	70.8032	0	-0.131087
3511	39507.8	70.3077	0	-0.14356
3512	39527.1	67.8108	-351.903	-1.20826
3513	39545.3	63.4905	-369.848	-1.19292
3514	39562.4	59.2236	-369.849	-1.17859
3515	39578.2	55.0065	-369.849	-1.16524
3516	39593	51.6252	-181.111	-0.591519
3517	39607.2	50.8376	0	-6.81E-02
3518	39621.3	50.6155	0	-5.62E-02
3519	39635.3	50.4362	0	-4.43E-02
3520	39649.3	50.2996	0	-3.25E-02
3521	39663.3	50.1986	0	-2.70E-02
3522	39677.2	50.0608	0	-6.50E-02
3523	39691.1	49.8201	0	-6.85E-02
3524	39704.9	49.5665	0	-7.21E-02
3525	39718.6	49.3001	0	-7.56E-02
3526	39732.3	49.0211	0	-7.91E-02
3527	39745.8	48.7438	0	-6.34E-02
3528	39759.3	48.5156	0	-6.33E-02
3529	39772.8	48.2877	0	-6.33E-02
3530	39786.2	48.0601	0	-6.32E-02
3531	39799.5	47.8327	0	-6.31E-02
3532	39812.7	47.6057	0	-6.30E-02
3533	39825.9	47.3789	0	-6.30E-02
3534	39839.1	47.1524	0	-6.29E-02
3535	39852.1	46.9756	0	-4.21E-02
3536	39864.9	44.0311	-369.845	-1.11282
3537	39876.6	40.031	-369.846	-1.10975
3538	39887.1	36.0416	-369.85	-1.10695
3539	39896.6	32.0616	-369.851	-1.10445
3540	39904.9	28.0901	-369.851	-1.10225
3541	39912.2	24.126	-369.852	-1.10034
3542	39918.3	20.166	-369.852	-1.1
3543	39923.4	16.206	-369.852	-1.09999
3544	39927.3	12.246	-369.852	-1.09999
3545	39930.2	8.28609	-243.494	-1.09997
3546	39931.9	4.32655	-1.06174	-1.09983
3547	39932.5	1.87278	-0.45858	-0.859438
3548	39933	0	0	0
3549	39933	0	0	0
3550	39933	0	0	0
3551	39933	0	0	0
3552	39933	0	0	0
3553	39933	0	0	0
3554	39933	0	0	0
3555	39933	0	0	0

3501	195.613	124.242	173.803
3502	195.54	124.217	173.649
3503	195.468	124.193	173.495
3504	195.396	124.169	173.342
3505	195.325	124.145	173.189
3506	195.254	124.121	173.036
3507	195.183	124.097	172.883
3508	195.112	124.073	172.731
3509	195.043	124.049	172.578
3510	194.973	124.025	172.426
3511	194.905	124.001	172.274
3512	194.986	124.004	172.519
3513	195.058	124.01	172.736
3514	195.116	124.019	172.923
3515	195.17	124.031	173.1
3516	195.177	124.044	173.071
3517	195.128	124.03	172.909
3518	195.078	124.015	172.747
3519	195.029	124.001	172.585
3520	194.98	123.987	172.424
3521	194.932	123.972	172.263
3522	194.883	123.958	172.103
3523	194.835	123.944	171.943
3524	194.787	123.929	171.784
3525	194.739	123.915	171.625
3526	194.691	123.901	171.466
3527	194.644	123.886	171.308
3528	194.597	123.872	171.15
3529	194.55	123.858	170.993
3530	194.503	123.843	170.836
3531	194.457	123.829	170.679
3532	194.411	123.815	170.523
3533	194.365	123.801	170.368
3534	194.319	123.787	170.212
3535	194.273	123.773	170.058
3536	194.321	123.788	170.203
3537	194.372	123.805	170.349
3538	194.418	123.825	170.492
3539	194.471	123.844	170.643
3540	194.529	123.862	170.803
3541	194.582	123.878	170.958
3542	194.622	123.893	171.089
3543	194.663	123.908	171.226
3544	194.697	123.923	171.349
3545	194.715	123.938	171.406
3546	194.71	123.955	171.363
3547	194.705	123.968	171.32
3548	194.696	123.98	171.267
3549	194.687	123.992	171.213
3550	194.678	124.004	171.159
3551	194.668	124.015	171.106
3552	194.659	124.027	171.053
3553	194.65	124.039	170.999
3554	194.641	124.05	170.946
3555	194.631	124.062	170.893

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012844

3556	39933	0	0	0
3557	39933	0	0	0
3558	39933	0	0	0
3559	39933	0	0	0
3560	39933	0	0	0
3561	39933	0	0	0
3562	39933	0	0	0
3563	39933	0	0	0
3564	39933	0	0	0
3565	39933.1	0.487335	397.182	0.118206
3566	39933.7	2.77884	397.182	0.674026
3567	39934.6	5.62192	397.181	0.984873
3568	39936.7	9.18548	397.181	0.984121
3569	39939.7	12.7087	397.181	0.983435
3570	39943.7	16.2455	397.181	0.982726
3571	39948.7	19.7817	397.181	0.981976
3572	39954.7	23.3151	397.181	0.981179
3573	39961.7	26.8457	397.185	0.980342
3574	39969.6	30.373	396.667	0.979211
3575	39978.5	33.8727	391.743	0.968119
3576	39988.4	37.2581	381.687	0.898112
3577	39999.2	40.2952	324.782	0.799566
3578	40010.8	43.0617	302.887	0.742751
3579	40023.1	45.6336	283.84	0.692389
3580	40036.1	48.0546	269.682	0.655634
3581	40049.8	50.3473	258.57	0.621233
3582	40064.1	52.5289	245.672	0.592848
3583	40079	54.6108	235.271	0.565752
3584	40094.4	56.6021	226.644	0.542905
3585	40110.4	58.5163	218.658	0.521979
3586	40126.9	60.3571	211.394	0.502579
3587	40143.9	62.1392	206.033	0.488332
3588	40161.4	63.0664	0	-3.18E-02
3589	40178.9	62.9522	0	-3.17E-02
3590	40196.3	62.8381	0	-3.17E-02
3591	40213.8	62.7243	0	-3.16E-02
3592	40231.2	62.6105	0	-3.16E-02
3593	40248.6	62.497	0	-3.15E-02
3594	40265.9	62.3836	0	-3.15E-02
3595	40283.2	62.2703	0	-3.14E-02
3596	40300.5	62.1572	0	-3.14E-02
3597	40317.8	62.0443	0	-3.13E-02
3598	40335	61.9316	0	-3.13E-02
3599	40352.2	61.819	0	-3.13E-02
3600	40369.3	60.3618	-369.849	-1.08217
3601	40385.5	56.4038	-369.849	-1.09705
3602	40400.6	52.5875	-328.08	-0.891173
3603	40414.9	50.921	-11.1947	-9.03E-02
3604	40429	50.9078	0	2.52E-03
3605	40443.2	50.9117	-4.69513	0
3606	40457.3	50.9117	-8.14783	0
3607	40471.5	50.9117	-11.6005	0
3608	40485.6	50.9117	-6.03253	0
3609	40499.8	50.9117	-2.3419	0
3610	40513.9	50.9117	-4.31267	0

3556	194.622	124.074	170.84
3557	194.613	124.085	170.787
3558	194.604	124.097	170.734
3559	194.595	124.109	170.681
3560	194.585	124.12	170.628
3561	194.576	124.132	170.576
3562	194.567	124.143	170.523
3563	194.558	124.155	170.47
3564	194.549	124.166	170.418
3565	194.596	124.176	170.606
3566	194.643	124.191	170.79
3567	194.691	124.207	170.974
3568	194.734	124.222	171.145
3569	194.777	124.237	171.312
3570	194.823	124.251	171.481
3571	194.875	124.266	171.662
3572	194.935	124.282	171.855
3573	195	124.298	172.057
3574	195.068	124.311	172.266
3575	195.139	124.325	172.498
3576	195.205	124.335	172.714
3577	195.263	124.344	172.894
3578	195.313	124.351	173.05
3579	195.356	124.356	173.186
3580	195.396	124.36	173.308
3581	195.432	124.364	173.416
3582	195.465	124.366	173.516
3583	195.495	124.367	173.605
3584	195.523	124.368	173.684
3585	195.549	124.368	173.753
3586	195.575	124.367	173.813
3587	195.603	124.364	173.874
3588	195.541	124.345	173.715
3589	195.48	124.325	173.557
3590	195.419	124.305	173.398
3591	195.357	124.285	173.241
3592	195.296	124.265	173.083
3593	195.235	124.244	172.926
3594	195.174	124.224	172.77
3595	195.114	124.204	172.614
3596	195.053	124.184	172.458
3597	194.993	124.164	172.303
3598	194.933	124.143	172.148
3599	194.873	124.123	171.993
3600	194.932	124.13	172.186
3601	194.988	124.14	172.368
3602	195.026	124.152	172.477
3603	194.998	124.149	172.552
3604	194.946	124.134	172.192
3605	194.905	124.124	172.048
3606	194.87	124.118	171.914
3607	194.84	124.115	171.792
3608	194.801	124.106	171.653
3609	194.756	124.093	171.502
3610	194.714	124.082	171.359

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012845

3611	40528	50.9117	-4.24751	0
3612	40542.2	50.9117	-2.79559	0
3613	40556.3	50.9117	-8.70509	0
3614	40570.5	50.9117	-8.70509	0
3615	40584.6	50.9117	-8.70509	0
3616	40598.7	50.9117	-8.70509	0
3617	40612.9	50.9117	-8.70509	0
3618	40627	50.9117	-7.21269	0
3619	40641.2	50.9117	-4.85032	0
3620	40655.3	50.9117	-2.48795	0
3621	40669.5	50.9117	-0.12558	0
3622	40683.6	50.9028	0	-5.21E-03
3623	40697.7	50.8726	0	-1.11E-02
3624	40711.9	50.8251	0	-1.02E-03
3625	40726	50.8263	0	-7.17E-04
3626	40740.1	50.8194	0	-2.93E-03
3627	40754.2	50.8046	0	-5.14E-03
3628	40768.3	50.787	0	-3.46E-03
3629	40782.4	50.8259	77.074	0.137436
3630	40796.7	52.5395	245.619	0.619981
3631	40811.6	54.7167	234.742	0.591642
3632	40827.1	56.7999	225.818	0.567995
3633	40843.1	58.4726	-369.849	-1.06639
3634	40858.4	54.1393	-87.2698	-0.274207
3635	40873.4	53.9972	0	-1.12E-03
3636	40888.4	53.9932	0	-1.12E-03
3637	40903.4	53.9892	0	-1.12E-03
3638	40918.4	53.9851	0	-1.12E-03
3639	40933.3	53.9784	0	-1.26E-02
3640	40948.3	53.8495	0	-3.74E-02
3641	40963.3	53.7082	0	-4.09E-02
3642	40978.2	53.5545	0	-4.43E-02
3643	40993	53.3884	0	-4.77E-02
3644	41007.8	53.2299	0	-3.37E-02
3645	41022.6	53.1067	0	-3.36E-02
3646	41037.3	52.9877	0	-3.36E-02
3647	41052	52.8668	0	-3.36E-02
3648	41066.7	52.7461	0	-3.35E-02
3649	41081.3	52.6195	0	-4.13E-02
3650	41095.9	52.4293	0	-6.29E-02
3651	41110.5	52.1613	0	-8.45E-02
3652	41124.9	51.8161	0	-0.105832
3653	41139.2	51.3942	0	-0.127028
3654	41153.4	50.8964	0	-0.148009
3655	41167.5	50.3256	0	-0.160455
3656	41181.4	49.7442	0	-0.169484
3657	41195.1	49.1012	0	-0.186485
3658	41208.7	48.3974	0	-0.203232
3659	41222	47.6421	0	-0.210909
3660	41235.1	46.8893	3.41126	-0.207579
3661	41248.2	47.3918	273.558	0.483709
3662	41261.6	49.0832	263.666	0.458065
3663	41275.4	50.686	254.878	0.434996
3664	41289.7	52.2144	247.242	0.417495
3665	41304.4	53.7164	239.739	0.41707

3611	194.672	124.071	171.215
3612	194.628	124.058	171.068
3613	194.594	124.052	170.939
3614	194.56	124.045	170.811
3615	194.526	124.038	170.683
3616	194.491	124.032	170.555
3617	194.457	124.025	170.428
3618	194.421	124.016	170.297
3619	194.38	124.005	170.158
3620	194.335	123.991	170.013
3621	194.286	123.975	169.861
3622	194.237	123.958	169.709
3623	194.188	123.941	169.558
3624	194.139	123.924	169.407
3625	194.091	123.907	169.256
3626	194.042	123.89	169.106
3627	193.993	123.873	168.956
3628	193.944	123.855	168.807
3629	193.934	123.857	168.728
3630	193.968	123.856	168.639
3631	193.998	123.855	168.539
3632	194.027	123.852	169.028
3633	194.083	123.86	169.218
3634	194.08	123.87	169.157
3635	194.029	123.851	169.008
3636	193.977	123.832	168.859
3637	193.925	123.813	168.711
3638	193.873	123.794	168.564
3639	193.822	123.775	168.416
3640	193.77	123.756	168.269
3641	193.719	123.737	168.123
3642	193.667	123.718	167.977
3643	193.616	123.699	167.831
3644	193.565	123.68	167.685
3645	193.514	123.661	167.54
3646	193.464	123.642	167.396
3647	193.413	123.623	167.252
3648	193.363	123.604	167.108
3649	193.313	123.585	166.964
3650	193.263	123.566	166.821
3651	193.213	123.547	166.678
3652	193.163	123.528	166.536
3653	193.114	123.509	166.394
3654	193.066	123.49	166.252
3655	193.018	123.471	166.11
3656	192.97	123.453	165.968
3657	192.924	123.435	165.827
3658	192.878	123.417	165.686
3659	192.832	123.399	165.545
3660	192.796	123.387	165.419
3661	192.837	123.387	165.562
3662	192.876	123.386	165.695
3663	192.912	123.385	165.82
3664	192.946	123.383	165.939
3665	192.978	123.38	166.05

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012846



3666	41319.6	55.218	232.417	0.417434
3667	41335.1	56.7009	162.87	0.312912
3668	41350.9	56.6167	0	-0.128962
3669	41366.5	56.1099	0	-0.140375
3670	41382.1	55.8372	0	-0.123387
3671	41397.5	55.2253	0	-0.106555
3672	41412.8	54.8738	0	-8.99E-02
3673	41428	54.5928	0	-5.81E-02
3674	41443.1	54.3837	0	-5.80E-02
3675	41458.2	54.175	0	-5.79E-02
3676	41473.2	53.9666	0	-5.79E-02
3677	41488.1	53.7584	0	-5.78E-02
3678	41503.1	53.5506	0	-5.77E-02
3679	41517.8	51.9918	-369.846	-1.12954
3680	41531.7	47.9255	-369.844	-1.12954
3681	41544.5	43.8837	-369.845	-1.11381
3682	41556.1	39.8789	-369.846	-1.11136
3683	41568.6	35.8825	-369.85	-1.10913
3684	41576	31.8937	-369.851	-1.10714
3685	41584.3	27.9116	-369.851	-1.10538
3686	41591.5	23.9354	-369.852	-1.10387
3687	41597.6	19.9642	-369.852	-1.10259
3688	41602.6	15.9973	-369.852	-1.10153
3689	41606.5	12.0337	-369.852	-1.1007
3690	41609.3	8.07271	-227.762	-1.1001
3691	41611	4.12326	-1.01185	-1.09821
3692	41611.6	1.74461	-0.42813	-0.845838
3693	41612	0	0	0
3694	41612	0	0	0
3695	41612	0	0	0
3696	41612	0	0	0
3697	41612	0	0	0
3698	41612	0	0	0
3699	41612	0	0	0
3700	41612	0	0	0
3701	41612	0	0	0
3702	41612	0	0	0
3703	41612	0	0	0
3704	41612	0	0	0
3705	41612	0	0	0
3706	41612	0	0	0
3707	41612	0	0	0
3708	41612	0	0	0
3709	41612	0	0	0
3710	41612.2	0.610815	397.182	0.148157
3711	41612.7	2.90232	397.182	0.703977
3712	41613.7	5.81294	397.181	0.964829
3713	41615.8	9.35637	397.181	0.984083
3714	41618.9	12.8975	397.181	0.983397
3715	41623	16.4361	397.181	0.982687
3716	41628	19.9722	397.181	0.981934
3717	41634	23.5055	397.181	0.981135
3718	41641.1	27.0358	397.185	0.980296
3719	41649.1	30.5629	396.4	0.978904
3720	41658	34.0599	391.479	0.965395

3666	193.008	123.377	166.154
3667	193.015	123.374	166.154
3668	192.962	123.353	166.014
3669	192.908	123.332	165.874
3670	192.855	123.311	165.735
3671	192.803	123.29	165.598
3672	192.751	123.269	165.457
3673	192.699	123.248	165.318
3674	192.647	123.227	165.18
3675	192.596	123.206	165.042
3676	192.545	123.186	164.904
3677	192.494	123.165	164.766
3678	192.443	123.144	164.63
3679	192.495	123.152	164.81
3680	192.543	123.162	164.974
3681	192.591	123.174	165.131
3682	192.643	123.188	165.289
3683	192.689	123.205	165.445
3684	192.744	123.221	165.609
3685	192.802	123.235	165.781
3686	192.854	123.249	165.947
3687	192.894	123.261	166.089
3688	192.935	123.273	166.237
3689	192.969	123.285	166.369
3690	192.986	123.298	166.43
3691	192.981	123.313	166.399
3692	192.976	123.323	166.366
3693	192.967	123.334	166.317
3694	192.958	123.345	166.268
3695	192.949	123.355	166.22
3696	192.94	123.366	166.171
3697	192.93	123.376	166.123
3698	192.921	123.387	166.074
3699	192.912	123.398	166.026
3700	192.903	123.408	165.978
3701	192.894	123.419	165.929
3702	192.885	123.429	165.881
3703	192.876	123.44	165.833
3704	192.867	123.451	165.785
3705	192.858	123.461	165.737
3706	192.849	123.472	165.689
3707	192.84	123.482	165.641
3708	192.831	123.492	165.594
3709	192.822	123.503	165.546
3710	192.869	123.511	165.74
3711	192.916	123.524	165.933
3712	192.963	123.538	166.125
3713	193.007	123.55	166.305
3714	193.05	123.562	166.48
3715	193.096	123.573	166.66
3716	193.148	123.588	166.852
3717	193.209	123.599	167.055
3718	193.275	123.612	167.268
3719	193.343	123.623	167.489
3720	193.414	123.633	167.733

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012847

ALSTOM

3721	41668	37.4313	359.504	0.892451
3722	41678.8	40.4497	323.559	0.796842
3723	41690.4	43.2128	301.691	0.743232
3724	41702.8	45.7931	282.907	0.696751
3725	41715.9	48.2357	268.623	0.663063
3726	41729.6	50.5614	255.5	0.632183
3727	41743.9	52.7884	244.375	0.606933
3728	41758.9	54.9271	233.691	0.582982
3729	41774.4	56.9856	225.031	0.564049
3730	41790.8	58.9852	216.701	0.546399
3731	41807.2	60.922	209.695	0.531909
3732	41824.4	62.8146	204.001	0.519235
3733	41842.1	64.6557	198.463	0.504499
3734	41860.3	66.4484	193.807	0.491404
3735	41879	68.1879	155.766	0.43696
3736	41898	68.6117	-0.87995	0
3737	41917.1	68.6117	-0.87995	0
3738	41936.2	68.6117	-0.87995	0
3739	41955.2	68.6117	-0.87995	0
3740	41974.3	68.6117	-0.87995	0
3741	41993.3	68.6117	-0.87995	0
3742	42012.4	68.6117	-0.87995	0
3743	42031.5	68.6117	-0.87995	0
3744	42050.5	68.6117	-0.87995	0
3745	42069.6	68.6117	-0.87995	0
3746	42088.6	68.6117	-0.87995	0
3747	42107.7	68.6117	-0.87995	0
3748	42126.8	68.6117	-0.87995	0
3749	42145.8	68.6117	-0.61148	0
3750	42164.9	68.6615	-130.086	-0.247982
3751	42183.6	66.0037	-367.011	-1.06846
3752	42201.4	62.1287	-369.848	-1.07856
3753	42218.1	58.2375	-369.849	-1.08289
3754	42233.8	54.3313	-369.848	-1.08694
3755	42248.3	50.411	-369.844	-1.09071
3756	42261.8	46.4776	-369.845	-1.09418
3757	42274.1	42.5322	-369.845	-1.09738
3758	42285.4	38.576	-369.847	-1.09999
3759	42295.8	34.616	-369.851	-1.1
3760	42304.6	30.656	-369.851	-1.09999
3761	42312.8	26.6961	-369.851	-1.09999
3762	42319.5	22.7361	-369.852	-1.09999
3763	42325.2	18.7761	-369.852	-1.09999
3764	42329.9	14.8162	-369.852	-1.1
3765	42333.5	10.8562	-369.852	-1.09999
3766	42335.9	6.89632	-141.033	-1.09995
3767	42337.2	3.41661	-0.83844	-1.02324
3768	42337.7	1.03796	-0.25472	-0.770863
3769	42338	0	0	0
3770	42338	0	0	0
3771	42338	0	0	0
3772	42338	0	0	0
3773	42338	0	0	0
3774	42338	0	0	0
3775	42338	0	0	0

3721	193.48	123.641	167.957
3722	193.538	123.647	168.146
3723	193.588	123.651	168.311
3724	193.632	123.654	168.457
3725	193.672	123.655	168.588
3726	193.708	123.656	168.706
3727	193.741	123.655	168.815
3728	193.771	123.654	168.914
3729	193.8	123.652	169.002
3730	193.827	123.649	169.078
3731	193.853	123.645	169.15
3732	193.883	123.64	169.221
3733	193.916	123.634	169.292
3734	193.949	123.627	169.364
3735	193.988	123.62	169.376
3736	193.905	123.596	169.232
3737	193.842	123.573	169.091
3738	193.779	123.549	168.949
3739	193.716	123.526	168.808
3740	193.653	123.502	168.667
3741	193.591	123.478	168.527
3742	193.528	123.455	168.387
3743	193.465	123.431	168.247
3744	193.402	123.407	168.108
3745	193.34	123.383	167.969
3746	193.277	123.359	167.83
3747	193.214	123.335	167.692
3748	193.152	123.31	167.554
3749	193.088	123.286	167.416
3750	193.1	123.266	167.367
3751	193.18	123.288	167.612
3752	193.247	123.292	167.828
3753	193.305	123.299	168.022
3754	193.359	123.308	168.206
3755	193.409	123.319	168.369
3756	193.458	123.332	168.521
3757	193.505	123.348	168.669
3758	193.555	123.365	168.817
3759	193.601	123.388	168.964
3760	193.658	123.403	169.123
3761	193.715	123.419	169.286
3762	193.764	123.435	169.436
3763	193.803	123.449	169.571
3764	193.844	123.464	169.712
3765	193.876	123.478	169.828
3766	193.884	123.493	169.846
3767	193.879	123.509	169.806
3768	193.874	123.52	169.756
3769	193.865	123.531	169.713
3770	193.856	123.543	169.661
3771	193.847	123.554	169.609
3772	193.837	123.566	169.557
3773	193.828	123.577	169.505
3774	193.819	123.588	169.453
3775	193.81	123.6	169.401



Handwritten scribble or signature, possibly containing the number '5'.



ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012848

3776	42338	0	0	0
3777	42338	0	0	0
3778	42338	0	0	0
3779	42338	0	0	0
3780	42338	0	0	0
3781	42338	0	0	0
3782	42338	0	0	0
3783	42338	0	0	0
3784	42338	0	0	0
3785	42338	0	0	0
3786	42338.3	1.29158	397.182	0.31328
3787	42338.9	3.58308	397.182	0.8691
3788	42340.2	6.86589	397.181	0.984593
3789	42342.6	10.4086	397.181	0.98388
3790	42346	13.949	397.181	0.98319
3791	42350.4	17.4869	397.181	0.982468
3792	42355.7	21.0221	397.181	0.981702
3793	42362	24.5546	397.181	0.980888
3794	42369.3	28.0841	397.188	0.98004
3795	42377.6	31.6068	394.931	0.974872
3796	42386.9	35.0895	388.757	0.961415
3797	42397.1	38.3647	347.736	0.861965
3798	42408.2	41.2893	316.914	0.779054
3799	42420	43.9856	295.574	0.723834
3800	42432.6	46.4982	278.784	0.679261
3801	42445.8	48.8735	264.893	0.643203
3802	42459.7	51.1246	252.887	0.61112
3803	42474.2	53.2706	241.966	0.583195
3804	42489.3	55.3163	232.008	0.552258
3805	42505	57.2256	224.042	0.511104
3806	42521.1	58.9888	218.687	0.470882
3807	42537.7	60.6098	210.634	0.433115
3808	42554.8	62.1042	205.138	0.399067
3809	42572.2	63.4769	202.009	0.365471
3810	42590	64.7298	198.24	0.332356
3811	42608.2	65.8652	195.142	0.300491
3812	42626.6	66.8881	192.44	0.270502
3813	42645.3	67.8489	189.902	0.233895
3814	42664.3	68.7856	187.428	0.257055
3815	42683.5	69.6987	185.016	0.250579
3816	42703	70.5888	182.653	0.244234
3817	42722.7	71.4562	180.343	0.23803
3818	42742.7	72.3017	178.092	0.23198
3819	42762.9	73.1256	175.898	0.226082
3820	42783.3	73.9251	173.77	0.214066
3821	42804	74.7709	171.518	0.257054
3822	42824.9	75.7701	122.85	0.227482
3823	42845.9	75.5382	0	-7.29E-02
3824	42866.9	75.398	0	-1.17E-02
3825	42887.8	75.4582	0	4.25E-02
3826	42908.8	75.7136	0	9.68E-02
3827	42929.9	75.8358	-56.2357	0
3828	42950.9	75.8358	-56.6036	0
3829	42972	75.8358	-56.9715	0
3830	42993.1	75.8358	-57.1882	0

3778	193.801	123.611	169.348
3777	193.792	123.623	169.297
3778	193.782	123.634	169.245
3779	193.773	123.645	169.193
3780	193.764	123.657	169.142
3781	193.755	123.668	169.09
3782	193.746	123.679	169.039
3783	193.737	123.69	168.987
3784	193.728	123.702	168.936
3785	193.718	123.713	168.885
3786	193.708	123.724	169.072
3787	193.813	123.74	169.259
3788	193.859	123.755	169.441
3789	193.902	123.769	169.611
3790	193.945	123.783	169.779
3791	193.993	123.797	169.955
3792	194.047	123.811	170.143
3793	194.111	123.827	170.343
3794	194.177	123.842	170.549
3795	194.246	123.855	170.769
3796	194.318	123.866	171.012
3797	194.381	123.875	171.217
3798	194.438	123.883	171.392
3799	194.483	123.889	171.543
3800	194.526	123.893	171.676
3801	194.564	123.896	171.798
3802	194.599	123.899	171.904
3803	194.631	123.9	172.002
3804	194.661	123.901	172.091
3805	194.689	123.901	172.169
3806	194.715	123.9	172.238
3807	194.741	123.898	172.301
3808	194.769	123.896	172.365
3809	194.8	123.893	172.428
3810	194.832	123.889	172.491
3811	194.864	123.884	172.555
3812	194.897	123.879	172.62
3813	194.93	123.874	172.685
3814	194.964	123.867	172.751
3815	194.997	123.861	172.818
3816	195.03	123.854	172.886
3817	195.064	123.848	172.953
3818	195.098	123.838	173.021
3819	195.132	123.83	173.089
3820	195.166	123.821	173.158
3821	195.201	123.812	173.227
3822	195.214	123.803	173.201
3823	195.139	123.778	173.049
3824	195.064	123.753	172.896
3825	194.989	123.729	172.747
3826	194.914	123.704	172.597
3827	194.917	123.703	172.5
3828	194.92	123.703	172.403
3829	194.923	123.702	172.307
3830	194.926	123.701	172.211

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012849

3831	43014.1	75.8358	-57.1882	0
3832	43036.2	75.8358	-57.1882	0
3833	43056.3	75.8358	-57.1882	0
3834	43077.3	75.8358	-57.1882	0
3835	43098.4	75.8358	-57.1882	0
3836	43119.5	75.8358	-54.4987	0
3837	43140.5	75.8358	-42.0473	0
3838	43161.6	75.8358	-29.5959	0
3839	43182.6	75.8358	-17.1445	0
3840	43203.7	75.8358	-4.69304	0
3841	43224.8	75.8155	0	-1.80E-02
3842	43245.8	75.8915	0	-4.93E-02
3843	43266.8	75.4719	0	-6.42E-02
3844	43287.8	75.2409	0	-6.41E-02
3845	43308.6	74.986	0	-7.48E-02
3846	43329.4	74.7143	0	-7.61E-02
3847	43350.1	74.4378	0	-7.74E-02
3848	43370.8	74.1617	0	-7.35E-02
3849	43391.3	73.8973	0	-7.34E-02
3850	43411.8	73.6334	0	-7.33E-02
3851	43432.2	73.37	0	-7.31E-02
3852	43452.6	73.1089	0	-7.30E-02
3853	43472.8	72.8443	0	-7.29E-02
3854	43493	72.582	0	-7.28E-02
3855	43513.2	72.3202	0	-7.27E-02
3856	43533.2	72.0588	0	-7.26E-02
3857	43553.2	71.7978	0	-7.24E-02
3858	43573.1	71.5441	0	-6.88E-02
3859	43593	71.3048	0	-6.46E-02
3860	43612.7	69.744	-356.44	-1.11959
3861	43631.5	66.723	-367.804	-1.11461
3862	43649.2	61.7194	-369.848	-1.10992
3863	43665.8	57.7322	-369.849	-1.10553
3864	43681.3	53.7584	-369.848	-1.10244
3865	43695.6	49.7949	-369.844	-1.1
3866	43708.9	45.8349	-369.845	-1.09999
3867	43721.1	41.8749	-369.846	-1.09999
3868	43732.2	37.915	-369.848	-1.09999
3869	43742.2	33.955	-369.851	-1.09999
3870	43751	29.995	-369.851	-1.1
3871	43758.8	26.0351	-369.851	-1.09999
3872	43765.5	22.0751	-369.852	-1.09999
3873	43771.1	18.1151	-369.852	-1.09999
3874	43775.6	14.1552	-369.852	-1.09999
3875	43779	10.1952	-369.852	-1.1
3876	43781.2	6.23541	-92.308	-1.09993
3877	43782.3	3.01957	-0.741	-0.981111
3878	43782.8	0.640916	-0.15728	-0.728737
3879	43783	0	0	0
3880	43783	0	0	0
3881	43783	0	0	0
3882	43783	0	0	0
3883	43783	0	0	0
3884	43783	0	0	0
3885	43783	0	0	0

3831	194.93	123.701	172.115
3832	194.933	123.7	172.02
3833	194.936	123.699	171.925
3834	194.939	123.698	171.83
3835	194.943	123.697	171.735
3836	194.946	123.696	171.64
3837	194.948	123.695	171.542
3838	194.949	123.694	171.441
3839	194.951	123.693	171.339
3840	194.897	123.674	171.206
3841	194.822	123.648	171.06
3842	194.747	123.622	170.915
3843	194.672	123.596	170.77
3844	194.597	123.57	170.625
3845	194.523	123.545	170.48
3846	194.45	123.519	170.335
3847	194.376	123.493	170.191
3848	194.303	123.467	170.047
3849	194.231	123.441	169.902
3850	194.158	123.416	169.758
3851	194.088	123.39	169.615
3852	194.015	123.364	169.471
3853	193.944	123.339	169.328
3854	193.873	123.313	169.184
3855	193.802	123.288	169.041
3856	193.732	123.262	168.899
3857	193.662	123.237	168.756
3858	193.593	123.211	168.614
3859	193.523	123.188	168.471
3860	193.607	123.166	168.734
3861	193.687	123.189	168.973
3862	193.752	123.195	169.182
3863	193.808	123.204	169.372
3864	193.862	123.214	169.549
3865	193.91	123.227	169.706
3866	193.957	123.242	169.852
3867	194.006	123.259	169.996
3868	194.055	123.278	170.14
3869	194.102	123.3	170.283
3870	194.162	123.318	170.441
3871	194.218	123.336	170.601
3872	194.264	123.352	170.742
3873	194.304	123.368	170.875
3874	194.343	123.383	171.009
3875	194.373	123.398	171.117
3876	194.377	123.415	171.112
3877	194.372	123.43	171.068
3878	194.367	123.441	171.025
3879	194.358	123.453	170.972
3880	194.349	123.465	170.918
3881	194.339	123.477	170.864
3882	194.33	123.489	170.811
3883	194.321	123.501	170.757
3884	194.312	123.512	170.703
3885	194.302	123.524	170.65

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012859

ALSTOM

3886	43783	0	0	0
3887	43783	0	0	0
3888	43783	0	0	0
3889	43783	0	0	0
3890	43783	0	0	0
3891	43783	0	0	0
3892	43783	0	0	0
3893	43783	0	0	0
3894	43783	0	0	0
3895	43783	0	0	0
3896	43783.4	1.67407	397.182	0.406057
3897	43784	3.96558	397.182	0.961876
3898	43785.6	7.45737	397.181	0.984467
3899	43788.1	10.9997	397.181	0.983766
3900	43791.7	14.5397	397.181	0.983072
3901	43796.2	18.0772	397.181	0.982343
3902	43801.7	21.612	397.181	0.981569
3903	43808.2	25.1439	397.181	0.980748
3904	43815.7	28.6729	397.189	0.979895
3905	43824.1	32.1915	394.108	0.972814
3906	43833.5	35.6624	381.805	0.950297
3907	43843.9	38.8752	341.299	0.845302
3908	43855.1	41.7533	313.242	0.769549
3909	43867.1	44.4166	292.163	0.71501
3910	43879.8	46.9038	276.412	0.673105
3911	43893.1	49.2656	262.6	0.642158
3912	43907.1	51.5258	250.883	0.616713
3913	43921.7	53.703	239.806	0.594548
3914	43936.7	52.7767	-349.299	-0.938725
3915	43951.1	50.9391	-33.2335	-0.137791
3916	43965.2	50.9117	-3.34522	0
3917	43979.3	50.9117	-5.70759	0
3918	43993.5	50.9117	-8.06996	0
3919	44007.6	50.9117	-10.4323	0
3920	44021.8	50.9117	-12.5817	0
3921	44035.9	50.8885	0	-8.61E-03
3922	44050	50.8504	0	-1.23E-02
3923	44064.2	50.7989	0	-1.60E-02
3924	44078.3	50.734	0	-1.97E-02
3925	44092.3	50.6559	0	-2.34E-02
3926	44106.4	50.6342	0	-5.16E-03
3927	44120.5	50.6156	0	-5.16E-03
3928	44134.5	50.597	0	-5.15E-03
3929	44148.6	50.5785	0	-5.15E-03
3930	44162.6	50.58	0	-5.14E-03
3931	44176.7	50.5415	0	-5.13E-03
3932	44190.7	50.5231	0	-5.13E-03
3933	44204.7	50.5046	0	-5.12E-03
3934	44218.8	50.4862	0	-5.11E-03
3935	44232.8	50.4678	0	-5.11E-03
3936	44246.8	50.4494	0	-5.10E-03
3937	44260.8	50.4311	0	-5.09E-03
3938	44274.8	50.4128	0	-5.09E-03
3939	44288.8	50.3944	0	-5.08E-03
3940	44302.8	50.3762	0	-5.08E-03

3886	194.293	123.536	170.597
3887	194.284	123.548	170.543
3888	194.275	123.559	170.49
3889	194.266	123.571	170.437
3890	194.256	123.583	170.384
3891	194.247	123.595	170.331
3892	194.238	123.606	170.278
3893	194.229	123.618	170.225
3894	194.219	123.629	170.172
3895	194.21	123.641	170.119
3896	194.257	123.654	170.305
3897	194.305	123.671	170.489
3898	194.35	123.687	170.666
3899	194.393	123.702	170.833
3900	194.436	123.716	170.998
3901	194.485	123.731	171.173
3902	194.541	123.747	171.359
3903	194.605	123.764	171.557
3904	194.672	123.779	171.761
3905	194.741	123.793	171.981
3906	194.811	123.806	172.215
3907	194.873	123.816	172.411
3908	194.928	123.824	172.578
3909	194.972	123.831	172.722
3910	195.013	123.836	172.85
3911	195.051	123.841	172.964
3912	195.085	123.844	173.066
3913	195.116	123.847	173.16
3914	195.161	123.86	173.295
3915	195.155	123.874	173.211
3916	195.111	123.863	173.058
3917	195.072	123.856	172.913
3918	195.036	123.851	172.775
3919	195.004	123.848	172.645
3920	194.976	123.847	172.523
3921	194.927	123.833	172.362
3922	194.877	123.819	172.201
3923	194.828	123.804	172.041
3924	194.778	123.79	171.881
3925	194.729	123.775	171.722
3926	194.68	123.76	171.563
3927	194.631	123.746	171.404
3928	194.582	123.731	171.246
3929	194.533	123.716	171.089
3930	194.484	123.701	170.932
3931	194.435	123.685	170.775
3932	194.386	123.67	170.619
3933	194.337	123.655	170.464
3934	194.288	123.639	170.309
3935	194.239	123.624	170.154
3936	194.19	123.608	170
3937	194.141	123.592	169.846
3938	194.093	123.577	169.693
3939	194.044	123.561	169.54
3940	193.995	123.545	169.387

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

00012851

ALSTOM

3941	44316.8	50.3679	0	-5.07E-03
3942	44330.8	50.3607	0	-6.74E-04
3943	44344.8	50.3363	0	-1.81E-02
3944	44358.8	50.271	0	-1.81E-02
3945	44372.7	50.2059	0	-1.81E-02
3946	44386.7	50.1409	0	-1.81E-02
3947	44400.6	50.0713	0	-2.10E-02
3948	44414.5	50.0254	0	-4.95E-03
3949	44428.4	50.0076	0	-4.95E-03
3950	44442.3	49.9898	0	-4.94E-03
3951	44456.1	49.972	0	-4.94E-03
3952	44470	49.9543	0	-4.93E-03
3953	44483.9	49.9365	0	-4.92E-03
3954	44497.8	49.9188	0	-4.92E-03
3955	44511.6	49.9011	0	-4.91E-03
3956	44525.5	49.8835	0	-4.91E-03
3957	44539.3	49.8658	0	-4.90E-03
3958	44553.2	49.8482	0	-4.89E-03
3959	44567	49.8306	0	-4.89E-03
3960	44580.9	49.813	0	-4.88E-03
3961	44594.7	49.7954	0	-4.88E-03
3962	44608.5	49.7779	0	-4.87E-03
3963	44622.4	49.7604	0	-4.86E-03
3964	44636.2	49.7438	0	1.51E-02
3965	44650	49.835	0	1.87E-02
3966	44663.9	49.9093	0	2.23E-02
3967	44677.7	49.9966	0	2.59E-02
3968	44691.6	50.0968	0	2.88E-02
3969	44705.6	50.5267	172.019	0.408001
3970	44719.9	52.7545	244.545	0.848999
3971	44734.9	55.0337	233.195	0.619328
3972	44750.5	57.2185	224.08	0.595235
3973	44766.7	59.2952	215.409	0.555376
3974	44783.4	61.2406	208.738	0.525446
3975	44800.7	63.0717	203.228	0.493658
3976	44818.4	64.7892	198.061	0.46228
3977	44836.7	66.4103	193.702	0.44132
3978	44855.3	67.6252	0	-6.39E-02
3979	44874.1	67.3641	0	-8.02E-02
3980	44892.7	67.0446	0	-9.64E-02
3981	44911.3	66.6671	0	-0.112469
3982	44929.8	66.2603	0	-0.112906
3983	44948.1	65.8542	0	-0.112739
3984	44966.4	65.4486	0	-0.112573
3985	44984.5	65.0602	0	-0.103126
3986	45002.5	64.6933	0	-0.100862
3987	45020.4	64.3345	0	-9.86E-02
3988	45038.2	63.9837	0	-9.64E-02
3989	45056	63.6395	0	-9.54E-02
3990	45073.8	63.2962	0	-9.53E-02
3991	45091.1	62.9535	0	-9.51E-02
3992	45108.6	62.6192	0	-8.93E-02
3993	45125.9	62.3129	0	-8.13E-02
3994	45143.2	62.0353	0	-7.34E-02
3995	45160.4	61.7861	0	-6.55E-02

3941	193.947	123.529	169.235
3942	193.898	123.512	169.084
3943	193.85	123.496	168.932
3944	193.801	123.48	168.782
3945	193.753	123.464	168.631
3946	193.705	123.447	168.482
3947	193.657	123.431	168.332
3948	193.609	123.414	168.183
3949	193.56	123.397	168.035
3950	193.512	123.381	167.886
3951	193.464	123.364	167.739
3952	193.416	123.347	167.591
3953	193.369	123.33	167.445
3954	193.321	123.313	167.298
3955	193.273	123.296	167.152
3956	193.225	123.279	167.007
3957	193.177	123.261	166.861
3958	193.13	123.244	166.717
3959	193.082	123.227	166.572
3960	193.034	123.209	166.428
3961	192.987	123.191	166.285
3962	192.939	123.174	166.142
3963	192.891	123.156	165.999
3964	192.844	123.138	165.857
3965	192.796	123.12	165.715
3966	192.749	123.102	165.574
3967	192.701	123.084	165.433
3968	192.653	123.066	165.292
3969	192.661	123.065	165.296
3970	192.694	123.064	165.412
3971	192.725	123.061	165.518
3972	192.754	123.057	165.612
3973	192.78	123.052	165.695
3974	192.808	123.047	165.773
3975	192.838	123.041	165.852
3976	192.871	123.033	165.931
3977	192.905	123.025	166.01
3978	192.84	122.999	165.874
3979	192.776	122.974	165.738
3980	192.711	122.948	165.602
3981	192.648	122.923	165.466
3982	192.584	122.897	165.331
3983	192.521	122.872	165.195
3984	192.459	122.847	165.06
3985	192.397	122.822	164.925
3986	192.335	122.797	164.79
3987	192.273	122.773	164.655
3988	192.212	122.748	164.522
3989	192.152	122.723	164.388
3990	192.091	122.699	164.254
3991	192.032	122.675	164.12
3992	191.972	122.65	163.987
3993	191.913	122.626	163.854
3994	191.854	122.602	163.722
3995	191.795	122.578	163.589

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012852

3996	45177.5	61.5652	0	-5.77E-02
3997	45194.6	60.4996	-369.849	-1.11876
3998	45210.8	56.4863	-369.849	-1.1114
3999	45226	52.4985	-369.846	-1.10454
4000	45240	48.5334	-369.844	-1.09999
4001	45252.9	44.5734	-369.845	-1.1
4002	45264.7	40.6135	-369.846	-1.09999
4003	45275.5	36.6535	-369.849	-1.09999
4004	45285.1	32.6935	-369.851	-1.09999
4005	45293.6	28.7336	-369.851	-1.09999
4006	45301.1	24.7736	-369.852	-1.1
4007	45307.4	20.8136	-369.852	-1.09999
4008	45312.6	16.8537	-369.852	-1.09999
4009	45318.8	12.8937	-369.852	-1.09999
4010	45319.8	8.93374	-281.242	-1.09998
4011	45321.7	4.97413	-1.22065	-1.09986
4012	45322.5	2.28182	-0.55505	-0.900715
4013	45323	0	0	0
4014	45323	0	0	0
4015	45323	0	0	0
4016	45323	0	0	0
4017	45323	0	0	0
4018	45323	0	0	0
4019	45323	0	0	0
4020	45323	0	0	0
4021	45323	0	0	0
4022	45323	0	0	0
4023	45323	0	0	0
4024	45323	0	0	0
4025	45323	0	0	0
4026	45323	0	0	0
4027	45323	0	0	0
4028	45323	0	0	0
4029	45323	0	0	0
4030	45323	0.112546	397.182	2.73E-02
4031	45323.6	2.40405	397.182	0.583119
4032	45324.4	5.04215	397.181	0.985008
4033	45326.3	8.58608	397.181	0.984234
4034	45329.1	12.1277	397.181	0.983547
4035	45333	16.6669	397.181	0.982844
4036	45337.8	19.2035	397.181	0.982102
4037	45343.7	22.7374	397.181	0.981313
4038	45350.5	26.2684	397.183	0.98048
4039	45358.2	29.7964	397.151	0.979613
4040	45367	33.3037	392.543	0.968318
4041	45376.7	36.7269	368.384	0.915476
4042	45387.4	39.8221	329.361	0.814411
4043	45398.8	42.623	308.359	0.751734
4044	45411	45.2249	286.23	0.698594
4045	45423.9	47.6676	271.945	0.661509
4046	45437.5	49.9807	258.444	0.626395
4047	45451.7	52.179	247.42	0.597401
4048	45466.5	54.2769	236.939	0.570099
4049	45481.8	56.2818	227.98	0.546406
4050	45497.7	58.2084	219.942	0.525346

3996	191.736	122.554	183.457
3997	191.797	122.557	183.668
3998	191.854	122.563	183.867
3999	191.906	122.571	184.05
4000	191.955	122.581	184.216
4001	192.002	122.593	184.373
4002	192.053	122.608	184.531
4003	192.1	122.624	184.687
4004	192.152	122.641	184.849
4005	192.211	122.656	185.021
4006	192.267	122.67	185.193
4007	192.309	122.683	185.339
4008	192.349	122.695	185.486
4009	192.385	122.707	185.623
4010	192.408	122.72	185.71
4011	192.403	122.734	185.681
4012	192.398	122.746	185.648
4013	192.389	122.757	185.599
4014	192.38	122.767	185.551
4015	192.371	122.778	185.502
4016	192.362	122.789	185.454
4017	192.353	122.799	185.406
4018	192.344	122.81	185.357
4019	192.335	122.821	185.309
4020	192.325	122.831	185.261
4021	192.316	122.842	185.213
4022	192.307	122.852	185.165
4023	192.298	122.863	185.117
4024	192.289	122.873	185.069
4025	192.28	122.884	185.021
4026	192.271	122.894	184.974
4027	192.262	122.905	184.926
4028	192.253	122.915	184.878
4029	192.244	122.926	184.831
4030	192.292	122.934	185.024
4031	192.339	122.946	185.216
4032	192.387	122.96	185.411
4033	192.431	122.973	185.593
4034	192.474	122.984	185.769
4035	192.518	122.996	185.946
4036	192.569	123.009	186.135
4037	192.628	123.022	186.336
4038	192.693	123.036	186.547
4039	192.761	123.047	186.764
4040	192.832	123.058	187.003
4041	192.899	123.067	187.234
4042	192.959	123.073	187.429
4043	193.01	123.078	187.6
4044	193.055	123.082	187.749
4045	193.096	123.084	187.883
4046	193.132	123.085	188.004
4047	193.166	123.086	188.115
4048	193.197	123.085	188.217
4049	193.226	123.084	188.309
4050	193.254	123.082	188.39

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012853

4051	45514.2	59.6881	0	2.33E-02
4052	45530.7	59.5786	0	-3.04E-02
4053	45547.3	59.4693	0	-3.03E-02
4054	45563.8	59.3602	0	-3.03E-02
4055	45580.2	59.2512	0	-3.03E-02
4056	45596.7	59.1423	0	-3.02E-02
4057	45613.1	59.0336	0	-3.02E-02
4058	45629.5	58.9251	0	-3.01E-02
4059	45645.8	58.8167	0	-3.01E-02
4060	45662.2	58.7113	0	-2.51E-02
4061	45678.5	58.6573	0	-6.09E-03
4062	45694.7	58.6717	0	1.29E-02
4063	45711.1	58.7543	0	3.19E-02
4064	45727.4	58.9053	0	5.08E-02
4065	45743.8	59.1246	0	8.99E-02
4066	45760.2	59.1051	-300.034	-0.618597
4067	45776.2	55.8581	-369.849	-0.965806
4068	45791.3	52.446	-366.012	-0.853969
4069	45805.6	50.9149	-56.5456	-5.32E-02
4070	45819.7	50.9117	-50.157	0
4071	45833.8	50.9117	-48.7097	0
4072	45848	50.9117	-52.5602	0
4073	45862.1	50.9117	-47.4021	0
4074	45876.3	50.9117	-38.783	0
4075	45890.4	50.9117	-37.4422	0
4076	45904.6	50.9117	-36.1014	0
4077	45918.7	50.9117	-34.7606	0
4078	45932.8	50.9117	-33.2997	0
4079	45947	50.9117	-39.2871	0
4080	45961.1	50.9117	-39.2871	0
4081	45975.3	50.9117	-39.2871	0
4082	45989.4	50.9117	-39.2871	0
4083	46003.5	50.9117	-39.2871	0
4084	46017.7	50.9117	-39.2871	0
4085	46031.8	50.9117	-39.2871	0
4086	46046	50.9117	-39.2871	0
4087	46060.1	50.9117	-39.2871	0
4088	46074.3	50.9117	-39.2871	0
4089	46088.4	50.9117	-39.2871	0
4090	46102.5	50.9117	-39.2871	0
4091	46116.7	50.9117	-39.2871	0
4092	46130.8	50.9117	-39.2871	0
4093	46145	50.9117	-39.2871	0
4094	46159.1	50.9117	-39.2871	0
4095	46173.3	50.9117	-39.2871	0
4096	46187.4	50.9117	-44.9673	0
4097	46201.5	50.9117	-47.0172	0
4098	46215.7	50.9117	-48.7678	0
4099	46229.8	50.9117	-48.5901	0
4100	46244	50.9117	-49.7756	0
4101	46258.1	51.0995	0	0.122194
4102	46272.4	51.5382	0	0.120024
4103	46286.7	51.9379	0	0.103227
4104	46301.2	52.2943	0	9.25E-02
4105	46315.8	52.5943	0	7.54E-02

4051	193.196	123.062	168.243
4052	193.139	123.041	168.096
4053	193.082	123.021	167.95
4054	193.025	123	167.804
4055	192.968	122.98	167.659
4056	192.912	122.959	167.513
4057	192.855	122.939	167.368
4058	192.799	122.918	167.224
4059	192.743	122.897	167.08
4060	192.687	122.877	166.936
4061	192.631	122.856	166.793
4062	192.575	122.835	166.65
4063	192.519	122.814	166.508
4064	192.462	122.793	166.366
4065	192.406	122.772	166.224
4066	192.441	122.778	166.322
4067	192.497	122.788	166.514
4068	192.547	122.796	166.685
4069	192.543	122.806	166.622
4070	192.539	122.816	166.558
4071	192.535	122.827	166.494
4072	192.531	122.837	166.431
4073	192.526	122.847	166.367
4074	192.522	122.857	166.302
4075	192.517	122.867	166.238
4076	192.513	122.877	166.173
4077	192.508	122.887	166.109
4078	192.503	122.897	166.045
4079	192.499	122.907	165.981
4080	192.494	122.917	165.918
4081	192.49	122.928	165.856
4082	192.486	122.938	165.793
4083	192.481	122.945	165.731
4084	192.477	122.955	165.668
4085	192.472	122.964	165.607
4086	192.468	122.973	165.545
4087	192.463	122.983	165.483
4088	192.459	122.992	165.422
4089	192.455	123.001	165.361
4090	192.45	123.01	165.301
4091	192.446	123.019	165.24
4092	192.441	123.028	165.18
4093	192.437	123.037	165.12
4094	192.433	123.045	165.06
4095	192.428	123.054	165
4096	192.424	123.063	164.941
4097	192.42	123.071	164.883
4098	192.416	123.08	164.825
4099	192.412	123.088	164.768
4100	192.408	123.097	164.71
4101	192.36	123.077	164.573
4102	192.311	123.058	164.435
4103	192.261	123.038	164.299
4104	192.212	123.017	164.163
4105	192.162	122.997	164.027

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012854

4106	46330.4	52.8409	0	6.24E-02
4107	46345.1	53.0339	0	4.59E-02
4108	46359.9	52.4282	-369.846	-1.04248
4109	46373.9	48.6448	-369.844	-1.0581
4110	46386.9	44.8073	-369.845	-1.07254
4111	46398.8	40.9195	-369.846	-1.08614
4112	46409.6	38.9842	-369.849	-1.09874
4113	46419.3	33.0243	-369.851	-1.09999
4114	46428	29.0644	-369.851	-1.09999
4115	46435.5	25.1044	-369.852	-1.1
4116	46441.9	21.1444	-369.852	-1.09999
4117	46447.2	17.1845	-369.852	-1.09999
4118	46451.5	13.2245	-369.852	-1.09999
4119	46454.6	9.26453	-315.63	-1.09998
4120	46456.6	5.30487	-23.7035	-1.09988
4121	46457.4	2.46052	-0.60381	-0.921797
4122	46458	8.19E-02	-2.01E-02	-0.669423
4123	46458	0	0	0
4124	46458	0	0	0
4125	46458	0	0	0
4126	46458	0	0	0
4127	46458	0	0	0
4128	46458	0	0	0
4129	46458	0	0	0
4130	46458	0	0	0
4131	46458	0	0	0
4132	46458	0	0	0
4133	46458	0	0	0
4134	46458	0	0	0
4135	46458	0	0	0
4136	46458	0	0	0
4137	46458	0	0	0
4138	46458	0	0	0
4139	46458	0	0	0
4140	48458.6	2.21263	397.182	0.536688
4141	48459.3	4.74603	397.182	0.985076
4142	48461.1	8.29016	397.181	0.984292
4143	48463.8	11.8319	397.181	0.983605
4144	48467.6	15.3713	397.181	0.982904
4145	48472.4	18.9082	397.181	0.982165
4146	48478.1	22.4423	397.181	0.981381
4147	48484.8	25.9736	397.183	0.98055
4148	48492.6	29.5018	397.191	0.979688
4149	48501.2	33.0125	392.953	0.969443
4150	48510.9	36.4518	371.853	0.924472
4151	48521.5	39.5771	332.45	0.822401
4152	48532.8	42.3967	308.149	0.756088
4153	48545	45.0108	287.486	0.700989
4154	48557.8	47.4551	273.188	0.661207
4155	48571.3	49.7639	259.686	0.624404
4156	48585.5	51.9068	248.78	0.57781
4157	48600.2	53.9294	238.675	0.548025
4158	48615.4	55.8485	229.787	0.520967
4159	48631.2	57.6784	222.153	0.497254
4160	48647.5	59.4302	214.845	0.482021

4106	192.112	122.976	163.892
4107	192.062	122.955	163.757
4108	192.114	122.993	163.941
4109	192.163	122.971	164.109
4110	192.21	122.983	164.268
4111	192.261	122.996	164.427
4112	192.309	123.012	164.585
4113	192.36	123.028	164.747
4114	192.419	123.043	164.921
4115	192.476	123.056	165.095
4116	192.519	123.068	165.245
4117	192.559	123.08	165.393
4118	192.596	123.092	165.533
4119	192.621	123.104	165.632
4120	192.619	123.118	165.612
4121	192.614	123.129	165.581
4122	192.61	123.137	165.551
4123	192.601	123.147	165.503
4124	192.592	123.158	165.455
4125	192.583	123.168	165.407
4126	192.574	123.179	165.359
4127	192.565	123.189	165.311
4128	192.556	123.2	165.264
4129	192.547	123.21	165.216
4130	192.538	123.221	165.168
4131	192.528	123.231	165.121
4132	192.519	123.242	165.073
4133	192.51	123.252	165.026
4134	192.501	123.262	164.978
4135	192.492	123.273	164.931
4136	192.483	123.283	164.884
4137	192.474	123.293	164.837
4138	192.465	123.304	164.79
4139	192.456	123.314	164.743
4140	192.503	123.325	164.937
4141	192.551	123.339	165.134
4142	192.595	123.351	165.318
4143	192.639	123.362	165.496
4144	192.683	123.374	165.674
4145	192.733	123.385	165.864
4146	192.791	123.398	166.065
4147	192.857	123.411	166.278
4148	192.924	123.422	166.496
4149	192.995	123.432	166.735
4150	193.063	123.44	166.972
4151	193.123	123.446	167.172
4152	193.176	123.45	167.346
4153	193.221	123.453	167.498
4154	193.262	123.454	167.636
4155	193.299	123.455	167.76
4156	193.334	123.454	167.874
4157	193.365	123.453	167.979
4158	193.395	123.451	168.075
4159	193.423	123.448	168.161
4160	193.449	123.445	168.237

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012855

4161	46684.2	61.1294	209.071	0.464291
4162	46681.4	62.7732	204.126	0.450305
4163	46699.1	64.3699	199.323	0.437528
4164	46717.2	65.9222	194.991	0.425875
4165	46735.7	67.4349	190.998	0.415156
4166	46754.6	68.9096	187.1	0.404699
4167	46774	70.3472	183.296	0.394483
4168	46793.7	71.7483	179.566	0.384458
4169	46813.8	73.1138	175.93	0.374681
4170	46834.3	74.4558	172.357	0.37329
4171	46855.1	75.0386	0	-5.93E-02
4172	46876	74.8293	0	-5.70E-02
4173	46896.7	74.6263	0	-5.48E-02
4174	46917.4	74.4312	0	-5.47E-02
4175	46938.1	74.2345	0	-5.46E-02
4176	46958.7	74.0381	0	-5.45E-02
4177	46979.2	73.842	0	-5.44E-02
4178	46999.7	73.6463	0	-5.43E-02
4179	47020.1	73.4508	0	-5.43E-02
4180	47040.5	73.2556	0	-5.42E-02
4181	47060.8	73.0608	0	-5.41E-02
4182	47081.1	72.8663	0	-5.40E-02
4183	47101.3	72.6721	0	-5.39E-02
4184	47121.4	72.4781	0	-5.38E-02
4185	47141.6	72.2844	0	-4.58E-02
4186	47161.8	72.1515	0	-3.66E-02
4187	47181.6	72.0375	0	-2.73E-02
4188	47201.6	71.9347	0	-3.25E-02
4189	47221.6	71.8314	0	-2.53E-02
4190	47241.5	71.7538	0	-1.81E-02
4191	47261.5	71.702	0	-1.10E-02
4192	47281.4	71.6875	0	-3.48E-03
4193	47301.3	71.675	0	-3.47E-03
4194	47321.2	71.6625	0	-3.47E-03
4195	47341.1	71.5348	-348.604	-0.584018
4196	47360.4	67.6896	-362.246	-1.06811
4197	47378.7	63.8443	-369.848	-1.06812
4198	47395.9	59.9991	-369.849	-1.06813
4199	47412	56.1755	-369.849	-1.0602
4200	47427.1	52.4752	-325.766	-0.861964
4201	47441.4	50.9159	-12.4505	-6.12E-02
4202	47455.6	50.9117	-5.02137	0
4203	47469.7	50.9117	-7.18488	0
4204	47483.8	50.9117	-7.18488	0
4205	47498	50.9117	-7.18488	0
4206	47512.1	50.9111	0	-2.46E-03
4207	47526.3	50.8364	0	-2.26E-02
4208	47540.4	50.7484	0	-2.62E-02
4209	47554.5	50.6472	0	-2.98E-02
4210	47568.5	50.5327	0	-3.35E-02
4211	47582.5	50.4075	0	-2.74E-02
4212	47596.5	50.3403	0	-1.87E-02
4213	47610.5	50.2732	0	-1.88E-02
4214	47624.4	50.2062	0	-1.86E-02
4215	47638.4	50.1392	0	-1.86E-02

4161	193.477	123.441	168.31
4162	193.507	123.436	168.383
4163	193.539	123.43	168.456
4164	193.572	123.423	168.529
4165	193.606	123.415	168.604
4166	193.64	123.406	168.68
4167	193.674	123.397	168.756
4168	193.709	123.388	168.834
4169	193.743	123.375	168.911
4170	193.779	123.364	168.99
4171	193.705	123.337	168.85
4172	193.632	123.31	168.709
4173	193.559	123.283	168.569
4174	193.486	123.256	168.43
4175	193.414	123.229	168.29
4176	193.342	123.202	168.151
4177	193.27	123.175	168.011
4178	193.198	123.148	167.873
4179	193.127	123.121	167.734
4180	193.056	123.094	167.595
4181	192.985	123.067	167.457
4182	192.915	123.04	167.319
4183	192.844	123.013	167.181
4184	192.774	122.987	167.044
4185	192.705	122.96	166.906
4186	192.635	122.933	166.769
4187	192.566	122.906	166.632
4188	192.497	122.879	166.496
4189	192.428	122.852	166.359
4190	192.359	122.825	166.223
4191	192.29	122.798	166.088
4192	192.221	122.771	165.952
4193	192.152	122.744	165.817
4194	192.084	122.717	165.683
4195	192.169	122.714	165.953
4196	192.252	122.714	165.209
4197	192.326	122.717	166.44
4198	192.385	122.723	166.639
4199	192.441	122.731	166.831
4200	192.479	122.741	166.949
4201	192.452	122.737	166.841
4202	192.412	122.726	166.711
4203	192.376	122.717	166.587
4204	192.34	122.707	166.464
4205	192.304	122.698	166.341
4206	192.255	122.68	166.197
4207	192.207	122.663	166.053
4208	192.159	122.645	165.909
4209	192.11	122.628	165.765
4210	192.062	122.61	165.622
4211	192.014	122.593	165.48
4212	191.966	122.575	165.338
4213	191.919	122.557	165.196
4214	191.871	122.54	165.054
4215	191.823	122.522	164.913

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012856

4216	47652.3	50.0724	0	-1.86E-02
4217	47666.2	50.0041	0	-2.03E-02
4218	47680.1	49.9223	0	-2.48E-02
4219	47693.9	49.8245	0	-2.92E-02
4220	47707.8	49.7107	0	-3.37E-02
4221	47721.6	49.5809	0	-3.81E-02
4222	47735.3	49.4353	0	-4.25E-02
4223	47749	49.2738	0	-4.69E-02
4224	47762.7	49.1152	0	-3.18E-02
4225	47776.3	48.9992	0	-3.26E-02
4226	47789.9	48.8805	0	-3.33E-02
4227	47803.5	48.7594	0	-3.32E-02
4228	47817	48.6468	0	-2.98E-02
4229	47830.5	48.547	0	-2.64E-02
4230	47844	48.4521	0	-2.64E-02
4231	47857.4	48.3572	-86.97	-2.63E-02
4232	47870.4	44.7445	-369.845	-1.1
4233	47882.3	40.7845	-369.846	-1.09999
4234	47893	36.8245	-369.849	-1.09999
4235	47902.7	32.8846	-369.851	-1.09999
4236	47911.3	28.9046	-369.851	-1.09999
4237	47918.8	24.9446	-369.852	-1.1
4238	47925.2	20.9847	-369.852	-1.09999
4239	47930.4	17.0247	-369.852	-1.09999
4240	47934.6	13.0647	-369.852	-1.09999
4241	47937.7	9.10477	-303.851	-1.09998
4242	47939.6	5.14513	-11.9266	-1.09987
4243	47940.4	2.36455	-0.58026	-0.911615
4244	47941	0	0	0
4245	47941	0	0	0
4246	47941	0	0	0
4247	47941	0	0	0
4248	47941	0	0	0
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4264	47941	0	0	0
4265	47941	0	0	0
4266	47941	0	0	0
4267	47941	0	0	0
4268	47941	0	0	0
4269	47941	0	0	0
4270	47941	0	0	0

4216	191.776	122.504	164.773
4217	191.729	122.486	164.532
4218	191.681	122.468	164.492
4219	191.634	122.45	164.353
4220	191.587	122.432	164.214
4221	191.54	122.414	164.075
4222	191.493	122.396	163.937
4223	191.446	122.378	163.799
4224	191.4	122.36	163.661
4225	191.354	122.342	163.524
4226	191.307	122.324	163.387
4227	191.261	122.306	163.25
4228	191.215	122.288	163.114
4229	191.169	122.269	162.978
4230	191.124	122.251	162.842
4231	191.122	122.261	162.797
4232	191.17	122.272	162.957
4233	191.221	122.286	163.118
4234	191.269	122.302	163.277
4235	191.32	122.318	163.441
4236	191.379	122.332	163.615
4237	191.435	122.345	163.791
4238	191.478	122.357	163.941
4239	191.519	122.369	164.09
4240	191.555	122.381	164.231
4241	191.579	122.393	164.326
4242	191.575	122.406	164.303
4243	191.57	122.418	164.273
4244	191.561	122.428	164.226
4245	191.552	122.439	164.178
4246	191.543	122.449	164.131
4247	191.534	122.459	164.084
4248	191.525	122.47	164.036
4249	191.516	122.48	163.989
4250	191.507	122.491	163.942
4251	191.498	122.501	163.895
4252	191.489	122.511	163.848
4253	191.48	122.522	163.802
4254	191.471	122.532	163.755
4255	191.462	122.542	163.708
4256	191.453	122.552	163.661
4257	191.444	122.563	163.615
4258	191.435	122.573	163.568
4259	191.426	122.583	163.522
4260	191.417	122.593	163.476
4261	191.408	122.603	163.429
4262	191.399	122.614	163.383
4263	191.39	122.624	163.337
4264	191.381	122.634	163.291
4265	191.372	122.644	163.245
4266	191.363	122.654	163.199
4267	191.354	122.664	163.153
4268	191.345	122.674	163.107
4269	191.336	122.684	163.061
4270	191.328	122.694	163.015

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012857

4271	47941	0	0	0
4272	47941	0	0	0
4273	47941	0	0	0
4274	47941	0	0	0
4275	47941	0	0	0
4276	47941	0	0	0
4277	47941	0	0	0
4278	47941	0	0	0
4279	47941	0	0	0
4280	47941	0	0	0
4281	47941	0	0	0
4282	47941	0	0	0
4283	47941	0	0	0
4284	47941	0	0	0
4285	47941	0	0	0
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4287	47941	0	0	0
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4290	47941	0	0	0
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4292	47941	0	0	0
4293	47941	0	0	0
4294	47941	0	0	0
4295	47941	0	0	0
4296	47941	0	0	0
4297	47941	0	0	0
4298	47941	0	0	0
4299	47941	0	0	0
4300	47941	0	0	0
4301	47941	0	0	0
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4319	47941	0	0	0
4320	47941	0	0	0
4321	47941	0	0	0
4322	47941	0	0	0
4323	47941	0	0	0
4324	47941	0	0	0
4325	47941	0	0	0

4271	191.319	122.704	162.969
4272	191.31	122.714	162.924
4273	191.301	122.724	162.878
4274	191.292	122.734	162.833
4275	191.283	122.744	162.787
4276	191.274	122.754	162.742
4277	191.265	122.764	162.697
4278	191.256	122.774	162.651
4279	191.247	122.784	162.606
4280	191.238	122.794	162.561
4281	191.229	122.803	162.516
4282	191.22	122.813	162.471
4283	191.211	122.823	162.426
4284	191.202	122.833	162.381
4285	191.193	122.843	162.336
4286	191.184	122.853	162.292
4287	191.176	122.862	162.247
4288	191.167	122.872	162.202
4289	191.158	122.882	162.158
4290	191.149	122.891	162.113
4291	191.14	122.901	162.069
4292	191.131	122.911	162.024
4293	191.122	122.921	161.98
4294	191.113	122.93	161.936
4295	191.104	122.94	161.892
4296	191.095	122.949	161.847
4297	191.086	122.959	161.803
4298	191.078	122.969	161.759
4299	191.069	122.978	161.715
4300	191.06	122.988	161.671
4301	191.051	122.997	161.628
4302	191.042	123.007	161.584
4303	191.033	123.016	161.54
4304	191.024	123.026	161.496
4305	191.015	123.035	161.453
4306	191.006	123.045	161.409
4307	190.998	123.054	161.366
4308	190.989	123.064	161.322
4309	190.98	123.073	161.279
4310	190.971	123.083	161.236
4311	190.962	123.092	161.193
4312	190.953	123.101	161.149
4313	190.944	123.111	161.106
4314	190.935	123.12	161.063
4315	190.927	123.129	161.02
4316	190.918	123.139	160.977
4317	190.909	123.148	160.934
4318	190.9	123.157	160.892
4319	190.891	123.167	160.849
4320	190.882	123.176	160.806
4321	190.874	123.185	160.763
4322	190.865	123.194	160.721
4323	190.856	123.204	160.678
4324	190.847	123.213	160.636
4325	190.838	123.222	160.593

ANEXO 1E
SIMULACIONES, CÁLCULOS Y GRÁFICAS

RESULT-EBRCL130
Coasting application.xls

ALSTOM

00012858

4326	47941	0	0	0
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4331	47941	0	0	0
4332	47941	0	0	0
4333	47941	0	0	0
4334	47941	0	0	0
4335	47941	0	0	0
4336	47941	0	0	0
4337	47941	0	0	0
4338	47941	0	0	0
4339	47941	0	0	0
4340	47941	0	0	0
4341	47941	0	0	0
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4350	47941	0	0	0
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4360	47941	0	0	0
4361	47941	0	0	0
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4363	47941	0	0	0
4364	47941	0	0	0
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4366	47941	0	0	0
4367	47941	0	0	0
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4369	47941	0	0	0
4370	47941	0	0	0
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4373	47941	0	0	0
4374	47941	0	0	0
4375	47941	0	0	0
4376	47941	0	0	0
4377	47941	0	0	0
4378	47941	0	0	0
4379	47941	0	0	0
4380	47941	0	0	0

4326	190.829	123.231	160.551
4327	190.821	123.24	160.509
4328	190.812	123.249	160.467
4329	190.803	123.259	160.424
4330	190.794	123.268	160.382
4331	190.785	123.277	160.34
4332	190.776	123.286	160.298
4333	190.768	123.295	160.256
4334	190.759	123.304	160.214
4335	190.75	123.313	160.173
4336	190.741	123.322	160.131
4337	190.732	123.331	160.089
4338	190.724	123.34	160.047
4339	190.715	123.349	160.006
4340	190.706	123.358	159.964
4341	190.697	123.367	159.923
4342	190.688	123.376	159.881
4343	190.68	123.385	159.84
4344	190.671	123.394	159.799
4345	190.662	123.403	159.757
4346	190.653	123.412	159.716
4347	190.644	123.42	159.675
4348	190.636	123.429	159.634
4349	190.627	123.438	159.593
4350	190.618	123.447	159.552
4351	190.609	123.456	159.511
4352	190.601	123.465	159.47
4353	190.592	123.473	159.429
4354	190.583	123.482	159.389
4355	190.574	123.491	159.348
4356	190.566	123.5	159.307
4357	190.557	123.508	159.267
4358	190.548	123.517	159.226
4359	190.539	123.526	159.186
4360	190.531	123.534	159.145
4361	190.522	123.543	159.105
4362	190.513	123.552	159.065
4363	190.504	123.56	159.024
4364	190.496	123.569	158.984
4365	190.487	123.578	158.944
4366	190.478	123.586	158.904
4367	190.469	123.595	158.864
4368	190.461	123.603	158.824
4369	190.452	123.612	158.784
4370	190.443	123.62	158.744
4371	190.434	123.629	158.704
4372	190.426	123.638	158.665
4373	190.417	123.646	158.625
4374	190.408	123.655	158.585
4375	190.4	123.663	158.546
4376	190.391	123.671	158.506
4377	190.382	123.68	158.467
4378	190.373	123.688	158.427
4379	190.365	123.697	158.388
4380	190.356	123.706	158.349

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4384	190.321	123.739	158.192
4385	190.313	123.747	158.153
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4387	190.295	123.764	158.075
4388	190.286	123.772	158.036
4389	190.278	123.78	157.997
4390	190.269	123.789	157.959
4391	190.26	123.797	157.92
4392	190.252	123.805	157.881
4393	190.243	123.813	157.843
4394	190.234	123.821	157.804
4395	190.226	123.83	157.765
4396	190.217	123.838	157.727
4397	190.208	123.846	157.689
4398	190.2	123.854	157.65
4399	190.191	123.862	157.612
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4423	189.984	124.054	156.708
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